IEEE P802.11  
Wireless LANs

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| Minutes 802.11 be PHY ad hoc Telephone Conferences,  July 2021 - Sept 2021 | | | | |
| Date: 2021-08-30 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Tianyu Wu | Apple |  |  | tianyu@apple.com |
| Xiaogang Chen | Intel |  |  |  |

Abstract

This document contains the PHY ad hoc meeting minutes for TGbe teleconferences held on:

* July 26, 2021
* Aug 9, 2021
* Aug 16, 2021
* Aug 23, 2021
* Aug 30, 2021

**Monday July 26th, 2021 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Tianyu Wu, Apple) calls the meeting to order at 19:00 PM ET.
2. The Chair follows the agenda in 11-21/1090r11.
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 Chair if unable to record attendance via IMAT system.
6. Announcements:
7. Discussions on the agenda.

Technical Submissions**: CRs**

* + [1100r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1100-00-00be-cc36-cr-for-36-3-12-5-l-sig.docx) CR for 36.3.12.5 L-SIG Dongguk Lim [7 CID]
  + [1099r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1099-00-00be-cc36-cr-for-for-36-3-12-3-l-stf.docx) CR for for 36.3.12.3 L-STF Dongguk Lim [7 CID]
  + [1098r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1098-00-00be-cc36-cr-for-36-3-12-1-introduction.docx) CR for 36.3.12.1 Introduction Dongguk Lim [2 CID]
  + [1097r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1097-00-00be-cc36-cr-for-36-3-4-eht-ppdu-formats.docx) CR for 36.3.4 EHT PPDU formats Dongguk Lim [9 CID]
  + [1096r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1096-00-00be-cc36-cr-for-36-1-4-ppdu-formats.docx) CR for 36.1.4 PPDU formats Dongguk Lim [7 CID]
  + [1134r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1134-00-00be-cc36-cr-for-pilot.docx) CR for pilot Jinyoung Chun [12 CID]
  + [1159r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1159-02-00be-cr-phy-txmask.docx) cr-phy TxMask Xiaogang Chen [22 CID]
  + [1093r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1093-00-00be-cc36-cr-for-36-3-2-3-null-subcarriers.docx) CC36 CR for 36.3.2.3 Null subcarriers Eunsung Park [2 CID]
  + [1094r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1094-00-00be-cc36-cr-for-annex-c.docx) CC36 CR for Annex C Eunsung Park [2 CID]
  + [1182r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1182-00-00be-cc36-cr-on-spatial-configuration-subfield-part2.doc) cc36-cr-on-spatial-configuration-subfield-part2 Ross Jian Yu [2 CID]
  + [1150r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1150-00-00be-cc36-cr-on-36-3-12-8-5.doc) CR on 36.3.12.8.5 Ross Jian Yu [18 CID]
  + [1149r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1149-00-00be-cc36-cr-on-36-3-12-8-4.doc) CR on 36.3.12.8.4 Ross Jian Yu [9 CID]
  + [1170r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1170-00-00be-cc36-cr-for-transmit-requirements-for-ppdus-sent-in-response-to-a-triggering-frame.docx) CR for Tx Req.s for PPDUs Sent in Response to a Triggering Frame Mengshi Hu [4 CID]
  + [1095r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1095-00-00be-cc36-cr-for-36-3-2-5-20-mhz-operating-non-ap-eht-stas.docx) CR for 36.3.2.5 20 MHz op. non-AP EHT STAs Eunsung Park [16 CID]
  + [1077r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1077-01-00be-cc36-comment-resolution-on-sounding-ndp.docx) CC36 Comment Resolution on Sounding NDP Alice Chen [6 CID]

**Attendance**

The following people recorded their attendance for this call:

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (PHY) | 7/26 | Al Falujah, Iyad | ON Semiconductor |
| TGbe (PHY) | 7/26 | Amalladinne, Vamsi | Qualcomm Incorporated |
| TGbe (PHY) | 7/26 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 7/26 | B, Hari Ram | NXP Semiconductors |
| TGbe (PHY) | 7/26 | Barr, David | MaxLinear |
| TGbe (PHY) | 7/26 | Cao, Rui | NXP Semiconductors |
| TGbe (PHY) | 7/26 | Choi, Jinsoo | LG ELECTRONICS |
| TGbe (PHY) | 7/26 | CHUN, JINYOUNG | LG ELECTRONICS |
| TGbe (PHY) | 7/26 | Duan, Ruchen | SAMSUNG |
| TGbe (PHY) | 7/26 | feng, Shuling | MediaTek Inc. |
| TGbe (PHY) | 7/26 | Hsieh, Hung-Tao | MediaTek Inc. |
| TGbe (PHY) | 7/26 | Ibrahim, Ahmed | Samsung Research America |
| TGbe (PHY) | 7/26 | Kim, Youhan | Qualcomm Incorporated |
| TGbe (PHY) | 7/26 | Lee, Wookbong | SAMSUNG |
| TGbe (PHY) | 7/26 | Lim, Dong Guk | LG ELECTRONICS |
| TGbe (PHY) | 7/26 | Lin, Zinan | InterDigital, Inc. |
| TGbe (PHY) | 7/26 | liu, baosheng | longsailing |
| TGbe (PHY) | 7/26 | Park, Eunsung | LG ELECTRONICS |
| TGbe (PHY) | 7/26 | Puducheri, Srinath | Broadcom Corporation |
| TGbe (PHY) | 7/26 | Redlich, Oded | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 7/26 | Roder, Patricia | IEEE STAFF |
| TGbe (PHY) | 7/26 | Shilo, Shimi | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 7/26 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 7/26 | Sun, Bo | ZTE Corporation |
| TGbe (PHY) | 7/26 | Wei, Dong | NXP Semiconductors |
| TGbe (PHY) | 7/26 | Wu, Kanke | Qualcomm Incorporated |
| TGbe (PHY) | 7/26 | Wu, Tianyu | Apple, Inc. |
| TGbe (PHY) | 7/26 | Xin, Yan | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 7/26 | YANG, RUI | InterDigital, Inc. |
| TGbe (PHY) | 7/26 | Yang, Steve TS | MediaTek Inc. |
| TGbe (PHY) | 7/26 | yi, yongjiang | Spreadtrum Communication USA Inc. |
| TGbe (PHY) | 7/26 | Zhang, Yan | NXP Semiconductors |

