IEEE P802.11
Wireless LANs

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| Minutes of 802.11be PHY ad hoc meetings: September to November 2021 |
| Date: 2021-10-19 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Sigurd Schelstraete | MaxLinear |  |  | sschelstraete@maxlinear.com |

Abstract

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

* September 27, 2021 (R0)
* October 11, 2021 (R1)
* October 18, 2021 (R2)

**Monday Sept 27th, 2021 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Tianyu Wu, Apple) calls the meeting to order at 7:00 PM ET.
2. The Chair follows the agenda in 11-21/1478r8
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, Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Announcements:
7. Agenda
	* 1266r2 CC36 CR for coding Yan Zhang [2 CID]
	* [1267r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1267-00-00be-cc36-cr-for-packet-extension.docx) CR for Packet extension Yan Zhang [2 CID]
	* [1229r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1229-00-00be-cr-phy-txblocks.docx) CR\_PHY TxBlocks Xiaogang Chen[20CID]
	* [1302r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1302-01-00be-cc36-cr-for-ru-allocation-and-l-length-in-txvector-and-rxvector.docx) CR for RU\_ALLOC. and L\_LENGTH in TX/RXVECTOR Mengshi Hu [7CID]
	* [1368r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1368-00-00be-cc36-cr-on-36-3-12-7-2-u-sig-content-part-4.docx) CR on 36.3.12.7.2 U-SIG Content-part 4 Shimi Shilo [10CID]
	* [1369r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1369-00-00be-cc36-cr-on-cid-5473.docx) CR on CID 5473 Shimi Shilo [1 CID]
	* [1385r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1385-00-00be-eht-sig-cr-on-p802-11be-d1-0-36-3-12-8-2.doc) EHT-SIG CR on P802.11be D1.0-36.3.12.8.2 Bo Gong [5 CID]
	* [1386r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1386-00-00be-eht-sig-cr-on-p802-11be-d1-0-36-3-12-8-6.doc) EHT-SIG CR on P802.11be D1.0-36.3.12.8.6 Bo Gong [5 CID]
	* [1387r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1387-00-00be-eht-sig-cr-on-p802-11be-d1-0-cid5485.doc) EHT-SIG CR on P802.11be D1.0-CID5485 Bo Gong [1 CID]
	* [1384r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1384-00-00be-cc36-cr-for-3-2-definitions.docx) CR for 3.2 Definitions Dongguk Lim [21CID]
	* [1408r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1408-00-00be-cc36-cr-for-cid-4626-and-4653.docx) CR for CID 4626 and 4653 Eunsung Park [2 CID]
	* [1441r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1441-00-00be-cr-to-36-2-5-effect-of-ch-bandwidth-parameter-on-ppdu-format.docx) Effect of CH\_BANDWIDTH parameter on PPDU format Yujin Noh [3 CID]

**Attendance**

The following people registered their attendance for the meeting:

* Kwok Shum Au (Huawei Technologies Co., Ltd)
* David Barr (Maxlinear)
* Rui Cao (NXP Semiconductors)
* Jinyoung Chun (LG Electronics)
* Ruchen Duan (Samsung)
* Shuling Feng (Mediatek Inc.)
* Brian Hart (Cisco Systems, Inc.)
* Hung-Tao Hsieh (Mediatek Inc.)
* Ahmed Ibrahim (Samsung Research America)
* Insik Jung (LG Electronics)
* Mahmoud Kamel (Interdigital, Inc.)
* Myeong-Jin Kim (Samsung)
* Youhan Kim (Qualcomm Incorporated)
* Chris Levesque (Qorvo)
* Jialing Li (Qualcomm Technologies, Inc.)
* Dong Guk Lim (LG Electronics)
* Zinan Lin (Interdigital, Inc.)
* Baosheng Liu (Longsailing)
* Jun Minotani (Panasonic Corporation)
* Yujin Noh (Senscomm)
* Eunsung Park (LG Electronics)
* Sigurd Schelstraete (Maxlinear)
* Shimi Shilo (Huawei Technologies Co., Ltd)
* Bin Tian (Qualcomm Incorporated)
* Dong Wei (NXP Semiconductors)
* Kanke Wu (Qualcomm Incorporated)
* Tianyu Wu (Apple, Inc.)
* Yan Xin (Huawei Technologies Co., Ltd)
* Steve Ts Yang (Mediatek Inc.)
* Malia Zaman (IEEE Standards Association (IEEE-SA))
* Yan Zhang (NXP Semiconductors)

**Submissions**

**1266r2 CC36 CR for coding (Yan Zhang)**

Revisiting this submission for some updates. Deferred CIDs are now ready for SP. One CID was missed in earlier SP and is added in new SP.

