IEEE P802.11  
Wireless LANs

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| Minutes for 802.11 bn PHY ad-hoc Teleconference in March to May | | | | |
| Date: 2025-04-04 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Dongguk Lim | LG Electronics |  |  | Dongguk.lim@lge.com |

Abstract

This document contains the PHY ad hoc meeting minutes for TGbn teleconferences held between March and May 2025:

* March 24, 2025
* March 27, 2025
* March 31, 2025
* April 03, 2025
* April 07, 2025
* April 10, 2025
* April 14, 2025
* April 17, 2025
* April 21, 2025
* April 28, 2025
* May 01, 2025

# Monday March 24th, 2024 19:00 – 21:00 ET

**Introduction**

1. The Chair (Tianyu, Apple) calls the meeting to order at 19:00pm ET.
2. The Chair follows the agenda in 11-25/0504r0.
3. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
4. The Chair goes through the Copyright policy.
5. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Dongguk Lim (LGE), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Discussions on the agenda.
   * CR/PDT Submissions:
     1. [25/0505r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0505-00-00bn-cc50-crs-on-1366-1367-2285.docx) cc50-CRs-on-1366-1367-2285 Lin Yang [3 CIDs]
     2. [25/0441r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0441-00-00bn-cc50-cr-on-u-sig-part-1.docx) CC50 CR on U-SIG Part 1 Alice Chen [8 CIDs]
     3. [25/0509r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0509-00-00bn-cc50-cid-resolutions-for-38-1.docx) CC50 CID resolutions for 38.1 Eugene Baik [29 CIDs]
   * Technical Submissions – Topic:
     1. [25/0103](https://mentor.ieee.org/802.11/dcn/25/11-25-0103-00-00bn-simplified-carrier-synchronization-for-cobf-transmissions.pptx) Simplified Carrier Synch. for CoBF TXs Shuling Feng

**Attendance**

TGbn (PHY)  03/24/2025        Kamel, Mahmoud                                  Interdigital Inc.  
TGbn (PHY)  03/24/2025              Ke, Wang  Beijing OPPO telecommunications corp., ltd; Gu...  
TGbn (PHY)  03/24/2025         Lee, Wookbong                                         Apple Inc.  
TGbn (PHY)  03/24/2025           Li, Jialing                         Qualcomm Technologies, Inc  
TGbn (PHY)  03/24/2025              Li, Yapu  Guangdong OPPO Mobile Telecommunications Corp....  
TGbn (PHY)  03/24/2025         Lim, Dong Guk                                     LG ELECTRONICS  
TGbn (PHY)  03/24/2025         Minotani, Jun                     Panasonic Holdings Corporation  
TGbn (PHY)  03/24/2025        Sahyoun, Walaa                       Canon Research Centre France  
TGbn (PHY)  03/24/2025  Schelstraete, Sigurd                                          MaxLinear  
TGbn (PHY)  03/24/2025               Sun, Bo                     Sanechips Technology Co., Ltd.  
TGbn (PHY)  03/24/2025            Wang, Ying                                 InterDigital, Inc.  
TGbn (PHY)  03/24/2025             Wei, Dong  Guangdong OPPO Mobile Telecommunications Corp....  
TGbn (PHY)  03/24/2025             Wu, Kanke                                         Apple Inc.  
TGbn (PHY)  03/24/2025            Wu, Tianyu                                         Apple Inc.  
TGbn (PHY)  03/24/2025         Yamada, Ryota                                  SHARP CORPORATION  
TGbn (PHY)  03/24/2025            Yan, Aiguo                                SAMSUNG ELECTRONICS  
TGbn (PHY)  03/24/2025          Zhang, Jiayi                                             Ofinno  
TGbn (PHY)  03/24/2025           Zhao, Xuwen                                                TCL  
TGbn (PHY)  03/24/2025             Zhong, Ke                           Ruijie Networks Co.,Ltd.  
TGbn (PHY)  03/24/2025             Zhou, Lei                      H3C Technologies Co., Limited  
TGbn (PHY)  03/24/2025         feng, Shuling                                      MediaTek Inc.  
TGbn (PHY)  03/24/2025      Deshmukh, Mrugen                                       InterDigital  
TGbn (PHY)  03/24/2025          Asai, Yusuke                                                NTT  
TGbn (PHY)  03/24/2025           Bai, Jiyang                                                TCL  
TGbn (PHY)  03/24/2025           Batra, Anuj                                         Apple Inc.  
TGbn (PHY)  03/24/2025         Chen, You-Wei                                      MediaTek Inc.  
TGbn (PHY)  03/24/2025           Cho, Hangyu                                     LG ELECTRONICS

**CR/PDT Submissions**

1. **25/0505r0 cc50-CRs-on-1366-1367-2285 Lin Yang**

Discussions: No Discussion

SP : Do you agree to accept the proposed resolution of the following CIDs in document 25/0505r0?

