IEEE P802.11
Wireless LANs

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| Minutes 802.11be PHY ad hoc – March to May conference calls  |
| Date: 2023-04-24 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Tianyu Wu | Apple |  |  | tianyu@apple.com |
| Sigurd Schelstraete |  |  |  |  |

Abstract

This document contains the PHY ad hoc meeting minutes for TGbe teleconferences held between September and November:

* April 24, 2023

**Monday April 24th, 2023 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Sigurd Schelstraete, MaxLinear) calls the meeting to order at 19:00 ET.
2. The Chair follows the agenda in 11-23/0509r17.
3. Reminder for registration for the plenary meeting.
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. 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) or the Chair himself if unable to record attendance via IMAT system.
7. Agenda
	* [507r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0507-00-00be-lb271-comment-resolution-on-u-sig-part-4.docx) LB271 Comment Resolution on U-SIG Part 4 Alice Chen [2]
	* [613r2](https://mentor.ieee.org/802.11/dcn/23/11-23-0613-00-00be-lb271-cr-for-subclause-36-3-20-transmit-specification.docx) lb271-cr-for-subclause-36-3-20 Transmit specification Yapu Li [6]
	* [614r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0614-00-00be-lb271-cr-for-subclause-36-3-21-receiver-specification.docx) lb271-cr-for-subclause-36-3-21-Receiver specification Yapu Li [5]
	* [615r1](https://mentor.ieee.org/802.11/dcn/23/11-23-0615-00-00be-lb271-cr-for-subclause-36-3-23-eht-receive-procedure.docx) lb271-cr-for-subclause-36-3-23-EHT receive procedure Yapu Li [7]
	* [542r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0542-00-00be-lb271-cr-for-eht-sig-part-3.doc) CR for EHT-SIG Part 3 Ross J. Yu [3]
	* [533r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0533-00-00be-lb271-cr-for-eht-sig-part-2.doc) CR for EHT-SIG Part 2 Ross J. Yu [2]
	* [611r1](https://mentor.ieee.org/802.11/dcn/23/11-23-0611-01-00be-lb271-cr-for-eht-ppe-thresholds-field.docx) CR for EHT PPE Thresholds Field Mengshi Hu [11]
	* [652r1](https://mentor.ieee.org/802.11/dcn/23/11-23-0652-01-00be-lb271-cr-for-cids-15325-15326-and-17178.docx) CR for CIDs 15325, 15326 and 17178 Mengshi Hu [3]
	* [682r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0682-00-00be-lb-271-comment-resolutions-for-crs-in-9-4-2-313-3.docx) LB 271 comment resolutions for CRs in 9.4.2.313.3 Kanke Wu [52]
	* [687r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0687-00-00be-lb271-cr-for-36-3-7-overview-of-the-ppdu-encoding-process.docx) CR for 36.3.7 overview of the PPDU encoding process Bo Gong [5]
	* [686r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0686-00-00be-lb271-cr-for-36-2-6-support-for-non-ht-ht-vht-and-he-formats.docx) CR for 36.2.6 Support for non-HT, HT, VHT and HE formats Bo Gong [4]
	* [685r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0685-00-00be-lb271-cr-for-36-2-4-phy-config-vector.docx) cr-for-36.2.4-PHY CONFIG\_VECTOR Bo Gong [3]
	* [699r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0699-00-00be-lb271-cid-17146.docx) CID 17146 Sigurd Schelstraete [1]

**Attendance**

The following people registered their attendance through IMAT:

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| Breakout | Timestamp | Name | Affiliation |
| TGbe (PHY) | 4/24 | Bahn, Christy | IEEE STAFF |
| TGbe (PHY) | 4/24 | Chen, You-Wei | MediaTek Inc. |
| TGbe (PHY) | 4/24 | CHUN, JINYOUNG | LG ELECTRONICS |
| TGbe (PHY) | 4/24 | Fang, Juan | Intel |
| TGbe (PHY) | 4/24 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbe (PHY) | 4/24 | Kim, Youhan | Qualcomm Technologies, Inc. |
| TGbe (PHY) | 4/24 | Li, Jialing | Qualcomm Technologies, Inc. |
| TGbe (PHY) | 4/24 | Li, Yapu | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (PHY) | 4/24 | Lim, Dong Guk | LG ELECTRONICS |
| TGbe (PHY) | 4/24 | MAO, ZHI | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 4/24 | Quan, Yingqiao | Unisoc |
| TGbe (PHY) | 4/24 | Redlich, Oded | Huawei Technologies Co., Ltd; Huawei Technologies Co., Ltd |
| TGbe (PHY) | 4/24 | Schelstraete, Sigurd | MaxLinear |
| TGbe (PHY) | 4/24 | Shilo, Shimi | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 4/24 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 4/24 | Sun, Bo | Sanechips |
| TGbe (PHY) | 4/24 | Wei, Dong | NXP Semiconductors |
| TGbe (PHY) | 4/24 | Wu, Tianyu | Apple, Inc. |
| TGbe (PHY) | 4/24 | Xin, Yan | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 4/24 | Yu, Jian | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 4/24 | Zhang, Yan | NXP Semiconductors |

