IEEE P802.11
Wireless LANs

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| TGbe July to September 2021 teleconference minutes |
| Date: 2021-08-04 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Dennis Sundman | Ericsson |  |  | dennis.sundman@ericsson.com |
| Matthew Fischer | Broadcom |  |  |  |

Abstract

This document contains the minutes for July to September 2021 TGbe teleconferences.

Revisions:

* Rev0: First revision of the document.
* Rev1:
	+ Includes minutes from 11th conf call, held on August 11 at 10:00 EDT
		- Minutes taken by Matthew Fischer
* Rev2: Added minutes for 14th and 17th conf call. Also added references to minutes 12-13th and 15-16th conference calls.

# 5th Conf. Call: July 21 (10:00–12:00 ET)

Only MAC.

* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-1262-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-july-to-september-2021.docx>

# 6th Conf. Call: July 22 (10:00–12:00 ET)

Only MAC.

* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-1262-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-july-to-september-2021.docx>

# 7th Conf. Call: July 26 (10:00–12:00 ET)

Split PHY and MAC.

* PHY: <https://mentor.ieee.org/802.11/dcn/21/11-21-1324-00-00be-minutes-for-tgbe-phy-ad-hoc-cc-july-2021-to-sept-2021.docx>
* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-1262-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-july-to-september-2021.docx>

# 8th Conf. Call: July 28 (10:00–12:00 ET)

1. The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order at 10:02 ET. The Chair notifies that the agenda is in [1090r13](https://mentor.ieee.org/802.11/dcn/21/11-21-1090-13-00be-july-sept-tgbe-teleconference-agenda.docx).
2. IEEE 802 and 802.11 IPR policy and procedure
	1. Patent Policy: Ways to inform IEEE:
		* Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
		* Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
		* Speak up now and respond to this Call for Potentially Essential Patents. **Nobody speaks/writes up**.

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

* 1. The Chair reviews: Copyright Policy: Participants are advised that
		+ IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		+ Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	2. The Chair reviews: Patent, Participation, Copyright and policy related subclause: Please refer to *Patent And Procedures* in [1090r13](https://mentor.ieee.org/802.11/dcn/21/11-21-1090-13-00be-july-sept-tgbe-teleconference-agenda.docx).
1. Attendance reminder.
* Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
* Please record your attendance during the conference call by using the IMAT system:
	+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Dennis Sundman (dennis.sundman@ericsson.com) and Alfred Asterjadhi (aasterja@qti.qualcomm.com)
* Please ensure that the following information is listed correctly when joining the call: "[voter status] First Name Last Name (Affiliation)"
	+ N/A at this time.
1. Agenda.

Discussion:

C: Can you remove 1247.

C: 1233 is r3.

Agenda approved with unanimous consent.

1. Technical submissions: CRs
	1. [1103r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1103-00-00be-cc36-cr-on-9-4-1-67a-d-d101-part1.doc) CR on 9.4.1.67a-d part1 Genadiy Tsodik [8C 15’]

Genadiy reviews the CIDs. Some live updates.

SP:

Do you agree to the resolution of the following CIDs as proposed in 1103r1?

* + - 4331, 4594, 4889, 4890, 4891, 4892, 5025, 5397.

Discussion: None.

Result: Supported with no objection from the group.

* 1. [1169r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1169-01-00be-cc36-cr-for-he-variant-user-info-field.docx) CR for HE Variant User Info Field Mengshi Hu [9C 15’]

Mengshi reviews the CIDs. Some live updates.

SP:

Do you agree to the resolution of the following CIDs as proposed in 1169r2?

* + - 4324, 4344, 4345, 4346, 7899, 7900, 7901, 7903.

Note: Changes in r2 are same as r1 except that the note to editor is replaced with instructions to editor and the shall not disappears from the proposed note.

Discussion: None.

Result: Straw poll supported with no objection from the group.

* 1. [1105r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1105-00-00be-cc36-cr-on-9-3-1-19-d101.doc) CR on 9.3.1.19 NDP Announcement frame form. Genadiy Tsodik [5C 20’]

Genediy reviews the CIDs. Some live updates.

* 1. [1233r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1233-00-00be-cc36-cr-on-9-3-1-22-1-1.docx) CC on 9.3.1.22.1.1 Lei Huang [6C 10’]

Lei reviews the CIDs. Some live updates.

SP: Do you agree to the resolution of the following CIDs as proposed in 1233r3?

* + - 4501, 4808, 5791, 6689, 6690, 6691.

Discussion: No discussion.

Result: Straw poll supported with no objection from the group.

1. Technical submissions.
	1. [1672r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1672-02-00be-ul-beamforming-for-tb-ppdus.pptx) UL Beamforming for TB PPDUs Shimi Shilo [Q&A-15’]

Shimi summarizes the presentation.

Discussion:

C: What does the SNR in 16 correspond to in this figure?

A: These are simulations for UL MU-MIMO. These are not fixed SNR. But average SNR per STA is the same.

1. AoB: None.
2. Adjourned at 12:00.

# 9th Conf. Call: July 29 (10:00–12:00 ET)

Only MAC.

* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-1262-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-july-to-september-2021.docx>

# 10th Conf. Call: August 09 (19:00–21:00 ET)

Split PHY and MAC.

* PHY: <https://mentor.ieee.org/802.11/dcn/21/11-21-1324-00-00be-minutes-for-tgbe-phy-ad-hoc-cc-july-2021-to-sept-2021.docx>
* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-1262-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-july-to-september-2021.docx>

# 11th Conf. Call: August 11 (10:00–12:00 ET)

1. The Chair, Alfred Asterjadhi (Qualcomm), introduces himself and calls the meeting to order at 10:00 ET.
	1. The Chair informs the attendees that the agenda for the meeting is found in [1090r17](https://mentor.ieee.org/802.11/dcn/21/11-21-1090-17-00be-july-sept-tgbe-teleconference-agenda.docx).
	2. The Chair notes that the secretary, Dennis Sundman, is not present at the meeting and therefore, for this meeting, minutes will be taken by Vice Chair Matthew Fischer (Broadcom)
		* Matthew Fischer indicates his presence and readiness to record minutes
2. IEEE 802 and 802.11 IPR policy and procedure
	1. Patent Policy: Ways to inform IEEE:
		* Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
		* Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
		* Speak up now and respond to this Call for Potentially Essential Patents.

Per these rules, the Chair verbally requests that:

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

No one responds.

