IEEE P802.11  
Wireless LANs

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| --- | --- | --- | --- | --- |
| TGbe March to May 2022 teleconference minutes | | | | |
| Date: 2022-04-05 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Dennis Sundman | Ericsson |  |  | dennis.sundman@ericsson.com |
|  |  |  |  |  |

Abstract

This document contains the minutes for March to May 2022 TGbe teleconferences.

Revision:

* Rev 0: Initial version of the document.
* Rev 1: Added minutes up until 21st Conf. call (Apr 20).

# 7th Conf. Call: Mar 16 (10:00–12:00 ET)–MAC

MAC ad-hoc:

* <https://mentor.ieee.org/802.11/dcn/22/11-22-0516-03-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-to-may-2022.docx>

# 8th Conf. Call: Mar 17 (19:00–21:00 ET)–MAC

MAC ad-hoc:

* <https://mentor.ieee.org/802.11/dcn/22/11-22-0516-03-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-to-may-2022.docx>

# 9th Conf. Call: Mar 21 (19:00–21:00 ET)–MAC

MAC ad-hoc:

* <https://mentor.ieee.org/802.11/dcn/22/11-22-0516-03-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-to-may-2022.docx>

# 10th Conf. Call: Mar 23 (10:00–12:00 ET)–JOINT

1. Call the meeting to order
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](mailto: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

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. **Nobody speaks up.**

* 1. 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. **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures

1. Attendance reminder.
   1. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
   2. 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.
   3. 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](mailto:dennis.sundman@ericsson.com)) and Alfred Asterjadhi
   4. Please ensure that the following information is listed correctly when joining the call:
      * "[voter status] First Name Last Name (Affiliation)"
      * Abouelseoud, Mohamed Apple Inc.
      * Aboulmagd, Osama Huawei Technologies Co., Ltd
      * Adhikari, Shubhodeep Broadcom Corporation
      * Ajami, Abdel Karim Qualcomm Incorporated
      * Ansley, Carol Cox Communications Inc.
      * Asterjadhi, Alfred Qualcomm Incorporated
      * Baek, SunHee LG ELECTRONICS
      * baron, stephane Canon Research Centre France
      * Bredewoud, Albert Broadcom Corporation
      * Cao, Rui NXP Semiconductors
      * Carney, William Sony Group Corporation
      * Chemrov, Kirill IITP RAS
      * Chitrakar, Rojan Panasonic Asia Pacific Pte Ltd.
      * Chng, Shi Baw BAWMAN LLC
      * Choi, Jinsoo LG ELECTRONICS
      * Chu, Liwen NXP Semiconductors
      * CHUN, JINYOUNG LG ELECTRONICS
      * Coffey, John Realtek Semiconductor Corp.
      * Dong, Xiandong Xiaomi Inc.
      * Duan, Ruchen SAMSUNG
      * Erkucuk, Serhat Ofinno
      * Fan, Shuang ZTE Corporation
      * Fang, Yonggang Mediatek
      * Fischer, Matthew Broadcom Corporation
      * Gu, Xiangxin Unisoc
      * Haasz, Jodi IEEE Standards Association (IEEE-SA)
      * Handte, Thomas Sony Corporation
      * Hart, Brian Cisco Systems, Inc.
      * Ho, Duncan Qualcomm Incorporated
      * Hsu, Ostrovsky Xiaomi Inc.
      * Hu, Chunyu Facebook
      * Huang, Lei Guangdong OPPO Mobile Telecommunications Corp.,Ltd
      * Huq, Kazi Mohammed Saidul Ofinno
      * Jang, Insun LG ELECTRONICS
      * Kakani, Naveen Qualcomm Incorporated
      * Kamel, Mahmoud InterDigital, Inc.
      * Kasher, Assaf Qualcomm Incorporated
      * kim, Jiin LG ELECTRONICS
      * Kim, Myeong-Jin SAMSUNG
      * Kim, Sang Gook LG ELECTRONICS
      * Kim, Sanghyun WILUS Inc
      * Kim, Yongho Korea National University of Transportation
      * Kim, Youhan Qualcomm Incorporated
      * Klein, Arik Huawei Technologies Co., Ltd
      * Ko, Geonjung WILUS Inc.
      * Lalam, Massinissa SAGEMCOM BROADBAND SAS
      * Lanante, Leonardo Ofinno
      * Lee, Wookbong SAMSUNG
      * Levesque, Chris Qorvo
      * Levitsky, Ilya IITP RAS
      * Li, Jialing Qualcomm Technologies, Inc.
      * Li, Yapu Guangdong OPPO Mobile Telecommunications Corp.,Ltd
      * Lim, Dong Guk LG ELECTRONICS
      * Loginov, Vyacheslav IITP RAS
      * Lorgeoux, Mikael Canon Research Centre France
      * Lou, Hanqing InterDigital, Inc.
      * Lu, kaiying MediaTek Inc.
      * Lu, Liuming Guangdong OPPO Mobile Telecommunications Corp.,Ltd
      * McCann, Stephen Huawei Technologies Co., Ltd
      * Montemurro, Michael Huawei Technologies Co., Ltd
      * Moon, Juseong Korea National University of Transportation
      * Naik, Gaurang Qualcomm Incorporated
      * Namboodiri, Vamadevan SAMSUNG ELECTRONICS
      * noh, yujin Senscomm
      * Ozbakis, Basak VESTEL
      * Palayur, Saju Maxlinear Inc
      * Pare, Thomas MediaTek Inc.
      * Park, Eunsung LG ELECTRONICS
      * Patil, Abhishek Qualcomm Incorporated
      * Patwardhan, Gaurav Hewlett Packard Enterprise
      * Petrick, Albert InterDigital, Inc.
      * Ratnam, Vishnu Samsung Research America
      * Rosdahl, Jon Qualcomm Technologies, Inc.
      * Ryu, Kiseon Ofinno
      * Schelstraete, Sigurd MaxLinear
      * Sevin, Julien Canon Research Centre France
      * Shafin, Rubayet Samsung Research America
      * Shilo, Shimi Huawei Technologies Co., Ltd
      * Shirakawa, Atsushi SHARP CORPORATION
      * Shu, Tongxin Huawei Technologies Co., Ltd
      * SUH, JUNG HOON Huawei Technologies Co., Ltd
      * Sun, Bo ZTE Corporation
      * Sun, Yanjun Qualcomm Incorporated
      * Taori, Rakesh Infineon Technologies
      * Tian, Bin Qualcomm Incorporated
      * Torab Jahromi, Payam Facebook
      * Tsodik, Genadiy Huawei Technologies Co., Ltd
      * Varshney, Prabodh Nokia
      * Verenzuela, Daniel Sony Corporation
      * Verma, Sindhu Broadcom Corporation
      * Vermani, Sameer Qualcomm Incorporated
      * VIGER, Pascal Canon Research Centre France
      * Wang, Qi Apple, Inc.
      * Wei, Dong NXP Semiconductors
      * Wentink, Menzo Qualcomm Incorporated
      * Wu, Kanke Qualcomm Incorporated
      * Wu, Tianyu Apple, Inc.
      * Wullert, John Peraton Labs
      * Xin, Yan Huawei Technologies Co., Ltd
      * Yang, Jay Nokia
      * Yang, Steve TS MediaTek Inc.
      * Yano, Kazuto Advanced Telecommunications Research Institute International (ATR)
      * Yi, Yongjiang Spreadtrum Communication USA Inc.
      * Yukawa, Mitsuyoshi Canon, Inc.
      * Zhang, Jiayi Ofinno
2. Announcements: None.
3. Agenda.
   1. Agenda approved with unanimous consent.
4. Status Update and Guidelines:[*396r3*](https://mentor.ieee.org/802.11/dcn/22/11-22-0396-03-00be-guidelines-update.pptx) *and* [*984r13*](https://mentor.ieee.org/802.11/dcn/20/11-20-0984-13-00be-tgbe-teleconference-guidelines.docx)
   1. Alfred goes through: [523r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0523-00-00be-guidelines-status-and-update.pptx)
      * No discussion.
   2. Alfred goes through: [984r13](https://mentor.ieee.org/802.11/dcn/20/11-20-0984-13-00be-tgbe-teleconference-guidelines.docx)
      * No discussion.
5. Technical Submissions**: CR**
   1. [202r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0202-05-00be-cr-for-eht-ul-mu-operation.docx) CR-for-EHT-UL-MU-Operation Jason Y. Guo [11C SP-10’]

Jason goes through the CRs.