SP#1

Do you agree to the resolution of the following CIDs as proposed in 11-21/1266r3?

* CID 7242, 5490, 7398, 8133

No objection to the SP

**1267r0 CR for Packet extension (Yan Zhang)**

SP#2

Do you agree to the resolution of the following CIDs as proposed in 11-21/1267r1?

* CID 7253,7254

No objection to the SP

**1229r2 CR\_PHY TxBlocks (Xiaogang Chen)**

Submission deals with the following CIDs:

* CID 4542, 4543, 4544, 4545, 4617, 4691, 4692, 4904, 4905, 4906, 4907, 4994, 5677, 5678, 6999, 7183, 7184, 7185, 7393, 7750, 5770, 5779

Presentation is completed, but some further discussion is needed. No SP run at this time.

**Adjourn**

Meeting is adjourned at 21:00 ET.

**Monday Oct 11th, 2021 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Tianyu Wu, Apple) calls the meeting to order at 7:00 PM ET.
2. The Chair follows the agenda in 11-21/1478r14
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, Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Announcements:
7. Agenda
	* [1229r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1229-02-00be-cr-phy-txblocks.docx) CR\_PHY TxBlocks Xiaogang Chen[20CID]
	* [1302r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1302-01-00be-cc36-cr-for-ru-allocation-and-l-length-in-txvector-and-rxvector.docx) CR for RU\_ALLOC. and L\_LENGTH in TX/RXVECTOR Mengshi Hu [7CID]
	* [1368r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1368-00-00be-cc36-cr-on-36-3-12-7-2-u-sig-content-part-4.docx) CR on 36.3.12.7.2 U-SIG Content-part 4 Shimi Shilo [10CID]
	* [1369r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1369-00-00be-cc36-cr-on-cid-5473.docx) CR on CID 5473 Shimi Shilo [1 CID]
	* [1385r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1385-00-00be-eht-sig-cr-on-p802-11be-d1-0-36-3-12-8-2.doc) EHT-SIG CR on P802.11be D1.0-36.3.12.8.2 Bo Gong [5 CID]
	* [1386r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1386-00-00be-eht-sig-cr-on-p802-11be-d1-0-36-3-12-8-6.doc) EHT-SIG CR on P802.11be D1.0-36.3.12.8.6 Bo Gong [5 CID]
	* [1387r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1387-01-00be-eht-sig-cr-on-p802-11be-d1-0-cid5485.doc) EHT-SIG CR on P802.11be D1.0-CID5485 Bo Gong [1 CID]
	* 1382r0 CC36 CR for 36.3.2 Yan Xin [2 CID]
	* [1384r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1384-01-00be-cc36-cr-for-3-2-definitions.docx) CR for 3.2 Definitions Dongguk Lim [21CID]
	* [1408r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1408-01-00be-cc36-cr-for-cid-4626-and-4653.docx) CR for CID 4626 and 4653 Eunsung Park [2 CID]
	* [1441r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1441-00-00be-cr-to-36-2-5-effect-of-ch-bandwidth-parameter-on-ppdu-format.docx) Effect of CH\_BANDWIDTH parameter on PPDU format Yujin Noh [3 CID]

**Attendance**

The following people registered their attendance for the meeting:

* Song-Haur An (Independent)
* Hari Ram B (NXP Semiconductors)
* David Barr (Maxlinear)
* Anuj Batra (Apple, Inc.)
* Rui Cao (NXP Semiconductors)
* Jinyoung Chun (LG Electronics)
* Ruchen Duan (Samsung)
* Shuling Feng (Mediatek Inc.)
* Ning Gao (Guangdong Oppo Mobile Telecommunications Corp.,Ltd)
* Alireza Ghaderipoor (Mediatek Inc.)
* Niranjan Grandhe (NXP Semiconductors)
* Brian Hart (Cisco Systems, Inc.)
* Hung-Tao Hsieh (Mediatek Inc.)
* Shengquan Hu (Mediatek Inc.)
* Lei Huang (Guangdong Oppo Mobile Telecommunications Corp.,Ltd)
* Insik Jung (LG Electronics)
* Mahmoud Kamel (Interdigital, Inc.)
* Myeong-Jin Kim (Samsung)
* Youhan Kim (Qualcomm Incorporated)
* Wookbong Lee (Samsung)
* Yapu Li (Guangdong Oppo Mobile Telecommunications Corp.,Ltd)
* Dong Guk Lim (LG Electronics)
* Baosheng Liu (Longsailing)
* Li Ma (Mediatek Inc.)
* Jun Minotani (Panasonic Corporation)
* Yujin Noh (Senscomm)
* Eunsung Park (LG Electronics)
* Oded Redlich (Huawei Technologies Co., Ltd)
* Sigurd Schelstraete (Maxlinear)
* Shimi Shilo (Huawei Technologies Co., Ltd)
* Bo Sun (ZTE Corporation)
* Bin Tian (Qualcomm Incorporated)
* Genadiy Tsodik (Huawei Technologies Co., Ltd)
* Kiran Uln (Cypress Semiconductor Corporation)
* Prabodh Varshney (Nokia)
* Lisa Ward (Rohde & Schwarz)
* Kanke Wu (Qualcomm Incorporated)
* Steve Ts Yang (Mediatek Inc.)
* Yongjiang Yi (Spreadtrum Communication Usa Inc.)
* Yan Zhang (NXP Semiconductors)

