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**

TGbn (PHY)  03/31/2025            Lee, Wookbong                                         Apple Inc.  
TGbn (PHY)  03/31/2025            Lim, Dong Guk                                     LG ELECTRONICS  
TGbn (PHY)  03/31/2025                 Li, Yapu  Guangdong OPPO Mobile Telecommunications Corp....  
TGbn (PHY)  03/31/2025            Park, Eunsung                                     LG ELECTRONICS  
TGbn (PHY)  03/31/2025              Li, Jialing                         Qualcomm Technologies, Inc  
TGbn (PHY)  03/31/2025            Chen, You-Wei                                      MediaTek Inc.  
TGbn (PHY)  03/31/2025              Bai, Jiyang                                                TCL  
TGbn (PHY)  03/31/2025             Asai, Yusuke                                                NTT  
TGbn (PHY)  03/31/2025            Hu, Shengquan                                      MediaTek Inc.  
TGbn (PHY)  03/31/2025            feng, Shuling                                      MediaTek Inc.  
TGbn (PHY)  03/31/2025               Fang, Juan                                  Intel Corporation  
TGbn (PHY)  03/31/2025             Choi, Jinsoo                                     LG ELECTRONICS  
TGbn (PHY)  03/31/2025              Cho, Hangyu                                     LG ELECTRONICS  
TGbn (PHY)  03/31/2025     Schelstraete, Sigurd                                          MaxLinear  
TGbn (PHY)  03/31/2025             Zhang, Jiayi                                             Ofinno  
TGbn (PHY)  03/31/2025               Yan, Aiguo                                SAMSUNG ELECTRONICS  
TGbn (PHY)  03/31/2025            Yamada, Ryota                                  SHARP CORPORATION  
TGbn (PHY)  03/31/2025           SUH, JUNG HOON  Huawei Technologies Canada; Huawei Technologie...  
TGbn (PHY)  03/31/2025               Wu, Tianyu                                         Apple Inc.  
TGbn (PHY)  03/31/2025                Zhou, Lei                      H3C Technologies Co., Limited  
TGbn (PHY)  03/31/2025                  Sun, Bo                     Sanechips Technology Co., Ltd.  
TGbn (PHY)  03/31/2025                Wu, Kanke                                         Apple Inc.  
TGbn (PHY)  03/31/2025             Sadiq, Bilal                           Samsung Research America  
TGbn (PHY)  03/31/2025           Sahyoun, Walaa                       Canon Research Centre France  
TGbn (PHY)  03/31/2025                Zhong, Ke                           Ruijie Networks Co.,Ltd.  
TGbn (PHY)  03/31/2025                Wei, Dong  Guangdong OPPO Mobile Telecommunications Corp....

TGbn (PHY)  03/31/2025              Zhao, Xuwen                                                TCL

**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. **25/0520r0 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. **25/523r0 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. **25/0549r0 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, 935, 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**