**CR contributions**

1. **11-21-1100r0 –** [**1100r0**](https://mentor.ieee.org/802.11/dcn/21/11-21-1100-00-00be-cc36-cr-for-36-3-12-5-l-sig.docx) **CR for 36.3.12.5 L-SIG –** Dongguk Lim (LGE)

**Discussions:**

Some editorial comments and updated the CR contribution.

SP#1: Do you agree to the resolution of the following CIDs as proposed in 11-21/1100r2?

* CID 4569, 4667, 7198, 7399, 7996, 7997, and 8103

No objection to the SP.

1. **11-21-1099r0 – CR for for 36.3.12.3 L-STF –** Dongguk Lim (LGE)

**Discussions:**

Some editorial comments and updated the CR contribution.

SP#2: Do you agree to the resolution of the following CIDs as proposed in 11-21/1099r1

* CID 4664, 4579, 7197, 7313

No objection to the SP.

1. **11-21-1098r0 – CR for 36.3.12.1 Introduction –** Dongguk Lim (LGE)

**Discussions:**

Some editorial comments and updated the CR contribution.

SP#3: Do you agree to the resolution of the following CIDs as proposed in 11-21/1098r1

* CID 4552, 7196

No objection to the SP.

1. **11-21-1097r0 – CR for 36.3.4 EHT PPDU formats –** Dongguk Lim (LGE)

**Discussions:**

Some editorial comments and updated the CR contribution.

SP#4: Do you agree to the resolution of the following CIDs as proposed in 11-21/1097r1

* CID 4689, 4690, 4803, 4943, 5399, 5470, 7179, 7180, and 7749

No objection to the SP.

1. **11-21-1096r0 – CR for 36.1.4 PPDU formats –** Dongguk Lim

**Discussions:**

Some editorial comments and updated the CR contribution.

SP#5: Do you agree to the resolution of the following CIDs as proposed in 11-21/1096r1

* CID 4981, 5091, 7117, 7323, 7324, and 8083
* Note: CID 7116 is deferred.

No objection to the SP.

1. **11-21-1134r0 – CR for pilot –** Jinyoung Chun (LGE)

**Discussions:**

Some editorial comments and updated the CR contribution.

SP#6: Do you agree to the resolution of the following CIDs as proposed in 11-21/1134r1

* CID 4685, 5013, 5014, 5015, 5016, 5017, 5018, 7249, 7250, 7251, 7314, 7478

No objection to the SP.

**Adjourn**

The meeting is adjourned at 21:00 PM ET

**Monday Aug 9th, 2021 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Sigurd Schelstraete, MaxLinear) calls the meeting to order at 19:00 PM ET.
2. The Chair follows the agenda in 11-21/1090r15.
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, Tianyu Wu (Apple) or the Chair himself if unable to record attendance via IMAT system.
6. Announcements:
7. Discussions on the agenda.