Some discussion.

SP: Do you agree to resolve the following CIDs listed in xxx and incorporate the text changes into the latest TGbe draft?

* 5780, 5851, 7792, 8054, 5112, 5491, 6803, 6806, 8135, 7065, 7066

Discussion: Some discussion.

Result: Y/N/A/No-answer: 32/38/41/45.

* 1. [2014r2](https://mentor.ieee.org/802.11/dcn/21/11-21-2014-02-00be-cr-for-35-5-3-part3.docx) cr-for-35.5.3\_part3 Jinyoung Chun [1C SP-5’]

Jinyoung goes through the CRs.

SP: Do you agree to resolve the following CIDs listed in [2014r2](https://mentor.ieee.org/802.11/dcn/21/11-21-2014-02-00be-cr-for-35-5-3-part3.docx) and incorporate the text changes into the latest TGbe draft?

* 8370

Result: Supported with no objection from the group.

* 1. [2012r2](https://mentor.ieee.org/802.11/dcn/21/11-21-2012-02-00be-cr-for-35-5-3-part1.docx) cr-for-35.5.3\_part1 Jinyoung Chun [1C SP-5’]

Jinyoung goes through the CRs.

SP: Do you agree to resolve the following CIDs listed in [2012r2](https://mentor.ieee.org/802.11/dcn/21/11-21-2012-02-00be-cr-for-35-5-3-part1.docx) and incorporate the text changes into the latest TGbe draft?

* 5564

Result: Supported with no objection from the group.

* 1. [452r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0452-02-00be-cr-trigger-frame-and-ss.docx) CR Trigger frame and SS Yanjun Sun [10C 20’]

Yanjun goes through the CRs.

Some discussion.

SP: Do you agree to resolve the following CIDs listed in [452r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0452-02-00be-cr-trigger-frame-and-ss.docx) and incorporate the text changes into the latest TGbe draft?

* 6937,4658,6077,5312,5313,4963,7330,4005,~~8067,6694~~

Discussion: No discussion at the SP itself.

Result: Supported with no objection from the group.

* 1. [349r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0349-01-00be-cr-discussion-of-nstr-and-emlsr.pptx) CR Discussion of NSTR and EMLSR Yunbo Li [1C 20’]

Yunbo goes through the CR. The comment recommends making EMLSR mandatory at AP side. The resolution is backed up with extensive simulations. The recommendation is reject.

Discussion:

SP: Do you agree to resolve the following CIDs listed in [349r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0349-01-00be-cr-discussion-of-nstr-and-emlsr.pptx) and incorporate the text changes into the latest TGbe draft?

* 5773

Discussion: Yes. Ran out of time.

1. AoB:
2. Adjourn

# 11th Conf. Call: Mar 24 (10:00–12:00 ET)–MAC

MAC ad-hoc:

* <https://mentor.ieee.org/802.11/dcn/22/11-22-0516-03-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-to-may-2022.docx>

# 12th Conf. Call: Mar 28 (10:00–12:00 ET)–MAC

MAC ad-hoc:

* <https://mentor.ieee.org/802.11/dcn/22/11-22-0516-03-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-to-may-2022.docx>

# 13th Conf. Call: Mar 30 (10:00–12:00 ET)–JOINT

1. The Chair Alfred Asterjadhi calls the meeting to order at 10:01 ET. Today’s agenda can be found in [428r11](https://mentor.ieee.org/802.11/dcn/22/11-22-0428-11-00be-mar-may-tgbe-teleconference-agenda.docx).
2. IEEE 802 and 802.11 IPR policy and procedure
   1. Patent Policy: Ways to inform IEEE:
      1. Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
      2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
      3. Speak up now and respond to this Call for Potentially Essential Patents

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. **Nobody speaks up.**

* 1. Copyright Policy: Participants are advised that
     1. 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;
     2. 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. **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures

1. Attendance reminder.
   1. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
   2. Please record your attendance during the conference call by using the IMAT system:
      1. 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.
   3. 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](mailto:dennis.sundman@ericsson.com)) and Alfred Asterjadhi
   4. Please ensure that the following information is listed correctly when joining the call:
      1. "[voter status] First Name Last Name (Affiliation)"
      * Ajami, Abdel Karim Qualcomm Incorporated
      * Akhmetov, Dmitry Intel Corporation
      * Au, Kwok Shum Huawei Technologies Co., Ltd
      * B, Hari Ram NXP Semiconductors
      * Baek, SunHee LG ELECTRONICS
      * Bankov, Dmitry IITP RAS
      * Batra, Anuj Apple, Inc.
      * Carney, William Sony Group Corporation
      * CHERIAN, GEORGE Qualcomm Incorporated
      * Chitrakar, Rojan Panasonic Asia Pacific Pte Ltd.
      * Chng, Shi Baw BAWMAN LLC
      * Choi, Jinsoo LG ELECTRONICS
      * CHUN, JINYOUNG LG ELECTRONICS
      * Coffey, John Realtek Semiconductor Corp.
      * Dash, Debashis Apple, Inc.
      * Dong, Xiandong Xiaomi Inc.
      * Erkucuk, Serhat Ofinno
      * Fang, Yonggang Mediatek
      * feng, Shuling MediaTek Inc.
      * Fischer, Matthew Broadcom Corporation
      * Gu, Xiangxin Unisoc
      * GUIGNARD, Romain Canon Research Centre France
      * Haider, Muhammad Kumail Facebook
      * Handte, Thomas Sony Corporation
      * Hervieu, Lili Cable Television Laboratories Inc. (CableLabs)
      * Ho, Duncan Qualcomm Incorporated
      * Hsieh, Hung-Tao MediaTek Inc.
      * Hsu, Ostrovsky Xiaomi Inc.
      * Hu, Chunyu Facebook
      * Huang, Lei Guangdong OPPO Mobile Telecommunications Corp.,Ltd
      * Huang, Po-Kai Intel Corporation
      * Huq, Kazi Mohammed Saidul Ofinno
      * Ibrahim, Ahmed Samsung Research America
      * Jung, Insik LG ELECTRONICS
      * Khorov, Evgeny IITP RAS
      * kim, Jiin LG ELECTRONICS
      * Kim, Sang Gook LG ELECTRONICS
      * Kim, Sanghyun WILUS Inc
      * Kim, Yongho Korea National University of Transportation
      * Kim, Youhan Qualcomm Incorporated
      * Kipness, Michael IEEE Standards Association (IEEE-SA)
      * Klein, Arik Huawei Technologies Co., Ltd
      * Ko, Geonjung WILUS Inc.
      * Koundourakis, Michail Samsung Cambridge Solution Centre
      * Lalam, Massinissa SAGEMCOM BROADBAND SAS
      * Lanante, Leonardo Ofinno
      * Lee, Wookbong SAMSUNG
      * Levesque, Chris Qorvo
      * Levy, Joseph InterDigital, Inc.
      * Li, Yapu Guangdong OPPO Mobile Telecommunications Corp.,Ltd
      * Lim, Dong Guk LG ELECTRONICS
      * Loginov, Vyacheslav IITP RAS
      * Lu, Liuming Guangdong OPPO Mobile Telecommunications Corp.,Ltd
      * Lumbatis, Kurt CommScope, Inc.
      * Lyakh, Mikhail ON Semiconductor
      * Ma, Li MediaTek Inc.
      * Max, Sebastian Ericsson AB
      * McCann, Stephen Huawei Technologies Co., Ltd
      * Monajemi, Pooya Cisco Systems, Inc.
      * Montreuil, Leo Broadcom Corporation
      * Moon, Juseong Korea National University of Transportation
      * Namboodiri, Vamadevan SAMSUNG ELECTRONICS
      * Nezou, Patrice Canon Research Centre France
      * Ng, Boon Loong Samsung Research America
      * noh, yujin Senscomm
      * Ozbakis, Basak VESTEL
      * Palayur, Saju Maxlinear Inc
      * Park, Eunsung LG ELECTRONICS
      * Patil, Abhishek Qualcomm Incorporated
      * Patwardhan, Gaurav Hewlett Packard Enterprise
      * Petrick, Albert InterDigital, Inc.
      * Ratnam, Vishnu Samsung Research America
      * Rosdahl, Jon Qualcomm Technologies, Inc.
      * Ryu, Kiseon Ofinno
      * Sato, Takuhiro SHARP CORPORATION
      * Schelstraete, Sigurd MaxLinear
      * Sevin, Julien Canon Research Centre France
      * Shafin, Rubayet Samsung Research America
      * Shilo, Shimi Huawei Technologies Co., Ltd
      * Srivatsa, Veena Synaptics
      * SUH, JUNG HOON Huawei Technologies Co., Ltd
      * Taori, Rakesh Infineon Technologies
      * Thakur, Sidharth Apple, Inc.
      * Tian, Bin Qualcomm Incorporated
      * Torab Jahromi, Payam Facebook
      * Varshney, Prabodh Nokia
      * Verenzuela, Daniel Sony Corporation
      * Verma, Sindhu Broadcom Corporation
      * Vermani, Sameer Qualcomm Incorporated
      * Wang, Chao Chun MediaTek Inc.
      * Wang, Qi Apple, Inc.
      * Wei, Dong NXP Semiconductors
      * Wentink, Menzo Qualcomm Incorporated
      * Wilhelmsson, Leif Ericsson AB
      * Wu, Kanke Qualcomm Incorporated
      * Wu, Tianyu Apple, Inc.
      * Yan, Aiguo Zeku
      * Yang, Jay Nokia
      * Yang, Steve TS MediaTek Inc.
      * Yano, Kazuto Advanced Telecommunications Research Institute International (ATR)
      * Yee, James MediaTek Inc.
      * Yi, Yongjiang Spreadtrum Communication USA Inc.
      * Yong, Su Khiong Apple, Inc.
      * Zhang, Jiayi Ofinno
      * Zhou, Pei Guangdong OPPO Mobile Telecommunications Corp.,Ltd
2. Announcements: None.
3. Agenda.
   1. For the first document, could you replace the document 452r3 with 537r1?
   2. In the last call I ran a SP for 202r6, I want to run it again based on offline discussion.
   3. Agenda approved with unanimous consent.
4. TGbe Queues Status [10’]
   1. Resolution pace
   2. Overview of docs in quarantine
      1. Review docs’ status and check for any progress on any CID.
   3. Provide DCNs and ETAs for unresolved CIDs: Deadline: April 5th, 2022.
      1. Afterwards, CIDs assigned to unresponsive assignees to be reassigned
5. Agenda amended to include Quarantined documents approved with unanimous consent.
6. Technical Submissions**: CR**
   1. [537r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0537-01-00be-cr-trigger-subclause-structure-8067-6694.docx) Yanjun Sun [2C SP-5’]

