IEEE P802.11
Wireless LANs

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

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

# Monday, Jan 17, MAC/PHY (19:00-21:00)

* MAC: <https://mentor.ieee.org/802.11/dcn/22/11-22-0121-00-00be-jan-2022-interim-session-tgbe-mac-minutes.docx>
* PHY: <https://mentor.ieee.org/802.11/dcn/22/11-22-0120-00-00be-minutes-802-11-be-phy-ad-hoc-telephone-conferences-jan-2022-interim-meeting.docx>

# Wednesday, Jan 19, 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 [1971r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1971-02-00be-tgbe-jan-2022-meeting-agenda.pptx).
2. Attendance reminder:

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:

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**. The Chair encourages the group to carefully read slides 14-15 in [1971r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1971-02-00be-tgbe-jan-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 4-5.
1. Announcements:
2. [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.
3. CR Submissions:
	1. [2019r4](https://mentor.ieee.org/802.11/dcn/21/11-21-2019-03-00be-cc36-cr-for-cid-5675-7793.docx) CR for CID 5675 7793 Zinan Lin [SP 2C]

Zinan goes through the resolution. Some online discussion and updates. Zinan will do some offline updates and come back later.

* 1. [2012r1](https://mentor.ieee.org/802.11/dcn/21/11-21-2012-01-00be-cr-for-35-5-3-part1.docx) cr-for-35.5.3\_part1 Jinyoung Chun [SP 15C]

Jinyoung presents the CRs.

SP: Do you agree to resolve the following CIDs listed in 2012r2 and incorporate the text changes into the latest TGbe draft?

* ~~7648~~, 7073, 7926, 5562, 6060, 5563, 7074, 4428, 7076, 4429, 6061, ~~5564~~, 7077, 7078 and 7927

Result: Supported with no objection from the group.

* 1. [2013r3](https://mentor.ieee.org/802.11/dcn/21/11-21-2013-03-00be-cr-for-35-5-3-part2.docx) cr-for-35.5.3\_part2 Jinyoung Chun

Jinyoung goes through the CRs and in particular changes to previous revision.

SP: Do you agree to resolve the following CIDs listed in 2013r4 and incorporate the text changes into the latest TGbe draft?

* 4244, 4245, 7928, 7079

Result: Supported with no objection from the group.

* 1. [2019r5](https://mentor.ieee.org/802.11/dcn/21/11-21-2019-05-00be-cc36-cr-for-cid-5675-7793.docx) CR for CID 5675 7793 Zinan Lin [SP 2C]

SP: Do you agree to resolve the following CIDs listed in [2019r5](https://mentor.ieee.org/802.11/dcn/21/11-21-2019-05-00be-cc36-cr-for-cid-5675-7793.docx) and incorporate the text changes into the latest TGbe draft?

* 5675 and 7793

Result: Supported with no objection from the group.

* 1. [2014r0](https://mentor.ieee.org/802.11/dcn/21/11-21-2014-00-00be-cr-for-35-5-3-part3.docx) cr-for-35.5.3\_part3 Jinyoung Chun [11C]
1. Motions (during 2nd half of meeting): [1982](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-55-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)
	1. Approve TG minutes

Move to approve TGbe minutes of teleconferences listed below:

* + - November Electronic: <https://mentor.ieee.org/802.11/dcn/21/11-21-1888-02-00be-tgbe-nov-2021-meeting-minutes.docx>
		- Teleconferences Nov-Jan.: <https://mentor.ieee.org/802.11/dcn/21/11-21-1952-03-00be-nov-jan-tgbe-teleconference-minutes.docx>

Move: Dennis Sundman Second: Edward Au

Discussion: No discussion

Result: Approved with unanimous consent.