TGbn (PHY)  04/03/2025               Fang, Juan                                  Intel Corporation  
TGbn (PHY)  04/03/2025            feng, Shuling                                      MediaTek Inc.  
TGbn (PHY)  04/03/2025           SUH, JUNG HOON  Huawei Technologies Canada; Huawei Technologie...  
TGbn (PHY)  04/03/2025  Pereira da Costa, Mario                                              Nokia  
TGbn (PHY)  04/03/2025                Zhong, Ke                           Ruijie Networks Co.,Ltd.  
TGbn (PHY)  04/03/2025                Wu, Kanke                                         Apple Inc.  
TGbn (PHY)  04/03/2025              Li, Jialing                         Qualcomm Technologies, Inc  
TGbn (PHY)  04/03/2025            Hu, Shengquan                                      MediaTek Inc.  
TGbn (PHY)  04/03/2025           Kamel, Mahmoud                                  Interdigital Inc.  
TGbn (PHY)  04/03/2025          Petrick, Albert                 Jones-Petrick and Associates, LLC.  
TGbn (PHY)  04/03/2025       KERGOURLAY, Gerald                       Canon Research Centre France  
TGbn (PHY)  04/03/2025               Wang, Ying                                 InterDigital, Inc.  
TGbn (PHY)  04/03/2025                Zhou, Lei                      H3C Technologies Co., Limited  
TGbn (PHY)  04/03/2025             Sadiq, Bilal                           Samsung Research America  
TGbn (PHY)  04/03/2025              Jung, Insik                                     LG ELECTRONICS  
TGbn (PHY)  04/03/2025                Wei, Dong  Guangdong OPPO Mobile Telecommunications Corp....  
TGbn (PHY)  04/03/2025         Deshmukh, Mrugen                                       InterDigital  
TGbn (PHY)  04/03/2025            Park, Eunsung                                     LG ELECTRONICS  
TGbn (PHY)  04/03/2025               Yan, Aiguo                                SAMSUNG ELECTRONICS  
TGbn (PHY)  04/03/2025            Lim, Dong Guk                                     LG ELECTRONICS  
TGbn (PHY)  04/03/2025                 Lin, Wei                    Xiaomi Communications Co., Ltd.  
TGbn (PHY)  04/03/2025             Shilo, Shimi                       Huawei Technologies Co., Ltd  
TGbn (PHY)  04/03/2025             Choi, Jinsoo                                     LG ELECTRONICS  
TGbn (PHY)  04/03/2025             LIU, QINGLAI                     Panasonic Holdings Corporation  
TGbn (PHY)  04/03/2025                 Li, Yapu  Guangdong OPPO Mobile Telecommunications Corp....  
TGbn (PHY)  04/03/2025              Zhao, Xuwen                                                TCL  
TGbn (PHY)  04/03/2025            Chen, You-Wei                                      MediaTek Inc.  
TGbn (PHY)  04/03/2025     Schelstraete, Sigurd                                          MaxLinear  
TGbn (PHY)  04/03/2025          siaud, isabelle                                             Orange  
TGbn (PHY)  04/03/2025                 Chen, Xu                    Xiaomi Communications Co., Ltd.  
TGbn (PHY)  04/03/2025             Mizuno, Yuta                                 SHARP Coorporation  
TGbn (PHY)  04/03/2025          Strobel, Rainer                                          Maxlinear  
TGbn (PHY)  04/03/2025              Cho, Hangyu                                     LG ELECTRONICS

**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 25/0524r0?

* 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.

# Monday April 7th, 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 11-25/0504r6.
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. [25/0577r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0577-02-00bn-cc50-cid-resolutions-for-38-1-part-2.docx) CID resolutions for 38.1 - part 2 Eugene Baik [53C]
     2. [25/0580r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0580-01-00bn-cc50-cr-for-packet-extension.docx) CR for Packet Extension Mengshi Hu [6C]
     3. [25/0581r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0581-00-00bn-cc50-cr-for-uhr-sig-modulation-and-coding-schemes.docx) CR for UHR-SIG Modulation and Coding Schemes Mengshi Hu [1C]
     4. [25/0582r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0582-01-00bn-cc50-cr-for-uhr-sig-general-and-content-channels.docx) CR for UHR-SIG General and Content Channels Mengshi Hu [1C]
     5. [25/0525r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0525-00-00bn-cc50-cr-for-38-3-15-10-1-and-38-3-15-10-5.docx) CR for 38.3.15.10.1 and 38.3.15.10.5 Eunsung Park [14C]
     6. [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) CR for 38.3.15.10.2 UHR-STF for DRUs Eunsung Park [13C]
     7. [25/0588r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0588-00-00bn-cc50-cr-on-u-sig-part-2.docx) CR on U-SIG Part 2 Alice Chen [13C]
     8. [25/0550r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0550-00-00bn-cc50-cr-for-38-3-15-11-3-uhr-ltf-for-elr-ppdu.docx) CR for 38.3.15.11.3 Dongguk Lim [12C]
     9. [25/0548r1](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 [1C]