* 1. The Chair reviews the Copyright Policy by stating that meeting Participants are advised that:
		+ IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		+ Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	2. The Chair reviews: Patent, Participation, Copyright and policy related subclause: Please refer to *Patent And Procedures* in [1090r17](https://mentor.ieee.org/802.11/dcn/21/11-21-1090-17-00be-july-sept-tgbe-teleconference-agenda.docx).
1. Attendance reminder.
* Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
* Please record your attendance during the conference call by using the IMAT system:
	+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Dennis Sundman (dennis.sundman@ericsson.com) and Alfred Asterjadhi (aasterja@qti.qualcomm.com) and Matthew Fischer matthew.fischer@broadcom.com
* Please ensure that the following information is listed correctly when joining the call: "[voter status] First Name Last Name (Affiliation)"
	+ AbidRabbu, Shaima' Istanbul Medipol University; Vestel
	+ Aboulmagd, Osama Huawei Technologies Co., Ltd
	+ Ajami, Abdel Karim Qualcomm Incorporated
	+ Al Falujah, Iyad ON Semiconductor
	+ An, Song-Haur INDEPENDENT
	+ Anwyl, Gary MediaTek Inc.
	+ Asterjadhi, Alfred Qualcomm Incorporated
	+ B, Hari Ram NXP Semiconductors
	+ Baek, SunHee LG ELECTRONICS
	+ Bahn, Christy IEEE STAFF
	+ baron, stephane Canon Research Centre France
	+ Barr, David MaxLinear
	+ Boldy, David Broadcom Corporation
	+ Carney, William Sony Group Corporation
	+ CHAN, YEE Facebook
	+ Chemrov, Kirill IITP RAS
	+ Cheng, Paul MediaTek Inc.
	+ CHERIAN, GEORGE Qualcomm Incorporated
	+ Chitrakar, Rojan Panasonic Asia Pacific Pte Ltd.
	+ Chu, Liwen NXP Semiconductors
	+ CHUN, JINYOUNG LG ELECTRONICS
	+ Ciochina, Dana Sony Corporation
	+ Coffey, John Realtek Semiconductor Corp.
	+ Das, Subir Perspecta Labs Inc
	+ Dong, Xiandong Xiaomi Inc.
	+ Duan, Ruchen SAMSUNG
	+ Fang, Yonggang Mediatek
	+ Gan, Ming Huawei Technologies Co., Ltd
	+ Ghaderipoor, Alireza MediaTek Inc.
	+ Gu, Xiangxin Unisoc
	+ Han, Jonghun SAMSUNG
	+ Han, Zhiqiang ZTE Corporation
	+ Hart, Brian Cisco Systems, Inc.
	+ Ho, Duncan Qualcomm Incorporated
	+ Hu, Chunyu Facebook
	+ Hu, Shengquan MediaTek Inc.
	+ Huang, Lei Guangdong OPPO Mobile Telecommunications Corp.,Ltd
	+ Huang, Po-Kai Intel Corporation
	+ Ibrahim, Ahmed Samsung Research America
	+ Jang, Insun LG ELECTRONICS
	+ Kain, Carl USDoT; Noblis, Inc.
	+ Kamel, Mahmoud InterDigital, Inc.
	+ Kim, Jeongki Ofinno
	+ Kim, Myeong-Jin SAMSUNG
	+ kim, namyeong LG ELECTRONICS
	+ Kim, Sang Gook LG ELECTRONICS
	+ Kim, Sanghyun WILUS Inc
	+ Kim, Youhan Qualcomm Incorporated
	+ Kishida, Akira Nippon Telegraph and Telephone Corporation (NTT)
	+ Klein, Arik Huawei Technologies Co., Ltd
	+ Ko, Geonjung WILUS Inc.
	+ Koundourakis, Michail Samsung Cambridge Solution Centre
	+ Lalam, Massinissa SAGEMCOM BROADBAND SAS
	+ Lee, Nancy Signify
	+ Levitsky, Ilya IITP RAS
	+ Levy, Joseph InterDigital, Inc.
	+ Li, Jialing Qualcomm Technologies, Inc.
	+ Lim, Dong Guk LG ELECTRONICS
	+ Lin, Zinan InterDigital, Inc.
	+ Liu, Der-Zheng Realtek Semiconductor Corp.
	+ Liu, Jianhan MediaTek Inc.
	+ Lou, Hanqing InterDigital, Inc.
	+ Lu, kaiying MediaTek Inc.
	+ Lu, Liuming Guangdong OPPO Mobile Telecommunications Corp.,Ltd
	+ Luo, Chaoming Beijing OPPO telecommunications corp., ltd.
	+ Martinez Vazquez, Marcos MaxLinear Corp; MAXLINEAR INC
	+ Max, Sebastian Ericsson AB
	+ McCann, Stephen Huawei Technologies Co., Ltd
	+ Memisoglu, Ebubekir Istanbul Medipol University; Vestel
	+ Montemurro, Michael Huawei Technologies Co., Ltd
	+ Naik, Gaurang Qualcomm Incorporated
	+ Nezou, Patrice Canon Research Centre France
	+ Ng, Boon Loong Samsung Research America
	+ noh, yujin Senscomm
	+ Palayur, Saju Maxlinear Inc
	+ PANG, KUN Honor Device Co.,Ltd.
	+ Park, Eunsung LG ELECTRONICS
	+ Park, Minyoung Intel Corporation
	+ Patil, Abhishek Qualcomm Incorporated
	+ Patwardhan, Gaurav Hewlett Packard Enterprise
	+ Petrick, Albert InterDigital, Inc.
	+ Pushkarna, Rajat Panasonic Asia Pacific Pte Ltd.
	+ Ratnam, Vishnu Samsung Research America
	+ Rosdahl, Jon Qualcomm Technologies, Inc.
	+ Salman, Hanadi Istanbul Medipol University; VESTEL
	+ Schelstraete, Sigurd MaxLinear
	+ Sethi, Ankit NXP Semiconductors
	+ Shafin, Rubayet Samsung Research America
	+ Shilo, Shimi Huawei Technologies Co., Ltd
	+ Stanley, Dorothy Hewlett Packard Enterprise
	+ SUH, JUNG HOON Huawei Technologies Co., Ltd
	+ Sun, Bo ZTE Corporation
	+ Sun, Li-Hsiang Sony Corporation
	+ Sun, Yanjun Qualcomm Incorporated
	+ THOUMY, Francois Canon
	+ Tian, Bin Qualcomm Incorporated
	+ Tsodik, Genadiy Huawei Technologies Co., Ltd
	+ Tsujimaru, Yuki Canon Inc.
	+ Varshney, Prabodh Nokia
	+ Verenzuela, Daniel Sony Corporation
	+ Wang, Chao Chun MediaTek Inc.
	+ Wang, Huizhao Quantenna Communications, Inc.
	+ Wang, Lei Futurewei Technologies
	+ Wang, Sean Shanghai Longsailing Semiconductor Co. Ltd.
	+ Wei, Dong NXP Semiconductors
	+ Wu, Kanke Qualcomm Incorporated
	+ Wu, Tianyu Apple, Inc.
	+ Xin, Yan Huawei Technologies Co., Ltd
	+ Yang, Jay Nokia
	+ YANG, RUI InterDigital, Inc.
	+ Yang, Steve TS MediaTek Inc.
	+ Yano, Kazuto Advanced Telecommunications Research Institute International (ATR)
	+ Yee, James MediaTek Inc.
	+ yi, yongjiang Spreadtrum Communication USA Inc.
	+ Yu, Jian Huawei Technologies Co., Ltd
	+ Zhang, Yan NXP Semiconductors
	+ Zhou, Pei Guangdong OPPO Mobile Telecommunications Corp.,Ltd
1. Agenda: (gray items removed, pink items added, from original agenda proposed in [1090r17](https://mentor.ieee.org/802.11/dcn/21/11-21-1090-17-00be-july-sept-tgbe-teleconference-agenda.docx))
	1. Motions: [1982r34](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-34-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)
	2. Technical Submissions**: CRs**
		* [1105r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1105-02-00be-cc36-cr-on-9-3-1-19-d101.doc) CC36 CR on 9.3.1.19-d101 (NDPAframe format) Genadiy Tsodik [SP-5C 15’]
		* [1059r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1059-00-00be-comment-resolution-for-cc37.docx) Comment Resolution for CC37 Sigurd Schelstraete [57C 40’]
		* [706r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0706-04-00be-tgbe-coexistence-assessment-document.docx) TGbe Coexistence Assessment Document Sigurd Schelstraete [0C 15’]
		* 1281r0 cc36-cr-for-cids-in-clause-35-5-2 Zinan Lin [21C 25’]
		* [1243r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1243-00-00be-cc36-cr-for-cid-6841-6842-6843.docx) CR for CID 6841 6842 6843 Zinan Lin [3C 15’]
		* [1250r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1250-00-00be-d1-0-cr-for-section-35-5.docx) CR for Section 35.5 Wook Bong Lee [4C 15’]
		* [1237r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1237-00-00be-d1-0-cr-for-section-9-2-5-2-and-9-3-1-19.docx) CR for Section 9.2.5.2 and 9.3.1.19 Wook Bong Lee [32C 30’]
	3. Technical Submissions:
		* [1672r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1672-02-00be-ul-beamforming-for-tb-ppdus.pptx) UL Beamforming for TB PPDUs Shimi Shilo [SP-10’]
	4. AoB:

Discussion:

C: Please remove the contributions from Wookbong (1250r0, 1237r0), as he is unable to attend

Agenda approved with unanimous consent.