**Submissions**

**1229r3 CR\_PHY TxBlocks (Xiaogang Chen)**

5 CIDs revised since previous presentation.

SP#1

Do you agree to the resolution of the following CIDs as proposed in 11-21/1229r3?

* CID 4542, 4543, 4544, 4545, 4617, 4691, 4692, 4904, 4905, 4906, 4907, 4994, 5677, 5678, 6999, 7183, 7184, 7185, 7393, 7750

No objection

SP#2

Do you agree to the resolution of the following CIDs as proposed in 11-21/1229r3?

* CID 5770, 5779

Y/N/A: 18/6/14

[**1302r1**](https://mentor.ieee.org/802.11/dcn/21/11-21-1302-01-00be-cc36-cr-for-ru-allocation-and-l-length-in-txvector-and-rxvector.docx) **CR for RU\_ALLOC. and L\_LENGTH in TX/RXVECTOR (Mengshi Hu)**

SP#3

Do you agree to the resolution of the following CIDs as proposed in 11-21/1302r2?

* CID 5459, 7980, 7125, 4892, 7652, 4898

No objection

Note: CID 5461 in 11-21/1302r2 is deferred

[**1369r0**](https://mentor.ieee.org/802.11/dcn/21/11-21-1369-00-00be-cc36-cr-on-cid-5473.docx) **CR on CID 5473 (Shimi Shilo)**

SP#4

Do you agree to the resolution of the following CID as proposed in 11-21/1369r0?

* CID 5473

No objection

[**1368r1**](https://mentor.ieee.org/802.11/dcn/21/11-21-1368-00-00be-cc36-cr-on-36-3-12-7-2-u-sig-content-part-4.docx) **CR on 36.3.12.7.2 U-SIG Content-part 4 (Shimi Shilo)**

CIDs 4641, 4642, 4789, 5001, 5409, 5410, 5411, 6102, 8012, 8104

Presentation not finalized, will be revisited at the next call.

**Adjourn**

Meeting is adjourned at 21:00 ET.

**Monday Oct 18th, 2021 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Tianyu Wu, Apple) calls the meeting to order at 7:00 PM ET.
2. The Chair follows the agenda in 11-21/1478r17
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, Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Announcements:
7. Agenda
	* [1368r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1368-01-00be-cc36-cr-on-36-3-12-7-2-u-sig-content-part-4.docx) CR on 36.3.12.7.2 U-SIG Content-part 4 Shimi Shilo [10CID]
	* [1385r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1385-00-00be-eht-sig-cr-on-p802-11be-d1-0-36-3-12-8-2.doc) EHT-SIG CR on P802.11be D1.0-36.3.12.8.2 Bo Gong [5 CID]
	* [1386r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1386-00-00be-eht-sig-cr-on-p802-11be-d1-0-36-3-12-8-6.doc) EHT-SIG CR on P802.11be D1.0-36.3.12.8.6 Bo Gong [5 CID]
	* [1387r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1387-01-00be-eht-sig-cr-on-p802-11be-d1-0-cid5485.doc) EHT-SIG CR on P802.11be D1.0-CID5485 Bo Gong [1 CID]
	* [1384r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1384-01-00be-cc36-cr-for-3-2-definitions.docx) CR for 3.2 Definitions Dongguk Lim [21CID]
	* [1408r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1408-01-00be-cc36-cr-for-cid-4626-and-4653.docx) CR for CID 4626 and 4653 Eunsung Park [2 CID]
	* [1441r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1441-00-00be-cr-to-36-2-5-effect-of-ch-bandwidth-parameter-on-ppdu-format.docx) Effect of CH\_BANDWIDTH parameter on PPDU format Yujin Noh [3 CID]
	* [1442r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1442-01-00be-cr-to-36-5-parameters-for-eht-mcss.docx) CR to 36.5 Parameters for EHT-MCSs Yujin Noh [5 CID]
	* [1463r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1463-00-00be-cr-for-clause-9-4-1-67b.docx) cr-for-clause-9.4.1.67b Ahmed Ibrahim [6 CID]
	* [1473r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1473-00-00be-cc36-cr-on-cid-6998.docx) CR on CID 6998 Shimi Shilo [1 CID]
	* [1472r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1472-00-00be-alternative-tb-ppdu-disregard-sequence.pptx) Alternative TB PPDU Disregard Sequence Shimi Shilo [Tech.]
	* [1490r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1490-00-00be-cr-to-36-3-8-eht-mcss-and-36-3-9-eht-sig-mcss.docx) CR to 36.3.8 EHT-MCSs and 36.3.9 EHT-SIG-MCSs Yujin Noh [3 CID]

