IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TGbn March April May 2025 Teleconferences Minutes | | | | |
| Date: 2025-05-08 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yusuke Asai | NTT |  |  | yusuke.asai@ntt.com |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This document contains the minutes for TGbn March 2025 to May 2025 teleconferences.

Revision history:

* Rev0: First version of the document.
* Rev1: Add the links of the PHY/MAC ad-hoc minutes.

Abbreviations:

* C: Comment.
* A: Answer.

# 1st Conf. Call: March 24th, Monday (19:00-21:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-00-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0519-00-00bn-minutes-for-802-11-bn-phy-ad-hoc-teleconference-in-march-to-may.docx>

# 2nd Conf. Call: March 27th, Thursday (10:00-12:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-01-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: (cancelled)

# 3rd Conf. Call: March 31st, Monday (19:00-21:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-01-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0519-01-00bn-minutes-for-802-11-bn-phy-ad-hoc-teleconference-in-march-to-may.docx>

# 4th Conf. Call: April 3rd, Thursday (10:00-12:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-02-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0519-02-00bn-minutes-for-802-11-bn-phy-ad-hoc-teleconference-in-march-to-may.docx>

# 5th Conf. Call: April 7th, Monday (19:00-21:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-02-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0519-03-00bn-minutes-for-802-11-bn-phy-ad-hoc-teleconference-in-march-to-may.docx>

# 6th Conf. Call: April 10th, Thursday (10:00-12:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-03-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0519-03-00bn-minutes-for-802-11-bn-phy-ad-hoc-teleconference-in-march-to-may.docx>

# 7th Conf. Call: April 14th, Monday (19:00-21:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-04-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0519-03-00bn-minutes-for-802-11-bn-phy-ad-hoc-teleconference-in-march-to-may.docx>

# 8th Conf. Call: April 17th, Thursday (10:00-12:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-04-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: (cancelled)

# 9th Conf. Call: April 21st, Monday (19:00-21:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-04-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0519-04-00bn-minutes-for-802-11-bn-phy-ad-hoc-teleconference-in-march-to-may.docx>

# 10th Conf. Call: April 24th, Thursday (10:00-12:00 ET) - Joint

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + Patent Policy: Ways to inform IEEE:
  + Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
  + Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
  + Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair.

Nobody spoke/wrote up.

* + Copyright Policy: Participants are advised that
  + IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
  + Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.
  + Patent, Participation, Copyright and policy related subclause: Please refer to the agenda document([11-25/0207r9](https://mentor.ieee.org/802.11/dcn/25/11-25-0207-09-00bn-jan-mar-tgbn-teleconference-agenda.docx)).

Copyright Policy was presented.

* Attendance reminder
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please record your attendance during the conference call by using the IMAT system:
    - 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802 Wireless Interim/Plenary Session” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbn conference call that you are attending.
    - If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to:  
      Yusuke Asai ([yusuke.asai@ntt.com](mailto:yusuke.asai@ntt.com)) & Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
  + Please ensure that the following information is listed correctly when joining the call:
  + "[voter status] First Name Last Name (Affiliation)"
* Agenda
  + Chair reviews proposed agenda found in [11-25/0504r13](https://mentor.ieee.org/802.11/dcn/25/11-25-0504-13-00bn-mar-may-tgbn-teleconference-agenda.docx).
  + Discussion:

C: (editorial) The title of [11-25/442r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0442-02-00bn-cc50-cr-on-trigger-frame-part-1.docx) is not part 2 but part 1.

* + The agenda approved with unanimous consent.
* Announcements
  + July F2F will be held on Helsinki, Finland.
* TGbn Editor’s Report ([11-25/301r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0301-01-00bn-tgbn-editor-s-report.ppt)) Ross J. Yu (Huawei Technologies)
  + D0.1 was available on 2025-02-07.
  + D0.2 was available on 2025-03-26.
  + CC50 comments on D0.1: [11-25/0296r18](https://mentor.ieee.org/802.11/dcn/25/11-25-0296-18-00bn-ieee-802-11bn-cc50-comments-on-d0-1.xlsx).
  + Baseline alignment: REVme/D7.0, TGbh/D2.0, TGbe/D5.0, TGbk/D1.0, TGbf/D3.0, TGbi/D1.1
  + 484 comments are ready for motions.
  + TGbn editor reminded the comment resolution process.

C: The baseline drafts seemed to be old and should be checked.

C: All the current TG draft information can be found on the 802.11 WG website.

<https://www.ieee802.org/11/Reports/802.11_Timelines.htm>

* PDT/CR Submissions
  + [11-25/0681r4](https://mentor.ieee.org/802.11/dcn/25/11-25-0681-04-00bn-pdt-crs-joint-sounding-procedure.docx): PDT-CRs-Joint-sounding-procedure You-Wei Chen [130C]

C: If you put accept I, you cannot put instructions to the editor because the proposed change explicitly contains the instruction to the editor. Please remove any instructions to the editor if you accept the comment.