* 1. Motion 284

Move to approve resolutions to the CIDs:

* 4630 in [1538r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1538-03-00be-cid-4630.docx) [1 CID]
* 4859, 4860, 5481, 6437, 8121 in [1759r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1759-00-00be-cc36-cr-eht-sig-misc.doc) [5 CIDs]
* 4535, 5462, 5715, 5809, 5810, 6825 in [1763r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1763-00-00be-36-2-3-trigvector-parameters-cr-d1-0.docx) [6 CID]
* 4521, 4523, 4940, 4942, 6462, 6464, 6907, 7095, 7958, 7962, 7964 in [1760r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1760-00-00be-36-1-1-introduction-to-the-eht-phy-cr-on-d1-0.doc) [11 CIDs]
* 7019, 7378 in [1740r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1740-01-00be-cc36-cr-for-cid-7019-and-7378.docx) [2 CIDs]

and incorporate the text changes into the latest TGbe draft.

Move: Bo Gong Second: Bin Tian

Discussion: No discussion

Result: Approved with unanimous consent.

* 1. Motion 285 (PHY-2)

Move to approve resolutions to the CIDs:

* 5099, 5100 in [1777r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1777-00-00be-cc36-cr-on-36-3-20.doc) *[2 CIDs]*
* 4983, 6426, 4984, 5405, 5464, 5524, 5811, 6424, 6425, 6427, 6783, 6784, 7143, 7134, 7135, 7136, 7137, 7141, 7746, 8092, 7138, 7139, 7140 in [1600r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1600-02-00be-cr-for-clause-36-3-2-2-subcarriers-and-resource-allocation-for-multiple-rus-part-1.doc) *[23 CIDs]*
* 4624, 7129, 7130 in [1762r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1762-02-00be-d1-0-crs-on-36-2-4-phy-config-vector-parameters.docx) *[3 CIDs]*
* 7104 in [1781r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1781-00-00be-updated-resolution-for-cid-7104.docx)\* *[1 CID]*
* 4550, 4657, 4995, 4996, 5813, 5814, 6822, 6925, 7190, 7191, 7193, 7312, 8100, 8101 in [1893r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1893-01-00be-cc36-crs-on-timing-related-parameters.docx) *[14 CIDs]*

and incorporate the text changes into the latest TGbe draft.

\*This resolution replaces the resolution previously proposed in 11-21/1167r1

Move: Ross Jian Yu Second: Bin Tian

Discussion: No discussion

Result: Approved with unanimous consent.

* 1. Motion 286 (PHY-3)

Move to approve resolutions to the CIDs:

* 7237, 7238 in [1912r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1912-01-00be-cr-for-section-36-3-11-12-on-p802-11be-d1-3-part-3.doc) *[2 CIDs]*
* 4558, 4562 in [1903r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1903-01-00be-cids-4558-and-4562.docx) *[2 CIDs]*
* 4868, 4869, 5435, 5436 in [1922r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1922-00-00be-cc36-comment-resolutions-for-4-cids.docx) *[4 CIDs]*
* 4534, 5460, 6781, 6923, 7124, 7989, 7653 in [1947r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1947-00-00be-cc36-cr-for-spatial-reuse-and-beamformed-in-txvector-and-rxvector.docx) *[7 CIDs]*
* 5815, 7658, 7659, 8098 in [1893r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1893-02-00be-cc36-crs-on-timing-related-parameters.docx) *[4 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Edward Au Second: Bin Tian

Discussion:

Result: Approved with unanimous consent.

* 1. Motion 287 (PHY-3)

Move to approve resolutions to the CIDs:

* 4846, 7755, 8140, 4635 in [0001r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0001-02-00be-proposed-resolution-for-tgbe-cc36-comments-on-clause-36.docx) *[4 CIDs]*
* 6904, 6905 in [0003r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0003-02-00be-cc36-crs-on-cca-sensitivity.docx) *[2 CIDs]*
* 7192 in [1893r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1893-04-00be-cc36-crs-on-timing-related-parameters.docx) *[1 CID]*
* 4633, 4649, 4650 in [2021r1](https://mentor.ieee.org/802.11/dcn/21/11-21-2021-01-00be-more-mac-phy-layering-issues.docx) *[3 CIDs]*
* 4993 in [0022r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0022-00-00be-cr-for-cid-4993.docx) *[1 CID]*

and incorporate the text changes into the latest TGbe draft.