1. Motions, see [1982r34](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-34-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)
	1. Motion 226
		* Chair describes the contents of the motion
		* Moved by Edward Au
		* Seconded by Abhishek Patel
		* Discussion
			+ None
		* Vote
			+ Chair asks for objection to approval by unanimous consent
			+ No objection, motion is approved
	2. Motion 227
		* Chair describes the contents of the motion
		* Moved by Edward Au
		* Seconded by Rajat Pushkarna
		* Discussion
			+ None
		* Vote
			+ Chair asks for objection to approval by unanimous consent
			+ No objection, motion is approved
	3. Motion 228
		* Chair describes the contents of the motion
		* Moved by Stephen McCann
		* Seconded by Bin Tian
		* Discussion
			+ None
		* Vote
			+ Chair asks for objection to approval by unanimous consent
			+ No objection, motion is approved
	4. Motion 229
		* Chair describes the contents of the motion
		* Moved by Michael Montemurro
		* Seconded by Bin Tian
		* Discussion
			+ None
		* Vote
			+ Chair asks for objection to approval by unanimous consent
			+ No objection, motion is approved
	5. Motion 230
		* Chair describes the contents of the motion
		* Moved by Edward Au
		* Seconded by Lei Huang
		* Discussion
			+ None
		* Vote
			+ Chair asks for objection to approval by unanimous consent
			+ No objection, motion is approved
		*
2. Technical submissions: CRs
3. [1105r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1105-04-00be-cc36-cr-on-9-3-1-19-d101.doc) CC36 CR on 9.3.1.19-d101 (NDPAframe format) Genadiy Tsodik

Presenter notes that r1 had been reviewed in a previous meeting. Presenter reviews changes from the previously presented version.

Discussion:

Q: this uses the last encoding value for the NDPA type, how does this allow for any future variants to be defined?

A: that’s a question for the group, this document is not changing that aspect

Q: all sounding FB in one TXOP, so token is not needed, could use token to indicate a different sounding purpose, e.g. EHT v future variants

A: you’re proposing a means to provide for future variants?

Q: Yes

Q: propose to remove VHT/HE Ranging in the first paragraph

A: agree

Changes based on comments create a revision r5

SP:

Do you agree to the resolution of the following CIDs as proposed in [1105r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1105-05-00be-cc36-cr-on-9-3-1-19-d101.doc)?

* + - 4146, 8262, 4148, 5083, 5084, 6005, 5787

Result: Supported with no objection from the group.

1. [1059r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1059-00-00be-comment-resolution-for-cc37.docx) Comment Resolution for CC37 Sigurd Schelstraete

These are comments on the Coexistence Assessment document

Presenter reviews the document

Document edited during the discussion to r1

Discussion:

No questions

SP:

Do you agree to the resolution of the following CIDs of CC37 as proposed in [1059r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1059-01-00be-comment-resolution-for-cc37.docx)?- Editorial: 6, 26, 27, 35, 38, 39, 51, 52, 53- Out of Scope: 10, 11, 12, 13, 14, 15, 16, 17, 18- References: 5, 19, 20, 21, 28, 31, 54, 55, 56- Naming: 29, 32, 34, 36, 37, 41, 42, 43, 44, 45, 47, 48, 49, 50- Remaining: 1, 2, 3, 4, 7, 8, 9, 22, 23, 24, 25, 30, 33, 40, 46, 57

Discussion on the straw poll?

None

Result: Straw poll supported with no objection from the group.

1. [1281r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1281-00-00be-cc36-cr-for-cids-in-clause-35-5-2.docx) cc36-cr-for-cids-in-clause-35-5-2 Zinan Lin

Presenter reviews the document

Document edited during the discussion to r1

Discussion:

SP deferred to allow time to review r1

1. [1289r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1289-00-00be-cc-36-cr-for-9-6-34-2.docx) cc-36-cr-for-9-6-34-2 Xiangxin Gu

Presenter reviews the document

Discussion:

None.

SP:

Do you agree to the resolution of the following CIDs as proposed in [1289r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1289-00-00be-cc-36-cr-for-9-6-34-2.docx)?

* + - 6078, 7744

Result: Supported with no objection from the group.

1. Technical submissions (not CID resolution)
	1. [1672r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1672-02-00be-ul-beamforming-for-tb-ppdus.pptx) UL Beamforming for TB PPDUs Shimi Shilo

Presenter reviews the document

Topic: TXBF for UL Trigger based MU is difficult, proposal to make it simpler

Discussion:

None.