A: I will remove the instructions in the proposed resolutions of accept.

C: You are estimating the “channel state” and not estimating the “channel state information”. The thing you send back is channel state information, not channel state.

C: We put the something in italics the first time it’s used. So, the first “UHR Co-BF beamformer” and the first “Full bandwidth MU feedback” should be italic.

(Chair asked the presenter to review the document and obtain some feedback in terms of consistency.)

C: What is Co-BF invite frame? It would be better to refer to a real frame name.

C: In three or more station info fields, that is because the first two info fields are not addressed to the associated stations and actually addressing the other AP, the responding. Is that correct?

A: Yes.

C: Do we agree on the maximum number of stations?

A: I think that limit of four might be the total number of STAs in the transmission. I am not sure if we yet have a limit on the number of STAs in the sounding.

C: “An initiating AP shall transmit …” is not clear. I would recommend we prefix this by something like in order to initiate a UHR CoBF sounding sequence and then continue with that sentence.

A: It might get initiated with another sort of frame exchange before this happens.

C: It just needs a condition. Does it happen one time in the universe or every single microsecond? It is very unclear.

A: In order to perform a UHR CoBF, a sounding response or something like that happens. So, “perform” might be better.

C: I have a question about setting a limit on the number of STAs in the sounding phase. Why is this? And is this both BSS and across BSS or is it just for cross-BSS?

A: This is for CoBF for UHR APs.

C: I heard the question that “do we have a limit on the maximum number?”, and the answer was no. Because four is for the transmission, not for the sounding. Why do we need to set a maximum on the number of sounded stations?

C: What initiates the coordinated beamforming sounding? Do we need an invite?

A: I think we need invite before the CoBF and joint sounding based on the passed motion.

C: I think the motion 306 will apply for all CoBF sounding sequences.

A: This applies to all kinds of sounding, not just joint sounding.

C: You’re saying that it comprises each TB sounding sequence in addition to the CoBF sounding cross BSS sounding sequence. On the other hand, you’re saying that each TB sounding sequence and cross BSS sounding, where we can go in two different TXOPs. I feel like some level of contradiction between these statements.

A: I think we did not mention TXOP in this paragraph.

A: The sounding sequence itself consists of both, but it can be split into multiple TXOPs. I think in that high level statement. I don’t think there is a contradiction. The sequence does need to have both in-BSS and OBSS sounding components.

A: We need more offline discussions.

C: Does it really need to consist of the in-BSS sounding section as well?

A: Whether it needs to consist of in-BSS component or not, we need to think about it.

C: If we don’t have an in-BSS component in CoBF sort of sound sequence, that will be having very strange. Because this whole section is written with that kind of assumption that there are both in- BSS and OBSS sounding components in a Co-BF sounding sequence. I think there will be a lot of implications for removing in-BSS sounding from part of this whole sounding sequence. I do think at a higher-level philosophical level that the in-BSS sounding is needed, and it is a part of the sequence. Whether that happens in multiple TXOPs or not, is completely a different story, which is captured by the later paragraph. So, I think if things are fine as they are.

(Chair encouraged the presenter to use the reflector for the follow-up discussion so that all the members are participating in it.)

C: You are allowing the in-BSS and cross-BSS sounding to go in two different TXOPs, but I don’t see any discussion regarding the cross-BSS sounding in the first BSS and the cross BSS sounding in the second BSs. Are they allowed to go on the same TXOP? In addition, are the in-BSS and the cross-BSS sounding allowed to go in the same TXOP?

A: I think there are some ongoing discussions to discuss about adding some ICF/ICR frame in the sounding.

C: We can do the discussion on ICF/ICR inclusion or exclusion. But it is an orthogonal topic to this one. The entire sounding sequence takes place in the single TXOP. This is how the sequence is shown in the original motion. So, the idea of splitting that sounding sequence over multiple TXOPs was the modification to the original case.

C: We didn’t say anything with this single TXOP. If you want to do a single TXOP, there is a way they can do without any specification, for example using Co-TDMA or something. If somebody wants to propose something else, they can propose.

C: I don’t know if that is the symbol between the cross-BSS and in-BSS, I don’t think we did have this in the figure in the motion.

C: I think there were a lot of things which were TBD, even said additional MAC frames and all those things are TBD. So, it was never an intent to say that this entire sequence must finish in a single TXOP. So, I think in the most general case, the author is trying to introduce that symbol to allow for breaking it up into multiple TXOPs. I think that captures the original intent of the motion which run by me.

C: I don’t think this is the understanding of everyone here. I think there is confusion in the group whether this was intent of not.

(The chair asked the presenter to add the action item to resolve the topic regarding single or multiple TXOPs.)

C: The term of sounding “sequence” implies everything should be continuously happened one after another. So, we should consider other terminology.