Technical Submissions**: CRs**

* + [1159r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1159-02-00be-cr-phy-txmask.docx) cr-phy TxMask Xiaogang Chen [22 CID]
  + [1093r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1093-00-00be-cc36-cr-for-36-3-2-3-null-subcarriers.docx) CC36 CR for 36.3.2.3 Null subcarriers Eunsung Park [2 CID]
  + [1094r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1094-00-00be-cc36-cr-for-annex-c.docx) CC36 CR for Annex C Eunsung Park [2 CID]
  + [1182r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1182-00-00be-cc36-cr-on-spatial-configuration-subfield-part2.doc) cc36-cr-on-spatial-configuration-subfield-part2 Ross Jian Yu [2 CID]
  + [1150r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1150-00-00be-cc36-cr-on-36-3-12-8-5.doc) CR on 36.3.12.8.5 Ross Jian Yu [18 CID]
  + [1149r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1149-00-00be-cc36-cr-on-36-3-12-8-4.doc) CR on 36.3.12.8.4 Ross Jian Yu [9 CID]
  + [1170r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1170-00-00be-cc36-cr-for-transmit-requirements-for-ppdus-sent-in-response-to-a-triggering-frame.docx) CR for Tx Req.s for PPDUs Sent in Response to a Triggering Frame Mengshi Hu [4 CID]
  + [1095r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1095-00-00be-cc36-cr-for-36-3-2-5-20-mhz-operating-non-ap-eht-stas.docx) CR for 36.3.2.5 20 MHz op. non-AP EHT STAs Eunsung Park [16 CID]
  + [1077r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1077-01-00be-cc36-comment-resolution-on-sounding-ndp.docx) CC36 Comment Resolution on Sounding NDP Alice Chen [6 CID]
  + [1219r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1219-00-00be-d1-0-cr-for-section-36-3-12.docx) D1.0 CR for Section 36.3.12 Wook Bong Lee [2 CID]
  + [1216r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1216-00-00be-d1-0-cr-for-section-36-3-20.docx) D1.0 CR for Section 36.3.20 Wook Bong Lee [6 CID]
  + [1213r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1213-00-00be-d1-0-cr-for-section-36-3-19-4.docx) D1.0 CR for Section 36.3.19.4 Wook Bong Lee [11 CID]
  + [1212r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1212-01-00be-d1-0-cr-for-section-36-3-9-3.docx) D1.0 CR for Section 36.3.9.3 Wook Bong Lee [3 CID]
  + [1078r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1078-00-00be-cc36-comment-resolution-on-u-sig-part-1.docx) Comment Resolution on U-SIG Part 1 Alice Chen [3 CID]
  + [1148r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1148-01-00be-pdt-eht-sig-crc-reference.doc) PDT-EHT-SIG CRC reference Ross Jian Yu [PDT]

**Attendance**

The following people recorded their attendance for this call:

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (PHY) | 8/9 | Amalladinne, Vamsi | Qualcomm Incorporated |
| TGbe (PHY) | 8/9 | An, Song-Haur | INDEPENDENT |
| TGbe (PHY) | 8/9 | Anwyl, Gary | MediaTek Inc. |
| TGbe (PHY) | 8/9 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/9 | B, Hari Ram | NXP Semiconductors |
| TGbe (PHY) | 8/9 | Barr, David | MaxLinear |
| TGbe (PHY) | 8/9 | Choi, Jinsoo | LG ELECTRONICS |
| TGbe (PHY) | 8/9 | CHUN, JINYOUNG | LG ELECTRONICS |
| TGbe (PHY) | 8/9 | Duan, Ruchen | SAMSUNG |
| TGbe (PHY) | 8/9 | Ghaderipoor, Alireza | MediaTek Inc. |
| TGbe (PHY) | 8/9 | Grandhe, Niranjan | NXP Semiconductors |
| TGbe (PHY) | 8/9 | Hart, Brian | Cisco Systems, Inc. |
| TGbe (PHY) | 8/9 | Hsieh, Hung-Tao | MediaTek Inc. |
| TGbe (PHY) | 8/9 | Hu, Shengquan | MediaTek Inc. |
| TGbe (PHY) | 8/9 | Huang, Lei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (PHY) | 8/9 | Kim, Myeong-Jin | SAMSUNG |
| TGbe (PHY) | 8/9 | Kim, Youhan | Qualcomm Incorporated |
| TGbe (PHY) | 8/9 | Li, Jialing | Qualcomm Technologies, Inc. |
| TGbe (PHY) | 8/9 | liu, baosheng | longsailing |
| TGbe (PHY) | 8/9 | Ma, Li | MediaTek Inc. |
| TGbe (PHY) | 8/9 | Montreuil, Leo | Broadcom Corporation |
| TGbe (PHY) | 8/9 | noh, yujin | Senscomm |
| TGbe (PHY) | 8/9 | Orlando, Christian | IEEE STAFF |
| TGbe (PHY) | 8/9 | Park, Eunsung | LG ELECTRONICS |
| TGbe (PHY) | 8/9 | Redlich, Oded | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/9 | Schelstraete, Sigurd | MaxLinear |
| TGbe (PHY) | 8/9 | Shilo, Shimi | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/9 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/9 | Sun, Bo | ZTE Corporation |
| TGbe (PHY) | 8/9 | Tian, Bin | Qualcomm Incorporated |
| TGbe (PHY) | 8/9 | Varshney, Prabodh | Nokia |
| TGbe (PHY) | 8/9 | Wei, Dong | NXP Semiconductors |
| TGbe (PHY) | 8/9 | Wu, Kanke | Qualcomm Incorporated |
| TGbe (PHY) | 8/9 | Wu, Tianyu | Apple, Inc. |
| TGbe (PHY) | 8/9 | Xin, Yan | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/9 | Yang, Steve TS | MediaTek Inc. |
| TGbe (PHY) | 8/9 | yi, yongjiang | Spreadtrum Communication USA Inc. |
| TGbe (PHY) | 8/9 | Zhang, Yan | NXP Semiconductors |

**CR contributions**

1. **11-21-1159r2 – cr-phy TxMask –** Xiaogang Chen (Intel)

**Discussions:**

C: Some discussions on whether should define preamble puncturing for TB PPDU.

