IEEE P802.11
Wireless LANs

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| Minutes 802.11be PHY ad hoc – September to November conference calls  |
| Date: 2022-11-08 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Sigurd Schelstraete | MaxLinear |  |  | sschelstraete@maxlinear.com |
| Tianyu Wu |  |  |  |  |
| Xiaogang Chen |  |  |  |  |

Abstract

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

* September 26, 2022 (R0)
* October 17
* October 31

**Monday September 26th, 2022 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Tianyu Wu, Apple) calls the meeting to order at 19:00 ET.
2. The Chair follows the agenda in 11-22/1657r0.
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 reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Agenda
	* [1610r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1610-01-00be-cr-on-cid-12537.docx) CR on CID 12537 Bo Gong [1C]
	* [1611r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1611-00-00be-cr-on-support-for-non-ht-ht-vht-and-he-formats.docx) CR-on-Support for non-HT, HT, VHT, and HE formats Bo Gong [4C]
	* 1652r0 CR on CID12086 Bo Gong [1C]

**Attendance**

The following people registered their attendance through IMAT:

* David Barr (MaxLinear)
* Shuling Feng (MediaTek Inc.)
* Lei Huang (Huawei International Pte Ltd)
* Kazi Mohammed Saidul Huq (Ofinno)
* Mahmoud Kamel (InterDigital, Inc.)
* Leonardo Lanante (Ofinno)
* Yapu Li (Guangdong OPPO Mobile Telecommunications Corp.,Ltd)
* Yunsi Ma (HiSilicon (Shanghai) Technologies Co., LTD.)
* Zhi Mao (Huawei Technologies Co., Ltd)
* Sigurd Schelstraete (MaxLinear)
* Hao Song (Intel Corporation)
* Bo Sun (ZTE Corporation)
* Prabodh Varshney (Nokia)
* Sameer Vermani (Qualcomm Incorporated)
* Dong Wei (NXP Semiconductors)
* Kanke Wu (Qualcomm Incorporated)
* Ryota Yamada (SHARP CORPORATION)
* Yongjiang Yi (Spreadtrum Communication USA, Inc)
* Jian Yu (Huawei Technologies Co., Ltd)
* Yan Zhang (NXP Semiconductors)

**Submissions**

**1610r0 CR on CID 12537 (Bo Gong)**

Comments on details of calculation.

Maybe due to SERVICE field being included in PSDU – which it should not.

SP1:

Do you agree to the resolution of the following CID as in 11-22/1610r1?

* CID 12537

No objection

**1611r0 CR-on-Support for non-HT, HT, VHT, and HE formats (Bo Gong)**

SP2:

Do you agree to the resolution of the following CIDs as in 11-22/1611r1?

* CIDs 10784, 10785, 10786, 10787

No objection

**1652r0 CR on CID 12086 (Bo Gong)**

Needs more time for review

SP deferred

**Adjourn**

The meeting is adjourned at 20:00 ET

**Monday October 17th, 2022 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Tianyu Wu, Apple) calls the meeting to order at 19:00 ET.
2. The Chair follows the agenda in 11-22/1657r7.
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 reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Agenda
	1. [1652r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1652-01-00be-cr-on-cid12086.docx) CR on CID12086 Bo Gong [1C SP]
	2. [1676r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1676-00-00be-lb-266-cr-for-cid-12538.docx) CR for CID 12538 Mahmoud Kamel [1C]
	3. [1716r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1716-00-00be-lb266-cr-for-36-3-10.doc) LB266 CR for 36.3.10 Lei Huang [11C]
	4. 1770r0 Remaining CR on EHT PHY Introduction Kanke Wu [6C]

**Attendance**

The following people registered their attendance through IMAT:

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (PHY) | 10/17 | Bahn, Christy | IEEE STAFF |
| TGbe (PHY) | 10/17 | Chen, You-Wei | MediaTek Inc. |
| TGbe (PHY) | 10/17 | CHUN, JINYOUNG | LG ELECTRONICS |
| TGbe (PHY) | 10/17 | Huang, Lei | Huawei International Pte Ltd |
| TGbe (PHY) | 10/17 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbe (PHY) | 10/17 | Kim, Youhan | Qualcomm Incorporated |
| TGbe (PHY) | 10/17 | Lanante, Leonardo | Ofinno |
| TGbe (PHY) | 10/17 | Li, Yapu | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (PHY) | 10/17 | Namboodiri, Vamadevan | SAMSUNG ELECTRONICS |
| TGbe (PHY) | 10/17 | Shilo, Shimi | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 10/17 | Song, Hao | Intel Corporation |
| TGbe (PHY) | 10/17 | Tian, Bin | Qualcomm Incorporated |
| TGbe (PHY) | 10/17 | Vermani, Sameer | Qualcomm Incorporated |
| TGbe (PHY) | 10/17 | Wei, Dong | NXP Semiconductors |
| TGbe (PHY) | 10/17 | Wu, Kanke | Qualcomm Incorporated |
| TGbe (PHY) | 10/17 | Wu, Tianyu | Apple, Inc. |
| TGbe (PHY) | 10/17 | Xin, Yan | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 10/17 | Yamada, Ryota | SHARP CORPORATION |
| TGbe (PHY) | 10/17 | Yi, Yongjiang | Spreadtrum Communication USA, Inc |
| TGbe (PHY) | 10/17 | Zhang, Yan | NXP Semiconductors |

**Submissions**

**1652r1 CR on CID 12086 (Bo Gong)**

**No discussion.**

SP#1: Do you agree to the resolution of the following CID as proposed in 11-22/1652r1?

* CID 12086

No Objection

**1676r0 CR on CID 12538 (Mahmoud)**

**Discussions:**

**How to get 32 users/content channel?**

**Does the proposed sentence really needed? Propose to add as a note.**

SP#2: Do you agree to the resolution of the following CID as proposed in 11-22/1676r1?

* CID 12538

No Objection

**1716r0 LB266 CR for 36.3.10 (Lei Huang)**

**Discussions: N\_sd\_total represent the total number of subcarriers instead of effective number of data tones.**

SP#3: Do you agree to the resolution of the following CIDs as proposed in 11-22/1716r1?

* CIDs 11218, 11282, 11283, 10376, 10179, 11207, 11352, 11353, 12846, 10827, 10828

No Objection

**1770r1 Remaining CR on EHT PHY Introduction (Kanke Wu)**

**Discussions: No discussion.**

SP#4: Do you agree to the resolution of the following CIDs as proposed in 11-22/1770r1?

* CIDs 12133, 11332, 12476, 10923, 12013, 11214

No Objection

**Adjourn**

The meeting is adjourned at 20:00 ET

**Monday October 31st, 2022 10:00 – 12:00 ET**

**Introduction**

1. The Chair (Tianyu Wu, Apple) calls the meeting to order at 10:00 ET.
2. The Chair follows the agenda in 11-22/1657r14.
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 reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Agenda

o   [1379r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1379-02-00be-cr-for-cid-10745.docx) CR for CID 10745                                             Mahmoud Kamel          1C

o   [1741r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1741-00-00be-discussion-on-lb266-cr-for-cid-13942.pptx) Discussion on LB266 CR for CID 13942             Yanyi Ding                   1C

o   [1808r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1808-00-00be-lb266-cr-for-cid-13560-and-13581.doc) CR for CID 13560 and 13581                             Ross Jian Yu                 2C

o   [1813r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1813-00-00be-cr-for-the-unit-of-transmit-power.docx) CR for the Unit of Transmit Power                     Mengshi Hu                  2C

o   [1812r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1812-00-00be-lb266-cr-for-ru-allocation-in-36-2-2.docx/) CR for RU\_ALLOCATION in 36.2.2                 Mengshi Hu                  3C

o   1818r0  CIDs in 9-4-2-313 EHT Capabilities IE-2           Kanke Wu                    20C

**Attendance**

The following people registered their attendance through IMAT:

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (PHY) | 10/31 | Barr, David | MaxLinear |
| TGbe (PHY) | 10/31 | Baykas, Tuncer | Ofinno |
| TGbe (PHY) | 10/31 | CHUN, JINYOUNG | LG ELECTRONICS |
| TGbe (PHY) | 10/31 | Huang, Lei | Huawei International Pte Ltd |
| TGbe (PHY) | 10/31 | Huq, Kazi Mohammed Saidul | Ofinno |
| TGbe (PHY) | 10/31 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbe (PHY) | 10/31 | Kim, Youhan | Qualcomm Incorporated |
| TGbe (PHY) | 10/31 | Lanante, Leonardo | Ofinno |
| TGbe (PHY) | 10/31 | Lee, Wookbong | SAMSUNG |
| TGbe (PHY) | 10/31 | Li, Yapu | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (PHY) | 10/31 | Motozuka, Hiroyuki | Panasonic Holdings Corporation |
| TGbe (PHY) | 10/31 | Song, Hao | Intel Corporation |
| TGbe (PHY) | 10/31 | Stanley, Dorothy | Hewlett Packard Enterprise |
| TGbe (PHY) | 10/31 | Sun, Bo | ZTE Corporation |
| TGbe (PHY) | 10/31 | Tsodik, Genadiy | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 10/31 | Urabe, Yoshio | Panasonic Holdings Corporation |
| TGbe (PHY) | 10/31 | Van Nee, Richard | Qualcomm Incorporated |
| TGbe (PHY) | 10/31 | Van Zelst, Allert | Qualcomm Incorporated |
| TGbe (PHY) | 10/31 | Vermani, Sameer | Qualcomm Incorporated |
| TGbe (PHY) | 10/31 | Wu, Kanke | Qualcomm Incorporated |
| TGbe (PHY) | 10/31 | Yang, Steve TS | MediaTek Inc. |
| TGbe (PHY) | 10/31 | Zaman, Malia | IEEE Standards Association (IEEE-SA) |
| TGbe (PHY) | 10/31 | Zhang, Yan | NXP Semiconductors |

**Submissions**

**1379r2 CR for CID 10745 (Mahmoud Kamel)**

SP#1: Do you agree to the resolution of the following CID as proposed in 11-22/1379r2?

* CID 10745

No Objection

**1808r0 CR for CID 13560 and 13581 (Ross Jian Yu)**

SP#2: Do you agree to the resolution of the following CIDs as proposed in 11-22/1808r1?

* CID 13560, 13581

No Objection

**[1741r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1741-00-00be-discussion-on-lb266-cr-for-cid-13942.pptx) Discussion on LB266 CR for CID 13942     (Yanyi Ding)**

Discussions:

Q: Not a good timing for adding new PHY feature. Maybe can consider in next generation.

SPs for 1741r1:

SP#3: Do you agree that 11be should support RU adaptation procedure?

* + Non-AP STAs may puncture allocated RU/MRU for EHT TB PPDU according to ED-based CCA results when it is not MU-MIMO transmission.

Y/N/A: 11/24/3

SP#4: Which signaling option do you prefer for punctured EHT TB PPDU?

Option 1: no explicit signaling (AP may decode the EHT TB PPDU by blind decoding or preamble detection)

Option 2: explicit signaling (AP may decode the EHT TB PPDU following TB puncturing information in U-SIG field)

Opt1/Opt2/A: 1/11/21

**[1813r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1813-00-00be-cr-for-the-unit-of-transmit-power.docx) CR for the Unit of Transmit Power   (Mengshi Hu)**

SP#5: Do you agree to the resolution of the following CIDs as proposed in 11-22/1813r0?

* CID 10951, 10952

No Objection

[**1812r0**](https://mentor.ieee.org/802.11/dcn/22/11-22-1812-00-00be-lb266-cr-for-ru-allocation-in-36-2-2.docx/)**CR for RU\_ALLOCATION in 36.2.2       (Mengshi Hu)**

SP#6: Do you agree to the resolution of the following CIDs as proposed in 11-22/1812r0?

* CID 12180, 12864, 12865

No Objection

**1818r0  CIDs in 9-4-2-313 EHT Capabilities IE-2         (Kanke Wu)**

SP#7: Do you agree to the resolution of the following CIDs as proposed in 11-22/1818r0?

* CID 10809, 10810, 11853, 11313, 11307, 11308, 11309, 10393, 12571, 11213, 10338, 12004, 12478, 11805, 11522, 10178, 10173, 11060, 11058, 11059

No Objection

**Adjourn**

The meeting is adjourned at 11:30 ET