Yanjun goes through the updates based on offline discussions.

SP1: Do you agree to resolve the following CIDs listed in [537r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0537-01-00be-cr-trigger-subclause-structure-8067-6694.docx) and incorporate the text changes into the latest TGBe draft?

* 8067, 6694.

Discussion: None

Result: Supported with no objection from the group.

* 1. [356r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0356-03-00be-cr-for-power-save-of-nstr-mobile-ap-mld.docx) CR 4 power save of NSTR mobile AP MLD Guogang Huang [2C 15’]

Guogang goes through the CRs.

SP2: To be run next week.

* 1. [388r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0388-00-00be-cc36-cr-on-cid-5497.doc) CC36 CR on CID 5497 Ross Jian Yu [1C 5’]

Ross shows the resolution.

SP3: Do you agree to resolve the following CIDs listed in [388r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0388-00-00be-cc36-cr-on-cid-5497.doc) and incorporate the text changes into the latest TGBe draft?

* 5497

Discussion:

C: What is the result?

A: Revised.

Result: Supported with no objection from the group.

* 1. [209r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0209-00-00be-mlo-broadcast-architecture.pptx) MLO Broadcast Architecture Mike Montemurro [1C? 25’]

Mike goes through the document explaining how multiple APs, and MLD AP connects to the wired gateway through different aspects.

Discussion: Some discussion regarding how the different set-ups work.

SP deferred for the next week.

* 1. [525r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0525-00-00be-cc36-cr-on-cid-4300-and-5947.docx) CR on CID 4300 And 5947 Yanjun Sun [2C 10’]

Yanjun goes through the CIDs.

SP5: Do you agree to resolve the following CIDs listed in [525r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0525-00-00be-cc36-cr-on-cid-4300-and-5947.docx) and incorporate the text changes into the latest TGBe draft?

* 2065, 4285.
  1. [548r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0548-00-00be-cc36-comment-resolution-subclause-35-15.docx) Comment resolution subclause 35.15 Liwen Chu [2C 20’]

Discussion:

C: EHT-MCS that are supported by all EHT STAs. The APs need to know all capabilities of the associated STAs?

C: I don’t think we need to include the IBSS and MBSS.

C: If we remove those, do we still maintain backwards compatibility with the PAR?

1. AoB: No time.
2. Adjourned at 12:00.

# 14th Conf. Call: Mar 31 (10:00–12:00 ET)–MAC

MAC ad-hoc:

* <https://mentor.ieee.org/802.11/dcn/22/11-22-0516-03-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-to-may-2022.docx>

# 15th Conf. Call: Apr 06 (10:00–12:00 ET)–JOINT

1. The Chair Alfred Asterjadhi calls the meeting to order at 10:01 ET. Today’s agenda can be found in [428r14](https://mentor.ieee.org/802.11/dcn/22/11-22-0428-14-00be-mar-may-tgbe-teleconference-agenda.docx).
2. IEEE 802 and 802.11 IPR policy and procedure
   1. Patent Policy: Ways to inform IEEE:
      1. Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
      2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
      3. Speak up now and respond to this Call for Potentially Essential Patents

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.

**Nobody speaks up.**

* 1. Copyright Policy: Participants are advised that
     1. 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;
     2. 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. **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures

1. Attendance reminder.
   1. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
   2. Please record your attendance during the conference call by using the IMAT system:
      1. 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.
   3. 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](mailto:dennis.sundman@ericsson.com)) and Alfred Asterjadhi
   4. Please ensure that the following information is listed correctly when joining the call:
      1. "[voter status] First Name Last Name (Affiliation)"
2. Announcements: DCN and ETAs of April5. Please review the queues and if your DCN is not in the queue please contact Alfred (by the end of the day).
3. Agenda.
   1. Two documents cancelled from today’s call.
   2. Agenda approved with unanimous consent.
4. Technical Submissions**: CR**
   1. [548r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0548-03-00be-cc36-comment-resolution-subclause-35-15.docx) Comment resolution subclause 35.15 Liwen Chu [2C SP 10’]

Liwen goes through his comments.

Discussion:

Some discussion regarding about longer range in 6 GHz band.

Some live updates to the document.

SP1: Do you agree to resolve the following CIDs listed in [11-22/548r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0548-05-00be-cc36-comment-resolution-subclause-35-15.docx) and incorporate the text changes into the latest TGbe draft?

* 4517, 2065, 4285

Discussion: No discussion.

Result: Supported with no objection from the group.

SP2: Do you agree to resolve the following CIDs listed in [11-22/548r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0548-04-00be-cc36-comment-resolution-subclause-35-15.docx) and incorporate the text changes into the latest TGbe draft?

* 4517, 2065, 4285

Discussion:

C: What happens if both SPs passes? A: The second one will preceed the first one.

C: Only the last paragraph is the difference? A: Yes.

Result: Y/N/A: 25/34/58

* 1. [546r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0546-02-00be-cr-for-cid-7448.docx) CR for CID 7448 Yan Li [1C 15’]

Yan goes through the document.

Discussion:

Some clarifications.

SP3: Do you agree to resolve the following CIDs listed in [546r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0546-02-00be-cr-for-cid-7448.docx) and incorporate the text changes into the latest TGbe draft?