A: I note it.

C: If the intention is flexibility and allowing both cases single TXOP or multiple TXOP, then why is the text only highlighting the case for multiple TXOPs?

C: The figure 37-1 previously and in-BSS sounding loke VHT sounding first and then UHR NDP sounding subsequently. The order has changed.

A: There are some emails exchange and discussion among the commenter in the reflector.

C: If the figure has changed, it needs the instruction.

C: Regarding the sounding invite and the sounding response, since we are explicitly calling this out, we need also to mention that in some cases we will need ICF/ICR exchange before sending the NDP as well.

C: Why we need this definition (CID#2467)?

A: It should move to section 9. We need more discussion.

C: Do we really need to call out explicitly how to set the NAV or the duration in the spec text or shall it be left for the implementation?

C: It looks fine to me to clarify the reasoning because the CoBF sounding is computation and energy heavy operation, which consumes a lot of power. If the NAV is not set correctly, if the responding APs and AP is interfered with some other transmission, the whole sounding sequence could fail. Then it is a waste of the airtime. If we look at the whole sequence, it needs all components to work successfully. That’s why some protection will be beneficial because it is the first time we have two BSSs to operate together. That is the starting point.

C: My question was slightly different. I am asking that “do we really need to have a rule on the spec or just to give it for implementation?”

C: We prefer some guidelines.

* Motions (The list before the teleconference was [11-25/0014r15](https://mentor.ieee.org/802.11/dcn/25/11-25-0014-15-00bn-tgbn-motions-list-part-2.pptx) and then updated as [11-25/0014r16](https://mentor.ieee.org/802.11/dcn/25/11-25-0014-16-00bn-tgbn-motions-list-part-2.pptx).)
  + **Motion 380(PHY)**

**Move to approve resolutions to the CIDs (41C):**

* + - *1366, 1367, 2285 in 11-5/0505r0\* [3 CIDs]*
    - *5, 6, 8, 321, 937, 938, 939, 940, 1163 in* [*11-25/0441r2*](https://mentor.ieee.org/802.11/dcn/25/11-25-0441-02-00bn-cc50-cr-on-u-sig-part-1.docx) *[9 CIDs]*
    - *2728, 3728, 2038, 2231, 288, 289, 456, 1070, 1071, 1102, 1368, 2039, 2040, 2232, 2550, 2729, 3291, 3529, 290, 2041, 2233, 2551, 2552, 3292, 615, 2042, 2703, 2730, 2731 in* [*11-25/0509r2*](https://mentor.ieee.org/802.11/dcn/25/11-25-0509-02-00bn-cc50-cid-resolutions-for-38-1.docx) *[29 CIDs]*

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

Move: Alice Chen Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

*Note: These are comment resolution documents that obtained ≥ 75% support during the straw poll phase of the PHY ad-hoc teleconference of March 24, 2025.*

*(\* Secretary’s Note: the DCN of 11-5/0505r0 is a typo of* [*11-25/0505r0*](https://mentor.ieee.org/802.11/dcn/25/11-25-0505-00-00bn-cc50-crs-on-1366-1367-2285.docx)*.)*

* + **(Motion 381(PHY)**

**Move to approve resolutions to the CIDs (70C):**

* + - 72, 212, 609, 907, 957, 1193, 1519, 1933, 1938, 2337, 2785, 3553, 3554 in [11-25/0546r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0546-01-00bn-crs-for-subclause-38-3-22.docx) *[13 CIDs]*
    - 110, 276, 397, 398, 461, 462, 472, 712, 716, 854, 860, 1032, 1034, 1328, 1672, 1673, 1674 in [11-25/0506r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0506-01-00bn-cc50-editorial-comments-part-1.docx) *[17 CIDs]*
    - 1155 in [11-25/0518r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0518-01-00bn-cc50-cr-for-38-3-15-2-2-cyclic-shift-for-uhr-modulated-fields.docx) & 595, 1172, 1590, 1748, 2304 in [11-25/0520r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0520-01-00bn-cc50-cr-for-38-3-15-10-4-csd-index-assignment-for-dru-uhr-stf-transmission.docx) *[6 CIDs]*
    - 48, 1621, 49, 50, 51, 2178, 3237, 211, 307, 2179, 575, 2269, 3533, 3555 in [11-25/0523r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0523-00-00bn-cc50-comment-resolutions-for-38-3-7-uhr-ppdu-formats.docx) *[14 CIDs]*
    - 310, 2286, 311 in [11-25/0548r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0548-00-00bn-cc50-cr-for-38-3-15-3-and-38-3-15-4.docx) *[3 CIDs]*
    - 312, 2773, 935\*, 2753, 584, 1090, 1346, 3472, 936, 2287, 2755, 3473, 3561 in [11-25/0549r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0549-00-00bn-cc50-cr-for-38-3-15-5-and-38-3-15-6.docx) *[13 CIDs]*
    - 305, 1122, 1758, 2257 in [11-25/0522r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0522-00-00bn-cc50-cr-for-38-3-3-ru-and-mru-restrictions-for-20-mhz-operation.docx) *[4 CIDs]*