C: Some editorial comments.

A: Will revise and update to r3.

SP#3: Do you agree to accept the proposed CR in 11-21/1159r3 for the following CIDs?

* CID 4639, 4955, 4956, 5020, 5021, 5097, 6094, 6148, 6149, 6444, 6816, 6817, 6837, 7257, 7258, 7259, 7260, 7261, 7262, 7315, 7743, 8142

No objection to the SP.

1. **11-21-1093r0 – CR for 36.3.2.3 Null subcarriers –** Eunsung Park (LGE)

**Discussions:**

C: A few editorial comments.

A: Update to r1.

A: Uploaded a wrong r1. Now updated to r2 with correct version.

SP#1: Do you agree to accept the proposed CR in 11-21/1093r2 for the following CIDs?

* CID 5406, 7157

No objection to the SP.

1. **11-21-1094r0 – CR for Annex C –** Eunsung Park (LGE)

**Discussions:**

C: Need some MIB expert to review CID 4623.

A: The commenter is ok with the CID and we can move forward.

C: Don’t need to worry about MIB comments for now. There will be a mandatory review before SA ballot.

SP#2: Do you agree to accept the proposed CR in 11-21/1094r0 for the following CIDs?

* CID 4500, 4623

No objection to the SP.

1. **11-21-1182r0 – CR on spatial-configuration-subfield-part2 –** Ross Jian Yu (Huawei)

**Discussions:**

No discussions.

SP#4: Do you agree to accept the proposed CR in 11-21/1182r0 for the following CIDs?

* CID 5483, 4952

No objection to the SP.

1. **11-21-1150r0 – CR on 36.3.12.8.5 –** Ross Jian Yu (Huawei)

**Discussions:**

C: Some clarification question on CID 4951.

C: Resolution for CID 5423 changed to revised.

A: Updated to r1.

SP#5: Do you agree to accept the proposed CR in 11-21/1150r1 for the following CIDs?

* CID 4951, 5423, 5424, 5425, 5426, 5427, 5482, 7003, 7221, 7222, 7223, 7224, 7225, 7226, 8122, 8123, 8124, 8125

No objection to the SP.

1. **11-21-1149r0 – CR on 36.3.12.8.4 –** Ross Jian Yu (Huawei)

**Discussions:**

No discussions.

SP#6: Do you agree to accept the proposed CR in 11-21/1149r0 for the following CIDs?

* CID 6440, 6441, 4671, 4857, 4858, 5422, 5480, 8119, 8120

No objection to the SP.

1. **11-21-1170r1 – CR for** **Transmit Requirements for PPDUs Sent in Response to a Triggering Frame –** Mengshi Hu (Huawei)

**Discussions:**

C: UPH field need to align with 11ax and UPH need to be included in each TB PPDU. Each STA has to report it.

A: Need to check with MAC guys on how to specify. Will defer CID 5570. Updated to r2.

SP#7: Do you agree to accept the proposed CR in 11-21/1170r2 for the following CIDs?

* CID ~~5570,~~ 6142, 6143, 7255

No objection to the SP.

**Adjourn**

The meeting is adjourned at 21:00 PM ET

**Monday Aug 16th, 2021 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Sigurd Schelstraete, MaxLinear) calls the meeting to order at 19:00 PM ET.
2. The Chair follows the agenda in 11-21/1090r20.
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, Tianyu Wu (Apple) or the Chair himself if unable to record attendance via IMAT system.
6. Announcements:
7. Discussions on the agenda.

Technical Submissions**: CRs**

* + [1219r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1219-00-00be-d1-0-cr-for-section-36-3-12.docx) D1.0 CR for Section 36.3.12 Wook Bong Lee [2 CID]
  + [1216r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1216-00-00be-d1-0-cr-for-section-36-3-20.docx) D1.0 CR for Section 36.3.20 Wook Bong Lee [6 CID]
  + [1213r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1213-00-00be-d1-0-cr-for-section-36-3-19-4.docx) D1.0 CR for Section 36.3.19.4 Wook Bong Lee [11 CID]
  + [1212r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1212-01-00be-d1-0-cr-for-section-36-3-9-3.docx) D1.0 CR for Section 36.3.9.3 Wook Bong Lee [3 CID]
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  + [1077r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1077-01-00be-cc36-comment-resolution-on-sounding-ndp.docx) CC36 Comment Resolution on Sounding NDP Alice Chen [6 CID]
  + [1078r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1078-00-00be-cc36-comment-resolution-on-u-sig-part-1.docx) Comment Resolution on U-SIG Part 1 Alice Chen [3 CID]
  + [1148r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1148-01-00be-pdt-eht-sig-crc-reference.doc) PDT-EHT-SIG CRC reference Ross Jian Yu [PDT]
  + [1227r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1227-00-00be-cr-phy-txrxprocedure.docx) CR\_PHY\_TxRxProcedure Xiaogang Chen [29 CID]
  + [1153r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1153-00-00be-cc36-cr-for-36-3-12-8-2-eht-sig-content-channels.docx) CR for 36-3-12-8-2-EHT-SIG-content-channels Dongguk Lim [13 CID]
  + [1231r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1231-00-00be-11be-d1-0-cr-on-36-3-12-8-6.docx) CR on 36.3.12.8.6 Lei Huang [10 CID]
  + [1166r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1166-00-00be-cc36-cr-on-eht-phy-introduction-1.docx) CC36 CR on EHT PHY Introduction-1 Kanke Wu [17 CID]
  + [1231r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1231-00-00be-11be-d1-0-cr-on-36-3-12-8-6.docx) CC on 36.3.12.8.6 Lei Huang [10 CID]
  + [1245r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1245-00-00be-cc36-cr-for-cid-5718-and-8102.docx) CR for CID 5718 and 8102 Dongguk Lim [2 CID]