SP:

Do you support to include a protocol which enables beamforming for triggered PPDUs in 11be?

Note: this is a Rel 2 feature

Y/N/A = 41/23/22

Presenter requests that people with questions please communicate those to the presenter.

1. AoB:
	1. Zinan proposes running SP on [1281r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1281-01-00be-cc36-cr-for-cids-in-clause-35-5-2.docx)
		* Chair proposes a modification to the agenda to add a review of [1281r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1281-01-00be-cc36-cr-for-cids-in-clause-35-5-2.docx) and to run an SP based on that document
			+ No objection to a modification to the agenda

Chair and presenter review [1281r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1281-01-00be-cc36-cr-for-cids-in-clause-35-5-2.docx)

SP:

Do you agree to the resolution of the following CIDs as proposed in [1281r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1281-01-00be-cc36-cr-for-cids-in-clause-35-5-2.docx)?

* + - 6838, 6839, 6840, 6841, 6842, 6843, 6844, 6845, 6846, 6847
		- 6848, 6849, 6850, 6851, 7923, 7924, 8364, 8365, 8366, 8367
		- 8368

Result: Supported with no objection from the group.

* 1. Chair again asks if there is any other business
		+ None noted
1. Adjourned at 11:58.

# 12th Conf. Call: August 12 (10:00–12:00 ET)

Only MAC.

* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-1262-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-july-to-september-2021.docx>

# 13th Conf. Call: August 16 (19:00–21:00 ET)

Split PHY and MAC.

* PHY: <https://mentor.ieee.org/802.11/dcn/21/11-21-1324-00-00be-minutes-for-tgbe-phy-ad-hoc-cc-july-2021-to-sept-2021.docx>
* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-1262-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-july-to-september-2021.docx>

# 14th Conf. Call: August 18 (10:00–12:00 ET)

1. The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order at 10:01 ET. The Chair notifies that the agenda is in [1090r22](https://mentor.ieee.org/802.11/dcn/21/11-21-1090-22-00be-july-sept-tgbe-teleconference-agenda.docx).
2. IEEE 802 and 802.11 IPR policy and procedure
	1. Patent Policy: Ways to inform IEEE:
		* Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
		* Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
		* Speak up now and respond to this Call for Potentially Essential Patents. **Nobody speaks/writes up**.

