IEEE P802.11
Wireless LANs

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| TGbe May 2021 Meeting Minutes |
| Date: 2021-05-18 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Dennis Sundman | Ericsson |  |  |  |
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Abstract

This document contains the minutes for May 2021 IEEE 802.11 TGbe interim meeting (held electronically).

Revisions:

* Rev0: First revision of the document.

# Monday, May 10, MAC/PHY (19:00-21:00)

Split PHY and MAC.

* PHY: <https://mentor.ieee.org/802.11/dcn/21/11-21-0819-01-00be-minutes-802-11-be-phy-ad-hoc-may-2021-interim-session.docx>
* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-0873-00-00be-minutes-for-tgbe-mac-may-2021-interim-session.docx>

# Wednesday, May 12, 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 [602r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0602-09-00be-tgbe-may-2021-meeting-agenda.pptx).
2. IEEE 802 and 802.11 IPR policy and procedure
	1. **Patent Policy: Ways to inform IEEE:**
		* Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
		* Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
		* 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**.
	2. **The Chair goes through: Participation in IEEE 802 meetings, and Copyright Policy: Participants are advised that**
		* IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		* Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.
		* The Chair encourages the members to carefully read slides 12-14 in [602r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0602-09-00be-tgbe-may-2021-meeting-agenda.pptx).
	3. **The Chair goes through: Patent, Participation policies:** Please refer to slide 10 and 11 in [602r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0602-09-00be-tgbe-may-2021-meeting-agenda.pptx).
	4. **The chair goes through Attendance, Voting & Document Status:** Slide 4 in XXX.
3. Attendance reminder.
* Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
* Please record your attendance during the conference call by using the IMAT system:
	+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
1. Agenda. The Chair shows the agenda.
	1. Discussion:

C: 555r4 should be 555r6

A: Ok.

C: The latest version of editors’ report is r6

A: Ok.

* 1. Agenda is approved with unanimous consent.
1. **TGbe Editor Status Report:** [1935r5](https://mentor.ieee.org/802.11/dcn/19/11-19-1935-05-00be-tgbe-editor-s-report.ppt)–10’

Edward goes through the report.

Discussion:

C: How many CIDs are resolved and unresolved?

A: Resolved: 1052, Unresolved, ready for motion: 864.

C: I have a concern that the TXVECTOR for TRS, where TXVECTOR is not yet defined.

C: I think we should do a quick SP to determine if this is R1 or R2.

1. [706r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0706-02-00be-tgbe-coexistence-assessment-document.docx) TGbe Coexistence Assessment Document Sigurd Schelstraete SP-10’

Sigurd goes through the document, and particularly mentions the updates from previous revision. Some discussion and updates along the way.

1. **PDT/CR Submissions:**
	1. [573r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0573-04-00be-cr-for-cids-related-to-eht-operation-element.docx) CR for CIDs related to EHT Operation element Guogang Huang [8CID/3TBD-SP-10’]

Guogang goes through the CIDs.

**Straw poll**: Do you support to have one CCFS field of one octet for resolving the TBD in 573?

Discussion: None.

Result: Yes/No/Abstain/No-answer: 65/28/53/101.

**Straw Poll** in [573r6](https://mentor.ieee.org/802.11/dcn/21/11-21-0573-06-00be-cr-for-cids-related-to-eht-operation-element.docx): Do you agree to incorporate changes as instructed in [11/21-573r6](https://mentor.ieee.org/802.11/dcn/21/11-21-0573-06-00be-cr-for-cids-related-to-eht-operation-element.docx) to the TGbe draft? - 1729, 1806, 1904, 1941, 2247, 2488, 2546, 3246

Result: Yes/No/Abstain/No-answer: 60/34/56/104.

* 1. [663r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0663-02-00be-cr-for-eht-trs.docx) CR for EHT TRS Jason Y. Guo [4CID/9TBD-SP-10’]

Jason goes through his updates.

Discussion:

C: I have a hard time understanding why we need another feature to solicit DL EHT PPDU. In 802.11ax only the trigger frame is used.

C: I think there is a problem that this text cannot support 320 MHz.