* 7448

Result: Supported with no objection from the group.

1. Technical Submissions**: Quarantine**
   1. [202r6](https://mentor.ieee.org/802.11/dcn/22/11-22-0202-06-00be-cr-for-eht-ul-mu-operation.docx) CR-for-EHT-UL-MU-Operation Jason Y. Guo [11C SP 5’]

Jason

Discussion:

C: I would like a count on this one.

SP4: Do you agree to resolve the following CIDs listed in [202r6](https://mentor.ieee.org/802.11/dcn/22/11-22-0202-06-00be-cr-for-eht-ul-mu-operation.docx) and incorporate the text changes into the latest TGbe draft?

* 5780, 5851, 7792, 8054, 5112, 5491, 6803, 6806, 8135, 7065, 7066

Result: Y/N/A: 49/19/45.

* 1. [075r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0075-04-00be-cr-for-cids-on-sta-id.docx) CR for CIDs on STA ID Yongho Seok [11C SP 5’]

SP5: Do you agree to resolve the following CIDs listed in [075r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0075-04-00be-cr-for-cids-on-sta-id.docx) and incorporate the text changes into the latest TGbe draft?

* 7860, 7938, 7088, 4166, 6339, 7939, 7089, 7889, 4165, 5110, 5343, 5344

Result: Supported with no objection from the group.

* 1. [1699r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1699-05-00be-cc36-cr-for-r-twt-rbo-before-service-period.docx) CR for r-TWT RBO before service period Abdel K. Ajami [3C SP 5’]

Discussion:

C: We try to solve the problem where multiple STAs reach BO 0 before the SP. Then after that SP boundary they will collide.

Some further discussion regarding the resolution.

SP6: Do you agree to resolve the following CIDs listed in [1699r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1699-05-00be-cc36-cr-for-r-twt-rbo-before-service-period.docx) and incorporate the text changes into the latest TGbe draft?

* 6416, 6968, 5949

Result: Y/N/A: 42/29/46 (one vote conveyed orally)

1. Technical Submissions**: MAC**
   1. [550r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0550-00-00be-cc36-comment-resolution-for-various-comments-part-1.docx) Com. Res. for various comments part 1 Liwen Chu [28C 30’]

Liwen goes through his comments. Some small discussion.

Out of time at CID 7599

1. Adjourn at 12:00 ET

# 16th Conf. Call: Apr 07 (10:00–12:00 ET)–MAC

MAC ad-hoc:

* <https://mentor.ieee.org/802.11/dcn/22/11-22-0516-03-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-to-may-2022.docx>

# 17th Conf. Call: Apr 11 (19:00–21:00 ET)–MAC

MAC ad-hoc:

* <https://mentor.ieee.org/802.11/dcn/22/11-22-0516-03-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-to-may-2022.docx>

# 18th Conf. Call: Apr 13 (10:00–12:00 ET)–JOINT

1. The Chair Alfred Asterjadhi calls the meeting to order at 10:01 ET. Today’s agenda can be found in [428r17](https://mentor.ieee.org/802.11/dcn/22/11-22-0428-17-00be-mar-may-tgbe-teleconference-agenda.docx).
2. IEEE 802 and 802.11 IPR policy and procedure
   1. Patent Policy: Ways to inform IEEE:
      1. Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
      2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
      3. Speak up now and respond to this Call for Potentially Essential Patents

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.

**Nobody speaks up.**

* 1. Copyright Policy: Participants are advised that
     1. 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;
     2. 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. **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures

1. Attendance reminder.
   1. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
   2. Please record your attendance during the conference call by using the IMAT system:
      1. 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.
   3. 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](mailto:dennis.sundman@ericsson.com)) and Alfred Asterjadhi
   4. Please ensure that the following information is listed correctly when joining the call:
      1. "[voter status] First Name Last Name (Affiliation)"
      2. Attendance:

* Abouelseoud, MohamedApple Inc.
* Aboulmagd, Osama Huawei Technologies Co., Ltd
* Adhikari, Shubhodeep Broadcom Corporation
* Aio, Kosuke Sony Corporation
* Ajami, Abdel Karim Qualcomm Incorporated
* Ansley, Carol Cox Communications Inc.
* Au, Kwok Shum Huawei Technologies Co., Ltd
* Baek, SunHee LG ELECTRONICS
* Bankov, Dmitry IITP RAS
* baron, stephane Canon Research Centre France
* Ben Arie, Yaron toga networks(a huawei company)
* Bredewoud, Albert Broadcom Corporation
* Carney, William Sony Group Corporation
* Chemrov, Kirill IITP RAS
* Chng, Shi Baw BAWMAN LLC
* Chu, Liwen NXP Semiconductors
* Chung, Chulho SAMSUNG
* Coffey, John Realtek Semiconductor Corp.
* Dong, Xiandong Xiaomi Inc.
* Erkucuk, Serhat Ofinno
* Fan, Shuang ZTE Corporation
* Fischer, Matthew Broadcom Corporation
* Gu, Xiangxin Unisoc
* GUIGNARD, Romain Canon Research Centre France
* Handte, Thomas Sony Corporation
* Ho, Duncan Qualcomm Incorporated
* Hsieh, Hung-Tao MediaTek Inc.
* Hu, Chunyu Facebook
* Huang, Lei Guangdong OPPO Mobile Telecommunications Corp.,Ltd
* Huang, Po-Kai Intel Corporation
* Huq, Kazi Mohammed Saidul Ofinno
* Ibrahim, Ahmed Samsung Research America
* Jang, Insun LG ELECTRONICS
* Jia, Jia Huawei Technologies Co., Ltd
* Kain, Carl USDoT; Noblis, Inc.
* Kakani, Naveen Qualcomm Incorporated
* Kamel, Mahmoud InterDigital, Inc.
* Kasher, Assaf Qualcomm Incorporated
* Khorov, Evgeny IITP RAS
* kim, Jiin LG ELECTRONICS
* Kim, Sang Gook LG ELECTRONICS
* Kim, Sanghyun WILUS Inc
* Kim, Yongho Korea National University of Transportation
* Kim, Youhan Qualcomm Incorporated
* Kishida, Akira Nippon Telegraph and Telephone Corporation (NTT)
* Klein, Arik Huawei Technologies Co., Ltd
* Kneckt, Jarkko Apple, Inc.
* Ko, Geonjung WILUS Inc.
* Kureev, Aleksey IITP RAS
* Lalam, Massinissa SAGEMCOM BROADBAND SAS
* Lanante, Leonardo Ofinno
* Lee, Wookbong SAMSUNG
* Le Houerou, Brice Canon Research Centre France
* Levitsky, Ilya IITP RAS
* Levy, Joseph InterDigital, Inc.
* Li, Jialing Qualcomm Technologies, Inc.
* Li, Yapu Guangdong OPPO Mobile Telecommunications Corp.,Ltd
* Lim, Dong Guk LG ELECTRONICS
* Loginov, Vyacheslav IITP RAS
* Lorgeoux, Mikael Canon Research Centre France
* Lu, kaiying MediaTek Inc.
* Lu, Liuming Guangdong OPPO Mobile Telecommunications Corp.,Ltd
* Ma, Li MediaTek Inc.
* Max, Sebastian Ericsson AB
* McCann, Stephen Huawei Technologies Co., Ltd
* Mehrnoush, Morteza Facebook
* MELZER, Ezer Toga Networks, a Huawei company
* Mohanty, Bibhu Qualcomm Incorporated
* Monajemi, Pooya Cisco Systems, Inc.
* Montemurro, Michael Huawei Technologies Co., Ltd
* Montreuil, Leo Broadcom Corporation
* Moon, Juseong Korea National University of Transportation
* Naik, Gaurang Qualcomm Incorporated
* Nam, Junyoung Qualcomm Incorporated
* NANDAGOPALAN, SAI SHANKAR Synaptics
* Nezou, Patrice Canon Research Centre France
* Ng, Boon Loong Samsung Research America
* Ozbakis, Basak VESTEL
* Pare, Thomas MediaTek Inc.
* Park, Eunsung LG ELECTRONICS
* Park, Minyoung Intel Corporation
* Patil, Abhishek Qualcomm Incorporated
* Ratnam, Vishnu Samsung Research America
* Redlich, Oded Huawei Technologies Co., Ltd
* Rosdahl, Jon Qualcomm Technologies, Inc.
* Ryu, Kiseon Ofinno
* Sato, Takuhiro SHARP CORPORATION
* Schelstraete, Sigurd MaxLinear
* Sevin, Julien Canon Research Centre France
* Sherlock, Ian Texas Instruments Inc.
* Shilo, Shimi Huawei Technologies Co., Ltd
* Shu, Tongxin Huawei Technologies Co., Ltd
* Smith, Malcolm Cisco Systems, Inc.
* Sosack, Robert Molex Incorporated
* Stanley, Dorothy Hewlett Packard Enterprise
* Strauch, Paul Qualcomm Incorporated
* SUH, JUNG HOON Huawei Technologies Co., Ltd
* Sun, Yanjun Qualcomm Incorporated
* Thompson, Tom IEEE STAFF
* THOUMY, Francois Canon Research Centre France
* Torab Jahromi, Payam Facebook
* Tsodik, Genadiy Huawei Technologies Co., Ltd
* Wang, Chao Chun MediaTek Inc.
* Wang, Lei Futurewei Technologies
* Wei, Dong NXP Semiconductors
* Wentink, Menzo Qualcomm Incorporated
* Wu, Kanke Qualcomm Incorporated
* Wullert, John Peraton Labs
* Xin, Yan Huawei Technologies Co., Ltd
* Yang, Steve TS MediaTek Inc.
* Yano, Kazuto Advanced Telecommunications Research Institute International (ATR)
* Yee, James MediaTek Inc.
* Yi, Yongjiang Spreadtrum Communication USA Inc.
* Yoon, Kangjin Meta
* Yukawa, Mitsuyoshi Canon, Inc.
* Zhang, Jiayi Ofinno
* Zhou, Lei H3C Technologies Co., Limited
* Zhou, Pei Guangdong OPPO Mobile Telecommunications Corp.,Ltd