**Submissions**

1. **0507r0 LB271 Comment Resolution on U-SIG Part 4 – Alice Chen (Qualcomm)**

Discussions:

C: CID16637, discussion on the proposed text.

C: Did receiver behavior described the receiver should check the validity of U-SIG field combinations?

A: No description in the spec.

C: We may not need to describe the validity of the combinations.

A: The proposed text is a general description that resolves commenter’s concern.

SP1: Do you agree to the resolution of the following CIDs as in 11-23/0507r0?

* CID 16637, 16640

No objection

1. **0613r2 lb271-cr-for-subclause-36-3-20 Transmit specification – Yapu Li (OPPO)**

Discussions:

C: Discussions to double check the change is correct.

SP2: Do you agree to the resolution of the following CIDs as in 11-23/0613r2?

* CID 15280, 15716, 17227, 16266, 16955, 17228

No objection

Further discussions on 613r2:

C: There are other places using BPSK-DCM as modulation for MCS14 but only 2 places using BPSK-DCM-DUP. Either change everywhere to BPSK-DCM-DUP or change the 2 places from “BPSK-DCM-DUP” to “BPSK-DCM” in table 36-67 and 36-68.

A: Change the resolution to revised. Change the resolution as commented.

The author make change to 613 and update to r3.

SP2 updated:

SP2: Do you agree to the resolution of the following CIDs as in 11-23/0613r3?

* CID 15280, 15716, 17227, 16266, 16955, 17228

No objection

1. **0614r0 lb271-cr-for-subclause-36-3-21-Receiver specification – Yapu Li (OPPO)**

Discussions:

C: Some editorial discussions. No change in resolution.

SP3: Do you agree to the resolution of the following CIDs as in 11-23/0614r1?

* CID 15745, 15746, 15747, 15748, 17629

No objection

1. **0615r1 lb271-cr-for-subclause-36-3-23-EHT receive procedure – Yapu Li (OPPO)**

Discussions:

C: Change resolution to CID15035 to reject.

A: Make the change and update to r2.

C: For CID 17625, do you mean if the STA-ID does not match, receiver still need to continue receive the PPDU?

A: This is for UL, if AP see STA-ID don’t match AP’s STA-ID, AP continue receiving.

C: Don’t need to change to shall.

A: Change the resolution to reject.

C: CID 17632, using L-Length to differentiation non-HT and 11be is useful.

A: Not sure people can just rely on length field, may still need to check other parameters.

C: Currently, the scheme to differentiate different PPDU format is tested to reach certain performance. It’s up to implementation to use other information to differentiate.

A: Keep the current resolution.

C: For CID 17631, there are discussions on the state machine.

A: Defer CID17631.

C: CID 17229 and 17231 also need more offline discussion. CIDs Deferred.

SP4: Do you agree to the resolution of the following CIDs as in 11-23/0615r2?

* CID 15035, 17230, 17625, 17632

No objection

Note: CID 17229, 17231, 17631 are deferred.

1. **0533r0 CR for EHT-SIG Part 2 – Ross Yu (Huawei)**

Discussions:

C: Did you defined unallocated RU?

A: No, since it is used since 11ax time.

C: You change the meaning, right? CID 2046 is not used for punctured RU?

A: No, it’s not changed.

C: Unallocated means both unassigned and punctured. It’s better to clarify this definition.

C: New text suggested for resolution to CID 1663. Since STA-ID 2046 can only be used for RU/MRU with fewer than 242 tones.

Didn’t run SP due to lack of time. Will continue in F2F meeting.

**Adjourn**

The meeting is adjourned at 21:00 ET.