* 1. [485r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0485-03-00be-clarifications-on-the-trigger-frame-design.pptx) Clarifications on the trigger frame design Xiaogang Chen [SP-10’]-Order Check

SP2: Do you agree that

* The CTS response to MU-RTS supports all the modes in 11ax and 320MHz non-HT duplicate transmission;
* The CTS response to MU-RTS supports transmitting on non-contiguous 20MHz subchannels;
* The CTS response to MU-RTS is transmitted on the 20MHz subchannel(s) that are overlapped with the large size RU indicated by its own RU allocation subfield;
* The CTS response to MU-RTS shall be transmitted including the primary 20MHz channel.
	+ Note: This SP is for R1.

Discussion: Yes.

Result: Straw poll supported with no objection from the group.

1. **Motions (during 2nd half of meeting):** [1982r19](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-19-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)
	1. **Move to approve TGbe minutes of teleconferences listed below:**

Teleconferences Jan-March: <https://mentor.ieee.org/802.11/dcn/21/11-21-0135-08-00be-jan-mar-tgbe-teleconference-minutes.docx>

March Electronic Plenary: <https://mentor.ieee.org/802.11/dcn/21/11-21-0436-02-00be-march-2021-meeting-minutes.docx>

Teleconferences March-May: <https://mentor.ieee.org/802.11/dcn/21/11-21-0539-06-00be-mar-may-tgbe-teleconference-minutes.docx>

Move: Dennis Sundman, Second: Mike Montemurro

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 175 (PHY-1)

Move to approve resolutions to the CIDs:

* 1279 in [489r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0489-03-00be-cr-on-cid-1279.docx) *[1 CIDs]*
* 1265, 2687, 2943, 1608, 1961, 2621, 1958, 1959, 2766, 2780, 1284, 2359, 1291, 2926, 1292, 3099, 2024, 2025, 2694, 1246, 1248, 1300, 1301, 1303, 1316, 1319, 1318, 1334, 1338, 1346 in [496r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0496-01-00be-proposed-resolution-to-clause-36-editorial-comments-part-1.docx) *[30 CIDs]*
* 1333, 2624, 2625, 2667, 2772, 2220, 3119, 1997, 1589, 2954, 2658, 2757, 1388, 2616, 2441, 2709, 3112, 3111, 2735, 2737, 2736, 1405, 2809, 1392, 2734, 2771, 2770, 1363, 1374, 1375, 1376, 1382, 1385, 1389, 1401, 1404, 2360, 1643, 2614 in [497r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0497-01-00be-proposed-resolution-to-clause-36-editorial-comments-part-2.docx) *[39 CIDs]*
* 1313, 1315, 1310, 1348, 1387, 1399, 2699, 2767, 2660, 2947, 3167, 2639, 3082, 3083, 2640, 3085, 2768, 2626, 2725, 2726, 3174, 3178, 2769, 1255, 3080, 1409, 3104, 2650, 2651, 2692, 2702, 2703 in [503r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0503-01-00be-proposed-resolution-to-clause-36-editorial-comments-part-3.docx) [32 CIDs]
* 1329, 2788, 3279 in [517r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0517-01-00be-cr-for-cid-1329-2788-3279.docx) [3 CIDs]

Move: Mike Montemurro Second: Bin Tian

Discussion: None

Result: Approved with unaminous consent.

* 1. Motion 176 (PHY-2)

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

* 2198, 2644, 2645 in [507r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0507-01-00be-eht-sig-cr-d03-part-7.doc) *[3 CIDs]*
* 1352, 1372, 1373, 1563, 1617, 1618, 1619, 1951, 2627, 2634, 2706, 2727, 2801, 2949, 3175 in [495r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0495-03-00be-u-sig-comment-resolution-part-4.docx) *[15 CIDs]*
* 1610, 1644, 1947, 2994, 2995, 2996, 2997, 2998, 2999, 3284 in [520r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0520-00-00be-d0-3-cr-for-construction-of-eht-data-field.doc) *[10 CIDs]*
* 2641, 2688, 1342, 2689, 3103, 3084 in [295r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0295-03-00be-cr-for-clause-36-3-11-5.docx) *[6 CIDs]*
* 1606 in [551r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0551-01-00be-cr-for-cid-1606.docx) *[1 CID]*

Move: Bin Tian Second: Ross Jian Yu

Discussion: None

Result: Approved with unanimous consent.