Move: Bin Tian Second: Wook Bong Lee

Discussion:

Result: Approved with unanimous consent.

* 1. Motion 288 (MAC-1)

Move to approve resolutions to the CIDs:

* 4048, 5054, 6269, 5053, 4255, 4256, 7407, 5051, 5369, 5979, 6199, 6200, 6263, 6267, 6604, 7669 in [1713r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1713-01-00be-cc36-cr-for-ml-element-usage.docx) *[16 CIDs]*
* 5322 in [1710r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1710-05-00be-cc36-resolution-for-cids-for-9-4-2.docx) *[1 CID]*
* 5180 in [1254r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1254-04-00be-cc36-cr-on-btm.doc) *[1 CID]*
* 7527, 4170, 5616, 4171, 5617, 5854, 5855, 7523, 7092, 7524, 4491, 4492, 4493, 5618 in [1907r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1907-02-00be-cc36-cr-for-nsep-clause-35-11.docx) *[14 CIDs]*
* 4659, 5305, 6587, 6641, 6728, 5917 in [534r13](https://mentor.ieee.org/802.11/dcn/21/11-21-0534-13-00be-cr-ml-reconfiguration.docx) *[6 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Ming Gan Second: Subir Das

Discussion: No discussion

Result: Approved with unanimous consent.

* 1. Motion 289 (MAC-2)

Move to approve resolutions to the CIDs:

* 6123, 6128, 6133, 6124, 7588, 7706, 8292, 8293, 5708, 7809, 7810, 8318, 5153, 5237, 5518, 5734, 7558, 8322, 8323, 8324, 8327, 4193 in [1731r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1731-04-00be-cr-for-35-2-1-3-remaining-part1.docx) *[22 CIDs]*
* 6171, 8304, 7591, 5631, 5634, 5635, 6033, 5636, 5637, 5644, 5645, 5646, 5920, 4372, 8305, 8306, 7380, 6034, 6035, 5294, 5295, 5296, 8307, 8309, 7367, 7441, 4352, 4373, 6038, 7385, 5300, 5316, 5345, 6640, 7433, 6585, 7513, 8310, 8311 in [1978r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1978-01-00be-cr-for-11-3.docx) *[39 CIDs]*
* 5244, 5607, 6549, 4825, 7060, 5754, 6730, 5213, 6280, 4051, 5245, 5682, 6577, 4050, 5365, 6282, 8236, 6887, 5683, 5778, 5144, 6281, 6361, 6455, 8237, 8340, 4451, 5749, 5750, 5751, 5752, 5753, 4052, 5077, 4053, 5608, 8341, 5684, 4054, 5685 in [1898r7](https://mentor.ieee.org/802.11/dcn/21/11-21-1898-07-00be-cc36-resolution-to-cids-for-35-3-6-1-1.docx) *[38 CIDs]*
* 4758, 6351, 6343, 6344, 7466, 5222, 6068, 6346 in [287r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0287-09-00be-cc34-cr-emlsr-part2.docx) *[8 CIDs]*
* 4021, 4023, 4024, 4267, 5132, 5134, 5371, 5686, 5687, 6023, 6024, 6364, 6369, 6539, 6558, 6665, 6666, 6668, 6759, 6888, 7707, 8295 in [1894r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1894-01-00be-cr-for-cids-on-tid-to-link-mapping.docx) *[22 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Ming Gan Second: George Cherian

Discussion: No discussion

Result: Approved with unanimous consent.