**Attendance**

The following people recorded their attendance for this call:

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (PHY) | 8/16 | Al Falujah, Iyad | ON Semiconductor |
| TGbe (PHY) | 8/16 | Amalladinne, Vamsi | Qualcomm Incorporated |
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| TGbe (PHY) | 8/16 | CHUN, JINYOUNG | LG ELECTRONICS |
| TGbe (PHY) | 8/16 | Duan, Ruchen | SAMSUNG |
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| TGbe (PHY) | 8/16 | Ghaderipoor, Alireza | MediaTek Inc. |
| TGbe (PHY) | 8/16 | Grandhe, Niranjan | NXP Semiconductors |
| TGbe (PHY) | 8/16 | Hart, Brian | Cisco Systems, Inc. |
| TGbe (PHY) | 8/16 | Hsieh, Hung-Tao | MediaTek Inc. |
| TGbe (PHY) | 8/16 | Hu, Shengquan | MediaTek Inc. |
| TGbe (PHY) | 8/16 | Huang, Lei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (PHY) | 8/16 | Ibrahim, Ahmed | Samsung Research America |
| TGbe (PHY) | 8/16 | Jeon, Eunsung | SAMSUNG ELECTRONICS |
| TGbe (PHY) | 8/16 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbe (PHY) | 8/16 | Kim, Youhan | Qualcomm Incorporated |
| TGbe (PHY) | 8/16 | Lee, Hong Won | LG ELECTRONICS |
| TGbe (PHY) | 8/16 | Lee, Wookbong | SAMSUNG |
| TGbe (PHY) | 8/16 | Li, Jialing | Qualcomm Technologies, Inc. |
| TGbe (PHY) | 8/16 | Lim, Dong Guk | LG ELECTRONICS |
| TGbe (PHY) | 8/16 | Lin, Zinan | InterDigital, Inc. |
| TGbe (PHY) | 8/16 | liu, baosheng | longsailing |
| TGbe (PHY) | 8/16 | Liu, Jianhan | MediaTek Inc. |
| TGbe (PHY) | 8/16 | Lumbatis, Kurt | CommScope, Inc. |
| TGbe (PHY) | 8/16 | Montreuil, Leo | Broadcom Corporation |
| TGbe (PHY) | 8/16 | noh, yujin | Senscomm |
| TGbe (PHY) | 8/16 | Pare, Thomas | MediaTek Inc. |
| TGbe (PHY) | 8/16 | Park, Eunsung | LG ELECTRONICS |
| TGbe (PHY) | 8/16 | Schelstraete, Sigurd | MaxLinear |
| TGbe (PHY) | 8/16 | Shilo, Shimi | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/16 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/16 | Varshney, Prabodh | Nokia |
| TGbe (PHY) | 8/16 | Wei, Dong | NXP Semiconductors |
| TGbe (PHY) | 8/16 | Wu, Kanke | Qualcomm Incorporated |
| TGbe (PHY) | 8/16 | Wu, Tianyu | Apple Inc. |
| TGbe (PHY) | 8/16 | Xin, Yan | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/16 | Yang, Steve TS | MediaTek Inc. |
| TGbe (PHY) | 8/16 | Zhang, Yan | NXP Semiconductors |

**CR contributions**

1. **11-21-1219r0 – D1.0 CR for Section 36.3.12 –** Wook Bong Lee (Samsung)

**Discussions:**

No discussions.

SP#1: Do you agree to accept the proposed CR in 11-21/1219r0 for the following CIDs?

* CID 7906, 7995

No objection to the SP.

1. **11-21-1216r0 – D1.0 CR for Section 36.3.20 –** Wook Bong Lee (Samsung)

**Discussions:**

C: CID 4614, discussions on whether the guard tones are sufficient.

C: We have done evaluations which shows even with 40ppm, 5DC tones has very little problem.

A: Is it simulation-based evaluation?

C: Yes, it is simulation based.

A: The problem is in implementation there could be more impairments.

C: We have more guard tones in EHT than in HE and it is not hard to satisfy the requirement.

C: For CID 4615, an MCS in range <10dB is something wrong. Typically better have 20dB range.

A: We don’t need to worry about it since implementation can achieve better sensitivity than -34dBm.

C: Have to have smaller noise figure and digital implementation to support 4kQAM.

A: The easy way is to increase max input level from -30 to -25dBm.

C: If change input level for every MCS, we need to double check.

SP#2: Do you agree to accept the proposed CR in 11-21/1216r1 for the following CIDs?