1. Announcements: No announcements.
2. Agenda.
   1. Discussion:
      1. Document 559 is r3
      2. Guogang wants to defer the SP
      3. There’s no motion revision 66 on the server.
      4. I would like to defer 536
   2. Agenda approved with unanimous consent.
3. Proposed Additional Telcos prior to May Interim:
   1. May 02 Monday – MAC 19:00-21:00 ET
   2. May 04 Wednesday – Joint\* 10:00-12:00 ET
   3. Apr 05 Thursday – MAC 10:00-12:00 ET
   4. \*Can be modified to MAC on the fly with pre-announcement.
4. Technical Submissions**: CR**
   1. [209r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0209-04-00be-mlo-broadcast-architecture.pptx) MLO Broadcast Architecture Mike Montemurro [2C SP 10’]

Mike provides an update on what has happened since the previous meeting.

SP: Do you agree to resolve the following CIDs listed in [209r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0209-04-00be-mlo-broadcast-architecture.pptx) and incorporate the text changes into the latest TGbe draft?

* 6725 in slide 22 and 4919 in slide 23

Discussion: No discussion.

Result: Supported with no objection from the group.

1. Motions: [1982r66](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-66-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)
   1. Motion 325 (MAC-1)

Move to approve resolutions to the CIDs:

* 5179, 6541, 6988, 6989, 6520, 6542, 5517, 6213, 4101, 4264, 4265, 5515, 5516, 5828, 6620, 8059, 5170, 5906, 8032 in [11-22/308r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0308-04-00be-cc36-resolution-for-cids-related-to-ml-advertisement-part-3.docx) *[19 CIDs]*
* 5174 in [11-21/1272r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1272-01-00be-cc36-cr-on-5174.doc) *[1 CID]*
* 5261, 5353, 6303, 8036, 7414, 6159, 7501, 8297, 7876, 8362 in [11-22/292r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0292-04-00be-cc36-mlo-power-save-procedures-part-2.docx) *[10 CIDs]*
* ~~6205~~, 6632, 6723, 6724, 7883 in [11-21/1277r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1277-00-00be-cc36-cr-for-d1-0-group-key-handshake-cids.docx) *[4 CIDs]*
* 4772, 5348, 6506, 4781, 6413, 7408, 5878, 4122, 5730, 4589 in [11-22/392r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0392-00-00be-cc36-crs-for-some-cids-on-restricted-twt.docx) *[10 CIDs]*
* 4003, 4347, 4348, 5590, 5939, 6764, 4012, 5744, 6014, 7570 in [11-22/439r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0439-02-00be-cc36-cr-for-remaining-cids-about-critical-update.docx) *[10 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Mike Montemurro Second: Rojan Chitrakar

Result: Approved with unanimous consent.

* 1. Motion 326 (MAC-2)

Move to approve resolutions to the CIDs:

* 7850, 6757, 4055, 6578, 7816, 6283, 4056, 4057, 4058, 4742, 4743, 4744, 5985, 6287, 6288, 6403, 4061, 5239, 8039, 6580, 4745, 7333, 7852, 4110, 6582, 4382, 4383, 5271, 5274, 5029, 7819, 5080, 5081, 5282, 5283, 6459, 6460, 5685, 4054, 6258, 6526, 5214, 5922, 6579, 6731, 6504, 6524 in [11-22/508r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0508-02-00be-cc36-resolution-to-cids-for-35-3-6.docx) *[47 CIDs]*
* 4700, 4701, 7497, 7612, 7613, 6939, 4332, 4306, 6170, 5346, 6348, 4371, 6219, 5342, 4333, 7565, 5912, 7580, 6349, 5138, 5760, 6502, 4389, 4749, 5149, 5762, 7418, 7825, 7867, 4757, 7422, 6962, 5934, 7423 in [11-22/306r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0306-01-00be-cc36-cr-emlsr-misc.docx) *[34 CIDs]*
* 4047, 5076, 5914, 5978, 6751, 6981, ~~7893~~, 6011, 5336, 5451, 8048, 7467 in [11-21/2027r3](https://mentor.ieee.org/802.11/dcn/21/11-21-2027-03-00be-cc36-resolution-for-cids-in-clause-35-3-4-3-part-2.docx) *[11 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Minyoung Park Second: Stephen McCann

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 327 (MAC-3)

Move to approve resolutions to the CIDs:

* 6319, 7609, 8349, 8350, 4237, 5103, 6657, 7869, 4268, 4733, 5131, 5354, 5442, 5835, 5942, 6022, 4367, 6214, 6389, 6976, 7583, 6215, 6590, 6591, 7776, 6927, 7666, 5143, 5241, 5242, 5965, 8319, 4191, 4192, 6357, 6358, 6978, 7774, 8326, 5599, 6531 in [11-21/1825r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1825-01-00be-remaining-cr-for-35-3-15-8-1.docx) *[41 CIDs]*
* 4482, 4483, 6316, 6317, 6383, 6771, 6773, 7871, 8249, 8347, 4233, 4412, 4753, 7787, 8040, 8348, 4413, 7608 in [11-21/1575r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1575-02-00be-proposed-cr-for-clause-35-3-15-6-sync-ppdu-start-time.docx) *[18* CIDs*]*
* 6205 in [11-21/1277r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1277-01-00be-cc36-cr-for-d1-0-group-key-handshake-cids.docx)and 5074 in [11-21/1184r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1184-03-00be-cc36-resolution-for-cids-related-to-mbssid-part-1.docx) *[2* CIDs*]*
* 4760, 5668, 6882, 5612, 5844, 6551, 5650, 7490 in [11-22/214r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0214-05-00be-cc36-cr-emlsr.docx) *[8* CIDs*]*
* 4165, 4166, 5110, 5343, 5344, 6339, 7088, 7089, 7860, 7889, 7938, 7939 in [11-22/0075r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0075-04-00be-cr-for-cids-on-sta-id.docx) *[12 CIDs]\**

and incorporate the text changes into the latest TGbe draft.