* 1. **Motion 177 (PHY-3)**

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

1280, 1312, 1314, 1555, 1594, 1945, 1946, 1965, 1966, 3100, 3101, 3196, 3197 in [556r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0556-02-00be-cr-phy-txrxprocedure-txblock.docx) *[13 CIDs]*

1411, 1953 in [542r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0542-01-00be-segment-parser-cr-on-p802-11be-d0-3-part2.docx) *[2 CIDs]*

2993, 1588 in [543r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0543-02-00be-segment-parser-cr-on-p802-11be-d0-3-part3.docx) *[2 CIDs]*

3045 in [567r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0567-01-00be-d0-3-cr-for-section-36-3-11-2.docx) *[1 CIDs]*

1241, 2617, 2618, 2619, 2620, 2677, 2678, 2679, 2680, 3039 in [540r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0540-02-00be-comment-resolutions-on-10-cids-related-to-clause-36-1-1.docx) *[10 CIDs]*

**Move: Mike Montemurro, Second: Bin Tian**

**Discussion: No discussion.**

**Result: Approved with unanimous consent.**

* 1. Motion 178 (PHY-4)

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

* 1541 in [584r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0584-00-00be-cr-to-36-2-5-effect-of-ch-bandwidth-parameter-on-ppdu-format.docx) *[1 CIDs]*
* 1995, 2844, 2845, 2846 in [585r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0585-01-00be-cr-to-36-5-parameters-for-eht-mcss.docx) *[4 CIDs]*
* 1386, 2733, 2807, 3051 in [591r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0591-00-00be-cr-for-eht-sig-cc-part-2.docx) *[4 CIDs]*
* 1954, 2765 in [634r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0634-02-00be-d0-3-cr-for-cid-1652-1954-and-2765.doc) *[2 CIDs]*
* 1242, 1281, 1282, 1283, 2690, 2691, 2944, 2945, 3163 in [629r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0629-01-00be-resolutions-for-comments-on-36-3-2-1-part-1.docx) *[9 CIDs]*

Move: Ross Jian Yu, Second: Jianhan Liu

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 179 (PHY-5)

Move to approve resolutions to the CIDs:

* 1972 in [678r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0678-00-00be-resolution-for-tbd-in-ldpc-tone-mapper.docx) *[1 CID]*
* 3239, 3077, 2146, 1260, 1520, 1521, 1955, 2016, 3162, 1240, 1522, 1523, 1274, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 3126, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 2777, 2778 in [635r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0635-03-00be-cr-d0-3-clause-36-2.docx) *[31 CIDs]*
* 1276, 1278, 1539, 1540, 2991, 3040 in [636r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0636-01-00be-cr-d0-3-clause-36-2-misc.docx) *[6 CIDs]*
* 1585, 1586, 1952, 2707, 2985 in [304r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0304-01-00be-cr-on-p802-11be-d0-3-preamble-puncturing-clause.doc) [5 CIDs]
* 1407, 1408, 1566, 1567, 1626, 1627, 1628, 2411, 2738, 2739, 3065, 3195, 3306, 3065, in [298r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0298-03-00be-cr-on-p802-11be-d0-3-clause-36-3-11-8-5-eht-sig.doc) [14 CIDs]

Move: Ross Jian, Second: Bin Tian

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 180 (PHY-6)

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

* 2646, 2647, 2652, 2653, 2657 in [566r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0566-01-00be-comment-resolutions-for-clause-36-3-12-3-coding-part-ii.docx) [5 CIDs]
* 1347, 1948 in [677r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0677-00-00be-cr-for-cid-1347-and-1948.docx) [2 CIDs]
* 1345 in [702r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0702-01-00be-cr-on-cid-1345.docx) [1 CID]
* 1321 in [726r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0726-01-00be-cc34-cid1321-rl-sig.docx) [1 CID]
* 1542, 1543, 1607, 1984, 2448, 2449, 2779, 3078, 3094, 3164 in [675r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0675-02-00be-resolutions-for-comments-on-36-3-2-1-part-2.docx) [10 CID]

Move: Edward Au, Second: Bin Tian

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 181 (PHY-7)