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

Move: Eunsung Park Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

*Note: These are comment resolution documents that obtained ≥ 75% support during the straw poll phase of the PHY ad-hoc teleconference of March 31, 2025.*

*\*Typo identified by TGbn officers. Was 395 and was supposed to be 935. Fixed. Confirmed.*

* + **Motion 382 (PHY)**

**Move to approve resolutions to the CIDs (50C):**

* + - 31, 32, 33, 117, 180, 345, 346, 347, 766, 950, 1180, 1181, 1182, 1356, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1644, 1761, 2072, 2073, 2074, 2314, 2315, 2318, 2320, 2321, 2702, 2781, 2782, 2783, 3545, 3546, 3558 in [11-25/0564r3](https://mentor.ieee.org/802.11/dcn/25/11-25-0564-03-00bn-cr-phy-cc50-cids-in-subclause-38-3-15-12-elr-sig-38-3-16-1-coding.docx) [39 CIDs]
    - 1099, 1192, 1655, 2335, 3312, 3313 in [11-25/0584r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0584-01-00bn-cr-phy-cc50-cids-in-subclause-38-3-19-transmit-requirements-for-ppdus-sent-in-response-to-a-triggering-frame.docx) [6 CIDs]
    - 339, 943, 944, 2184, 2303 in [11-25/0524r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0524-00-00bn-cc50-cr-for-38-3-15-10-3-csd-for-dru-transmission.docx) [5 CIDs]

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

Move: Juan Fang Second: Ross. J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 383 (PHY)**

**Move to approve resolutions to the CIDs (84C):**

* + - 2732, 2234, 2043, 616, 1369, 2044, 2235, 118, 136, 275, 291, 561, 760, 1072, 1103, 1370, 1753, 1928, 1973, 2045, 2046, 2236, 2437, 2704, 2733, 3293, 3530, 3967, 3294, 2560, 562, 1104, 1105, 2734, 3531, 138, 2735 in [11-25/0577r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0577-02-00bn-cc50-cid-resolutions-for-38-1-part-2.docx) *[37 CIDs]*
    - 69, 1191, 1669, 1763 in 11-25/0580r2 & 1628 in 11-25/0581r1 & 1635 in [11-25/0582r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0582-02-00bn-cc50-cr-for-uhr-sig-general-and-content-channels.docx) *[6 CIDs]*
    - 336, 340, 591, 596, 1171, 1173, 2299, 2305, 2307, 2777, 2778, 3524, 3525, 3559 in [11-25/0525r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0525-01-00bn-cc50-cr-for-38-3-15-10-1-and-38-3-15-10-5.docx) *[14 CIDs]*
    - 337, 338, 592, 593, 594, 1641, 1898, 2183, 2300, 2301, 2302, 2306, 3523 in [11-25/0547r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0547-00-00bn-cc50-cr-for-38-3-15-10-2-uhr-stf-for-drus.docx) *[13 CIDs]*
    - 1643, 599, 949, 1962, 2312, 1961, 600, 1178, 343, 1179, 2313, 2779\*, 2780 in 25/0550r0 & 1631 in [25/0548r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0548-01-00bn-cc50-cr-for-38-3-15-3-and-38-3-15-4.docx) *[14 CIDs]*

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

Move: Dongguk Lim Second: Lin Yang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

*Note: These are comment resolution documents that obtained ≥ 75% support during the straw poll phase of the PHY ad-hoc teleconference of April 7, 2025.*

*\*2779 added last minute as it was accidentally missed.*

* + **Motion 384 (PHY)**

**Move to approve resolutions to the CIDs (64C):**

* + - 2, 3, 83, 314, 316, 317, 585, 586, 1157, 1158, 1159, 1160, 1347, 1587, 2701, 2828, 3303, 3305 in [11-25/0603r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0603-00-00bn-cc50-cr-on-u-sig-part-3.docx) *[18 CIDs]*
    - 1675, 1676, 1677, 1678, 1679, 1979, 1980, 2547, 2826, 2829, 2835, 2853, 2910, 2911, 2917, 2918, 2957 in [11-25/0556r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0556-01-00bn-cc50-editorial-comments-part-2.docx) *[17 CIDs]*
    - 1762, 2316, 2317, 2319, 2787, 29, 1357, 2788, 30, 1183, 2322 in [11-25/0608r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0608-02-00bn-cr-phy-cc50-cids-in-subclause-38-3-15-12-elr-sig-part2.docx) *[11 CIDs]*
    - 1345, 2443 in 25/0623r1 & 610, 958, 960, 1194, 3247, 3248 in [11-25/0585r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0585-01-00bn-cr-phy-cc50-cids-in-subclause-38-3-25-receiver-specification.docx) *[8 CIDs]*
    - 306, 1020, 1771, 1772, 2176, 2177, 2258, 2706, 2723, 2724 in [11-25/0570r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0570-01-00bn-cc50-cr-for-38-3-4-transmission-of-dru.docx) *[10 CIDs]*

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

Move: Alice Chen Second: Ross J. Yu

* + - Discussion:

The revision number of the DCN of 11-25/0570 was confirmed and r1 was correct.