Move: Mike Montemurro Second: Chunyu Hu

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 328 (MAC-4)

Move to approve resolutions to the CIDs:

* 4004, 4012, 4098, 4330, 5894, 5317, 5319, 8273 in [11-22/382r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0382-03-00be-cc36-cr-for-remaining-cids-in-subclause-9.docx) *[8 CIDs]*
* 5329, 5330, 6329, 4103, 6859, 6860, 6861, 6862, 6863 in [11-21/1185r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1185-05-00be-cc36-resolution-for-cids-related-to-mbssid-part-2.docx) *[9 CIDs]*
* 7435, 4062, 6625, 7601, 7894, 6675, 6992, 6993, 5163, 5166 in [11-21/1582r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1582-05-00be-cc36-resolution-for-cids-related-to-mlo-ba-procedures-part-2.docx) *[10 CIDs]*
* 6507 in [11-22/392r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0392-01-00be-cc36-crs-for-some-cids-on-restricted-twt.docx) *[1 CIDs]*
* 7730, 4120, 5727, 6333, 7462, 6508, 6513, 4711, 5660, 5661, 4152, 7083, 7082, 5642, 6477, 7676, 7875, 4092, 5643, 7485, 7677, 6509, 5663, 5359, 6479 in [11-22/326r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0326-05-00be-cc36-cr-for-35-6-1.docx) *[25 CIDs]*
* 6198, 7456, 4025, 7893, 6324, 4421 in [11-22/2027r4](https://mentor.ieee.org/802.11/dcn/21/11-21-2027-04-00be-cc36-resolution-for-cids-in-clause-35-3-4-3-part-2.docx) *[6 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Stephen McCann Second: Chunyu Hu

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 329 (Joint-1)

Move to approve resolutions to the CIDs:

* 8370 in [11-22/2014r3](https://mentor.ieee.org/802.11/dcn/21/11-21-2014-03-00be-cr-for-35-5-3-part3.docx) *[1 CID]*
* 5564 in [11-22/2012r2](https://mentor.ieee.org/802.11/dcn/21/11-21-2012-02-00be-cr-for-35-5-3-part1.docx) *[1 CID]*
* 6937, 4658, 6077, 5312, 5313, 4963, 7330, 4005 in [11-22/452r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0452-02-00be-cr-trigger-frame-and-ss.docx) *[8 CIDs]*
* 8067, 6694 in [11-22/537r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0537-01-00be-cr-trigger-subclause-structure-8067-6694.docx) and 5497 in [11-22/388r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0388-01-00be-cc36-cr-on-cid-5497.doc) and 4300, 5947 in [11-22/525r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0525-01-00be-cc36-cr-on-cid-4300-and-5947.docx) *[5 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Stephen McCann Second: Ross Jian Yu

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 330 (Quarantine-1)

Move to approve a resolution of:

*“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:

* 7888 in [11-21/1483r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1483-04-00be-cc36-cr-cid-7888.docx)  *[1 CID, SP on 10 Feb’22: 25Y, 27N, 26A]*
* 4586, 4587, 5022, 5023, 6525 in [11-21/1577r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1577-03-00be-cr-for-low-latency-bsr.pptx)  *[5 CIDs, SP on 13 Jan’22: 39Y, 30N, 25A]*
* 6511, 6521 in [11-21/1686r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1686-03-00be-cr-for-low-latency-stream-identification.pptx)  *[2 CIDs, SP on 7 Feb’22: 16Y, 45N, 22A]*
* 6512, 6544, 6548, 7338 in [11-21/1718r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1718-04-00be-cc36-cr-for-rtwt-sp-protection.docx)  *[4 CIDs, SP on 14 Feb’22: 10Y, 45N, 21A]*
* 4016, 6000, 6072 in [11-21/1176r11](https://mentor.ieee.org/802.11/dcn/21/11-21-1176-11-00be-cc36-resolution-for-cids-related-to-ml-advertisement-part-2.docx)  *[3 CIDs, SP on 14 Feb’22: 31Y, 22N, 25A]*
* 4041 in [11-21/386r7](https://mentor.ieee.org/802.11/dcn/21/11-21-0386-07-00be-cc34-resolution-for-cid-1038.docx)  *[1 CID, SP on 17 Feb’22: 31Y, 22N, 25A]*

Move: Bin Tian Second: Stephen McCann

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 331 (Quarantine-2)

Move to approve a resolution of:

*“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:

* 4155, 4431, 4785, 4935, 5519, 5953, 6510, 6543, 6780, 7084, 7431, 7432, 7469, 7633, 7634, 7857 in [11-21/1902r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1902-04-00be-cc36-cr-for-rtwt-low-lat-differentiation.docx)  *[16 CIDs, SP on 28 Feb’22: 31Y, 20N, 22A]*
* 6416, 6968, 5949 in [11-21/1699r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1699-05-00be-cc36-cr-for-r-twt-rbo-before-service-period.docx)  *[3 CIDs, SP on Mar 10’22: 52Y, 21N, 28A]*
* 4156, 4433, 4783, 5938, 6412, 6746, 7858, 6948, 4151 in [11-21/1147r8](https://mentor.ieee.org/802.11/dcn/21/11-21-1147-08-00be-cc36-cr-35-6-restricted-twt-announcement.docx)

*[9 CIDs, SP on Mar 10’22: 33Y, 49N, 16A]*

* 4778, 6408, 6409, 6423 in [11-21/1224r12](https://mentor.ieee.org/802.11/dcn/21/11-21-1224-12-00be-cc-36-cr-for-restricted-twt-setup.docx)  *[4 CIDs, SP on Mar’10’22: 37Y, 36N, 32A]*
* 4089, 4161, 4435, 4490, 4784, 6337, 6338, 6745, 7470 in [11-21/1698r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1698-02-00be-cc36-cr-for-r-twt-quieting-rules.docx)

*[9 CIDs, Motion on Dec’15’21: 44Y, 58N, 32A ].*

Move: Chunyu Hu Second: Stephen McCann

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 332 (Quarantine-3)

Move to approve a resolution of:

*“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:

* 6270, 6588, 6589 in [11-21/1591r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1591-03-00be-multi-link-association-terminology.docx)  *[3 CIDs, Discussed on Dec’13’21. No SP was run.]*
* 8355 in [11/21/0287r9](https://mentor.ieee.org/802.11/dcn/21/11-21-0287-09-00be-cc34-cr-emlsr-part2.docx) *[1 CID, Discussed on Dec’21’21. No SP was run.]*
* 4823, 5964, 6073, 6980 in [11-21/1509r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1509-02-00be-cc36-comment-resolution-triggered-txop-sharing.docx) *[4 CIDs, Discussed on Feb’24’22. No SP was run.]*
* 4262, 6012 in [11-21/1533r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1533-05-00be-cc36-cr-on-eht-operation-element.doc)  *[2 CIDs, Discussed on Feb’09’22. No SP was run.]*
* 5038 in [11-21/1562r8](https://mentor.ieee.org/802.11/dcn/21/11-21-1562-08-00be-cc36-resolution-for-cids-for-35-3-9-2.docx)  *[1 CID, Discussed on Jan’10’22. No SP was run.]*
* 6946 in [11-21/1706r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1706-02-00be-cr-for-cids-related-to-emlsr-beacon-transmission-and-reception.docx)  *[1 CID , Discussed on Jan’27’22. No SP was run.]*

Move: Bin Tian Second: Laurent Cariou

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 333 (Quarantine-4)

Move to approve a resolution of:

*“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:

* 4119, 5726 in [11/21/1601r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1601-05-00be-cc36-comment-resolution-subclause-35-3-7-2.docx)  *[2 CIDs, Discussed on Jan’24’22. No SP was run.]*
* 6266, 6268 in [11/21/1713r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1713-01-00be-cc36-cr-for-ml-element-usage.docx)  *[2 CIDs, Discussed on Dec’07’21. No SP was run.]*
* 4737, 4821 in [1/21/1731r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1731-04-00be-cr-for-35-2-1-3-remaining-part1.docx)  *[2 CIDs, Discussed on Dec’08’21. No SP was run.]*
* 4318 in [11-21/1778r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1778-02-00be-eht-sounding-enhancements.pptx) *[1 CID, Discussed on Feb’16’22. No SP was run.]*
* 5267 in [11/21/1786r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1786-07-00be-cr-for-nstr-mobile-ap-mlo-part2.docx) *[1 CID, Discussed on Dec’07’21 & Jan’20’22. No SP was run.]*