**Attendance**

TGbn (PHY)  04/07/2025            Yamada, Ryota                                  SHARP CORPORATION  
TGbn (PHY)  04/07/2025               Wu, Tianyu                                         Apple Inc.  
TGbn (PHY)  04/07/2025            Lim, Dong Guk                                     LG ELECTRONICS  
TGbn (PHY)  04/07/2025             Zhang, Jiayi                                             Ofinno  
TGbn (PHY)  04/07/2025                Zhong, Ke                          Ruijie Networks Co., Ltd.  
TGbn (PHY)  04/07/2025                Zhou, Lei                      H3C Technologies Co., Limited  
TGbn (PHY)  04/07/2025              Zhao, Xuwen                                                TCL  
TGbn (PHY)  04/07/2025                Wei, Dong  Guangdong OPPO Mobile Telecommunications Corp....  
TGbn (PHY)  04/07/2025                 Li, Yapu  Guangdong OPPO Mobile Telecommunications Corp....  
TGbn (PHY)  04/07/2025              Li, Jialing  Qualcomm Incorporated; Qualcomm Technologies, Inc  
TGbn (PHY)  04/07/2025            Lee, Wookbong                                         Apple Inc.  
TGbn (PHY)  04/07/2025       KERGOURLAY, Gerald                       Canon Research Centre France  
TGbn (PHY)  04/07/2025          Nogami, Toshizo                                  SHARP CORPORATION  
TGbn (PHY)  04/07/2025            Park, Eunsung                                     LG ELECTRONICS  
TGbn (PHY)  04/07/2025           Kamel, Mahmoud                                  Interdigital Inc.  
TGbn (PHY)  04/07/2025             Sadiq, Bilal                           Samsung Research America  
TGbn (PHY)  04/07/2025            feng, Shuling                                      MediaTek Inc.  
TGbn (PHY)  04/07/2025                Wu, Kanke                                         Apple Inc.  
TGbn (PHY)  04/07/2025               Fang, Juan                                  Intel Corporation  
TGbn (PHY)  04/07/2025          Chou, Tzu-Hsuan  Qualcomm Incorporated; Qualcomm Technologies, Inc  
TGbn (PHY)  04/07/2025              Cho, Hangyu                                     LG ELECTRONICS  
TGbn (PHY)  04/07/2025           SUH, JUNG HOON  Huawei Technologies Canada; Huawei Technologie...  
TGbn (PHY)  04/07/2025            Chen, You-Wei                                      MediaTek Inc.  
TGbn (PHY)  04/07/2025                 Chen, Xu                    Xiaomi Communications Co., Ltd.  
TGbn (PHY)  04/07/2025                  Sun, Bo                     Sanechips Technology Co., Ltd.  
TGbn (PHY)  04/07/2025              Batra, Anuj                                         Apple Inc.  
TGbn (PHY)  04/07/2025               Wang, Ying                                 InterDigital, Inc.  
TGbn (PHY)  04/07/2025     Schelstraete, Sigurd                                          MaxLinear

**CR/PDT Submissions**

1. [25/0577r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0577-02-00bn-cc50-cid-resolutions-for-38-1-part-2.docx) CID resolutions for 38.1 - part 2 Eugene Baik

Discussions:None

SP: Do you agree to accept the proposed resolution of the following 37 CIDs as proposed in document 25/0577r2?

* 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

Results: No objection

1. [25/0580r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0580-01-00bn-cc50-cr-for-packet-extension.docx) CR for Packet Extension Mengshi Hu

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 4CIDs as proposed in document 25/0580r2?

* 69, 1191, 1669, 1763

Results: No objection

1. [25/0581r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0581-00-00bn-cc50-cr-for-uhr-sig-modulation-and-coding-schemes.docx) CR for UHR-SIG Modulation and Coding Schemes Mengshi Hu

Discussions:

C: This text is a new paragraph for 11bn. So, instead of tracking the change, you should indicate it as a new text.

A: Yes.

SP: Do you agree to accept the proposed resolution of the following 1CID as proposed in document 25/0581r1?

* 1628

Results: No objection

1. [25/0582r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0582-01-00bn-cc50-cr-for-uhr-sig-general-and-content-channels.docx) CR for UHR-SIG General and Content Channels Mengshi Hu

Discussions:

C: For non-OFDMA Co-BF transmission, we need to describe that UHR-SIG contents channel indicate the information about two BSSs.

A: It is a general description. The details may be added later.

C: Could you change the tracking to general text?

A: Yes.

SP: Do you agree to accept the proposed resolution of the following 1CID as proposed in document 25/0582r2?

* 1635

Results: No objection

1. [25/0525r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0525-00-00bn-cc50-cr-for-38-3-15-10-1-and-38-3-15-10-5.docx) CR for 38.3.15.10.1 and 38.3.15.10.5 Eunsung Park

Discussions:

C: Instead of deleting the section of ELR STF, could you add it to the general STF section?

A: Yes. but ELR also uses the RRU, so it does not need to be added.

C: Could you add the comma after “or null”

A: Okay

SP: Do you agree to accept the proposed resolution of the following 14CIDs as proposed in document 25/0525r1?

* 336, 340, 591, 596, 1171, 1173, 2299, 2305, 2307, 2777, 2778, 3524, 3525, 3559

Results: No objection

1. [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) CR for 38.3.15.10.2 UHR-STF for DRUs Eunsung Park

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 14CIDs as proposed in document 25/0547r0?