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

* 1. The Chair reviews: Copyright Policy: Participants are advised that
		+ IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		+ Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	2. The Chair reviews: Patent, Participation, Copyright and policy related subclause: Please refer to *Patent And Procedures* in [1090r22](https://mentor.ieee.org/802.11/dcn/21/11-21-1090-22-00be-july-sept-tgbe-teleconference-agenda.docx).
1. Attendance reminder.
* Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
* Please record your attendance during the conference call by using the IMAT system:
	+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Dennis Sundman (dennis.sundman@ericsson.com) and Alfred Asterjadhi (aasterja@qti.qualcomm.com)
* Please ensure that the following information is listed correctly when joining the call: "[voter status] First Name Last Name (Affiliation)"
	+ Aboulmagd, Osama Huawei Technologies Co., Ltd
	+ Ajami, Abdel Karim Qualcomm Incorporated
	+ Al Falujah, Iyad ON Semiconductor
	+ An, Song-Haur INDEPENDENT
	+ Ansley, Carol Cox Communications Inc.
	+ Asterjadhi, Alfred Qualcomm Incorporated
	+ Au, Kwok Shum Huawei Technologies Co., Ltd
	+ B, Hari Ram NXP Semiconductors
	+ Bankov, Dmitry IITP RAS
	+ baron, stephane Canon Research Centre France
	+ Barr, David MaxLinear
	+ Bluschke, Andreas Signify
	+ Chemrov, Kirill IITP RAS
	+ Choi, Jinsoo LG ELECTRONICS
	+ CHUN, JINYOUNG LG ELECTRONICS
	+ Chung, Chulho SAMSUNG
	+ Ciochina, Dana Sony Corporation
	+ Coffey, John Realtek Semiconductor Corp.
	+ de Vegt, Rolf Qualcomm Incorporated
	+ Dong, Xiandong Xiaomi Inc.
	+ Duan, Ruchen SAMSUNG
	+ Erceg, Vinko Broadcom Corporation
	+ Fang, Yonggang Mediatek
	+ feng, Shuling MediaTek Inc.
	+ Fischer, Matthew Broadcom Corporation
	+ Gao, Ning Guangdong OPPO Mobile Telecommunications Corp.,Ltd
	+ Gu, Xiangxin Unisoc
	+ GUIGNARD, Romain Canon Research Centre France
	+ Han, Jonghun SAMSUNG
	+ Hervieu, Lili Cable Television Laboratories Inc. (CableLabs)
	+ Ho, Duncan Qualcomm Incorporated
	+ Hsieh, Hung-Tao MediaTek Inc.
	+ Hu, Shengquan MediaTek Inc.
	+ Huang, Po-Kai Intel Corporation
	+ Ibrahim, Ahmed Samsung Research America
	+ Kakani, Naveen Qualcomm Incorporated
	+ Kamel, Mahmoud InterDigital, Inc.
	+ Khorov, Evgeny IITP RAS
	+ Kim, Jeongki Ofinno
	+ Kim, Myeong-Jin SAMSUNG
	+ kim, namyeong LG ELECTRONICS
	+ Kim, Sang Gook LG ELECTRONICS
	+ Kim, Sanghyun WILUS Inc
	+ Kim, Youhan Qualcomm Incorporated
	+ Kishida, Akira Nippon Telegraph and Telephone Corporation (NTT)
	+ Klein, Arik Huawei Technologies Co., Ltd
	+ Ko, Geonjung WILUS Inc.
	+ Koundourakis, Michail Samsung Cambridge Solution Centre
	+ Lee, Hong Won LG ELECTRONICS
	+ Lee, Nancy Signify
	+ Levitsky, Ilya IITP RAS
	+ Levy, Joseph InterDigital, Inc.
	+ Li, Jialing Qualcomm Technologies, Inc.
	+ Li, Yapu Guangdong OPPO Communications Co. LTD
	+ Li, Yunbo Huawei Technologies Co., Ltd
	+ Lim, Dong Guk LG ELECTRONICS
	+ liu, baosheng longsailing
	+ Liu, Der-Zheng Realtek Semiconductor Corp.
	+ Lorgeoux, Mikael Canon Research Centre France
	+ Lou, Hanqing InterDigital, Inc.
	+ Lu, kaiying MediaTek Inc.
	+ Lu, Liuming Guangdong OPPO Mobile Telecommunications Corp.,Ltd
	+ Lumbatis, Kurt CommScope, Inc.
	+ Luo, Chaoming Beijing OPPO telecommunications corp., ltd.
	+ Martinez Vazquez, Marcos MaxLinear Corp; MAXLINEAR INC
	+ Max, Sebastian Ericsson AB
	+ McCann, Stephen Huawei Technologies Co., Ltd
	+ Nayak, Peshal Samsung Research America
	+ Nezou, Patrice Canon Research Centre France
	+ Ng, Boon Loong Samsung Research America
	+ noh, yujin Senscomm
	+ Ouchi, Masatomo Canon
	+ Ozbakis, Basak VESTEL
	+ PANG, KUN Honor Device Co.,Ltd.
	+ Pare, Thomas MediaTek Inc.
	+ Park, Eunsung LG ELECTRONICS
	+ Patwardhan, Gaurav Hewlett Packard Enterprise
	+ Pushkarna, Rajat Panasonic Asia Pacific Pte Ltd.
	+ Ratnam, Vishnu Samsung Research America
	+ Schelstraete, Sigurd MaxLinear
	+ Sevin, Julien Canon Research Centre France
	+ Shilo, Shimi Huawei Technologies Co., Ltd
	+ Stanley, Dorothy Hewlett Packard Enterprise
	+ SUH, JUNG HOON Huawei Technologies Co., Ltd
	+ Sun, Bo ZTE Corporation
	+ Sun, Yanjun Qualcomm Incorporated
	+ Sundman, Dennis Ericsson
	+ Van Zelst, Allert Qualcomm Incorporated
	+ Varshney, Prabodh Nokia
	+ Wang, Chao Chun MediaTek Inc.
	+ Wang, Hao Tencent
	+ Wang, Huizhao Quantenna Communications, Inc.
	+ Wang, Lei Futurewei Technologies
	+ Wang, Sean Shanghai Longsailing Semiconductor Co. Ltd.
	+ Wei, Dong NXP Semiconductors
	+ Wu, Kanke Qualcomm Incorporated
	+ Wu, Tianyu Apple, Inc.
	+ Yang, Steve TS MediaTek Inc.
	+ Yano, Kazuto Advanced Telecommunications Research Institute International (ATR)
	+ Yee, James MediaTek Inc.
	+ yi, yongjiang Spreadtrum Communication USA Inc.
	+ Yoon, Jeonghwan LG ELECTRONICS
	+ Yu, Jian Huawei Technologies Co., Ltd
	+ Zhang, Yan NXP Semiconductors
	+ Zhou, Pei Guangdong OPPO Mobile Telecommunications Corp.,Ltd
1. Announcements: No announcements.
2. Agenda. The chair asks for comments on the agenda.
	1. C: The last two CRs, can you change them to r1?
	2. C: No motions today, is that correct? – Yes

Agenda approved with unanimous consent.

1. Technical Submissions**: CRs**
	1. [1250r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1250-00-00be-d1-0-cr-for-section-35-5.docx) CR for Section 35.5 Wook Bong Lee [4C 10’]

Wook Bong goes through his CRs.

SP: Do you agree to the resolution of the following CIDs as in [1250r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1250-00-00be-d1-0-cr-for-section-35-5.docx):

* + - 7081, 7933, 7934, 7935

Supported with no objection from the group.

* 1. [1237r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1237-01-00be-d1-0-cr-for-section-9-2-5-2-and-9-3-1-19.docx) CR for Section 9.2.5.2 and 9.3.1.19 Wook Bong Lee [32C 30’]

Wook Bong goes through his CRs. Some live updates.