Move: Mike Montemurro Second: Chunyu Hu

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 334 (Quarantine-5)

Move to approve a resolution of:

*“Rejected -- A proposed resolution for “this CID” was discussed as part of the comment resolutions in “document”, however the group could not reach consensus on a proposed change that would resolve the comment.”* for “these CIDs” and with referenced “documents” listed below:

* 4121, 4779, 4780 in [11-21/1802r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1802-03-00be-cc36-crs-restricted-twt-additional-rules.docx) *[3 CIDs, Discussed on Dec’13’21. No SP was run.]*
* 8197 in [11](https://mentor.ieee.org/802.11/dcn/21/11-21-1808-01-00be-cc36-cr-of-cid-8197.docx)[-](https://mentor.ieee.org/802.11/dcn/21/11-21-1802-03-00be-cc36-crs-restricted-twt-additional-rules.docx)[21/1808r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1808-01-00be-cc36-cr-of-cid-8197.docx) *[1 CID, Discussed on Dec’16’21. No SP was run.]*
* 4022, 4736, 5133, ~~5956, 5957~~, 6540, 6638, 6667, 8178 in [11](https://mentor.ieee.org/802.11/dcn/21/11-21-1894-02-00be-cr-for-cids-on-tid-to-link-mapping.docx)[-](https://mentor.ieee.org/802.11/dcn/21/11-21-1802-03-00be-cc36-crs-restricted-twt-additional-rules.docx)[21/1894r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1894-02-00be-cr-for-cids-on-tid-to-link-mapping.docx)

*[7 CIDs, Discussed on Jan’6’22 & Jan‘10’22. No SP was run.]*

* 5157, 6643 in [11](https://mentor.ieee.org/802.11/dcn/21/11-21-1898-07-00be-cc36-resolution-to-cids-for-35-3-6-1-1.docx)[-](https://mentor.ieee.org/802.11/dcn/21/11-21-1802-03-00be-cc36-crs-restricted-twt-additional-rules.docx)[21/1898r7](https://mentor.ieee.org/802.11/dcn/21/11-21-1898-07-00be-cc36-resolution-to-cids-for-35-3-6-1-1.docx) *[2 CIDs, Discussed on Dec’9’21 & Dec 20’21. No SP was run.]*
* 5980, 6726, 7436, 7457 in [11-21/1899r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1899-00-00be-cc36-resolution-to-cids-for-35-3-4-5.docx) *[4 CIDs, Discussed on Jan’10’22. No SP was run.]*
* 6101, 7891 in [11](https://mentor.ieee.org/802.11/dcn/21/11-21-1978-01-00be-cr-for-11-3.docx)[-](https://mentor.ieee.org/802.11/dcn/21/11-21-1802-03-00be-cc36-crs-restricted-twt-additional-rules.docx)[21/1978r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1978-01-00be-cr-for-11-3.docx) *[2 CIDs, Discussed on Dec’16’21. No SP was run.]*
* 5447 in [11](https://mentor.ieee.org/802.11/dcn/22/11-22-0285-00-00be-cc36-cr-on-cid-5447.doc)[-](https://mentor.ieee.org/802.11/dcn/21/11-21-1802-03-00be-cc36-crs-restricted-twt-additional-rules.docx)[22/0285r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0285-00-00be-cc36-cr-on-cid-5447.doc) *[1 CID, Discussed on Feb’16’22. No SP was run.]*

Move: Stephen McCann Second: Bin Tian

Discussion: None.

Result: Approved with unanimous consent.

* 1. Motion 335 (Post-Q)

Move to approve resolutions to the CIDs:

* 4316, 4317 in [11-22/255r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0255-03-00be-cc36-cr-for-clause-6-3.docx) [2 CIDs, SP on Mar 09’22: 78Y, 45N, 63A]

and incorporate the text changes into the latest TGbe draft.

Move: Arik Klein, Second: Ming Gan

Discussion: Some discussion.

Preliminary Result: Y/N/A:49/42/31🡪Preliminary fails

Result:

* 1. Motion 336 (Post-Q)

Move to approve resolutions to the CIDs:

* 6244, 4038, 4251, 6618, 4399, 5220, 5763, 6613, 6614, 6615, 6616, 6252, 4072, 4400, 6032, 4715 in [11-21/1877r9](https://mentor.ieee.org/802.11/dcn/21/11-21-1877-09-00be-cr-for-mld-individually-addressed-management-frame-delivery.docx) *[16 CIDs, Motion on 14 Mar’22: 89Y, 71N, 32A]*

and incorporate the text changes into the latest TGbe draft.

Postponed to next time.

* 1. Motion 337 (Post-Q)

Move to approve resolutions to the CIDs:

* 5112, 5491, 5780, 5851, 6803, 6806, 7065, 7066, 7792, 8054, 8135 in [11-22/202r6](https://mentor.ieee.org/802.11/dcn/22/11-22-0202-06-00be-cr-for-eht-ul-mu-operation.docx)

*[11 CIDs, SP on Mar 23’22: 32Y, 38N, 41A]*

and incorporate the text changes into the latest TGbe draft.

Move: Jason Guo Second: Ross Jian Yu

Discussion: No discussion

Result: Y/N/A: 61/17/33 🡪 Preliminary passes.

Result:

* 1. Motion 338 (Post-Q)

Move to approve resolutions to the CIDs:

* 4074, 4075, 4279, 5943, 5992, 6306, 6307, 6609, 6610, 6611, 6612, 6635, 7885, 8043 in [11-22/184r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0184-01-00be-cr-for-group-addressed-bus-by-tim.docx)

*[14 CIDs, SP on 9 Mar’22: 39Y, 35N, 27A]*

and incorporate the text changes into the latest TGbe draft.

Postponed to next week.

1. AoB: No other business.
2. Adjourn at 11:59.

# 19th Conf. Call: Apr 14 (10:00–12:00 ET)–MAC

MAC ad-hoc:

* <https://mentor.ieee.org/802.11/dcn/22/11-22-0516-03-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-to-may-2022.docx>

# 20th Conf. Call: Apr 18 (19:00–21:00 ET)–MAC

MAC ad-hoc:

* <https://mentor.ieee.org/802.11/dcn/22/11-22-0516-03-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-to-may-2022.docx>

# 21st Conf. Call: Apr 20 (10:00–12:00 ET)–JOINT TGbe/TSN

1. This is a joint call with TGbe and 802.1 TSN. The Chairs Alfred Asterjadhi and Janos Farkas start the meeting at 10:01 ET. Today’s agenda can be found in [428r21](https://mentor.ieee.org/802.11/dcn/22/11-22-0428-21-00be-mar-may-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](mailto: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

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. **Nobody speaks up.**

* 1. 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. **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures

1. Attendance reminder.
   1. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
   2. 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.
   3. 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](mailto:dennis.sundman@ericsson.com)) and Alfred Asterjadhi
   4. Please ensure that the following information is listed correctly when joining the call:
      * "[voter status] First Name Last Name (Affiliation)"
      * List of attendees:

Aboulmagd, Osama Huawei Technologies Co., Ltd

Anwyl, Gary MediaTek Inc.

Asterjadhi, Alfred Qualcomm Incorporated

Au, Kwok Shum Huawei Technologies Co., Ltd

Baek, SunHee LG ELECTRONICS

Bankov, Dmitry IITP RAS

Belliardi, Rudy Schneider Electric

Bredewoud, Albert Broadcom Corporation

Canchi, Radhakrishna Kyocera International Inc

Carney, William Sony Group Corporation

Chemrov, Kirill IITP RAS

CHERIAN, GEORGE Qualcomm Incorporated

Chitrakar, Rojan Panasonic Asia Pacific Pte Ltd.

Chng, Shi Baw BAWMAN LLC

Choi, Jinsoo LG ELECTRONICS

Chu, Liwen NXP Semiconductors

CHUN, JINYOUNG LG ELECTRONICS

Coffey, John Realtek Semiconductor Corp.