* 337, 338, 592, 593, 594, 1641, 1898, 2183, 2300, 2301, 2302, 2306, 3523

Results: No objection

1. [25/0588r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0588-00-00bn-cc50-cr-on-u-sig-part-2.docx) CR on U-SIG Part 2 Alice Chen

Discussions:

C: Regarding B2 of U-SIG2, I want to refer it to note instead of STA-ID

A: Okay

C: There is no definition about a number of receivers in ELR

A: ELR is an SU transmission. How about it change with a number of users?

C: Can you defer two CID for offline discussion more?

A: Sure

1. [25/0550r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0550-00-00bn-cc50-cr-for-38-3-15-11-3-uhr-ltf-for-elr-ppdu.docx) CR for 38.3.15.11.3 Dongguk Lim

Discussions:

C: How to apply the two different matrices ( P and R)?

A: It is included in the A matrix. It is the first row and column of this matrix.

C: It is the same value.

SP: Do you agree to accept the proposed resolution of the following 12CIDs as proposed in document 25/0550r0?

* 1643, 599, 949, 1962, 2312, 1961, 600, 1178, 343, 1179, 2313, 2780.

Results: No objection

1. [25/0548r](https://mentor.ieee.org/802.11/dcn/25/11-25-0550-00-00bn-cc50-cr-for-38-3-15-11-3-uhr-ltf-for-elr-ppdu.docx)1 CR for 38.3.15.11.3 Dongguk Lim

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 12CIDs as proposed in document 25/0548r1?

* 1631

Note: CID 1631 is the deferred CID from 25/548r0 presented in last PHY adhoc call.

Results: No objection

**Adjourn**

The meeting is Adjourned at 20:50pm ET.

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

**Introduction**

1. The Chair (Tianyu, Apple) calls the meeting to order at 19:00pm ET.
2. The Chair follows the agenda in 11-25/0504r7.
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. [25/0603r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0566-00-00bn-pdt-mac-on-seamless-roaming-part-1.docx) CC50 CR on U-SIG Part 3 Alice Chen [18C]
     2. [25/0556r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0556-00-00bn-cc50-editorial-comments-part-2.docx) CC50 editorial comments part 2 Ross Jian Yu [17C]
     3. [25/0608r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0608-00-00bn-cr-phy-cc50-cids-in-subclause-38-3-15-12-elr-sig-part2.docx) CR-PHY-cc50-CIDs\_in\_subclause\_38.3.15.12\_ELR-SIG-part2 Juan Fang [11C]
     4. [25/0623r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0623-00-00bn-cr-phy-cc50-cids-in-subclause-38-3-15-2-1-cyclic-shift-for-pre-uhr-modulated-fields-cid-1345-2443.docx) CR-PHY-cc50-CIDs\_in 38.3.15.2.1\_CID\_1345\_2443 Juan Fang [2C]
     5. [25/0585r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0585-00-00bn-cr-phy-cc50-cids-in-subclause-38-3-25-receiver-specification.docx) CR-PHY-cc50-CIDs\_in \_38.3.25\_RX\_specification Juan Fang [6C]
     6. [25/0570r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0570-00-00bn-cc50-cr-for-38-3-4-transmission-of-dru.docx) CC50 CR for 38.3.4 Transmission of DRU Eunsung Park [18C]