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

* 1286, 1546, 1547, 1944, 1960, 1985, 2018, 2019, 2781, 3095, 3267 in [731r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0731-01-00be-cr-for-36-3-2-2-20mhz-operating-sta.docx) [11 CIDs]
* 1243, 1285, 1287, 1288, 1289, 1544, 1545, 1548, 1549, 1550, 1551, 1552, 1986, 1987, 2017, 2020, 2021, 2022, 2023, 2604, 2782, 2783, 3096, 3097, 3268 in [744r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0744-03-00be-cr-for-cids-on-36-3-2-2-part-1.docx) [25 CIDs]
* 3074 in [477r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0477-02-00be-comment-resolution-for-non-ht-duplicate-transmission.docx) [1 CIDs]
* 1249, 1250, 1962, 3275 in [748r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0748-00-00be-cr-for-cid-1249-1250-1962-3275.doc) [4 CIDs]
* 1369, 1616, 1992, 2444, 2632, 2633, 2669, 2798, 2799, 3289 in [303r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0303-03-00be-cr-on-some-cids-in-p802-11be-d0-3-u-sig-sub-clause-36-3-11-7-2.doc) [10]

Move: Yan Xin, Second: Rui Cao

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 182 (MAC-1)

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

* 1046, 2151 in [281r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0281-04-00be-resolutions-for-cc34-cids-for-mlo-discovery-procedures-rnr.docx) *[2 CIDs]*
* 1436, 1440, 2102, 2103, 2332, 2346, 2915, 2918, 2935, 3324, 3400 in [288r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0288-04-00be-cc34-cr-emlsr-part3.docx) *[11 CIDs]*
* 1737 in [465r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0465-03-00be-cr-for-figure-10-1.docx) *[1 CID]*
* 2089, 1578, 2482, 2086, 2283, 2087, 2578, 2577, 2290, 1030, 2490, 1579, 2491, 2492, 1583, 2579 in [483r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0483-03-00be-tgbe-cc34-security-comment-resolutions.docx) *[16 CIDs]*
* 2294, 1858, 1859, 1034, 2149, 1861, 2831, 1833, 1860, 2586, 2183, 1799, 1035, 2451, 1036, 1050, 1778, 2165, 1864, 1919, 3315, 1184, 1185, 2866, 3335, 2309, 2964, 2472, 2296, 2868, 3021, 3212, 3369, 3370, 1005, 1896, 3016, 1862, 2167 in [254r6](https://mentor.ieee.org/802.11/dcn/21/11-21-0254-06-00be-cc34-resolution-for-cids-related-to-ml-ie-part-2.docx) *[39 CIDs]*

Move: Mike Montemurro, Second: George Cherian

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 183 (MAC-2)

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

* 2159, 2161, 3018, 1908, 3019, 1906, 1907, 2436, 1776, 3127 in [506r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0506-03-00be-cc34-resolution-for-cids-related-to-ml-ie-part-3.docx) *[10 CIDs]*
* 1691 1067, 1068 1069 1070 1201 1202 1071 1231 1498 1692 2130 2300 2599 3030 3225 2131 3240, 3319 in [621r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0621-03-00be-tbd-and-cr-for-bss-parameter-critical-update-procedure.docx) *[19 CIDs]*
* 2160, 2857, 1732, 1834, 2164, 3247, 1905, 2587 in [301r5](https://mentor.ieee.org/802.11/dcn/21/11-21-0301-05-00be-crs-for-d0-3-ml-element-type-cids.docx) *[8 CIDs]*
* 1008, 1119, 1127, 1463, 1467, 1469, 1470, 1471, 1472, 1488, 1504, 1505, 1705, 1706, 1707, 1708, 1734, 1735, 1835, 2304, 2305, 2306, 2565, 2569, 2570, 2571, 2821, 2893, 2902, 3038 in [511r5](https://mentor.ieee.org/802.11/dcn/21/11-21-0511-05-00be-cr-for-claues-9-4-1-9-9-4-1-11-9-6-34-and-15-10-on-nsep.docx) [30 CIDs]
* 1773, 2603, 2742, 2745, 2916, 2917, 2937, 3206, 2143 in [319r7](https://mentor.ieee.org/802.11/dcn/21/11-21-0319-07-00be-cc34-cr-emlsr-part4.docx) [9 CIDs]

Move: Rojan Chitrakar, Second: Subir Das

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. **Motion 184 (MAC-3)**

Move to approve resolutions to the CIDs:

* 1649, 2439, 1496, 1680, 1788, 2311, 2906, 1790, 2312, 2427, 2907, 2908, 3027, 3377, 1062, 1682, 1791, 1880, 2099, 2152, 2320, 2340, 2429, 2851, 3028, 3378, 1648, in [282r6](https://mentor.ieee.org/802.11/dcn/21/11-21-0282-06-00be-resolutions-for-cc34-cids-for-mlo-tid-to-link-mapping-subclause.docx) [27 CIDs]
* 1476, 3334, 2520, 2372, 2852, 1153, 3424, 1416, 2415, 1495, 2200, 2201, 2202, 2203, 2204, 2521, 2752, 2856, 2205, 1717, 3425, 2374, 3022, 3213, 3214, 3336, 2352, 2474, 2417, 1043, 1745 in [759r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0759-00-00be-proposed-resolution-to-clause-35-editorial-comments-part-1.docx) [31 CIDs]
* 2248, 2542, 2828, 2039, 2855, 2375, 2829, 1419, 2249, 2376, 3227, 2126, 2063, 3024, 2753, 1442, 2042, 2043, 1746, 2067, 3250, 1052, 1786, 1787, 2062, 2425, 2426, 3218, 2044, 2378, 1223, 1224, 1225, 3238, 2250, 2478, 2068, 3375, 3376, 2045, 1226 in [775r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0775-00-00be-proposed-resolution-to-clause-35-editorial-comments-part-2.docx) [41 CIDs]
* 1078, 1475, 2981 in [222r15](https://mentor.ieee.org/802.11/dcn/21/11-21-0222-15-00be-pdt-mac-common-info-ml-element.docx) [3 CIDs]

Move: Ming Gan, Second: Stephen Palm

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. **Motion 185 (Joint)**

Move to approve resolutions to the CIDs:

* 1003, 1595, 1596, 1597, 1598, 1600, 1601, 1940, 2011, 1602 in [682r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0682-00-00be-comment-resolution-on-trigger-frame.docx) *[10 CIDs]*

Move: Edward Au, Second: Bin Tian

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. **Motion 186**

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

* Joint: [494r6](https://mentor.ieee.org/802.11/dcn/21/11-21-0494-06-00be-mac-pdt-320mhz-indication-for-non-ht-duplicated-frames.docx).
* MAC: [221r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0221-09-00be-pdt-mac-mlo-nstr-blindness-tbd.docx), [019r10](https://mentor.ieee.org/802.11/dcn/21/11-21-0019-10-00be-pdt-mlo-tid-to-link-mapping.docx), [1407r20](https://mentor.ieee.org/802.11/dcn/20/11-20-1407-20-00be-pdt-mac-mlo-soft-ap-mld-operation.docx), [614r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0614-00-00be-editorial-fixes-to-subclauses-35-7-and-35-14.docx), [267r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0267-03-00be-pdt-mlo-short-frame-in-blindness-issue.docx)
* PHY: [157r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0157-04-00be-pdt-effect-of-ch-bandwidth-parameter-on-ppdu-format.docx), [528r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0528-00-00be-pdt-phy-clause-3-2-definitions-updates.docx), [639r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0639-04-00be-proposed-resolution-of-remaining-tbds-in-36-3-19-4-4-and-36-3-20-3.docx), [649r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0649-02-00be-pdt-on-phase-rotation-for-320-mhz-pre-eht-transmission-and-non-ht-duplicate-transmission.docx), [659r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0659-00-00be-resolution-for-tbd-in-ofdm-modulation.docx) , [679r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0679-00-00be-pdt-for-phy-mib-variable-related-to-242ru-support-in-annex-c.docx), [653r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0653-01-00be-solutions-for-tbds-in-packet-extension.docx), [685r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0685-01-00be-pdt-eht-ppe-thresholds-field-update.docx), [686r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0686-02-00be-pdt-nominal-packet-padding-values-selection-rules-update-tbd.docx), [692r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0692-02-00be-pdt-phy-fix-tbds-in-36-3-2-2.docx), [701r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0701-00-00be-resolution-for-tbd-in-36-3-12-9-eht-stf.docx), [719r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0719-00-00be-pdt-update-phy-subclause-36-2-6-5.doc), [721r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0721-00-00be-pdt-resolution-for-tbd-in-36-3-16-transmit-requirement.docx), [728r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0728-03-00be-tbds-in-36-4.docx), [745r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0745-00-00be-proposed-resolutions-for-tbds-in-annex-b.docx), [680r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0680-02-00be-text-change-for-usage-of-1x-eht-ltf.docx)

