IEEE P802.11  
Wireless LANs

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| Minutes 802.11 be PHY ad hoc Telephone Conferences,  February – March 2022 | | | | |
| Date: 2022-02-14 | | | | |
| Author(s): | | | | |
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| Sigurd Schelstraete | MaxLinear |  |  | sschelstraete@maxlinear.com |

Abstract

This document contains the PHY ad hoc meeting minutes for TGbe teleconferences held in February and March.

* R0: Feb 7, 2022
* R1: Feb 14, 2022
* R2: Feb 28, 2022

**Monday Feb 7th, 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 11-22/0110r6.
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.
   * 0063r1 CC36 CR for EHT PPE Thresholds Field Mengshi Hu
   * [1165r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1165-00-00be-cc36-comment-resolution-on-u-sig-part-3.docx) CC36 Comment Resolution on U-SIG Part 3 Alice Chen [16C]
   * [0078r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0078-00-00be-cc36-comment-resolution-on-u-sig-part-5.docx) CC36 Comment Resolution on U-SIG Part 5 Alice Chen [15C]
   * [2003r0](https://mentor.ieee.org/802.11/dcn/21/11-21-2003-00-00be-cc36-comment-resolutions-for-cid-4985.doc) CC36 Comment Resolutions for CID 4985 Myeongjin Kim [1C]
   * [0113r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0113-00-00be-cc36-cr-for-ltf.docx) CR for LTF Chenchen Liu [40C]
   * [0144r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0144-00-00be-crs-on-data-field.docx) CRs-on-Data field Jianhan Liu [40C]
   * [0086r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0086-00-00be-cr-for-cids-on-36-3-2-7.docx) CR for CIDs on 36.3.2.7 Yan Xin [17C]
   * [0195r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0195-01-00be-phytxrxvector-cid4643.docx) phyTxRxVector (CID4643) Brian Hart [1C]

**Attendance**

The following people registered their attendance for the call:

* Vamsi Amalladinne (Qualcomm Incorporated)
* Hari Ram B (NXP Semiconductors)
* David Barr (MaxLinear)
* Anuj Batra (Apple, Inc.)
* Rui Cao (NXP Semiconductors)
* JINYOUNG CHUN (LG ELECTRONICS)
* Shuling feng (MediaTek Inc.)
* Brian Hart (Cisco Systems, Inc.)
* Lei Huang (Guangdong OPPO Mobile Telecommunications Corp.,Ltd)
* Youhan Kim (Qualcomm Incorporated)
* Wookbong Lee (SAMSUNG)
* Chris Levesque (Qorvo)
* Jialing Li (Qualcomm Technologies, Inc.)
* Yapu Li (Guangdong OPPO Mobile Telecommunications Corp.,Ltd)
* Dong Guk Lim (LG ELECTRONICS)
* Li Ma (MediaTek Inc.)
* Jun Minotani (Panasonic Corporation)
* Vamadevan Namboodiri (SAMSUNG ELECTRONICS)
* 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.)
* JUNG HOON SUH (Huawei Technologies Co., Ltd)
* Bo Sun (ZTE Corporation)
* Bin Tian (Qualcomm Incorporated)
* Genadiy Tsodik (Huawei Technologies Co., Ltd)
* Prabodh Varshney (Nokia)
* Sameer Vermani (Qualcomm Incorporated)
* Dong Wei (NXP Semiconductors)
* Kanke Wu (Qualcomm Incorporated)
* Tianyu Wu (Apple, Inc.)
* Yan Xin (Huawei Technologies Co., Ltd)
* Ryota Yamada (SHARP CORPORATION)
* Steve TS Yang (MediaTek Inc.)
* Yongjiang Yi (Spreadtrum Communication USA Inc.)
* Malia Zaman (IEEE Standards Association (IEEE-SA))
* Jiayi Zhang (Ofinno)
* Yan Zhang (NXP Semiconductors)

**Presentations**

**0063 CC36 CR for EHT PPE Thresholds Field (Mengshi Hu)**

SP#1

Do you agree to the resolution of the following CIDs as in 11-22/0063r1?