* CID 1366, 1367, 2285

SP results: No objection

1. **25/0441r0 CC50 CR on U-SIG Part 1 Alice Chen**

Discussions:

C: typo fixed –“ where these parameters..." instead of "there parameters"

SP : Do you agree to accept the proposed resolution of the following CIDs in document 25/0441r2?-

* CID, 5, 6, 8, 321, 937, 938, 939, 940, 1163

SP results: No objection

1. **25/0509r0 CC50 CID resolutions for 38.1 Eugene Baik**

Discussions:

C: BCC is Binary convolutional code, right?

A: Yes.

C: Could you change the U and M in unequal modulation as a lower case?

A: Okay

C: Could you delete the “beamformed” in front of PPDU?

A: Okay

C: Could you replace the “Distributed RUs” with “DRUs”

A: Okay

C: Need to clarify about the tones and subcarriers

SP : Do you agree to accept the proposed resolution of the following CIDs in document 25/0509r2

* CID 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

SP results: No objection

**Technical Submissions**

1. 25/0103 Simplified Carrier Synch. for CoBF TXs Shuling Feng
   1. It was already presented in the previous meeting.

**Adjourn**

The meeting is Adjourned at 21:00pm ET.

# Thursday March 27th, 2024 10:00 – 12:00 ET

* **Cancelled.**

# Monday March 31th, 2024 19:00 – 21:00 ET

**Introduction**

1. The Chair (Tianyu, Apple) calls the meeting to order at 19:00pm ET.
2. The Chair follows the agenda in 11-25/0504r3.
3. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
4. The Chair goes through the Copyright policy.
5. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Dongguk Lim (LGE), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Discussions on the agenda.
   * CR/PDT Submissions:
     1. [25/0546r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0546-00-00bn-crs-for-subclause-38-3-22.docx) CRs for subclause 38.3.22 You-Wei Chen [13 CIDs]
     2. [25/0506r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0506-00-00bn-cc50-editorial-comments-part-1.docx) CC50 editorial comments part 1 Ross Jian Yu [19 CIDs]
     3. [25/0518r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0518-00-00bn-cc50-cr-for-38-3-15-2-2-cyclic-shift-for-uhr-modulated-fields.docx) CC50 CR for 38.3.15.2.2 Eunsung Park [1 CID]
     4. [25/0520r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0520-00-00bn-cc50-cr-for-38-3-15-10-4-csd-index-assignment-for-dru-uhr-stf-transmission.docx) CC50 CR for 38.3.15.10.4 Eunsung Park [5 CIDs]
     5. [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) CC50 CRs for 38.3.7 UHR PPDU formats Dongguk Lim [14 CIDs]
     6. [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) CC50 CR for 38.3.15.3 and 38.3.15.4 Dongguk Lim [4 CIDs]
     7. [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) CC50 CR for 38.3.15.5 and 38.3.15.6 Dongguk Lim [13 CIDs]
     8. [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) CC50 CR for 38.3.3 RU and MRU restrictions for 20 MHz operation Eunsung Park [4 CIDs]

**Attendance**

**CR/PDT Submissions**

1. **25/0546r0 CRs for subclause 38.3.22 You-Wei Chen**

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 13CIDs as proposed in document 25/0546r1?

* 72, 212, 609, 907, 957, 1193, 1519, 1933, 1938, 2337, 2785, 3553, 3554

Results: No objection

1. **25/0506r0 CC50 editorial comments part 1 Ross Jian Yu**

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 17CIDs as proposed in document 25/0506r1?

* 110, 398, 1674, 276, 397,461, 462, 472, 712, 860, 716, 854, 1032, 1034, 138, 1672, 1673

Results: No objection

1. **25/0518r0 CC50 CR for 38.3.15.2.2 Eunsung Park**

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 1 CID as proposed in document 25/0518r1?

* 1155

Results: No objection

1. **25/0518r0 CC50 CR for 38.3.15.10.4 Eunsung Park**

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 5 CIDs as proposed in document 25/0520r1?

* 595, 1172, 1590, 1748, 2304

Results: No objection

1. **CC50 CRs for 38.3.7 UHR PPDU formats Dongguk Lim**

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 14 CIDs as proposed in document 25/0523r0?

* 48, 1621, 49, 50, 51, 2178, 3237, 211, 307, 2179, 575, 2269, 3533, 3555

Results: No objection

1. **25/0548r0 CC50 CR for 38.3.15.3 and 38.3.15.4 Dongguk Lim**

Discussions:

C: Do you want to change the value of two time parameters?

A: No, since this parameter is missing in the current spec, I want to add the this parameter which has the same value.