**Result: Approved with unanimous consent.**

*Note: These are comment resolution documents that obtained ≥ 75% support during the straw poll phase of the PHY ad-hoc teleconference of April 10, 2025.*

* + **Motion 385 (MAC)**

**Move to approve resolutions to the CIDs (22C):**

* + - 3848, 3852, 3853, 3859, 144 in [11-25/0551r3](https://mentor.ieee.org/802.11/dcn/25/11-25-0551-03-00bn-cr-mac-cc50-cids-in-clause-9.docx) *[5 CIDs]*
    - 280 401 402 463 464 848 895 1459 1517 1966 1967 2572 2619 2660 2845 2846 2852 in [11-25/0527r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0527-02-00bn-cc50-cr-for-cids-in-subclause-6.docx) *[17 CIDs]*

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

Move: Abhishek Patil Second: Stephen McCann

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 386 (MAC)**

**Move to approve resolutions to the CIDs (1C):**

* + - 1378 in [11-25/0479r3](https://mentor.ieee.org/802.11/dcn/25/11-25-0479-03-00bn-cr-for-cid-1378.docx) *[1 CID]*\*

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

Move: Dibakar Das Second: Dmitry Akhmetov

* + - Discussion:

C: The PDT contents the term “data communication”, which is quite ambiguous. I suggest removing that term and replacing it with some specific text. In addition, the PDT adds a new TBD. It should be opened on the reflector.

A: I am trying to make progress on the stuff that was agreed in the motion text. The concern seems that some parts here a adding a TBD, there is one term is not clear. Fixing those in precise detail will require more discussion than simply suggestion.

C: The meaning of the term of data communication should be specified very clearly in the draft spec text.

A: I defer. It will be discussed targeted in May F2F.

**The motion was deferred.**

*Note: These are comment resolution documents that obtained ≥ 75% support during the straw poll phase of the MAC ad-hoc teleconference of April 7, 2025.*

*\* SP result for CID 1378 was 43Y/13N/29A.*

* + **Motion 387 (Withdrawal)**

**Move to approve resolutions to the CIDs (42C):**

* + - 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666 *[42 CIDs]*

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

Move: Stephen McCann Second: Bin Tian

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 388 (MAC)**

**Move to add to the TGbn SFD the following for DSO:**

* + - For a non-AP STA, the channel with bandwidth equaling its operating bandwidth and including the BSS primary channel is referred to as primary sub-band
    - For a non-AP STA, a channel with the bandwidth equaling its operating bandwidth outside of its primary sub-band where it can be allocated resources by the AP is referred to as DSO sub-band for that non-AP STA
    - A non-AP STA that supports this mechanism is referred to as a DSO STA

Move: Morteza Mehrnoush Second: Yanjun Sun

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* Straw Polls:
  + **SP1: Jason, CSR**

Do you support to include in the 11bn SFD:

* + - In Coordinated Spatial Reuse, the following information shall be carried in the Trigger frame that initiates concurrent CSR transmissions:
      * The transmit power limit of the shared AP
    - The shared AP Tx power limitation indicated by the sharing AP should not be lower than the minimum TX power indicated by the shared AP in its request.
    - The transmit power of the sharing AP

*Supporting docs:* [*23/1868r2*](https://mentor.ieee.org/802.11/dcn/23/11-23-1868-02-00bn-coordinated-spatial-reuse-design.pptx)*;* [*24/2060r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2060-01-00bn-csr-cobf-protocol-design.pptx)*;* [*25/254r0*](https://mentor.ieee.org/802.11/dcn/25/11-25-0254-00-00bn-co-sr-power-control-considerations.pptx)

* + - Discussion: None.

**Result: No objection.**

* AoB: None.
* Adjourned at 12:00

# 11th Conf. Call: April 28th, Monday (19:00-21:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-04-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0519-05-00bn-minutes-for-802-11-bn-phy-ad-hoc-teleconference-in-march-to-may.docx>

# 12th Conf. Call: May 1st, Thursday (10:00-12:00 ET)

* Split MAC and PHY teleconferences.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0517-06-00bn-tgbn-mac-ad-hoc-mar-may-2025-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0519-06-00bn-minutes-for-802-11-bn-phy-ad-hoc-teleconference-in-march-to-may.docx>

