IEEE P802.11
Wireless LANs

|  |
| --- |
| 802.11 bn PHY ad-hoc minutes Warsaw May 2025 Interim Meeting |
| Date: 28-May-25 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Sigurd Schelstraete | MaxLinear |  |  | sschelstraete@maxlinear.com |

Abstract

This document contains the meeting minutes for the TGbn PHY ad hoc sessions held during the May 2025 Warsaw Interim Meeting:

* Monday AM1, 5/12/2025
* Tuesday AM2, 5/13/2025
* Tuesday PM2, 5/13/2025
* Wednesday AM1, 5/14/2025
* Wednesday AM2, 5/14/2025
* Wednesday PM2, 5/14/2025
* Thursday AM1, 5/15/2025

## Monday May 12, 1:30-3:30 PM, CET

**Introduction**

1. The Chair (Dongguk Lim, LGE) calls the meeting to order at 01:30 CET.
2. The Chair follows the agenda in 11-25/**0568r3**.
3. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Tianyu Wu (Apple), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
4. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
5. The Chair goes through the Copyright policy.
6. Agenda

**Straw Polls**

* + [25/0602r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0602-02-00bn-crs-on-uhr-ldpc.docx) CRs on UHR LDPC Rethna Pulikkoonattu [31C-SP]
	+ [25/0659r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0659-00-00bn-cc50-cr-for-38-3-10-12-2-elr-ppdu.docx) CC50 CR for 38.3.10.12.2 ELR PPDU Dongguk Lim [8C-SP]
	+ [25/0672r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0672-01-00bn-cr-for-cc50-on-subclause-38-3-10.docx) CR for CC50 on Subclause 38.3.10 Junghoon Suh [24C-SP]
	+ [25/0682r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0682-00-00bn-crs-for-subclause-38-3-22-part-2.docx) CRs for subclause 38.3.22 Part 2 You-Wei Chen [1C-SP]
	+ [25/0696r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0696-02-00bn-uhr-rx-procedure.docx) PDT-UHR receive procedure Xiaogang Chen [PDT-SP]
	+ [25/0702r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0702-00-00bn-cr-phy-cid-3905.docx) CR-PHY-CID 3905 Ron Porat [1C-SP]
	+ [25/0701r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0701-02-00bn-pdt-phy-mu-mimo.docx) PDT-PHY-MU-MIMO Ron Porat [PDT-SP]
	+ [25/0711r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0711-00-00bn-cc50-section-38-3-1-phyintro-cid.docx) CC50 Section 38.3.1 phyintro CID Eugene Baik [1C-SP]

**Submissions**

* + [25/0687](https://mentor.ieee.org/802.11/dcn/25/11-25-0687-00-00bn-spatial-reuse-discussion-in-802-11bn.pptx) Spatial Reuse discussion in 802.11bn Juan Fang [CR-Dep]
	+ [25/0843](https://mentor.ieee.org/802.11/dcn/25/11-25-0843-00-00bn-transmit-constellation-error-definition-for-uhr-rru-tb-ppdu.pptx) TX Const. Error Definition for UHR RRU TB PPDU Ying Liu [CR-Dep]

**PDTs/CRs**

* + [25/0679r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0679-01-00bn-cr-cc50-subclause-38-3-15-9-3.docx) CR CC50 Subclause 38.3.15.9.3 Genadiy Tsodik [14C]
	+ [25/0678r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0678-01-00bn-cr-cc50-subclause-38-3-15-9-6-part1.docx) CR CC50 Subclause 38.3.15.9.6 Part1 Genadiy Tsodik [22C]
	+ [25/0677r1](https://mentor.ieee.org/802.11/dcn/25/11-25-0677-01-00bn-cr-cc50-subclause-38-3-23-transmit-specification.docx) CR CC50 Subclause 38.3.23 TX Spec Genadiy Tsodik [3C]
	+ [24/2021r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2021-00-00bn-pdt-phy-transmit-specification.docx) PDT PHY Transmit Specification Genadiy Tsodik [PDT]

**Straw Polls**

These straw polls were deferred from the last conference call (May 1st, 2025)

SP1:

Do you agree to accept the proposed resolution of the following 29CIDs as proposed in document 25/0602r2?

* CID: 62, 63, 64, 182, 210, 272, 549, 951, 963, 1080, 1126, 1334, 2065, 2066, 2266, 2267, 2268, 2350, 2439, 2756, 2757, 2758, 2759, 2760, 2761, 3298, 3299, 3540, 3547

Results: No objection.

SP2:

Do you agree to accept the proposed resolution of the following 8CIDs as proposed in document 25/0659r0?

* CID: 1146, 1147, 2768, 1148, 931, 2275, 28, 761

Results: No objection.

SP3:

Do you agree to accept the proposed resolution of the following 24CIDs as proposed in document 25/0672r3?

* CID: 27, 581, 582, 947, 948, 1086, 1087, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1341, 1899, 1975, 2274, 2765, 2766, 2767, 3241, 3242

Results: No objection.

SP4:

Do you agree to accept the proposed resolution of the following 1CID as proposed in document 25/0682r0?