* CIDs 4518, 4519, 7054, 7732, 7736, 8173

No objection

**1165r1 CC36 Comment Resolution on U-SIG Part 3 (Alice Chen)**

SP#2

Do you agree to the resolution of the following CIDs as in 11-21/1165r1?

* CIDs 4595, 4944, 4945, 5408, 6434, 6435, 7199, 7200, 7345, 7999, 8000, 8001, 8002, 8003, 8004, 8005

No objection

**0078r1 CC36 Comment Resolution on U-SIG Part 5 (Alice Chen)**

SP#3

Do you agree to the resolution of the following CIDs as in 11-22/0078r2?

* CIDs 4596, 4597, 4655, 4608, 4609, 4669, 5412, 5477, 5819, 6436, 6997, 7201, 7204, 7207, 8006

No objection

**2003r0 CC36 Comment Resolutions for CID 4985 (Myeongjin Kim)**

SP#4

Do you agree to the resolution of the following CID as in 11-21/2003r1?

* CID 4985

No objection

**Adjourn**

The meeting is adjourned at 21:00 ET.

**Monday Feb 14th, 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 11-22/0110r10.
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.
   * [0113r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0113-01-00be-cc36-cr-for-ltf.docx) CR for LTF Chenchen Liu [40C]

* + [0144r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0144-00-00be-crs-on-data-field.docx) CRs-on-Data field Jianhan Liu [7C]

* + [0086r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0086-00-00be-cr-for-cids-on-36-3-2-7.docx) CR for CIDs on 36.3.2.7 Yan Xin [17C]
  + [0133r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0133-02-00be-cc36-cr-for-cids-5461-and-8089-related-to-ru-allocation.docx) CR 4 CIDs 5461 and 8089 related to RU\_ALLOCATIONMengshi Hu [2C]
  + [0231r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0231-00-00be-cc36-cr-for-ul-power-headroom.docx) CR for UL power headroom Mengshi Hu [1C]
  + [0183r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0183-01-00be-cc36-cr-for-nominal-packet-padding-values-part-2.docx) CR for Nominal Packet Padding Values - Part 2 Mengshi Hu [11C]
  + [0277r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0277-00-00be-cc36-comment-resolution-for-subclause-36-3-5.docx) Comment Resolution for subclause 36.3.5 Srinath Puducheri[7C]
  + [0321r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0321-00-00be-eht-phy-mib.docx) EHT PHY MIB Youhan Kim [1C]

**Attendance**

The following people registered their attendance for the call:

* Vamsi Amalladinne (Qualcomm Incorporated)
* Hari Ram B (NXP Semiconductors)
* David Barr (MaxLinear)
* Rui Cao (NXP Semiconductors)
* Ruchen Duan (SAMSUNG)
* Shuling feng (MediaTek Inc.)
* Lei Huang (Guangdong OPPO Mobile Telecommunications Corp.,Ltd)
* Kazi Mohammed Saidul Huq (Ofinno)
* Myeong-Jin Kim (SAMSUNG)
* Youhan Kim (Qualcomm Incorporated)
* Leonardo Lanante (Ofinno)
* Wookbong Lee (SAMSUNG)
* Chris Levesque (Qorvo)
* Jialing Li (Qualcomm Technologies, Inc.)
* Yapu Li (Guangdong OPPO Mobile Telecommunications Corp.,Ltd)
* Dong Guk Lim (LG ELECTRONICS)
* Jianhan Liu (MediaTek Inc.)
* Li Ma (MediaTek Inc.)
* Jun Minotani (Panasonic Corporation)
* Vamadevan Namboodiri (SAMSUNG ELECTRONICS)
* Thomas Pare (MediaTek Inc.)
* Eunsung Park (LG ELECTRONICS)
* Patricia Roder (IEEE STAFF)
* Sigurd Schelstraete (MaxLinear)
* Ian Sherlock (Texas Instruments Inc.)
* Shimi Shilo (Huawei Technologies Co., Ltd)
* JUNG HOON SUH (Huawei Technologies Co., Ltd)
* Bo Sun (ZTE Corporation)
* Genadiy Tsodik (Huawei Technologies Co., Ltd)
* Prabodh Varshney (Nokia)
* Dong Wei (NXP Semiconductors)
* Kanke Wu (Qualcomm Incorporated)
* Yan Xin (Huawei Technologies Co., Ltd)
* Ryota Yamada (SHARP CORPORATION)
* Steve TS Yang (MediaTek Inc.)
* Jiayi Zhang (Ofinno)
* Yan Zhang (NXP Semiconductors)