C: The note to the editor is not clear. Please provide the whole suggestion.

A: Okay.

SP: Do you agree to accept the proposed resolution of the following 3 CIDs as proposed in document 25/0548r0?

* 310, 2286, 311

Results: No objection

Note: CID 1631 is deferred

1. **25/0548r0 CC50 CR for 38.3.15.5 and 38.3.15.6 Dongguk Lim**

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 13 CIDs as proposed in document 25/0549r0?

* 312, 2773, 395, 2753, 584, 1090, 1346, 3472, 936, 2287, 2755, 3473, 3561

Results: No objection

1. **25/0522r0 CC50 CR for 38.3.3 RU and MRU restrictions for 20 MHz operation Eunsung Park**

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 4 CIDs as proposed in document 25/0522r0?

* 305, 1122, 1758, 2257

Results: No objection

**Adjourn**

The meeting is Adjourned at 20:11pm ET.

# Thursday April 3th, 2024 10:00 – 12:00 ET

**Introduction**

1. The Chair (Sigurd Schelstraete, MaxLinear) calls the meeting to order at 19:00pm ET.
2. The Chair follows the agenda in 11-25/0504r5.
3. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
4. The Chair goes through the Copyright policy.
5. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Dongguk Lim (LGE), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Discussions on the agenda.
   * CR/PDT Submissions:
     1. [25/0564r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0564-00-00bn-cr-phy-cc50-cids-in-subclause-38-3-15-12-elr-sig-38-3-16-1-coding.docx) CR-PHY-cc50-CIDs\_in\_subclause\_38.3.15.12\_ELR-SIG\_38.3.16.1\_coding Juan Fang [40 CIDs]
     2. [25/0584r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0584-00-00bn-cr-phy-cc50-cids-in-subclause-38-3-19-transmit-requirements-for-ppdus-sent-in-response-to-a-triggering-frame.docx) CR-PHY-cc50-CIDs\_in\_subclause\_38.3.19 Juan Fang [6 CIDs]
     3. [25/0577r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0577-00-00bn-cc50-cid-resolutions-for-38-1-part-2.docx) CC50 CID resolutions for 38.1 - part 2 Eugene Baik [53 CIDs]
     4. [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) CC50 CR for 38.3.15.10.3 CSD for DRU TX Eunsung Park [5 CIDs]
     5. 25/0580r0 CC50 CR for Packet Extension Mengshi Hu

**Attendance**

**CR/PDT Submissions**

1. **25/0564r2 CR-PHY-cc50-CIDs\_in\_subclause\_38.3.15.12\_ELR-SIG\_38.3.16.1\_coding Juan Fang**

Discussions:

C: Does section 37.z exist? And I don’t want to make additional TBD

A: I did not check it. Okay.

C: It is hard to understand Eq(38-39). It is not straightforward.

C: The TGI,ELR-SIG is 1.6, Is it right?

A: Yes

C: You should resolve the similar comment together

C: Each CID should have its own resolution.

C: It has a type in the name of table 38-18

SP: Do you agree to the resolution of the following 39CIDs as proposed in document 25/0564r3?

* 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

Results: No objection.

1. **25/0584r0 CR-PHY-cc50-CIDs\_in\_subclause\_38.3.19 Juan Fang**

Discussions: None

SP: Do you agree to the resolution of the following 6CIDs as proposed in document 25/0584r1?

* 1099, 1655,2335, 3313, 1192, 3312

Results: No objection.

1. **25/0577r2 CC50 CID resolutions for 38.1 - part 2 Eugene Baik**

Discussions:

C: The decision of M&O is incomplete, but I think that it should be kept the text related to the passed motion.

A: After we decide what is mandatory or optional completely, it can be added later.

C: It is not good behavior to remove the consensuses agreement

C: You should re-assign the CID related to the TX/RX vector to POC instead of the rejected resolution.

1. **25/0524r0 CC50 CR for 38.3.15.10.3 CSD for DRU TX Eunsung Park**

Discussions:

C: if we change the index I to J, does it affect any other place?

A: It is just related to the CSD index

C: It is better to describe it by using a table

A: Considering the extension of Nss, it is better to keep the current formula.

SP: Do you agree to the resolution of the following 5CIDs as proposed in document 25/0564r0?

* 339 943 944 2184 2303

Results: No objection.

1. **25/0580r0 CC50 CR for Packet Extension Mengshi Hu**

Discussions:

C: Where is the value of PE for CoBF and CoSR?

A: It is described in other places in the same section.

C: Related to 2349, we need to bring the contribution for more discussion.

A: Okay, I deferred this CID and assigned it to you.

It will be continuing in the next CC

**Adjourn**

The meeting is Adjourned at 12:00pm ET.