* CID: 3751

Results: No objection.

SP5:

Do you agree to incorporate the text proposed in document 25/0696r2 into the next version of the 802.11bn Draft?

Results: No objection.

SP6:

Do you agree to accept the proposed resolution of the following 1CIDs as proposed in document 25/0702r0?

* CID: 3905
* Results: No objection.

SP7:

Do you agree to incorporate the text proposed in document 25/0701r2 into the next version of the 802.11bn Draft?

* Results: No objection.

SP8:

Do you agree to accept the proposed resolution of the following 1CID as proposed in document 25/0711r0?

* CID: 1617
* Results: No objection.

**Submissions**

**25/0687 Spatial Reuse discussion in 802.11bn (Juan Fang)**

SP9:

Do you agree to include the following into the 11bn SFD?

 Remove the “TBD” in the current “spatial reuse” subfield in UHR-SIG of UHR MU PPDU, U-SIG of UHR TB PPDU, Common Info and Special User Info Field of the trigger frame.

Note: Remove the “TBD” means SR subfield will be kept the same as that in EHT.

* Results: No objection.

SP10:

Do you agree to include the following into the 11bn SFD?

 Add the following paragraph in 11bn OBSS PD-based Spatial reuse operation subclause:

 A UHR STA follows the rules defined in 35.10.2 (OBSS PD-based spatial reuse operation), except that the condition 5 defined in 26.10.2.2 (General operation with non-SRG OBSS PD level) is updated as follows:

1. The received PPDU is one of the following:
	* For non-EHT PPDU, the SPATIAL\_REUSE subfield (if present) is not set to PSR\_AND\_NON\_SRG\_OBSS\_PD\_PROHIBITED.
	* For other PPDUs, the SPATIAL\_REUSE subfield is present and is not set to PSR\_AND\_NON\_SRG\_OBSS\_PD\_PROHIBITED.

NOTE — As a result, a UHR STA is not allowed to use OBSS PD-based spatial reuse when the received PPDU is a UHR ELR PPDU or a value of PHY Version Identifier field in U-SIG is one of Validate values.

* Results: No objection.

SP11:

Do you agree to add the non-EHT PPDU definition in 11bn as following?

non-extremely-high-throughput (non-EHT) physical layer (PHY) protocol data unit (PPDU):[non-EHT PPDU] A PPDU that is transmitted using a PPDU format defined in Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications), Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification), Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification), Clause 18 (Extended Rate PHY (ERP) specification), Clause 19 (High Throughput (HT) PHY specification(#2297)), Clause 21 (Very high throughput (VHT) PHY specification) or Clause 27 (High Efficiency (HE) PHY specification).

* Results: No objection.

SP12:

**Do you agree to include the following into the 11bn SFD?**

* A UHR STA shall set the Spatial Reuse subfield to ‘PSR\_AND\_NON\_SRG\_OBSS\_PD\_PROHIBITED’ in the Co-SR transmission
* Results: No objection.

**25/0843r0 TX Const. Error Definition for UHR RRU TB PPDU (Ying Liu)**

SP13:

**Do you agree to add the following to 11bn SFD?**

The definition for the transmit constellation error in an UHR TB PPDU using RRU:

* Transmit Constellation Error requirement of UHR TB PPDU using RRU for MCS0-15 follows the same definition as in EHT.
* Transmit Constellation Error requirement for TB PPDU using RRU for the new MCSs (QPSK 2/3, 16QAM 2/3, 16QAM 5/6 and 256QAM 2/3) is:



* Results: No objection.

SP14:

**Do you agree to add the following to 11bn SFD?**

The unused tone EVM definition and requirement of UHR TB PPDU when all users are scheduled with RRU is the same as in EHT TB PPDU.

* Results: No objection.

**PDTs/CRs**

**25/0679r1 CR CC50 Subclause 38.3.15.9.3 (Genadiy Tsodik)**

SP15: Do you agree to accept the proposed resolution of the following 14 CIDs as proposed in document 25/0679r2?

* CID: 324, 325, 326, 364, 942, 1636, 2288, 3306, 3307, 3497, 3498, 3499, 3500, 3745
* Results: No objection.

**25/0678r2 CR CC50 Subclause 38.3.15.9.6 Part1 (Genadiy Tsodik)**

SP16: Do you agree to accept the proposed resolution of the following 22 CIDs as proposed in document 25/0678r2?

* CID: 41, 42, 43, 44, 45, 46, 332, 377, 441, 1094, 1170, 1639, 1640, 1956, 2296, 2297, 2298, 3244, 3311, 3502, 3503, 3504
* Results: No objection.

**25/0677r1 CR CC50 Subclause 38.3.23 TX Spec (Genadiy Tsodik)**

SP17:

Do you agree to accept the proposed resolution of the following 3 CIDs as proposed in document 25/0677r1?

* CID: 953, 954, 1656
* Results: No objection.

**24/2021r0 PDT PHY Transmit Specification (Genadiy Tsodik)**

SP18:

Do you agree to incorporate the text proposed in document 24/2021r1 into the next version of the 802.11bn Draft?