**Appendix**

* Attendee List for the 10th Conf. Call:

|  |  |  |  |
| --- | --- | --- | --- |
| **Breakout** | **Timestamp** | **Name** | **Affiliation** |
| TGbn | 04/24/2025 | Genc, Eda | Nokia |
| TGbn | 04/24/2025 | Dezfouli, Behnam | Nokia |
| TGbn | 04/24/2025 | Hart, Brian | Cisco Systems, Inc. |
| TGbn | 04/24/2025 | Hervieu, Lili | CableLabs |
| TGbn | 04/24/2025 | Hirata, Ryuichi | Sony Corporation |
| TGbn | 04/24/2025 | huang, kaikai | Nokia |
| TGbn | 04/24/2025 | Hussein, Abdalla | Huawei Technologies Canada; Huawei Technologie... |
| TGbn | 04/24/2025 | Inohiza, Hirohiko | Canon |
| TGbn | 04/24/2025 | Jang, Insun | LG ELECTRONICS |
| TGbn | 04/24/2025 | Sung, Hyeonjun | WILUS Inc. |
| TGbn | 04/24/2025 | Jeon, Eunsung | SAMSUNG ELECTRONICS |
| TGbn | 04/24/2025 | Kakani, Naveen | Qualcomm Incorporated; Qualcomm Technologies, Inc |
| TGbn | 04/24/2025 | Halna du Fretay, Tristan | Canon Research Centre France |
| TGbn | 04/24/2025 | Kalamkar, Sanket | Qualcomm Incorporated; Qualcomm Technologies, Inc |
| TGbn | 04/24/2025 | Kandala, Srinivas | Samsung |
| TGbn | 04/24/2025 | Sun, Bo | Sanechips Technology Co., Ltd. |
| TGbn | 04/24/2025 | Kang, HaoHua | MediaTek Inc. |
| TGbn | 04/24/2025 | Karthik, S. G. | SAMSUNG ELECTRONICS |
| TGbn | 04/24/2025 | Kedem, Oren | Maxlinear |
| TGbn | 04/24/2025 | Kim, Geon Hwan | LG ELECTRONICS |
| TGbn | 04/24/2025 | Kim, Jungjun | Samsung Electronics |
| TGbn | 04/24/2025 | Kim, Sang Gook | LG ELECTRONICS |
| TGbn | 04/24/2025 | SUH, JUNG HOON | Huawei Technologies Canada; Huawei Technologie... |
| TGbn | 04/24/2025 | Kim, Sanghyun | WILUS Inc. |
| TGbn | 04/24/2025 | Kamel, Mahmoud | Interdigital Inc. |
| TGbn | 04/24/2025 | Ha, Taeyoung | Samsung Electronics Co., Ltd. |
| TGbn | 04/24/2025 | Gupta, Binita | Cisco Systems, Inc. |
| TGbn | 04/24/2025 | Thakore, Darshak | CableLabs |
| TGbn | 04/24/2025 | Deshmukh, Mrugen | InterDigital |
| TGbn | 04/24/2025 | RISON, Mark | Samsung Cambridge Solution Centre |
| TGbn | 04/24/2025 | Dong, Xiandong | Xiaomi Communications Co., Ltd. |
| TGbn | 04/24/2025 | Doostnejad, Roya | ofinno |
| TGbn | 04/24/2025 | Doppler, Klaus | Nokia |
| TGbn | 04/24/2025 | Ekkundi, Manasi | SAMSUNG ELECTRONICS |
| TGbn | 04/24/2025 | Erkucuk, Serhat | Ofinno |
| TGbn | 04/24/2025 | Fan, Shuang | Sanechips Technology Co., Ltd. |
| TGbn | 04/24/2025 | Fang, Juan | Intel Corporation |
| TGbn | 04/24/2025 | Fang, Yonggang | MediaTek Inc. |
| TGbn | 04/24/2025 | Varshney, Prabodh | Nokia |
| TGbn | 04/24/2025 | feng, Shuling | MediaTek Inc. |
| TGbn | 04/24/2025 | Fischer, Matthew | Broadcom Corporation |
| TGbn | 04/24/2025 | Fletcher, Paul | Samsung Cambridge Solution Center |
| TGbn | 04/24/2025 | Tsujimaru, Yuki | Canon |
| TGbn | 04/24/2025 | Tsodik, Genadiy | Huawei Technologies Co., Ltd |
| TGbn | 04/24/2025 | Fu, Qingwei | TP-Link Systems Inc. |
| TGbn | 04/24/2025 | Fujimori, Yuki | Canon Research Centre France |
| TGbn | 04/24/2025 | Georgiev, Zahari | Cisco Systems, Inc. |
| TGbn | 04/24/2025 | Ghosh, Chittabrata | Apple Inc. |
| TGbn | 04/24/2025 | Gu, Jaheon | Samsung Electronics Co., Ltd. |
| TGbn | 04/24/2025 | Gu, Xiangxin | Spreadtrum Communications (Shanghai) Co., Ltd. |