**Presentations**

**0113r0 CR for LTF (Chenchen Liu)**

Note: CID 5720 is deferred

SP#1

Do you agree to the resolution of the following CIDs as proposed in 11-22/0113r2?

* CID: 4570, 4571, 4577, 4578, 4580, 4676, 4864, 4865, 5530, 5531, 5721, 7232, 7747, 8026, 4866, 4953, 5529, 7229, 7648, 4954, 5006, 5094, 5095, 6833, 5007, 5008, 5486, 5722, 6093, 6471, 7000, 7745, 6834, 6835, 6836, 7231, 7230, 7233, 7234

No objection

**0144r0 CRs-on-Data field (Jianhan Liu)**

SP#2

Do you agree to the resolution of the following CIDs as proposed in 11-22/0144r1?

* CID: 4618, 5012, 8138, 4960, 5011, 7011, 8137

No objection

**0086r1 CR for CIDs on 36.3.2.7 (Yan Xin)**

Document is partially presented. Presentation will resume during the next call.

**Adjourn**

The meeting is adjourned at 21:00 ET.

**Monday Feb 28th, 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 11-22/0110r17.
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.

* [1672r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1672-04-00be-some-mac-phy-layering-issues.docx) Some MAC-PHY Layering Issues Brian Hart [3C SP]
* [0086r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0086-02-00be-cr-for-cids-on-36-3-2-7.docx) CR for CIDs on 36.3.2.7 Yan Xin [17C ]
* [0183r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0183-01-00be-cc36-cr-for-nominal-packet-padding-values-part-2.docx) CR for Nominal Packet Padding Values - Part 2 Mengshi Hu [11C]
* [1220r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1220-00-00be-cc36-cr-on-eht-phy-introduction-20mhz-device-related-cids.docx) CRs on PHY Introduction 20MHz devices related CIDs Bin Tian [14C]
* [0195r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0195-02-00be-phytxrxvector-cid4643.docx) phyTxRxVector (CID4643) Brian Hart [1C]
* [0133r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0133-02-00be-cc36-cr-for-cids-5461-and-8089-related-to-ru-allocation.docx) CR 4 CIDs 5461 & 8089 related to RU\_ALLOCATION Mengshi Hu [2C]
* [0231r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0231-00-00be-cc36-cr-for-ul-power-headroom.docx) CR for UL power headroom Mengshi Hu [1C]
* [0277r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0277-00-00be-cc36-comment-resolution-for-subclause-36-3-5.docx) Comment Resolution for subclause 36.3.5 Srinath Puducheri[7C]
* [0321r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0321-00-00be-eht-phy-mib.docx) EHT PHY MIB Youhan Kim [1C]
* [0324r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0324-00-00be-d1-0-crs-on-36-2-6-support-for-non-ht-ht-vht-and-he-formats.docx) CRs on 36.2.6 Supp. 4 non-HT, HT, VHT, and HE form. Bo Gong [4C]
* [0323r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0323-00-00be-d1-0-crs-on-36-3-13-13-dcm.docx) CRs on 36.3.13.13 DCM Bo Gong [2C]
* [0322r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0322-00-00be-d1-0-crs-on-36-2-6-1.docx) CRs on 36.2.6.1 Bo Gong [6C]
* [0346r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0346-00-00be-cc36-comment-resolutions-for-cid-4663.docx) Comment Resolutions for CID 4663 Dongguk Lim [1C]