* Results: No objection.

**Recess**

The meeting is recessed at 15:30 CET.

## Tuesday May 13, 10:30-12:30, CET

**Introduction**

1. The Chair (Dongguk Lim, LGE) calls the meeting to order at 10:30am CET.
2. The Chair follows the agenda in 11-25/**0568r5**.
3. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Tianyu Wu (Apple), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
4. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
5. The Chair goes through the Copyright policy.
6. Agenda

**PDTs/CRs –**

* + [25/0670](https://mentor.ieee.org/802.11/dcn/25/11-25-0670-00-00bn-cc50-cr-on-u-sig-part-4.docx) CC50 CR on U-SIG Part 4 Alice Chen [4C-SP]
	+ [25/0703r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0703-00-00bn-cc50-comment-resolutions-for-38-3-21-coordinated-beamforming.docx) CRs for 38.3.21 Coordinated Beamforming Insik Jung [4C]
	+ [25/0712r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0712-00-00bn-cc50-section-9-4-2-aa2-3-phycap-cids.docx) CC50 Section 9.4.2.aa2.3 PHYcap CIDs Eugene Baik [6C]
	+ [25/0750r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0750-00-00bn-resolutions-for-cids-in-38-3-2-2.docx) Resolutions for CIDs in 38.3.2.2 Jianhan Liu [22C]
	+ [25/0612](https://mentor.ieee.org/802.11/dcn/25/11-25-0612-01-00bn-cc50-cr-for-60-mhz-dru-tone-plan.docx)CC50 CR for 60 MHz DRU Tone Plan Eunsung Park [4 CID]
	+ [25/0732r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0732-00-00bn-cc50-crs-related-to-tone-plan-for-drus.docx) CRs Related to Tone Plan for DRUs Julia Feng [22C]

**PDTs/CRs**

**25/0670 CC50 CR on U-SIG Part 4 (Alice Chen)**

SP1: Do you agree to accept the proposed resolution of the following 4 CIDs as proposed in document 25/0670r0?

* CID: 320, 1348, 1634, 3133
* Results: No objection.

**25/0703r0 CRs for 38.3.21 Coordinated Beamforming (Insik Jung)**

SP2: Do you agree to accept the proposed resolution of the following 4 CIDs as proposed in document 25/0703r2?

* CID: 355, 1948, 1949, 1950
* Results: No objection.

**25/0712r0 CC50 Section 9.4.2.aa2.3 PHYcap CIDs (Eugene Baik)**

SP3: Do you agree to accept the proposed resolution of the following 6 CIDs as proposed in document 25/0712r2?

* CID: 284, 1612, 2955, 2956, 3526, 3708
* Results: No objection.

**25/0750r0 Resolutions for CIDs in 38.3.2.2 (Jianhan Liu)**

SP4: Do you agree to accept the proposed resolution of the following 21 CIDs as proposed in document 25/0750r1?

* CID: 301, 302, 303, 304, 448, 449, 450, 451, 1331, 1332, 1333, 1900, 2253, 2650, 2754, 3418, 3518, 3519, 3669, 3670, 3731
* Results: No objection.

Note: removed 1 CID (1330)

**25/0612r1 CC50 CR for 60 MHz DRU Tone Plan (Eunsung Park)**

SP5: Do you agree to accept the proposed resolution of the following 4 CIDs as proposed in document 25/0612r1?

* CID: 1123 1124 2260 2264
* Results: No objection.

**25/0732r0 CRs Related to Tone Plan for DRUs (Julia Feng)**

SP6: Do you agree to accept the proposed resolution of the following 49 CIDs as proposed in document 25/0732r2?

* CID: 3230, 674, 2063, 3231, 1895, 2796, 1896, 2554, 2795, 3232, 1974, 2064, 2810, 3233, 2555, 2556, 1897, 206, 1618, 2811, 124, 2797, 2750, 2705, 3234, 2798, 1958, 1959, 1119, 1120, 945, 3128, 1473, 1474, 2752, 2721, 2805, 2806, 2807, 2566, 1, 1584, 2642, 3235, 3236, 1583, 2563, 2751, 3744
* Results: No objection.

**25/0754r0 PDT PHY OFDM Modulation (Youhan Kim)**

SP7: Do you agree to incorporate the text proposed in document 25/754r3 into the next version of the 802.11bn Draft?

* Results: No objection.

**25/0615r0 CC50 CR on Timing-Related Parameters (Rani Keren)**

SP8: Do you agree to accept the proposed resolution of the following 18 CIDs as proposed in document 25/0615r0?

* CID: 583, 933, 1152, 1153, 1343, 1344, 1838, 2068, 2279, 2280, 2281, 2282, 2727, 2770, 2771, 3301, 3548, 3557
* Results: No objection.

**Recess**

The meeting is recessed at 12:30 CET.