| TGbn | 04/24/2025 | GUIGNARD, Romain | Canon Research Centre France |
| TGbn | 04/24/2025 | Kim, Youhan | Qualcomm Technologies, Inc. |
| TGbn | 04/24/2025 | Das, Subir | Peraton Labs |
| TGbn | 04/24/2025 | Kishida, Akira | NTT |
| TGbn | 04/24/2025 | Strobel, Rainer | Maxlinear |
| TGbn | 04/24/2025 | McCann, Stephen | Huawei Technologies Co., Ltd |
| TGbn | 04/24/2025 | Motozuka, Hiroyuki | Panasonic Holdings Corporation; Panasonic Oper... |
| TGbn | 04/24/2025 | Mutgan, Okan | Nokia |
| TGbn | 04/24/2025 | Sadiq, Bilal | Samsung Research America |
| TGbn | 04/24/2025 | Nezou, Patrice | Canon Research Centre France |
| TGbn | 04/24/2025 | Ni, Jiqing | Beijing OPPO telecommunications corp., ltd; Gu... |
| TGbn | 04/24/2025 | Noh, Si-Chan | Newracom Inc. |
| TGbn | 04/24/2025 | Park, Eunsung | LG ELECTRONICS |
| TGbn | 04/24/2025 | Park, Minyoung | Apple Inc. |
| TGbn | 04/24/2025 | Ryu, Kiseon | WILUS Inc. |
| TGbn | 04/24/2025 | Scott, David | Cisco Systems, Inc. |
| TGbn | 04/24/2025 | Park, Sungjin | Senscomm |
| TGbn | 04/24/2025 | Roy, Rishabh | SAMSUNG ELECTRONICS |
| TGbn | 04/24/2025 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbn | 04/24/2025 | Perez, Javier | Ofinno |
| TGbn | 04/24/2025 | Pettersson, Charlie | Ericsson AB |
| TGbn | 04/24/2025 | Qi, Yue | Samsung Research America |
| TGbn | 04/24/2025 | Quan, Yingqiao | Spreadtrum Communications (Shanghai) Co., Ltd.... |
| TGbn | 04/24/2025 | Ralle, Helene | Orange |
| TGbn | 04/24/2025 | Ratnam, Vishnu | SAMSUNG ELECTRONICS |
| TGbn | 04/24/2025 | Redlich, Oded | Huawei Technologies Co., Ltd |
| TGbn | 04/24/2025 | Ross, Rony | Huawei Technologies Co., Ltd |
| TGbn | 04/24/2025 | Patil, Abhishek | Qualcomm Incorporated |
| TGbn | 04/24/2025 | Manoharan, Jegan | Cisco Systems, Inc. |
| TGbn | 04/24/2025 | Sevin, Julien | Canon Research Centre France |
| TGbn | 04/24/2025 | Ma, Yongsen | SAMSUNG ELECTRONICS |
| TGbn | 04/24/2025 | Koo, Jonghoe | SAMSUNG ELECTRONICS |
| TGbn | 04/24/2025 | Kuo, Chih-Chun | MediaTek Inc. |
| TGbn | 04/24/2025 | Lee, Hong Won | LG ELECTRONICS |
| TGbn | 04/24/2025 | Singh, Aditi | Charter Communications |
| TGbn | 04/24/2025 | LEE, JOONSOO | Newracom Inc. |
| TGbn | 04/24/2025 | Lee, Wookbong | Apple Inc. |
| TGbn | 04/24/2025 | Li, Haozheng | TP-Link System Inc. |
| TGbn | 04/24/2025 | Li, Jialing | Qualcomm Incorporated; Qualcomm Technologies, Inc |
| TGbn | 04/24/2025 | Shilo, Shimi | Huawei Technologies Co., Ltd |
| TGbn | 04/24/2025 | Li, Weiyi | Spreadtrum Communication USA, Inc |
| TGbn | 04/24/2025 | Li, Yapu | Guangdong OPPO Mobile Telecommunications Corp.... |
| TGbn | 04/24/2025 | Lim, Dong Guk | LG ELECTRONICS |
| TGbn | 04/24/2025 | Lin, Wei | Xiaomi Communications Co., Ltd. |
| TGbn | 04/24/2025 | LIU, QINGLAI | Panasonic Holdings Corporation |
| TGbn | 04/24/2025 | Lorgeoux, Mikael | Canon Research Centre France |
| TGbn | 04/24/2025 | Lou, Hanqing | InterDigital, Inc. |
| TGbn | 04/24/2025 | Lovison, Federico | Cisco Systems, Inc. |
| TGbn | 04/24/2025 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.... |
| TGbn | 04/24/2025 | LU, Yuxin | TCL Industries |
| TGbn | 04/24/2025 | Shi, Zhenpeng | Huawei Technologies Co., Ltd |