Move: Edward Au, Second: Jianhan Liu

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. **Motion 187**

Move to accept changes to the TGbe draft as specified in [572r5](https://mentor.ieee.org/802.11/dcn/21/11-21-0572-05-00be-remaining-tbds-in-tgbe-d0-4.docx) with the following tags:

* #MAC Fix 1, #MAC Fix 2, #MAC Fix 3, #MAC Fix 4

Move: George Cherian, Second: Edward Au

Discussion:

C: There is an r8 on the server.

A: That is a working document, no changes to the proposed tags.

Result: Approved with unanimous consent.

1. **P802.11be Status of TBDs:**
	1. [572r8](https://mentor.ieee.org/802.11/dcn/21/11-21-0572-08-00be-remaining-tbds-in-tgbe-d0-4.docx) Remaining TBDs in TGbe D0.4 Alfred Asterjadhi [15’]

Alfred goes through the document.

1. AoB: No time.
2. Recess at 11:00 ET.

# Thursday, May 13, MAC/PHY (09:00-11:00)

Split PHY and MAC.

* PHY: <https://mentor.ieee.org/802.11/dcn/21/11-21-0819-01-00be-minutes-802-11-be-phy-ad-hoc-may-2021-interim-session.docx>
* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-0873-00-00be-minutes-for-tgbe-mac-may-2021-interim-session.docx>

# Monday, May 17, 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 [602r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0602-09-00be-tgbe-may-2021-meeting-agenda.pptx).
2. IEEE 802 and 802.11 IPR policy and procedure
	1. **Patent Policy: Ways to inform IEEE:**
		1. Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
		2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
		3. 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**.
	2. **The Chair goes through: Participation in IEEE 802 meetings, and Copyright Policy: Participants are advised that**
		1. IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		2. Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.
		3. The Chair encourages the members to carefully read slides 12-14 in [602r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0602-09-00be-tgbe-may-2021-meeting-agenda.pptx).
	3. **The Chair goes through: Patent, Participation policies:** Please refer to slide 10 and 11 in [602r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0602-09-00be-tgbe-may-2021-meeting-agenda.pptx).
	4. **The chair goes through Attendance, Voting & Document Status:** Slide 4 in [602r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0602-09-00be-tgbe-may-2021-meeting-agenda.pptx).
3. Attendance reminder.
* Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
* Please record your attendance during the conference call by using the IMAT system:
	+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
1. Announcements: No announcements.
2. **Queue’s status for pending CRs/PDTs:** 1 in Joint, ~40 in MAC, 0 in PHY.
	1. Target rejecting unresolved CIDs out of this session. But group may continue discussing pending submissions, until the next batch of CIDs is out. Once next batch of CIDs is out (in 40-45 days) then groups to gradually transition to CRs.
3. Agenda. The Chair shows the agenda and asks for questions or suggestions.

Discussion:
C: You said that some CIDs will be rejected. What do you mean?

A: Something along the lines “rejecting in order to proceed with the next draft”. But the technical content will still be discussed.

C: I’m concerned that this rejecting of comments are against procedures.

A: They can be resubmitted. My intention is that we can deal with new CIDs along with the old ones.

C: Is the idea to reject all of the unresolved CIDs?

A: Yes.

C: I think we need more offline discussion for several CIDs.

A: Noted.

C: Regarding 301, we have not reached consensus. So I believe we can go immediately to the motion.

A: Ok.

C: We didn’t finish the MAC queue.

A: Correct.

C: I don’t think we can reject unresolved CIDs.

Objection to approve the agenda.

**Motion**

This is a procedural motion.

Move to approve the agenda 602r9?

Move: Edward Au, Second: Laurent Cariou

Result: Y/N/A/No-answer: 85/15/15/103

Motion approved

1. **PDT/CR Submissions-Joint:**
	1. [573r8](https://mentor.ieee.org/802.11/dcn/21/11-21-0573-08-00be-cr-for-cids-related-to-eht-operation-element.docx) CR for CIDs related to EHT Operation element Guogang Huang [8CID/3TBD-M188-10’]

Guogang goes through the document. A couple of typographical updates.

Discussion: No discussion.