## Tuesday May 13, 16:00-18:00, CET

**Introduction**

1. The Chair (Dongguk Lim, LGE) calls the meeting to order at 16:00 ET.
2. The Chair follows the agenda in 11-25/**0568r5**.
3. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Tianyu Wu (Apple), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
4. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
5. The Chair goes through the Copyright policy.
6. Agenda

**PDTs/CRs –**

* + [25/0732r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0732-00-00bn-cc50-crs-related-to-tone-plan-for-drus.docx) CRs Related to Tone Plan for DRUs Julia Feng [22C]
	+ [25/0754r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0754-00-00bn-pdt-phy-ofdm-modulation.docx) PDT PHY OFDM Modulation Youhan Kim [PDT]
	+ [25/0615r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0615-00-00bn-cc50-cr-on-timing-related-parameters.docx) CC50 CR on Timing-Related Parameters Rani Keren [18C]
	+ [25/0731](https://mentor.ieee.org/802.11/dcn/25/11-25-0731-01-00bn-cr-for-38-3-15-9-6-user-specific-field-part-2-on-p802-11bn-d0-2.docx) CR for 38.3.15.9.6 User Specific Field - Part 2 on P802.11bn D0.2 Oded Redlich [13 CID]

**Submissions – Interference Mitigation**

**PDTs/CRs**

SP1:

Do you agree to accept the proposed resolution of the following 49 CIDs as proposed in document 25/0732r2?

* CID: 3230, 674, 2063, 3231, 1895, 2796, 1896, 2554, 2795, 3232, 1974, 2064, 2810, 3233, 2555, 2556, 1897, 206, 1618, 2811, 124, 2797, 2750, 2705, 3234, 2798, 1958, 1959, 1119, 1120, 945, 3128, 1473, 1474, 2752, 2721, 2805, 2806, 2807, 2566, 1, 1584, 2642, 3235, 3236, 1583, 2563, 2751, 3744
* No objection.

SP2:

Do you agree to incorporate the text proposed in document 25/754r3 into the next version of the 802.11bn Draft?

* No objection.

**25/0615r0 CC50 CR on Timing-Related Parameters (Rani Keren)**

SP3:

Do you agree to accept the proposed resolution of the following 18 CIDs as proposed in document 25/0615r0?

* CID: 583, 933, 1152, 1153, 1343, 1344, 1838, 2068, 2279, 2280, 2281, 2282, 2727, 2770, 2771, 3301, 3548, 3557
* No objection.

**25/0731 CR for 38.3.15.9.6 User Specific Field - Part 2 on P802.11bn D0.2 (Oded Redlic)**

SP4: Do you agree to accept the proposed resolution of the following 14 CIDs as proposed in document 25/0731r3?

* CID: 331, 333, 371, 3310, 1206, 1093, 1169, 1355, 2071, 2295, 3538, 551, 2182, 3539\
* No objection.

**Recess**

The meeting is recessed at 18:00 CET.

## Wednesday May 14, 8:00-10:00, CET

**Introduction**

1. The Chair (Dongguk Lim, LGE) calls the meeting to order at 08:00 CET.
2. The Chair follows the agenda in 11-25/**0568r6**.
3. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Tianyu Wu (Apple), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
4. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
5. The Chair goes through the Copyright policy.
6. Agenda

**PDTs/CRs –**

* + [25/0846](https://mentor.ieee.org/802.11/dcn/25/11-25-0846-00-00bn-comment-resolution-for-38-3-11-mcs-ueqm.docx) Comment resolution for 38.3.11 (MCS and UEQM) Rui Cao [22 CID]
	+ [25/0855](https://mentor.ieee.org/802.11/dcn/25/11-25-0855-00-00bn-comment-resolution-for-38-5-parameters-of-uhr-mcs.docx) Comment resolution for 38.5 (Parameters for UHR-MCS) Rui Cao [13 CID]
	+ [25/0884](https://mentor.ieee.org/802.11/dcn/25/11-25-0884-01-00bn-cc50-cr-for-subclauses-38-3-9-and-38-3-8.docx) PDT PHY Subclauses 38.3.9 and 38.3.8 Yusuke Asai [55 CID]
	+ [25/0844](https://mentor.ieee.org/802.11/dcn/25/11-25-0844-00-00bn-pdt-transmit-constellation-error-definition-for-uhr-rru-tb-ppdu.docx) PDT- Transmit Constellation Error Definition for UHR RRU TB PPDU Ying Liu [?? CID]
	+ [25/0902](https://mentor.ieee.org/802.11/dcn/25/11-25-0902-00-00bn-cr-for-subclause-38-3-2-2-2.docx) cr-for-subclause-38.3.2.2.2 Bo Gong [?? CID]
	+ [25/0914](https://mentor.ieee.org/802.11/dcn/25/11-25-0914-00-00bn-cc50-cr-on-dru-definition-of-distribution-bandwidth.docx) CC50 CR on DRU - Definition of Distribution Bandwidth Mahmoud Kamel [5 CID]
	+ [25/0886](https://mentor.ieee.org/802.11/dcn/25/11-25-0886-00-00bn-cc50-cr-for-dru-dcm.docx) CC50 CR for DRU DCM Mengshi Hu [1 CID]
	+ [25/0804](https://mentor.ieee.org/802.11/dcn/25/11-25-0804-00-00bn-cc50-cr-for-37-6-nominal-packet-padding-values-selection-rules.docx) CC50 CR for 37.6 Nominal Packet Padding Values Selection Rules Mengshi Hu [1 CID]