* CID 4614, 5432, 6818, 7269, 7316

No objection to the SP.

Note: CID 4615 is deferred.

1. **11-21-1212r1 – D1.0 CR for Section 36.3.19.3 –** Wook Bong Lee (Samsung)

**Discussions:**

No discussions.

SP#3: Do you agree to accept the proposed CR in 11-21/1212r1 for the following CIDs?

* CID 4553, 4544, 6095

No objection to the SP.

1. **11-21-1095r1 – CR for 36.3.2.5 20 MHz op. non-AP EHT STAs –** Eunsung Park (LGE)

**Discussions:**

C: Clarify some of the proposed change is removing redundant text.

SP#4: Do you agree to accept the proposed CR in 11-21/1095r1 for the following CIDs?

* CID 4537, 5525, 5526, 5566, 5873, 6791, 6792, 6793, 7158, 7159, 7160, 7161, 7162, 7163, 7164, 7165

No objection to the SP.

1. **11-21-1077r1 – CC36 Comment Resolution on Sounding NDP –** Alice Chen (Qualcomm)

**Discussions:**

C: For CID 4787, there is no change, it should be rejected or revised in the resolution?

A: Based on guideline, if the comment is correct, the resolution should be revised, repeat the resolution and add note to editor that there is no further change in spec.

C: Can receiver just based on number of the symbols =0 to find the PPDU is NDP?

A: It’s up to Rx implementation how to tell EHT NDP PPDU. The paragraph is saying how to set the U-SIG field for EHT NDP PPDU.

C: Some editorial comments.

SP#5: Do you agree to accept the proposed CR in 11-21/1077r1 for the following CIDs?

* CID 4786, 4787, 4788, 4912, 5407, 7256, 7480.

No objection to the SP.

1. **11-21-1078r0 – CC36 Comment Resolution on U-SIG Part 1** **–** Alice Chen (Qualcomm)

**Discussions:**

No Discussions.

SP#6: Do you agree to accept the proposed CR in 11-21/1078r0 for the following CIDs?

* CID 4848, 5002, 8105

No objection to the SP.

**Adjourn**

The meeting is adjourned at 21:00 PM ET

**Monday Aug 23rd, 2021 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Sigurd Schelstraete, MaxLinear) calls the meeting to order at 19:00 PM ET.
2. The Chair follows the agenda in 11-21/1090r26.
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, Tianyu Wu (Apple) or the Chair himself if unable to record attendance via IMAT system.
6. Announcements:
7. Discussions on the agenda.

Technical Submissions**: CRs**

* + [1148r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1148-01-00be-pdt-eht-sig-crc-reference.doc) PDT-EHT-SIG CRC reference Ross Jian Yu [PDT]
  + [1227r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1227-00-00be-cr-phy-txrxprocedure.docx) CR\_PHY\_TxRxProcedure Xiaogang Chen [29 CID]
  + [1153r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1153-00-00be-cc36-cr-for-36-3-12-8-2-eht-sig-content-channels.docx) CR for 36-3-12-8-2-EHT-SIG-content-channels Dongguk Lim [13 CID]
  + [1231r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1231-01-00be-11be-d1-0-cr-on-36-3-12-8-6.docx) CR on 36.3.12.8.6 Lei Huang [10 CID]
  + [1166r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1166-00-00be-cc36-cr-on-eht-phy-introduction-1.docx) CC36 CR on EHT PHY Introduction-1 Kanke Wu [17 CID]
  + [1245r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1245-00-00be-cc36-cr-for-cid-5718-and-8102.docx) CR for CID 5718 and 8102 Dongguk Lim [2 CID]
  + [1146r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1146-02-00be-cc36-comment-resolution-on-u-sig-part-2.docx) Comment Resolution on U-SIG Part 2 Alice Chen [14 CID]
  + [1217r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1217-00-00be-cc36-cr-on-eht-phy-introduction-part-3.docx) CR on EHT PHY Introduction-part2 Kanke Wu [18 CID]
  + [1167r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1167-00-00be-cc36-cr-on-eht-phy-introduction-part2.docx) CR on EHT PHY Introduction-part 3 Kanke Wu [20 CID]
  + [1232r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1232-00-00be-cc36-cr-for-cid-6940.docx) CR for CID 6940 Yanyi Ding [1 CID]
  + [1268r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1268-00-00be-cr-on-36-3-12-8-3-part2.doc) CR-on-36.3.12.8.3-part2 Ross Jian Yu [5 CID]
  + [1269r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1269-00-00be-cr-on-36-3-12-8-3-part3.doc) CR-on-36.3.12.8.3-part3 Ross Jian Yu [4 CID]

**Attendance**

The following people recorded their attendance for this call:

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (PHY) | 8/23 | Al Falujah, Iyad | ON Semiconductor |
| TGbe (PHY) | 8/23 | Amalladinne, Vamsi | Qualcomm Incorporated |
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| TGbe (PHY) | 8/23 | Ghaderipoor, Alireza | MediaTek Inc. |
| TGbe (PHY) | 8/23 | Hsieh, Hung-Tao | MediaTek Inc. |
| TGbe (PHY) | 8/23 | Hu, Shengquan | MediaTek Inc. |
| TGbe (PHY) | 8/23 | Ibrahim, Ahmed | Samsung Research America |
| TGbe (PHY) | 8/23 | Jeon, Eunsung | SAMSUNG ELECTRONICS |
| TGbe (PHY) | 8/23 | Kim, Myeong-Jin | SAMSUNG |
| TGbe (PHY) | 8/23 | Kim, Youhan | Qualcomm Incorporated |
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| TGbe (PHY) | 8/23 | Li, Jialing | Qualcomm Technologies, Inc. |
| TGbe (PHY) | 8/23 | Li, Yapu | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (PHY) | 8/23 | Ma, Li | MediaTek Inc. |
| TGbe (PHY) | 8/23 | Minotani, Jun | Panasonic Corporation |
| TGbe (PHY) | 8/23 | Montreuil, Leo | Broadcom Corporation |
| TGbe (PHY) | 8/23 | noh, yujin | Senscomm |
| TGbe (PHY) | 8/23 | Park, Eunsung | LG ELECTRONICS |
| TGbe (PHY) | 8/23 | Schelstraete, Sigurd | MaxLinear |
| TGbe (PHY) | 8/23 | Shilo, Shimi | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/23 | Sun, Bo | ZTE Corporation |
| TGbe (PHY) | 8/23 | Tian, Bin | Qualcomm Incorporated |
| TGbe (PHY) | 8/23 | Tsodik, Genadiy | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/23 | Varshney, Prabodh | Nokia |
| TGbe (PHY) | 8/23 | Vermani, Sameer | Qualcomm Incorporated |
| TGbe (PHY) | 8/23 | Wu, Kanke | Qualcomm Incorporated |
| TGbe (PHY) | 8/23 | Wu, Tianyu | Apple, Inc. |
| TGbe (PHY) | 8/23 | Xin, Yan | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/23 | YANG, RUI | InterDigital, Inc. |
| TGbe (PHY) | 8/23 | Yu, Jian | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/23 | Zaman, Malia | IEEE Standards Association (IEEE-SA) |
| TGbe (PHY) | 8/23 | Zhang, Yan | NXP Semiconductors |

**CR contributions**

1. **11-21-1148r1 – PDT-EHT-SIG CRC reference** **–** Ross Jian Yu (Huawei)

**Discussions:**

No Discussions.

SP#1: Do you agree to accept the proposed text modification in 11-21/1148r1 for the next draft of 802.11be?

No objection to the SP.

1. **11-21-1227r1 – D1.0 CR PHY TxRx procedure –** Xiaogang Chen (Intel)

**Discussions:**

C: What’s wrong with scrambling in the figure.

A: It’s not complete. We can remove it from the figure.

C: Some editorial comments and the presenter agree to update offline.

A: Will come back later for SP with updated version.

SP#3: Do you agree to accept the proposed CR in 11-21/1227r2 for the following CIDs?

* CID 4666, 4913, 6096, 6151, 6819, 6820, 6821, 6908, 6912, 7270, 7271, 7272, 7273, 7274, 7275, 7276, 7277, 7278, 7279, 7280, 8143, 8144, 8145, 8147, 8148, 8149, 8150

No objection to the SP.

1. **11-21-1153r1 – CR for 36.3.12.8.2 EHT-SIG content channels –** Dongguk Lim (LGE)

**Discussions:**

C: CID4853: It’s better to just accept the comment.

A: Ok. Updated.

C: A number of editorial comments from different commenters.

A: Update to r2.

SP#2: Do you agree to accept the proposed CR in 11-21/1153r2 for the following CIDs?

* CID 8024, 8023, 8022, 8021, 8020, 8019, 7220, 7219, 7218, 7212, 6152, 4853, 4668

No objection to the SP.

1. **11-21-1231r1 – D1.0 CR on 36.3.12.8.6 –** Lei Huang (OPPO)

**Discussions:**

C: Defer CID 4860 for more discussion and work together with other contributor.

C: Some editorial comment on resolution to CID 7227.

A: Modified the resolution.

C: CID 4862 change from accepted to rejected. Since phase rotation is different for EHT-SIG.

To be continued in next call.

**Adjourn**

The meeting is adjourned at 21:00 PM ET

**Monday Aug 30th, 2021 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Sigurd Schelstraete, MaxLinear) calls the meeting to order at 19:00 PM ET.
2. The Chair follows the agenda in 11-21/1090r29.
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, Tianyu Wu (Apple) or the Chair himself if unable to record attendance via IMAT system.
6. Announcements:
7. Discussions on the agenda.