SP: Do you agree to the resolution of the following CIDs as proposed in [1237r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1237-02-00be-d1-0-cr-for-section-9-2-5-2-and-9-3-1-19.docx)

* + - 5537, 5393, 6006, 5506, 8079, 6931, 7918, 5788, 4806, 5314
		- 5538, 5789, 8080, 5790, 6007, 6008, 7473, 6009, 4871
		- 7389, 7390, 3595, 7022, 7921, 8157, 4126, 5396
		- 8303

Straw poll supported with no objection from the group.

* 1. [1104r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1104-01-00be-cc36-cr-on-9-4-1-67a-d-d101-part2.doc) CR-on-9.4.1.67a-d-d101-part2 Genadiy Tsodik [10C 15’]

Genadiy goes through the CRs. Some live comments and updates.

SP: Do you agree to the resolution of the following CIDs as proposed in [1104r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1104-02-00be-d1-0-cr-for-section-9-2-5-2-and-9-3-1-19.docx).

* + - 5085, 5398, 5676, 6083, 6084, 6085, 6086, 6087, 6088, 6089.

Straw poll supported with no objection from the group.

* 1. [1299r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1299-01-00be-cc36-cr-bqr-for-320mhz.docx) CC36 CR BQR for 320MHz Yunbo Li [3C 15’]

Yunbo goes through the CRs. Some live updates. Particularly some discussion regarding what should be in R1 and what should go into R2.

SP: Do you agree to the following:

The followings apply for BQR Control subfields in A-Control subfield in R1.

* When there are two BQR control subfields in A-Control subfield, the 1st BQR Control is used to indicate the primary 160 MHz, the 2nd BQR Control is used to indicate the secondary 160 MHz.
* When there is one BQR control subfield in A-Control subfield, the BQR Control is used to indicate the primary 160 MHz.

Result: Y/N/A/No-answer: 34/23/27/45.

1. AoB: Out of time.
2. Meeting adjourned at 12:04.

# 15th Conf. Call: August 19 (10:00–12:00 ET)

Only MAC.

* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-1262-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-july-to-september-2021.docx>

# 16th Conf. Call: August 23 (19:00–21:00 ET)

Split PHY and MAC.

* PHY: <https://mentor.ieee.org/802.11/dcn/21/11-21-1324-00-00be-minutes-for-tgbe-phy-ad-hoc-cc-july-2021-to-sept-2021.docx>
* MAC: <https://mentor.ieee.org/802.11/dcn/21/11-21-1262-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-july-to-september-2021.docx>

# 17th Conf. Call: August 25 (10:00–12:00 ET)

1. The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order at 10:01 ET. The Chair notifies that the agenda is in [1090r27](https://mentor.ieee.org/802.11/dcn/21/11-21-1090-27-00be-july-sept-tgbe-teleconference-agenda.docx).
2. IEEE 802 and 802.11 IPR policy and procedure
	1. Patent Policy: Ways to inform IEEE:
		* Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
		* Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
		* Speak up now and respond to this Call for Potentially Essential Patents. **Nobody speaks/writes up**.

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

* 1. The Chair reviews: Copyright Policy: Participants are advised that
		+ IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		+ Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	2. The Chair reviews: Patent, Participation, Copyright and policy related subclause: Please refer to *Patent And Procedures* in [1090r22](https://mentor.ieee.org/802.11/dcn/21/11-21-1090-22-00be-july-sept-tgbe-teleconference-agenda.docx).
1. Attendance reminder.
* Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
* Please record your attendance during the conference call by using the IMAT system:
	+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Dennis Sundman (dennis.sundman@ericsson.com) and Alfred Asterjadhi (aasterja@qti.qualcomm.com)
* Please ensure that the following information is listed correctly when joining the call: "[voter status] First Name Last Name (Affiliation)"
	+ N/A at this time.
1. Announcements:
	1. CC36 Monthly Progress Report. Alfred shows the current status. It looks fine, although MAC comments are slightly behind a linear projected progress.
2. Ageanda.
	1. Can you update 1333 to r1?
	2. Agenda approved with unanimous consent.
3. Motions. Document: [Download (ieee.org)](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-36-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)
	1. **Motion 231 (PHY-1)**

Move to approve resolutions to the CIDs:

* 4639, 4955, 4956, 5020, 5021, 5097, 6094, 6148, 6149, 6444, 6816, 6817, 6837, 7257, 7258, 7259, 7260, 7261, 7262, 7315, 7743, 8142 in [1159r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1159-03-00be-cr-phy-txmask.docx) *[22 CIDs]*
* 5406, 7157 in [1093r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1093-02-00be-cc36-cr-for-36-3-2-3-null-subcarriers.docx) *[2 CIDs]*
* 4500, 4623 in [1094r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1094-00-00be-cc36-cr-for-annex-c.docx) *[2 CIDs]*
* 5483, 4952 in [1182r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1182-00-00be-cc36-cr-on-spatial-configuration-subfield-part2.doc) *[2 CIDs]*
* 4951, 5423, 5424, 5425, 5426, 5427, 5482, 7003, 7221, 7222, 7223, 7224, 7225, 7226, 8122, 8123, 8124, 8125 in [1150r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1150-01-00be-cc36-cr-on-36-3-12-8-5.doc) *[18 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Edward Au Second: Xiaogang Chen