**Submissions – CAD (next revision (if any) in Joint) and CR Dependencies**

* + [25/0726](https://mentor.ieee.org/802.11/dcn/25/11-25-0726-00-00bn-transmit-and-receive-specifications-for-new-mcs-follow-up.pptx) Transmit and Receive Specifications for New MCS Follow-Up Alice Chen [CR-Dep]

**PDT/CR**

**25/0846 Comment resolution for 38.3.11 (MCS and UEQM) Rui Cao**

SP1:

Do you agree to accept the proposed resolution of the following 22 CIDs as proposed in document 25/0846r1?

* CID: 65, 1088, 1149, 66, 1150, 1585, 2276, 67, 309, 1089, 1151, 1342, 1586, 2067, 2278, 2277, 68, 3505, 3551, 932, 2769, 3243
* Results: No objection.

**25/0855 Comment resolution for 38.5 (Parameters for UHR-MCS) Rui Cao**

SP2: Do you agree to accept the proposed resolution of the following 13 CIDs as proposed in document 25/0855r0?

* CID: 359, 80, 378, 379, 1100, 1195, 1664, 2338, 81, 379, 358, 361, 3707
* Results: No objection.

**25/0884 PDT PHY Subclauses 38.3.9 and 38.3.8 Yusuke Asai**

* SP Deferred

**25/0844 PDT- Transmit Constellation Error Definition for UHR RRU TB PPDU Ying Liu**

SP3:

Do you agree to accept the proposed resolution of the following 1 CID as proposed in document 25/0844r0?

* CID: 2034
* Results: No objection.

**25/0902 cr-for-subclause-38.3.2.2.2 Bo Gong**

SP4:

Do you agree to accept the proposed resolution of the following 5 CIDs as proposed in document 25/0902r1?

* CID: 178, 1121, 1670, 1960, 2722
* Results: No objection.

SP5:

Do you agree to incorporate the text proposed in document 25/0844r0 into the next version of the 802.11bn Draft?

* Results: No objection.

**25/0914 CC50 CR on DRU - Definition of Distribution Bandwidth Mahmoud Kamel**

SP6:

Do you agree to accept the proposed resolution of the following 5 CIDs as proposed in document 25/0914r1?

* CID: 296, 926, 1021, 2172, 2800
* Results: No objection.

**25/0886 CC50 CR for DRU DCM Mengshi Hu**

SP7:

Do you agree to accept the proposed resolution of the following 1 CID as proposed in document 25/0886r0?

* CID: 2036
* Results: No objection.

**25/0804 CC50 CR for 37.6 Nominal Packet Padding Values Selection Rules Mengshi Hu**

SP87:

Do you agree to accept the proposed resolution of the following 1 CID as proposed in document 25/0804r0?

* CID: 2034
* Results: No objection.

**Submissions**

**25/0726 Transmit and Receive Specifications for New MCS Follow-Up Alice Chen**

No discussion

**Recess**

Meeting recessed at 10:00 AM CET

## Wednesday May 14, 10:30-12:30, CET

**Introduction**

1. The Chair (Dongguk Lim, LGE) calls the meeting to order at 10:30 CET.
2. The Chair follows the agenda in 11-25/**0568r6**.
3. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Tianyu Wu (Apple), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
4. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
5. The Chair goes through the Copyright policy.
6. Agenda

**PDTs/CRs**

* + [25/0725](https://mentor.ieee.org/802.11/dcn/25/11-25-0725-01-00bn-cc50-cr-for-uhr-sig-user-specific-field-part-1.docx) CC50 CR for UHR-SIG User Specific Field - Part 1 Mengshi Hu [26 CID]
	+ [25/0686](https://mentor.ieee.org/802.11/dcn/25/11-25-0686-00-00bn-cc50-cr-for-common-field-for-non-ofdma-transmission-and-co-bf-transmission.docx) CC50 CR for Common Field for Non-OFDMA TX and Co-BF TX Mengshi Hu [11 CID]
	+ [25/0778](https://mentor.ieee.org/802.11/dcn/25/11-25-0778-00-00bn-cr-phy-cc50-cids-in-subclause-38-3-19-transmit-requirements-for-ppdus-sent-in-response-to-a-triggering-frame-part2.docx) CR-PHY CIDs\_in 38.3.19 - part2 Juan Fang [5 CID]
	+ [25/0721](https://mentor.ieee.org/802.11/dcn/25/11-25-0721-00-00bn-uhr-transmit-and-receiver-specification-for-new-mcss-follow-up.pptx) UHR Transmit and Receiver Specification for New MCSs- Follow Up Juan Fang [CR-Dep]
	+ [25/0777](https://mentor.ieee.org/802.11/dcn/25/11-25-0777-00-00bn-cr-phy-cc50-cids-in-subclause-38-3-25-receiver-specification-part2.docx) CR-PHY-cc50-CIDs in 38.3.25 Receiver specification\_part2 Juan Fang [7 CID]
	+ [25/0919](https://mentor.ieee.org/802.11/dcn/25/11-25-0919-00-00bn-cc50-cid-resolutions-for-section-38-3-10.docx) CC50 CID resolutions for Section 38.3.10 Bin Tian [2 CID]
	+ [25/0881](https://mentor.ieee.org/802.11/dcn/25/11-25-0881-00-00bn-cc50-cid-resolutions-for-section-38-1-part-3.docx) CC50 CID Resolutions for Section 38.1 Part 3 Bin Tian [12 CID]
	+ [25/0927](https://mentor.ieee.org/802.11/dcn/25/11-25-0927-00-00bn-cc50-cr-on-dru-in-38-3-2-1-group-2.docx) CC50 CR on DRU in 38.3.2.1 - Group 2 Mahmoud Kamel [13 CID]