* 1. Motion 290 (MAC-3)

Move to approve resolutions to the CIDs:

* 6497 in slide 2 of [1990r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1990-02-00be-cr-for-par-throughput-verification.pptx) *[1 CID]*
* 6608, 6713, 8308 in [1978r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1978-02-00be-cr-for-11-3.docx) *[3 CIDs]*
* 4812, 5888, 5889. 5890 in [1511r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1511-03-00be-cr-on-mscs-scs-clarifications.docx) *[4 CIDs]*
* 5320, 5681, 7841, 8265, 8266, 8267, 8268, 8269, 8270, 5372, 5895, 6026, 6709, 6760, 8177, 8182, 8298, 8299, 8300 in [1894r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1894-02-00be-cr-for-cids-on-tid-to-link-mapping.docx) [19 CIDs]

and incorporate the text changes into the latest TGbe draft.

Move: Mike Montemurro Second: George Cherian

Discussion: Some problem with the CID numbers in the documents. The document 1900 is changed to 1990 with no objection.

Result: Approved with unanimous consent.

* 1. Motion 291 (Joint-1)

Move to approve resolutions to the CIDs:

* 7880, 5959, 4181, 7909, 5555, 6685, 5556, 7910, 5206, 7791, 4167, 7861, 7862, 4168, 4169, 5111, 7364, 7091 in [1700r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1700-01-00be-cr-puncturing.docx) *[18 CIDs]*
* 4488, 5453, 5803, 5853, 7068, 7069, 7070, 7071, 7674, 7919, 7920, 7922, 7925, 8363 in [1942r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1942-02-00be-cc36-cr-for-14-cids-in-clause-35-5-2.docx) *[14 CIDs]*
* 5499, 5572, 6107, 7348, 7491, 7492, 5653, 5655, 7496, 7498, 7499 in [2038r0](https://mentor.ieee.org/802.11/dcn/21/11-21-2038-00-00be-proposed-resolution-for-tgbe-cc36-comments-on-clause-3.docx) *[11 CIDs]*
* 7072, 7075 in [2013r0](https://mentor.ieee.org/802.11/dcn/21/11-21-2013-00-00be-cr-for-35-5-3-part2.docx) *[2 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Zinan Lin Second: Ray Yang

Discussion: No discussion

Result: Approved with unanimous consent.

* 1. Motion 292 (PDT)

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

* + - PHY: [1583r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1583-02-00be-proposed-draft-text-additional-changes-to-sounding-fb.docx), [1987r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1987-01-00be-annex-z-example-for-small-rus-mrus.docx)

Move: Ross Jian Yu Second: Mahmoud Kamel

Discussion: No discussion

Result: Approved with unanimous consent.

* 1. Motion 293 (MAC-4)

Move to approve resolutions to the CIDs:

* 4305 in [1918r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1918-02-00be-resolution-to-cc36-cid-4305.docx) *[1 CID]*
* 4157, 4434, 6950, 4723 in [1929r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1929-04-00be-cc36-cr-for-some-cids-for-35-7-4-1-rtwt-channel-access.docx) *[4 CIDs]*
* 4160, 4706, 4937, 4939, 5075, 6336, 6545, 6546, 6744, 6969, 8216, 8217 in [1930r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1930-02-00be-cc36-cr-for-some-cids-for-35-7-4-2-rtwt-quiet-interval.docx) *[12 CIDs]*
* 6168, 7530, 5227, 7093, 5630, 7356, 5597, 5598, 6622, 7347, 7528, 5284, 7522 in [1911r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1911-02-00be-cc36-cr-realted-to-nsep-qmf.docx) *[13 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Subir Das Second: Chunyu Hu

Discussion: No discussion

Result: Approved with unanimous consent.

1. CR Submissions:
	1. [2014r0](https://mentor.ieee.org/802.11/dcn/21/11-21-2014-00-00be-cr-for-35-5-3-part3.docx) cr-for-35.5.3\_part3 Jinyoung Chun [11C]

Jinyoung goes through the document. Some discussion, comments and modifications to the resolutions. *– Out of time*

1. Recess at 11:00 ET