Discussion: None

Result: Approved with unanimous consent

* 1. **Motion 232 (PHY-2)**

Move to approve resolutions to the CIDs:

* 6440, 6441, 4671, 4857, 4858, 5422, 5480, 8119, 8120 in [1149r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1149-00-00be-cc36-cr-on-36-3-12-8-4.doc) *[9 CIDs]*
* 6142, 6143, 7255 in [1170r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1170-02-00be-cc36-cr-for-transmit-requirements-for-ppdus-sent-in-response-to-a-triggering-frame.docx) *[3 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Ross Jian Yu Second: Rui Yang

Discussion: None

Result: Approved with unanimous consent

* 1. **Motion 233 (MAC-1)**

Move to approve resolutions to the CIDs:

* 5070, 7452, 6228 in [1211r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1211-04-00be-cc-36-cr-for-ft.docx) *[3 CIDs]*
* 4014 in [1206r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1206-04-00be-cc36-cr-9-4-2-295b-2-mld-capabilities-field.docx) *[1 CID]*
* 4132, 5285, 6480, 6162, 7518, 6163, 6164, 5151, 6482, 7519, 7520, 7521, 6481, 4133, 5579, 7549, 7550, 5587, 5868, 5859, 7548, 4299, 4007, 4153, 5592, 6663, 6239, 7355, 5593, 7525, 4820, 5595, 7055, 7709 in [1197r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1197-02-00be-cc36-resolution-for-cids-related-to-nsep-part1.docx) *[34 CIDs]*
* 4116, 4076, 5764, 6312, 4403, 8248, 6856, 6857, 6983, 6313, 7342, 6137, 7343, 7630, 7728, 4404, 6858, 4830, 7623, 7624, 7625, 7626, 4831, 6959, 6314, 8206, 5304, 6769, 4931, 6770, ~~7627, 7856~~, 7628, 4474 in [1203r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1203-01-00be-cc36-cr-35-3-15-4-capability-signaling.docx) *[32 CIDs]*
* 7627, 7856 in [1203r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1203-02-00be-cc36-cr-35-3-15-4-capability-signaling.docx) *[2 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: George Cherian Second: John Wullert

Discussion: No discussion

Result: Approved with unanimous consent

* 1. **Motion 234 (Joint-1)**

Move to approve resolutions to the CIDs:

* 4146, 8262, 4148, 5083, 5084, 6005, 5787 in [1105r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1105-05-00be-cc36-cr-on-9-3-1-19-d101.doc) *[7 CIDs]*
* 6838, 6839, 6840, 6841, 6842, 6843, 6844, 6845, 6846, 6847, 6848, 6849, 6850, 6851, 7923, 7924, 8364, 8365, 8366, 8367, 8368 in [1281r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1281-01-00be-cc36-cr-for-cids-in-clause-35-5-2.docx) *[21 CIDs]*
* 6078, 7444 in [1289r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1289-00-00be-cc-36-cr-for-9-6-34-2.docx) *[2 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Yunbo Li Second: Po-Kai Huang

Discussion: No discussion

Result: Approved with unanimous consent.

* 1. **Motion 235 (CAD CR)**

Move to approve resolutions to the CIDs of CC37 listed below:

* 6, 26, 27, 35, 38, 39, 51, 52, 53, 10, 11, 12, 13, 14, 15,
* 16, 17, 18, 5, 19, 20, 21, 28, 31, 54, 55, 56, 29, 32, 34,
* 36, 37, 41, 42, 43, 44, 45, 47, 48, 49, 50, 1, 2, 3, 4,
* 7, 8, 9, 22, 23, 24, 25, 30, 33, 40, 46, 57 in [1059r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1059-01-00be-comment-resolution-for-cc37.docx) *[57 CIDs]*

Move: Sigurd Schelstraete Second: Mike Montemurro

Discussion: No discussion

Result: Approved with unanimous consent

1. Technical Submissions**: CRs**
	1. [1301r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1301-00-00be-cc36-cr-for-cid-4584.docx) CR for CID 4584 Mengshi Hu [1C 10’]

Mengshi goes through the document. Some discussion during the presentation.

SP: Do you agree to the resolution of the following CIDs as proposed in [1301r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1301-01-00be-cc36-cr-for-cid-4584.docx).

* + - 4584

Discussion: No discussion

Result: Straw poll supported with no objection from the group.

* 1. [1282r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1282-01-00be-cr-trigger-frame-ra-ru.docx) CR Trigger frame RA-RU Yanjun Sun [9C 30’]

Yanjun goes through the document. Some updates during the presentation.

SP: Do you agree to the resolution of the following CIDs as proposed in [1282r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1282-02-00be-cr-trigger-frame-ra-ru.docx).

* + - 5901, 4201, 5936, 6056, 5201, 5109, 5118, 6514.

Discusison: No discussion

Result: Straw poll supported with no objection from the group.

* 1. [1333r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1333-01-00be-cr-trigger-frame-common-info-field-format.docx) CR Trigger frame Common Info field format Yanjun Sun [46C 35’]

Yanjun goes through the document. Some discussion during the presentation.

 Running out of time before any conclusion is reached.

1. AoB: No other business.
2. Adjourn at 12:00.