**Attendance**

TGbn (PHY)  04/10/2025               Wu, Tianyu                                         Apple Inc.  
TGbn (PHY)  04/10/2025                Wu, Kanke                                         Apple Inc.  
TGbn (PHY)  04/10/2025                Wei, Dong  Guangdong OPPO Mobile Telecommunications Corp....  
TGbn (PHY)  04/10/2025               Wang, Ying                                 InterDigital, Inc.  
TGbn (PHY)  04/10/2025                  Sun, Bo                     Sanechips Technology Co., Ltd.  
TGbn (PHY)  04/10/2025          Strobel, Rainer                                          Maxlinear  
TGbn (PHY)  04/10/2025                Zhou, Lei                      H3C Technologies Co., Limited  
TGbn (PHY)  04/10/2025                Zhong, Ke                          Ruijie Networks Co., Ltd.  
TGbn (PHY)  04/10/2025              Zhao, Xuwen                                                TCL  
TGbn (PHY)  04/10/2025             Zhang, Jiayi                                             Ofinno  
TGbn (PHY)  04/10/2025     Schelstraete, Sigurd                                          MaxLinear  
TGbn (PHY)  04/10/2025               Jee, Anand                                SAMSUNG ELECTRONICS  
TGbn (PHY)  04/10/2025           Kamel, Mahmoud                                  Interdigital Inc.  
TGbn (PHY)  04/10/2025              Kim, Youhan                        Qualcomm Technologies, Inc.  
TGbn (PHY)  04/10/2025             Asai, Yusuke                                                NTT  
TGbn (PHY)  04/10/2025            feng, Shuling                                      MediaTek Inc.  
TGbn (PHY)  04/10/2025              Cho, Hangyu                                     LG ELECTRONICS  
TGbn (PHY)  04/10/2025                 Chen, Xu                    Xiaomi Communications Co., Ltd.  
TGbn (PHY)  04/10/2025             Choi, Jinsoo                                     LG ELECTRONICS  
TGbn (PHY)  04/10/2025         Deshmukh, Mrugen                                       InterDigital  
TGbn (PHY)  04/10/2025               Fang, Juan                                  Intel Corporation  
TGbn (PHY)  04/10/2025              Bai, Jiyang                                                TCL  
TGbn (PHY)  04/10/2025              Li, Jialing  Qualcomm Incorporated; Qualcomm Technologies, Inc  
TGbn (PHY)  04/10/2025            Park, Eunsung                                     LG ELECTRONICS  
TGbn (PHY)  04/10/2025             Sadiq, Bilal                           Samsung Research America  
TGbn (PHY)  04/10/2025           Sahyoun, Walaa                       Canon Research Centre France  
TGbn (PHY)  04/10/2025              Luo, Sixian                                  SHARP CORPORATION  
TGbn (PHY)  04/10/2025             LIU, QINGLAI                     Panasonic Holdings Corporation  
TGbn (PHY)  04/10/2025                 Li, Yapu  Guangdong OPPO Mobile Telecommunications Corp....  
TGbn (PHY)  04/10/2025            Lim, Dong Guk                                     LG ELECTRONICS

1. [25/0603r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0566-00-00bn-pdt-mac-on-seamless-roaming-part-1.docx) CC50 CR on U-SIG Part 3 Alice Chen

Discussions:

C: To make clear, could you change EHT to EHT PPDU?

A: It is a PHY version identifier.

C: Can you clarify where to add the blank? And the table number is different from D0.1.

A: The table number came from D0.2

SP: Do you agree to accept the proposed resolution of the following 18 CIDs as proposed in document 25/0603r0?

* CID: 2, 3, 83, 314, 316, 317, 585, 586, 1157, 1158, 1159, 1160, 1347, 1587, 2701, 2828, 3303, 3305
* Note: The changes are based on 11bn D0.2

Results: No Objection.

1. [25/0556r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0556-00-00bn-cc50-editorial-comments-part-2.docx) CC50 editorial comments part 2 Ross Jian Yu

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 17 CIDs as proposed in document 25/0556r1?

* CID: 1675, 1676, 1677, 1678, 1679, 1979, 1980, 2547, 2826, 2829, 2835, 2853, 2910, 2911, 2917, 2918, 2957

Results: No Objection.

1. [25/0608r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0608-00-00bn-cr-phy-cc50-cids-in-subclause-38-3-15-12-elr-sig-part2.docx) CR-PHY-cc50-CIDs\_in\_subclause\_38.3.15.12\_ELR-SIG-part2 Juan Fang

Discussions:

C: The same proposed change is adapted to some CID. And, could you delete the No change is needed in the resoulution

A: Okay.

C: "aPPDUMax-Time" should be "aPPDUMaxTime". Remove the hyphen

A: Okay

C: This equation is very hard to understand. So, could you use the legacy style?

A: This style equation is used in 11be.

SP: Do you agree to accept the proposed resolution of the following 11 CIDs as proposed in document 25/0608r2?

* CID: 1762, 2316, 2317, 2319, 2787, 29, 1357, 2788, 30, 1183, 2322

Results: No Objection.

1. [25/0623r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0623-00-00bn-cr-phy-cc50-cids-in-subclause-38-3-15-2-1-cyclic-shift-for-pre-uhr-modulated-fields-cid-1345-2443.docx) CR-PHY-cc50-CIDs\_in 38.3.15.2.1\_CID\_1345\_2443 Juan Fang

Discussions: None

SP: Do you agree to accept the proposed resolution of the following 2CIDs as proposed in document 25/0623r1?