**Attendance**

The following people registered their attendance for the call:

* Vamsi Amalladinne (Qualcomm Incorporated)
* Kwok Shum Au (Huawei Technologies Co., Ltd)
* Hari Ram B (Nxp Semiconductors)
* David Barr (Maxlinear)
* Anuj Batra (Apple, Inc.)
* Rui Cao (Nxp Semiconductors)
* Jinyoung Chun (Lg Electronics)
* Shuling Feng (Mediatek Inc.)
* Hung-Tao Hsieh (Mediatek Inc.)
* Lei Huang (Guangdong Oppo Mobile Telecommunications Corp.,Ltd)
* Kazi Mohammed Saidul Huq (Ofinno)
* Mahmoud Kamel (Interdigital, Inc.)
* Myeong-Jin Kim (Samsung)
* Youhan Kim (Qualcomm Incorporated)
* Vanessa Lalitte (Ieee Sa)
* Leonardo Lanante (Ofinno)
* Jialing Li (Qualcomm Technologies, Inc.)
* Yapu Li (Guangdong Oppo Mobile Telecommunications Corp.,Ltd)
* Dong Guk Lim (Lg Electronics)
* Leo Montreuil (Broadcom Corporation)
* Vamadevan Namboodiri (Samsung Electronics)
* Eunsung Park (Lg Electronics)
* Oded Redlich (Huawei Technologies Co., Ltd)
* Sigurd Schelstraete (Maxlinear)
* Jung Hoon Suh (Huawei Technologies Co., Ltd)
* Bo Sun (Zte Corporation)
* Genadiy Tsodik (Huawei Technologies Co., Ltd)
* Sameer Vermani (Qualcomm Incorporated)
* Dong Wei (Nxp Semiconductors)
* Kanke Wu (Qualcomm Incorporated)
* Ryota Yamada (Sharp Corporation)
* Aiguo Yan (Zeku)
* Steve Ts Yang (Mediatek Inc.)
* Jian Yu (Huawei Technologies Co., Ltd)
* Jiayi Zhang (Ofinno)
* Yan Zhang (Nxp Semiconductors)

**Presentations**

**1672r4 Some MAC-PHY Layering Issues (Brian Hart)**

CIDs 4627, 4628, and 4629.

Discussion on where to keep the configuration INACTIVE\_SUBCHANNELS: PHY\_CONFIG? PLME?

Q: is this new language needed in the mask section?

A: trying to avoid layer violations

Q: how to capture support various MCS for LDPC (10-13)?

Document is revised to R8. A new parameter in PHY CONFIG vector is added: DISABLED\_SUBCHANNEL\_BITMAP.

SP#2

Do you agree to the resolution of the following CIDs as proposed in 11-22/1673r8

* CIDs 4627, 4628, and 4629

No objection

**0086r2 CR for CIDs on 36.3.2.7 (Yan Xin)**

Most CIDs were addressed during previous presentation. Two CIDs (CIDs 6796, 4651) were taken offline for further discussion. The submission was updated to R2 as a result.

Minor changes -> r3

SP#1:

Do you agree to the resolution of the following CIDs as proposed in 11-22/0086r3?

* CIDs 4538, 4539, 4632, 4651, 4686, 4990, 5567, 6794, 6795, 6796, 7166, 7167, 7168, 7169, 7170, 7801, 8093

No objection

**0183r1 CR for Nominal Packet Padding Values - Part 2 (Mengshi Hu)**

SP#3:

Do you agree to the resolution of the following CIDs as proposed in 11-22/0183r2?

* CIDs 6814, 7734, 7735, 7737, 7738, 7940, 7942, 7943, 7944, 7945, 7946

No objection

**Adjourn**

The meeting is adjourned at 21:00 ET.