Das, Subir Peraton Labs

DeLaOlivaDelgado, Antonio InterDigital, Inc.

Dong, Xiandong Xiaomi Inc.

Erkucuk, Serhat Ofinno

Fan, Shuang ZTE Corporation

Fang, Yonggang Mediatek

Farkas, Janos Ericsson AB

Fazel, Fatemeh Intel corp

Fischer, Matthew Broadcom Corporation

Ghosh, Chittabrata Facebook, Inc.

Gu, Xiangxin Unisoc

GUIGNARD, Romain Canon Research Centre France

Gunther, Craig LabN Consulting, L.L.C.

Gupta, Binita Meta Platforms, Inc.

Haider, Muhammad Kumail Facebook

Han, Jonghun SAMSUNG

Ho, Duncan Qualcomm Incorporated

Hsieh, Hung-Tao MediaTek Inc.

Hsu, Chien-Fang MediaTek Inc.

Hsu, Ostrovsky Xiaomi Inc.

Hu, Chunyu Facebook

Huang, Lei Guangdong OPPO Mobile Telecommunications Corp.,Ltd

Huang, Po-Kai Intel Corporation

Huq, Kazi Mohammed Saidul Ofinno

Ibrahim, Ahmed Samsung Research America

Ito, Yoshihiro Nagoya Institute of Technology

Jang, Insun LG ELECTRONICS

Kain, Carl USDoT; Noblis, Inc.

Kamel, Mahmoud InterDigital, Inc.

Kehrer, Stephan Hirschmann Automation and Control GmbH

Khorov, Evgeny IITP RAS

Kim, Jeongki Ofinno

kim, Jiin LG ELECTRONICS

Kim, Sang Gook LG ELECTRONICS

Kim, Sanghyun WILUS Inc

Kim, Yongho Korea National University of Transportation

Kim, Youhan Qualcomm Incorporated

Kishida, Akira Nippon Telegraph and Telephone Corporation (NTT)

Klimakov, Andrey Huawei Technologies Co., Ltd

Kneckt, Jarkko Apple, Inc.

Ko, Geonjung WILUS Inc.

Koundourakis, Michail Samsung Cambridge Solution Centre

Lalam, Massinissa SAGEMCOM BROADBAND SAS

Lanante, Leonardo Ofinno

Levitsky, Ilya IITP RAS

Levy, Joseph InterDigital, Inc.

Li, Yapu Guangdong OPPO Mobile Telecommunications Corp.,Ltd

Lim, Dong Guk LG ELECTRONICS

Lorgeoux, Mikael Canon Research Centre France

Lu, kaiying MediaTek Inc.

Lu, Liuming Guangdong OPPO Mobile Telecommunications Corp.,Ltd

McCann, Stephen Huawei Technologies Co., Ltd

Mehrnoush, Morteza Facebook

Monajemi, Pooya Cisco Systems, Inc.

Montemurro, Michael Huawei Technologies Co., Ltd

Moon, Juseong Korea National University of Transportation

Motozuka, Hiroyuki Panasonic Corporation; Panasonic Holdings Corporation

Naik, Gaurang Qualcomm Incorporated

Nakano, Hiroki CAHI Corporation; Kyoto University

Nayak, Peshal Samsung Research America

Nezou, Patrice Canon Research Centre France

Ng, Boon Loong Samsung Research America

noh, yujin Senscomm

Orlando, Christian IEEE STAFF

Palayur, Saju Maxlinear Inc

Park, Eunsung LG ELECTRONICS

Park, Minyoung Intel Corporation

Park, Sungjin Senscomm

Parsons, Glenn Ericsson AB

Patil, Abhishek Qualcomm Incorporated

Patwardhan, Gaurav Hewlett Packard Enterprise

Petrick, Albert InterDigital, Inc.

Pettersson, Charlie Ericsson AB

Proell, Dieter Siemens AG

Rantala, Enrico-Henrik Zeku

Regev, Alon Keysight Technologies

Riegel, Maximilian Nokia

Rouyer, Jessy Nokia

Ryu, Kiseon Ofinno

Schelstraete, Sigurd MaxLinear

Seewald, Maik Cisco Systems, Inc.

Shafin, Rubayet Samsung Research America

Sherlock, Ian Texas Instruments Inc.

Shu, Tongxin Huawei Technologies Co., Ltd

Sosack, Robert Molex Incorporated

Srivatsa, Veena Synaptics

Stacey, Robert Intel Corporation

Stanley, Dorothy Hewlett Packard Enterprise

SUH, JUNG HOON Huawei Technologies Co., Ltd

Sun, Bo ZTE Corporation

Sundman, Dennis Ericsson AB

Tanaka, Yusuke Sony Group Corporation

Taori, Rakesh Infineon Technologies

VIGER, Pascal Canon Research Centre France

Wang, Chao Chun MediaTek Inc.

Wang, Hao Tencent

Wei, Dong NXP Semiconductors

Wentink, Menzo Qualcomm Incorporated

Wilhelmsson, Leif Ericsson AB

Wullert, John Peraton Labs

Xin, Yan Huawei Technologies Co., Ltd

Yamada, Ryota SHARP CORPORATION

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.

Yukawa, Mitsuyoshi Canon, Inc.

Zhang, Jiayi Ofinno

Zhou, Lei H3C Technologies Co., Limited

Zhou, Pei Guangdong OPPO Mobile Telecommunications Corp.,Ltd

1. Agenda.

Approved with unanimous consent.

1. Technical Submissions:
   1. [1868r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1868-03-00be-redundant-transmission-over-ml-for-low-latency-traffic.pptx) Redundant transmission over ml for low latency traffic Xiangxin Gu

Summary: The authors propose to use ML to transmit multiple copies of a PPDU over several links. This can increase reliability and improve latency.

Discussion:

C: Duplicating the PPDUs will not really guarantee anything.

C: I like this idea, but I think this is already supported by the TGbe standard.

C: Is this useful for NSTR? 🡪 Yes I think it may be because the transmission may still be successful on one link.

C: In rTWT there are SP termination features to manage SPs efficiently.

* 1. [634r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0634-01-00be-802-11be-enhancements-for-tsn-time-aware-scheduling-and-network-management-considerations.pptx) 802.11be Enhancements for TSN time-aware scheduling and network management considerations Dave Cavalcanti

Summary: The authors have listed the capabilities of 802.11 for supporting TSN like traffic.

C: Regarding the simulation results, what’s the difference between WiFi7 and 11be? 🡪 11be has the start-time.

C: You appear to use the term TSN rather loosely. 🡪 No, we use some parts of TSN as a toolbox. When we say wireless TSN, we mean 802.1AS and 802.1Qbv.

C: Slide 9, what do you mean by start-time? 🡪 The start-time means the absolute time the application will start. These are actually measurements in a system and not simulations.

C: What about a legend in the graph? Do the text correspond to the text? 🡪 Yes.

C: From the 802.11 MAC/PHY perspective, do we need to add more tools to support TSN or is it about using what we have? 🡪 Some of the tools are already sufficient. We probably need to discuss tool-by-tool. For redundancy, maybe there are some interface needed to trigger/control it.

C: In slide 9, what is meant by Wireless TSN where is the extra gain you get? 🡪 Qbv is applied to control the queues on top of the MAC layer. The whole system is synchronized.

* 1. [638r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0638-01-00be-consideration-on-the-tsn-capabilities-and-xr-applications-in-wi-fi.pptx) Consideration on the TSN capabilities and XR applications in Wi-Fi Liuming Lu

Summary: The authors look at features and requirements for XR applications. They believe controlled environments are important to support this. They have performed some experiments where the focus appears Wi-Fi Direct and Miracast.

No discussion due to lack of time.

1. Next steps:
   1. Snapshot from TGbe Timeline
      * D2.0 WG Letter Ballot May\* 2022 (\*current target)
      * D3.0 Letter Ballot Nov 2022
   2. Target: A report to be shared with IEEE802.1:
      * Provides an overview of the most up to date EHT functionalities relevant for TSN
      * With an ETA of November 2022
2. AoB: No other business.
3. Adjourn at 12:00 ET.