* CID: 1345, 2443

Results: No Objection.

1. [25/0585r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0585-00-00bn-cr-phy-cc50-cids-in-subclause-38-3-25-receiver-specification.docx) CR-PHY-cc50-CIDs\_in \_38.3.25\_RX\_specification Juan Fang

Discussions:

C: The resolution should be “ Revised”, not Accepted even though it was already adapted in D0.2.

A: Okay

C: Could you change the " Field " to lowercase?

A: Okay

SP: Do you agree to accept the proposed resolution of the following 6CIDs as proposed in document 25/0585r1?

* CID: 610, 958, 960, 1194, 3247, 3248

Results: No Objection

1. [25/0570r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0570-00-00bn-cc50-cr-for-38-3-4-transmission-of-dru.docx) CC50 CR for 38.3.4 Transmission of DRU Eunsung Park

Discussions:

C: It is better to change “ OFDMA UHR TB PPDU” with “UL OFDMA Transmission”

A: Okay

C: The middle of 40MHz is not allowed for DRU in 80MHz. Is it right? And it is not clear whether the new sentence includes it.

A: Yes, since we don’t define the middle 40MHz, the middle of 40MHz is disallowed.

C: I would like to keep the original text, and it is changed from "preamble puncturing" to "unallocated"

A: How about you add the table for each DBW case and delete the text??

SP: Do you agree to accept the proposed resolution of the following 10CIDs as proposed in document 25/0570r1?

* CID: 306, 1020, 1771, 1772, 2176, 2177, 2258, 2706, 2723, 2724
* Note: CID 574, 889, 2259, 2261, 2262, 2263, 2265, 2689 are deferred.

Results: No Objection

**Adjourn**

The meeting is Adjourned at 11:55am ET.

# Monday April 14th, 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 11-25/0504r8.
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. [25/0601r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0601-01-00bn-crs-on-elr-mark-section.docx) CRs on ELR Mark section Rethna Pulikkoonattu [14C]
     2. [25/0602r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0602-00-00bn-crs-on-uhr-ldpc.docx) CRs on UHR LDPC Rethna Pulikkoonattu [31C]
     3. [25/0612r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0612-00-00bn-cc50-cr-for-60-mhz-dru-tone-plan.docx) CR for 60 MHz DRU Tone Plan Eunsung Park [4C]
     4. [25/0643r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0643-00-00bn-cr-phy-for-elr-introduction-and-requirement.docx) CR PHY for ELR Intro. and Requirement Wook Bong Lee [7C]
     5. 25/0644r0 Miscellaneous PHY CIDs Youhan Kim [4C]

**Attendance**

**CR/PDT Submissions**

1. [25/0612r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0612-00-00bn-cc50-cr-for-60-mhz-dru-tone-plan.docx) CR for 60 MHz DRU Tone Plan Eunsung Park

Discussions:None

SP: Do you agree to accept the proposed resolution of the following 4CIDs as proposed in document 25/0612r0?

* CID: 1123, 1124, 2260, 2264

Results: No Objection.

1. [25/0643r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0643-00-00bn-cr-phy-for-elr-introduction-and-requirement.docx) CR PHY for ELR Intro. and Requirement Wook Bong Lee

Discussions:

C: “ Should’ in the Note should be changed with other word

A: Okay.

C: We didn’t check the CFO checks right after L-STF

A: In order to meet the requirements or the non-HT response requirement, we need to meet the 2 kHz.

C: Can you clarify why pre-correction is after L-STF?

A: If you measure after U-SIG, you cannot guarantee. I mean the fifteen kHz error at the L-STF, so we need to pre-correct at the L-STF.

SP: Do you agree to accept the proposed resolution of the following 7CIDs as proposed in document 25/0643r2?

* CID: 356, 357, 2180, 3300, 3562, 3566, 3671

Results: No Objection.

1. 25/0644r1 Miscellaneous PHY CIDs Youhan Kim

Discussions:

C: Regarding non-ht duplicate transmission of UHR STA, it is the same with EHT STA. so, we don’t need to describe it as a new

A: Okay, I will revise it.

SP: Do you agree to accept the proposed resolution of the following 5CIDs as proposed in document 25/0644r2?

* 1653, 3371, 1661, 1662, 1630

Results: No Objection.

**Adjourn**

The meeting is Adjourned at 20:00pm ET.