**PDT/CR**

**25/0725 CC50 CR for UHR-SIG User Specific Field - Part 1 (Mengshi Hu)**

SP1:

Do you agree to accept the proposed resolution of the following 27 CIDs as proposed in document 25/0725r4?

* CID: 327, 52, 1976, 1977, 1978, 2775, 3536, 36, 116, 130, 1166, 1062, 1352, 2070, 2776, 3308, 3537, 328, 329, 376, 1091, 1167, 1589, 2290, 2291, 3309, 3501
* Results: No objection.

**25/0686 CC50 CR for Common Field for Non-OFDMA TX and Co-BF TX Mengshi Hu**

SP2:

Do you agree to accept the proposed resolution of the following 11 CIDs as proposed in document 25/0686r0?

* CID: 114, 1350, 1351, 1588, 1637, 2181, 2289, 35, 440, 1638, 1955
* Results: No objection.

**25/0778 CR-PHY CIDs\_in 38.3.19 - part2 Juan Fang**

SP3:

Do you agree to accept the proposed resolution of the following 5 CIDs as proposed in document 25/0778r0?

* CID: 353, 354,905,1654, 3753
* Results: No objection.

**25/0721 UHR Transmit and Receiver Specification for New MCSs- Follow Up Juan Fang**

4SPs in [25/0721](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmentor.ieee.org%2F802.11%2Fdcn%2F25%2F11-25-0721-00-00bn-uhr-transmit-and-receiver-specification-for-new-mcss-follow-up.pptx&data=05%7C02%7Csschelstraete%40maxlinear.com%7C3ab6971f11e84421a92708dd92d389fb%7Cdac2800513e041b882807663835f2b1d%7C0%7C0%7C638828159471404027%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMiIsIkFOIjoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=2c13MpDkMMIVkXUkKSY5Sc3TiIKLabbHhLcBlZVmpE0%3D&reserved=0) are passed with No objection.

**25/0777 CR-PHY-cc50-CIDs in 38.3.25 Receiver specification\_part2 Juan Fang**

SP4:

Do you agree to accept the proposed resolution of the following 7 CIDs as proposed in document 25/0777r3?

* CID: 271, 956, 959, 1657, 1658, 3246, 3249
* Results: No objection.

**25/0919 CC50 CID resolutions for Section 38.3.10 Bin Tian**

SP5:

Do you agree to accept the proposed resolution of the following 2 CIDs as proposed in document 25/0919r0?

* CID:1625, 1626
* Results: No objection.

**25/0881 CC50 CID Resolutions for Section 38.1 Part 3 Bin Tian**

SP6:

Do you agree to accept the proposed resolution of the following 12 CIDs as proposed in document 25/0881r1?

* CID: 1471, 3226, 2047,2048,2237,2549,2559,2567,2568,2569,2717,3295
* Results: No objection.

**Recess**

Meeting was recessed at 12:30 CET

## Wednesday May 14, 16:00-18:00, CET

**Introduction**

1. The Chair (Dongguk Lim, LGE) calls the meeting to order at 16:00 CET.
2. The Chair follows the agenda in 11-25/**0568r6**.
3. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Tianyu Wu (Apple), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
4. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
5. The Chair goes through the Copyright policy.
6. Agenda

**PDTs/CRs –**

* + [25/0884](https://mentor.ieee.org/802.11/dcn/25/11-25-0884-02-00bn-cc50-cr-for-subclauses-38-3-9-and-38-3-8.docx) PDT PHY Subclauses 38.3.9 and 38.3.8 Yusuke Asai [55 CID SP]
	+ [25/0927](https://mentor.ieee.org/802.11/dcn/25/11-25-0927-01-00bn-cc50-cr-on-dru-in-38-3-2-1-group-2.docx) CC50 CR on DRU in 38.3.2.1 - Group 2 Mahmoud Kamel [13 CID SP]
	+ [25/0718](https://mentor.ieee.org/802.11/dcn/25/11-25-0718-00-00bn-cr-cc50-phy-service-interface.docx) cr-cc50-phy-service-interface Bo Sun [114 CID]

**PDTs/CRs**

**25/0884 PDT PHY Subclauses 38.3.9 and 38.3.8 Yusuke Asai**

SP1:

Do you agree to accept the proposed resolution of the following 55 CIDs as proposed in document 25/0884r3?