Technical Submissions**: CRs**

* + [1231r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1231-01-00be-11be-d1-0-cr-on-36-3-12-8-6.docx) CR on 36.3.12.8.6 Lei Huang [10 CID]
  + [1166r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1166-00-00be-cc36-cr-on-eht-phy-introduction-1.docx) CC36 CR on EHT PHY Introduction-1 Kanke Wu [17 CID]
  + [1245r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1245-00-00be-cc36-cr-for-cid-5718-and-8102.docx) CR for CID 5718 and 8102 Dongguk Lim [2 CID]
  + [1146r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1146-02-00be-cc36-comment-resolution-on-u-sig-part-2.docx) Comment Resolution on U-SIG Part 2 Alice Chen [14 CID]
  + [1217r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1217-00-00be-cc36-cr-on-eht-phy-introduction-part-3.docx) CR on EHT PHY Introduction-part3 Kanke Wu [18 CID]
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  + [1269r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1269-00-00be-cr-on-36-3-12-8-3-part3.doc) CR-on-36.3.12.8.3-part3 Ross Jian Yu [4 CID]
  + [1265r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1265-00-00be-cc36-cr-for-mathematical-description-of-signals.docx) CR for Mathematical description of Signals Yan Zhang [27 CID]
  + [1266r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1266-00-00be-cc36-cr-for-coding.docx) CR for coding Yan Zhang [22 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[20 CID]
  + [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/RXVEC. Mengshi Hu [7 CID]

**Attendance**

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| TGbe (PHY) | 8/30 | Park, Eunsung | LG ELECTRONICS |
| TGbe (PHY) | 8/30 | Redlich, Oded | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/30 | Roder, Patricia | IEEE STAFF |
| TGbe (PHY) | 8/30 | Schelstraete, Sigurd | MaxLinear |
| TGbe (PHY) | 8/30 | Sherlock, Ian | Texas Instruments Inc. |
| TGbe (PHY) | 8/30 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/30 | Tian, Bin | Qualcomm Incorporated |
| TGbe (PHY) | 8/30 | Tsodik, Genadiy | Huawei Technologies Co., Ltd |
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| TGbe (PHY) | 8/30 | Yu, Jian | Huawei Technologies Co., Ltd |
| TGbe (PHY) | 8/30 | Zhang, Yan | NXP Semiconductors |

**CR contributions**

1. **11-21-1231r1 – CR on 36.3.12.8.6** **–** Lei Huang (Oppo)

**Discussions:**

C: CID 8128, for non-OFDMA, there is no definition on content channel index. See resolution to CID 7227.

A: Changed to reject.

C: Some editorial comments.

A: Updated to R2.

SP#1: Do you agree to accept the proposed CR in 11-21/1231r2 for the following CIDs?

* CID 4861,7227,7228,4862,4863,8126,4677,8127,8128

No objection to the SP.

Note: CID 4860 removed in 1231r2.

1. **11-21-1166r0 – CC36 CR on EHT PHY Introduction-1 –** Kanke Wu (Qualcomm)

**Discussions:**

C: For CID 7948, We refer to clause 17 before, why adding clause 16 and 18?

A: For 2.4GHz band, clause 17 doesn’t apply.

C: Clause 17 is the very original clause shall apply to 2.4GHz band as well.

A: Clause 17 is 11a for 5GHz band.

C: Some clarification questions and editorial comments.

A: Updated to r1.

SP#3: Do you agree to accept the proposed CR in 11-21/1166r1 for the following CIDs?

* CID 6909, 6910, 7949, 7094, 7096, 7948, 4894, 5086, 5087, 5088, 7097, 7638, 7803, 7804, 7953, 7954, 5713, 5723, 7952, 7098, 6916, 7360, 7361, 7362, 7363, 7639, 7951, 5679, 7640, 8081, 7957, 7636

No objection to the SP.

1. **11-21-1245r0 – CR for CID 5718 and 8102 –** Dongguk Lim (LGE)

**Discussions:**

C: Why do you need a note?

A: It’s ok to keep 2 set of the naming for 320Mhz. A lot of places only care about the BW, but not care 320-1 or 320-2. And the note helps clarify it.

SP#2: Do you agree to accept the proposed CR in 11-21/1245r1 for the following CIDs?

* CID 5718, 8102

No objection to the SP.

1. **11-21-1146r2 – Comment Resolution on U-SIG Part 2 –** Alice Chen (Qualcomm)

**Discussions:**

C: CID 7208, change to BPSK constellation points.

C: L2 "carry the same" x2, L3, typo, "thrid" => third, L9, U-SIG => "U-SIG field" (several places), Also recommend "modulated symbols" to "constellation points" as before.

A: Will update to r3.

SP#4: Do you agree to accept the proposed CR in 11-21/1146r3 for the following CIDs?

* CID 4849, 4850, 5003, 5004, 5005, 5413, 5414, 5821, 6800, 6801, 6802, 7208, 7477, 8215.

No objection to the SP.

1. **11-21-1167r0 – CR on EHT PHY Introduction-part 2 –** Kanke Wu (Qualcomm)

**Discussions:**

C: CID 4520 and 7965, The change is based on D1.0 or D1.1?

A: It’s D1.1.

C: At the beginning of the CR doc, it says D1.0? It does not much.

A: I will change to D1.1 and update to r1.

SP#5: Do you agree to accept the proposed CR in 11-21/1167r1 for the following CIDs?

* CID 7637, 7320, 5454, 5872, 7955, 7960, 7101, 7102, 7961, 8082, 7110, 7972, 4520, 7965, 7103, 7641, 7099, 7104, 7963, 5089

No objection to the SP.

**Adjourn**

The meeting is adjourned at 21:00 PM ET