| TGbn | 04/24/2025 | Shabdanov, Samat | Mediatek |
| TGbn | 04/24/2025 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbn | 04/24/2025 | Luo, Sixian | SHARP CORPORATION |
| TGbn | 04/24/2025 | Klein, Arik | Huawei Technologies Co., Ltd |
| TGbn | 04/24/2025 | Cui, Yaoshen | TP-Link Systems Inc. |
| TGbn | 04/24/2025 | Rodriguez, Stephen | Cisco Systems, Inc. |
| TGbn | 04/24/2025 | Choi, Jinsoo | LG ELECTRONICS |
| TGbn | 04/24/2025 | Wong Mosquera, Blanca | Cisco Systems, Inc |
| TGbn | 04/24/2025 | Wu, Kanke | Apple Inc. |
| TGbn | 04/24/2025 | Wu, Tianyu | Apple Inc. |
| TGbn | 04/24/2025 | Xia, Qing | Sony Corporation |
| TGbn | 04/24/2025 | Xiao, Tong | Xiaomi Communications Co., Ltd. |
| TGbn | 04/24/2025 | Xu, Yanchao | Amlogic |
| TGbn | 04/24/2025 | Yang, Haorui | China Mobile (Hangzhou) Information Technology... |
| TGbn | 04/24/2025 | Yang, Jay | ZTE Corporation |
| TGbn | 04/24/2025 | Yang, Jimmy | Moxa Inc. |
| TGbn | 04/24/2025 | Yano, Kazuto | Advanced Telecommunications Research Institute... |
| TGbn | 04/24/2025 | Wilhelmsson, Leif | Ericsson AB |
| TGbn | 04/24/2025 | Yee, James | MediaTek Inc. |
| TGbn | 04/24/2025 | Zhang, Jiayi | Ofinno |
| TGbn | 04/24/2025 | Zhang, Maolin | Huawei Technologies Co., Ltd |
| TGbn | 04/24/2025 | Zhao, Xuwen | TCL |
| TGbn | 04/24/2025 | Zhao, Yue | Huawei Technologies Co., Ltd |
| TGbn | 04/24/2025 | Zhong, Ke | Ruijie Networks Co., Ltd. |
| TGbn | 04/24/2025 | Zhou, Huixuan | Guangdong OPPO Mobile Telecommunications Corp.... |
| TGbn | 04/24/2025 | Zhou, Lei | New H3C Technologies Co., Limited |
| TGbn | 04/24/2025 | Zhou, Pei | TCL |
| TGbn | 04/24/2025 | Zhou, Renlong | Sanechips Technology Co., Ltd. |
| TGbn | 04/24/2025 | Coffey, John | Realtek Semiconductor Corp. |
| TGbn | 04/24/2025 | Yoon, Yelin | LG ELECTRONICS |
| TGbn | 04/24/2025 | Wei, Dong | Guangdong OPPO Mobile Telecommunications Corp.... |
| TGbn | 04/24/2025 | Zimmer, Ethan | Cisco Systems, Inc. |
| TGbn | 04/24/2025 | Adhikari, Shubhodeep | Broadcom Corporation |
| TGbn | 04/24/2025 | Choi, JinHo | SAMSUNG ELECTRONICS |
| TGbn | 04/24/2025 | Cho, Hangyu | LG ELECTRONICS |
| TGbn | 04/24/2025 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbn | 04/24/2025 | VIGER, Pascal | Canon Research Centre France |
| TGbn | 04/24/2025 | cheng, phoebe | MediaTek Inc. |
| TGbn | 04/24/2025 | Chen, You-Wei | MediaTek Inc. |
| TGbn | 04/24/2025 | Chen, Xu | Xiaomi Communications Co., Ltd. |
| TGbn | 04/24/2025 | Chen, Junbin | TP-Link Systems Inc. |
| TGbn | 04/24/2025 | Wang, Lei | Futurewei Technologies/Huawei Technologies |
| TGbn | 04/24/2025 | Chaturvedi, Abhishek | Samsung Electronics |
| TGbn | 04/24/2025 | Verma, Sindhu | Broadcom |
| TGbn | 04/24/2025 | Byeon, Seongho | SAMSUNG ELECTRONICS |
| TGbn | 04/24/2025 | Bredewoud, Albert | Broadcom Corporation |
| TGbn | 04/24/2025 | baron, stephane | Canon Research Centre France |
| TGbn | 04/24/2025 | Carty, Clark | Juniper Networks, Inc. |
| TGbn | 04/24/2025 | Bai, Jiyang | TCL |
| TGbn | 04/24/2025 | Wang, Ying | InterDigital, Inc. |
| TGbn | 04/24/2025 | Asai, Yusuke | NTT |
| TGbn | 04/24/2025 | Wee, Gaius | Panasonic Holdings Corporation |
| TGbn | 04/24/2025 | Asterjadhi, Alfred | Qualcomm Technologies, Inc. |