* CID: 2270, 125, 1335, 1128, 1336, 576, 1129, 1337, 2762, 126, 2271, 1130, 1930, 1081, 2440, 127, 1082, 1131, 1338, 1759, 2763, 1339, 1132, 929, 1340, 577, 578, 1083, 2272, 2764, 308, 2725, 1622, 1133, 3238, 930, 1134, 1135, 579, 2273, 580, 1084, 2726, 1623, 946, 3239, 3240, 1136, 1931, 2441, 1085, 26, 1137, 1932, 2442
* Results: No objection.

**25/0927 CC50 CR on DRU in 38.3.2.1 - Group 2 Mahmoud Kamel**

SP2:

Do you agree to accept the proposed resolution of the following 13 CIDs as proposed in document 25/0927r3?

* CID: 298, 3513, 3515, 3517, 446, 571, 2175, 299, 2174, 3274, 452, 447, 572
* Results: No objection.

**25/0718 cr-cc50-phy-service-interface Bo Sun**

SP3:

Do you agree to accept the proposed resolution of the following 114 CIDs as proposed in document 25/0718r2?

* CID: 1616, 2438, 3227, 137, 904, 2736, 3126, 1371, 1372, 2050, 315, 1760, 3304, 139, 1106, 1107, 1108, 2049, 2238, 2737, 2738, 3296, 3342, 3343, 3483, 3750, 140, 141, 292, 563, 564, 678, 924, 925, 1109, 1110, 1111, 1112, 2051, 2052, 2239, 2241, 2718, 2719, 2720, 2739, 2740, 3228, 3357, 3358, 3359, 3360, 3484, 177, 1073, 1074, 1075, 1581, 1901, 2053, 2054, 2055, 2056, 2057, 2240, 2741, 2742, 3229, 3485, 3486, 3487, 3488, 119, 120, 121, 293, 294, 1076, 1077, 1113, 1114, 1115, 1116, 1373, 1929, 2058, 2059, 2242, 2743, 3370, 3489, 3490, 3491, 3492, 3493, 3496, 565, 2060, 2744, 3297, 2745, 1078, 2061, 2243, 2746, 2747, 3494, 295, 1079, 2062, 2244, 2748, 2749, 3495
* Results: No objection.

**Recess**

The meeting is recessed at 18:00 CET.