**Motion 188**

Move to approve resolutions to the CIDs:

* 1729, 1806, 2488, 1904, 1941, 2247, 2546, 3246 in [11/21-573r8](https://mentor.ieee.org/802.11/dcn/21/11-21-0573-08-00be-cr-for-cids-related-to-eht-operation-element.docx) *[8 CIDs]*

Move: Guogang Huang, Second: Ross Jian Yi

Discussion: No discussion.

Preliminary Result: Y/N/A/No-answer: 82/30/46/71 🡪 Preliminary fails

Result: Y/N/A: 75/30/46 🡪 Fails

* 1. [663r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0663-02-00be-cr-for-eht-trs.docx) CR for EHT TRS Jason Y. Guo [3CID/9TBD-M189-10’]

Jason goes through the document and highlights recent updates.

Discussion:

C: We fundamentally have trouble with this solution to release 1. We already have trigger frame, which everyone has and is supported.

A: I think it’s better we extend this TRS control subfield (from HE to EHT) as well.

C: I have trouble with this UL MCS field. With EHT we support MCS 15. So I think we need more discussion regarding the TRS control field.

A: Is it sufficient if I just remove the texts related to UL MCS.

C: Protocol-wise this works. But implementionally I’m not sure it works.

C: You don’t disclose how to set the disregard bit. What is your thought about that.

**Motion 189**

Move to approve resolutions to the CIDs:

* 1650, 2003, 2012 in [11/21-663r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0663-04-00be-cr-for-eht-trs.docx) *[3 CIDs]*

Move: Jason Guo, Second: Ross Jian Yu

Discussion: None.

Preliminary Result: Y/N/A/No-answer: 86/34/44/76 🡪 Preliminary fails

Result: Y/N/A: 80/33/44 🡪 Fails

1. **CR/PDT Submissions-MAC:**
	1. [612r5](https://mentor.ieee.org/802.11/dcn/21/11-21-0612-05-00be-cc34-cr-tim-indication.docx) CC34 CR TIM Indication Minyoung Park [12 CIDs/1 TBD-M190-5’]

Minyoung goes through the document, particularly mentioning recent updates.

Discussion:

C: Last time I commented on the MMPDU part. We still have a concern about that.

A: Those details are not yet fixed so we can still address your concern.

**Motion 190**

Move to approve resolutions to the CIDs:

* 1432, 1697, 2135, 2136, 2153, 2302, 2341, 2342, 3149, 3256, 3322, 3387 in [11/21-612r5](https://mentor.ieee.org/802.11/dcn/21/11-21-0612-05-00be-cc34-cr-tim-indication.docx) *[12 CIDs]*

Move: Minyoung Park, Second: Rojan Chitrakar

Discussion: None.

Preliminary Result: Y/N/A/No-answer: 103/17/31/92 🡪 Preliminary passes

Result: Y/N/A: 99/17/30 🡪 Passes

* 1. [558r12](https://mentor.ieee.org/802.11/dcn/21/11-21-0558-12-00be-cr-35-3-13-3-nstr-operation.docx) CR 35.3.13.3 NSTR operation Matthew Fischer [23 CIDs/2 TBD-M191-5’]

Matthew goes through the document and points out that the document has gone through a number of changes. The changes particularly address the NSTR interference.

Discussion:

C: Why did you remove the part of the group cast?

A: It’s already covered by the generic language.

**Motion 191**

Move to approve resolutions to the CIDs:

* 1176, 1177, 1178, 1434, 1700, 1701, 2100, 2101, 2194, 2209, 2711, 2980, 3033, 3034, 3035, 3036, 3140, 3146, 3147, 3389, 3390, 3391, 3428 in [11/21-558r12](https://mentor.ieee.org/802.11/dcn/21/11-21-0558-12-00be-cr-35-3-13-3-nstr-operation.docx) *[23 CIDs]*
* Note: The last paragraph that was stricken out- undo the change (i.e., keep it)

Move: George Cherian, Second: Matthew Fischer

Discussion: No discussion.