**Attendance**

The following people registered their attendance for the meeting:

* Vamsi Amalladinne (Qualcomm Incorporated)
* Gary Anwyl (Mediatek Inc.)
* David Barr (Maxlinear)
* Anuj Batra (Apple, Inc.)
* Rui Cao (NXP Semiconductors)
* Jinsoo Choi (LG Electronics)
* Jinyoung Chun (LG Electronics)
* Ruchen Duan (Samsung)
* Shuling Feng (Mediatek Inc.)
* Ning Gao (Guangdong Oppo Mobile Telecommunications Corp.,Ltd)
* Hung-Tao Hsieh (Mediatek Inc.)
* Lei Huang (Guangdong Oppo Mobile Telecommunications Corp.,Ltd)
* Ahmed Ibrahim (Samsung Research America)
* Insik Jung (LG Electronics)
* Mahmoud Kamel (Interdigital, Inc.)
* Myeong-Jin Kim (Samsung)
* Youhan Kim (Qualcomm Incorporated)
* Yapu Li (Guangdong Oppo Mobile Telecommunications Corp.,Ltd)
* Dong Guk Lim (LG Electronics)
* Zinan Lin (Interdigital, Inc.)
* Baosheng Liu (Longsailing)
* Jun Minotani (Panasonic Corporation)
* Yujin Noh (Senscomm)
* Thomas Pare (Mediatek Inc.)
* Eunsung Park (LG Electronics)
* Oded Redlich (Huawei Technologies Co., Ltd)
* Sigurd Schelstraete (Maxlinear)
* Ian Sherlock (Texas Instruments Inc.)
* Bo Sun (Zte Corporation)
* Tom Thompson (IEEE Staff)
* Prabodh Varshney (Nokia)
* Dong Wei (NXP Semiconductors)
* Kanke Wu (Qualcomm Incorporated)
* Tianyu Wu (Apple, Inc.)
* Yan Xin (Huawei Technologies Co., Ltd)
* Steve Ts Yang (Mediatek Inc.)
* Yan Zhang (NXP Semiconductors)

**Strawpolls**

Correct CID numbering from earlier SP related to Submission: 1302r2

SP#1:

Do you agree to the resolution of the following CID as proposed in 11-21/1032r2?

* CID 4982

No objection

**Submissions**

**1368r1 CR on 36.3.12.7.2 U-SIG Content-part 4 (Shimi Shilo)**

SP#2:

Do you agree to the resolution of the following CIDs as proposed in 11-21/1368r1?

* CIDs 4641, 4642, 4789, 5001, 5409, 5410, 5411, 6102, 8012, 8104

No objection

**1385r0 EHT-SIG CR on P802.11be D1.0-36.3.12.8.2 (Bo Gong)**

SP#3:

Do you agree to the resolution of the following CIDs as proposed in 11-21/1385r0?

* CIDs 4950, 7211, 7213, 7215, 7217

No objection

Note: CIDs 7214 and 7216 are deferred.

**1386r0 EHT-SIG CR on P802.11be D1.0-36.3.12.8.6 (Bo Gong)**

SP#4:

Do you agree to the resolution of the following CIDs as proposed in 11-21/1386r1?

* CIDs 4959, 5428, 5429, 6092, 6103

No objection

**1387r1 EHT-SIG CR on P802.11be D1.0-CID5485 (Bo Gong)**

This document deals with CID 5485 and proposes modified terminology for “Encoder Block” and “User Block”.

Needs further offline discussion

**1382r0 CC36 CR for 36.3.2 (Yan Xin)**

SP#5:

Do you agree to the resolution of the following CIDs as proposed in 11-21/1382r0?

* CIDs 4610, 6987

No objection

**Adjourn**

Meeting is adjourned at 21:00 ET.