## Thursday May 15, 8:00-10:00, CET

**Introduction**

1. The Chair (Dongguk Lim, LGE) calls the meeting to order at 08:00am CET.
2. The Chair follows the agenda in 11-25/**0568r7**.
3. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Tianyu Wu (Apple), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
4. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
5. The Chair goes through the Copyright policy.
6. Agenda
	* [25/0734](https://mentor.ieee.org/802.11/dcn/25/11-25-0734-00-00bn-misc-cbf-topics-part-ii.pptx) Misc. CBF Topics part II Ron Porat
	* [25/0793](https://mentor.ieee.org/802.11/dcn/25/11-25-0793-00-00bn-spatial-re-use-and-spatial-nulling-interference-cancellation-requirements.pptx) Spatial Re-Use and Spatial Nulling Interference Cancellation Requirements Rainer Strobel
	* [25/0834](https://mentor.ieee.org/802.11/dcn/25/11-25-0834-00-00bn-cfo-considerations-in-joint-sounding.pptx) Considerations in Joint Sounding Mario Costa
	* [25/0836](https://mentor.ieee.org/802.11/dcn/25/11-25-0836-00-00bn-follow-up-on-cfo-correction-for-cobf.pptx) Follow-up on CFO correction for COBF Sameer Vermani
	* [25/0842](https://mentor.ieee.org/802.11/dcn/25/11-25-0842-00-00bn-information-exchange-in-the-cobf-transmission-phase-follow-up.pptx) Information Exchange in the CoBF Transmission Phase follow-up Alice Chen
	* [25/0845](https://mentor.ieee.org/802.11/dcn/25/11-25-0845-00-00bn-cobf-nsym-field-definition.pptx) CoBF Nsym Field definition Rui Cao
	* [25/0851](https://mentor.ieee.org/802.11/dcn/25/11-25-0851-00-00bn-phy-version-indications-in-co-sr-transmissions.pptx) PHY Version indications in Co-SR transmissions Ross Jian Yu
	* [25/0869](https://mentor.ieee.org/802.11/dcn/25/11-25-0869-00-00bn-cosr-misc.pptx) COSR-Misc You-Wei Chen
	* [25/0872](https://mentor.ieee.org/802.11/dcn/25/11-25-0872-00-00bn-on-cobf-ap-s-carrier-synchronization-overhearing-csi-report-in-cobf-sounding.pptx) On CoBF AP’s Carrier Synch. Overhearing CSI Report in CoBF Sounding Julia Feng
	* [25/0704](https://mentor.ieee.org/802.11/dcn/25/11-25-0704-00-00bn-simultaneous-cobf-ack-transmission.pptx) Simultaneous CoBF ACK Transmission Genadiy Tsodik
	* [25/903r0](https://mentor.ieee.org/802.11/dcn/25/11-25-0903-00-00bn-concurrent-ack-to-cobf-ppdu.pptx) Concurrent Ack to CoBF PPDU Junghoon Suh
	* [25/0752](https://mentor.ieee.org/802.11/dcn/25/11-25-0752-00-00bn-initial-frame-exchange-in-co-sr-co-bf-follow-up.pptx) Initial Frame Exchange in Co-SR/Co-BF: Follow-Up Kosuke Aio
	* [25/0087](https://mentor.ieee.org/802.11/dcn/25/11-25-0087-00-00bn-co-triggering-frame-design-for-cobf.pptx) Co-Triggering Frame Design for CoBF   Insik Jung
	* [25/0413](https://mentor.ieee.org/802.11/dcn/25/11-25-0413-00-00bn-support-for-emlsr-during-cbf.pptx) EMLSR-support-during-CBF Dibakar Das
	* [25/0541](https://mentor.ieee.org/802.11/dcn/25/11-25-0541-01-00bn-co-sr-power-control.pptx)Co-SR Power Control Huixuan Zhou
	* [25/0745](https://mentor.ieee.org/802.11/dcn/25/11-25-0745-00-00bn-csi-open-issues-in-cbf.pptx) CSI open issues in CBF Okan Mutgan
	* [25/0574](https://mentor.ieee.org/802.11/dcn/25/11-25-0574-05-00bn-cobf-sequence-optimization.pptx) CoBF Sequence Optimization Avner Epstein
	* [25/0694](https://mentor.ieee.org/802.11/dcn/25/11-25-0694-01-00bn-uhr-ofdma-sounding-limitations.pptx) UHR OFDMA Sounding Limitations Avner Epstein
	* [25/0879](https://mentor.ieee.org/802.11/dcn/24/11-24-0879-04-0000-ieee-p802-11bk-d2-0-mandatory-draft-review-mdr-report.docx) CoBF Signaling Details Sherief Helwa
	* [24/2124](https://mentor.ieee.org/802.11/dcn/24/11-24-2124-00-00bn-frame-sequence-for-csr-and-cbf.pptx) Frame-Sequence-for-CSR-and-CBF Jason Yuchen Guo
	* 25/942 MAC-PDT-37\_8\_2\_1-CoBF Sherief Helwa
	* 9 SPs on CBF Sherief Helwa

**Straw Poll**

**25/0857 PDT PHY PLME (Qisheng Huang)**

* SP passed

**Submissions**

**25/0734 Misc. CBF Topics part II Ron Porat**

SP1

* + Do you agree to include the following into the 11bn SFD: APs exchange the following 2-bit capability fields with values 1,2,3 or 4 at the time of group formation between the members of a COBF pair. The capabilities are defined for the AP declared BW and assume Nc=2 (# of columns in the feedback)
	+ Field 1 – Total number of OBSS sounding reports that the AP can store for this COBF pair at a given time
	+ Field 2 – Total number of OBSS joint sounding reports that the AP can store for this COBF pair at a given time (can’t be higher than number in field 1)
* No objection

SP2

* + Do you agree to include the following into the 11bn SFD: in the TB PPDU carrying OBSS AP sounding feedback do you support limiting Nss to 1?
* No objection.

SP3

* + Do you agree to include the following into the 11bn SFD : in COBF, cross-BSS/joint sounding feedback max Nc is limited to 2
* No objection.

SP4

* + Do you agree to include the following into the 11bn SFD : in TB PPDU carrying cross BSS (including joint) sounding feedback for COBF the T\_PE is fixed as 20uS (nominal\_packet\_padding=20uS and aFactor=4) and LDPC extra symbol set as 1?
	+ AP will set the UL length field and other parameters in the BFRP trigger frame according to this rule
* No objection.

**25/0793 Spatial Re-Use and Spatial Nulling Interference Cancellation Requirements Rainer Strobel**

No SPs

**25/0834 Considerations in Joint Sounding Mario Costa**

No SPs

**25/0836 Follow-up on CFO correction for COBF Sameer Vermani**

SP1

* + Do you agree to add the following to the 11bn SFD
	+ During the COBF sounding phase, cross-BSS NDPA recipient always pre-corrects the frequency of the NDP it transmits in response (pre-correction done based on the NDPA’s frequency estimate), regardless of reference/follower designation.
* No objection.

SP2

* + Do you agree to add the following to the 11bn SFD
	+ During the COBF sounding phase, when transmitting the NDPA
	+ Reference AP does not perform pre-correction
	+ The follower AP should use a recent frequency pre-correction value for the CFO estimated to the reference AP
* Results: 45Y/14N/27A

**25/0842 Information Exchange in the CoBF Transmission Phase follow-up Alice Chen**

SPs deferred

**Adjourn**

The meeting is adjourned at 10:00 CET.