Preliminary Result: Y/N/A/No-answer: 91/20/42/100 🡪 Preliminary passes

Result: Y/N/A: 87/20/40 🡪 Passes

1. Motions
	1. **Motion 197**

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

* + - MAC: [335r12](https://mentor.ieee.org/802.11/dcn/21/11-21-0335-12-00be-pdt-mac-mlo-emlmr-tbds.docx), [268r8](https://mentor.ieee.org/802.11/dcn/21/11-21-0268-08-00be-pdt-channel-access-triggered-su.docx), [160r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0160-01-00be-pdt-mac-mlo-emlsr-tbds.docx)
		- PHY: [755r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0755-04-00be-pdt-clarification-extra-ltf-phy-capability.docx), [778r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0778-02-00be-proposed-changes-for-puncturing.docx)

Move: Laurent Cariou, Second: Matthew Fischer

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. **Motion 198**

Move to approve resolutions to the CIDs:

* + - 1244, 1254 in [754r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0754-01-00be-cr-for-cids-1244-1254.docx) [2 CID]
		- 3165 in [786r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0786-03-00be-cr-for-cid-3165.docx) [1 CID]
		- 2215 in [683r5](https://mentor.ieee.org/802.11/dcn/21/11-21-0683-05-00be-restricted-twt-quiet-interval-tbd-cr.docx) [1 CID]
		- 1709, 2171 in [555r7](https://mentor.ieee.org/802.11/dcn/21/11-21-0555-07-00be-mac-pdt-nsep-tbds.docx) [2 CID]

Move: Yan Xin, Second: Chunyu Hu

Discussion: None.

Result: Approved with unanimous consent.

* 1. **Motion 199**

Move to accept document [11-21/706r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0706-03-00be-tgbe-coexistence-assessment-document.docx) as the TGbe Coexistence Assessment document

Move: Sigurd Schelstraete, Second: Stephen McCann

Discussion: No discussion.

Preliminary result: Y/N/A/No-answer: 128/0/22/108 🡪 Preliminary passes

Result: Y/N/A: 123/0/21 🡪 Passes

* 1. **Motion 200**

Move to accept changes to the TGbe draft as specified in [572r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0572-09-00be-remaining-tbds-in-tgbe-d0-4.docx) with the following tags:

* + - #MAC Fix 5, #MAC Fix 6, #MAC Fix 7, #MAC Fix 8, #MAC Fix 9,

Move: Ming Gan, Second: Rojan Chitrakar

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. **Motion 201**

Move to accept changes to the TGbe draft as specified in [572r11](https://mentor.ieee.org/802.11/dcn/21/11-21-0572-11-00be-remaining-tbds-in-tgbe-d0-4.docx) with the following tags:

* + - #MAC Fix 10, #MAC Fix 11, #MAC Fix 12, #MAC Fix 13, #MAC Fix 14, #MAC Fix 15, #MAC Fix 16, #MAC Fix 17, #MAC Fix 18.
* TGbe editor: If another motion ran today solves the same TBD then that resolution has precedence.

Move: Rojan Chitrakar Second: Edward Au.

Discussion:

C: These TBDs are there because of some features not fixed yet. It seems to me we are not neutral here.

A: I try to remove explicit TBDs that are remaining (i.e., that can be removed without complications). I am not sure it’s the best way.

Some further minor updates to the document.

Result: Approved with unanimous consent.

* 1. **Motion 203**

Move to instruct the TGbe Editor to create IEEE802.11be D1.0 draft after incorporating the approved changes to IEEE802.11be D0.4, as specified in Motions 166 to 187 (motions with numerical values), in Motions during the May 2021 Electronic Interim

Move: Laurent Cariou, Second: Bin Tian

Discussion: Some minor clarifications of the motion text.

Preliminary result: Y/N/A/No-answer: 136/7/17/103 🡪 Preliminary passes

Result: Y/N/A: 133/8/17 🡪 Passes

* 1. WG Motion

Move to authorize the TGbe chair to request a 30-day Working Group Technical Letter Ballot asking the question “Understanding that development of features for P802.11be is ongoing, are the features that are defined in P802.11be D1.0 complete?”

Note: This is not a ballot to forward to IEEE SA and does not affect voting rights

Moved by Alfred Asterjadhi on behalf of TGbe

TGbe: Moved by Stephen Palm, Seconded by Subir Das

Preliminary TGbe vote: Y/N/A/No-answer: 134/12/16/97 🡪 Preliminary passes

TGbe vone: Y/N/A: 129/12/16 🡪 Passes

Moved:, Seconded:, Result:

1. Adjourned at 11:02.