IEEE P802.11  
Wireless LANs

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| Minutes for TGbe MAC Ad-Hoc teleconferences in September and November 2022 | | | | |
| Date: 2022-09-26 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Liwen Chu | NXP |  |  |  |
| Jeongki Kim | Ofinno |  |  |  |
|  |  |  |  |  |

Abstract

This document contains the meeting minutes for the TGbe MAC ad hoc teleconferences held in September 2022 and November 2021.

Revisions:

* Rev0: Added the minutes from the telephone conferences held on Sept 26,
* Rev1: Added the minutes of teleconferences held on Sept 28, Oct 16, Oct 17, Oct 19
* Rev2: Added the minutes of teleconferences held on Oct 27
* Rev3: Added the minutes of teleconferences held on Oct 31
* Rev4: Added the minutes of teleconferences held on Nov 02

**Monday 26 Sept 2022, 07:00pm – 09:00pm ET (TGbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (Ofinno)

Secretary: Liwen Chu (NXP)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Jeongki, Ofinno) calls the meeting to order at 07:02pm EDT. The Chair introduces himself and the Secretary, Liwen (NXP)
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
   1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
   * 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.
   * If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) and Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
5. The agenda 11-22/1657r0 is approved without change.

**Recorded attendance through Imat and e-mail:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 9/26 | Adachi, Tomoko | TOSHIBA Corporation |
| TGbe (MAC) | 9/26 | Ajami, Abdel Karim | Qualcomm Incorporated |
| TGbe (MAC) | 9/26 | Carney, William | Sony Group Corporation |
| TGbe (MAC) | 9/26 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 9/26 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 9/26 | Chu, Liwen | NXP Semiconductors |
| TGbe (MAC) | 9/26 | Coffey, John | Realtek Semiconductor Corp. |
| TGbe (MAC) | 9/26 | Das, Subir | Peraton Labs |
| TGbe (MAC) | 9/26 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (MAC) | 9/26 | Fan, Shuang | ZTE Corporation |
| TGbe (MAC) | 9/26 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 9/26 | Gu, Xiangxin | Unisoc |
| TGbe (MAC) | 9/26 | Haider, Muhammad Kumail | Facebook |
| TGbe (MAC) | 9/26 | Hamilton, Mark | Ruckus/CommScope |
| TGbe (MAC) | 9/26 | Huang, Po-Kai | Intel |
| TGbe (MAC) | 9/26 | Kipness, Michael | IEEE Standards Association (IEEE-SA) |
| TGbe (MAC) | 9/26 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/26 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (MAC) | 9/26 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (MAC) | 9/26 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/26 | Naik, Gaurang | Qualcomm Incorporated |
| TGbe (MAC) | 9/26 | Nayak, Peshal | Samsung Research America |
| TGbe (MAC) | 9/26 | Ng, Boon Loong | Samsung Research America |
| TGbe (MAC) | 9/26 | Ouchi, Masatomo | Canon |
| TGbe (MAC) | 9/26 | Palayur, Saju | Maxlinear Inc |
| TGbe (MAC) | 9/26 | Park, Minyoung | Intel |
| TGbe (MAC) | 9/26 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 9/26 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 9/26 | Qi, Yue | Samsung Research America |
| TGbe (MAC) | 9/26 | Quan, Yingqiao | Unisoc |
| TGbe (MAC) | 9/26 | Ratnam, Vishnu | Samsung Research America |
| TGbe (MAC) | 9/26 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (MAC) | 9/26 | Sevin, Julien | Canon Research Centre France |
| TGbe (MAC) | 9/26 | Shirakawa, Atsushi | SHARP CORPORATION |
| TGbe (MAC) | 9/26 | Taori, Rakesh | Infineon Technologies |
| TGbe (MAC) | 9/26 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 9/26 | Wang, Xiaofei | InterDigital, Inc. |
| TGbe (MAC) | 9/26 | Wullert, John | Peraton Labs |
| TGbe (MAC) | 9/26 | Yang, Jay | Nokia |
| TGbe (MAC) | 9/26 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 9/26 | Yee, James | MediaTek Inc. |
| TGbe (MAC) | 9/26 | Zhang, Jiayi | Ofinno |

**Submissions**

1. [1586r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1586-00-00be-lb266-resolution-for-comments-related-to-nstr-emlsr-handling-with-tdls.docx) Res. related to NSTR-EMLSR handl. with TDLS Abhishek Patil [14C 25’]

Discussion:

C: when an AP of AP MLD is talking with a STA of non-AP MLD, is there any reason to disallow another link’s TDLS frame exchange?

A: no. It is better to use TWT.

C: Does it have to be shall from STA side?

A: Prefer to be shall requirement.

C: the propsoed method doesn’t work with EMLSR.

A: will do offline discussion.

SP: Do you support to accept the resolution in 11-22/1586r0 for the following CIDs?

10058 13081 ~~10059~~ ~~11656~~ 10060 11657 13083 13083 10061 13084 10367 11158 10660 13635

SP deferred

1. [1645r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1645-00-00be-be-d2-0-comment-resolution-subclause-35-15-3-35-15-4-35-15-5-35-15-6.docx) CR subclause 35.15.3 35.15.4 35.15.5 35.15.6 Liwen Chu [14C 25’]

Discussion:

SP: Do you support to accept the resolution in 11-22/1645r1 for the following CIDs?

11936, 10821, 10822, 11279, 11006, 11007, 11280, 11008, 11963, 11009,

11153, 11937, 11010, 11012

No Objection

1. [1582r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1582-00-00be-resolution-of-addressing-related-cids-in-clause-35-17-lb-266.docx) Res. of Addressing-Related CIDs in Clause 35.17John Wullert [11C 15’]

Discussion:

C: another pending CID is related to the last CID, please defer it.

A: ok.

SP: Do you support to accept the resolution in 11-22/1582r2 for the following CIDs?

10510, 10379, 10475, 10262, 10380, 10476, 11803, 10264, 10181, 11825~~, 10473~~

No Objection

1. [1477r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1477-00-00be-lb266-cr-for-clause-9-and-10.docx) CR for Clause 9 and 10 Gaurang Naik [10C 15’]

Discussion:

C: last CID needs more thinking. The context will give the correct information although link ID and similar name are used in the spec.

A: Ok.

C: prefer to keep it.

C: MLO will be used for TDLS. AP ID is not suitable.

A: will defer the CID.

SP: Do you support to accept the resolution in 11-22/1477r1r2 for the following CIDs?

12958, 11123, 10842, 10708, 13126, 13127, 11987, 10844~~, 12940~~

No Objection

1. [1500r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1500-00-00be-11be-d2-0-comment-resolution-10-12.docx) D2.0 comment resolution subclause 10.12 Liwen Chu [7C 15’]

Discussion:

SP: Do you support to accept the resolution in 11-22/1500r1 for the following CIDs?

~~11852, 13453,~~ 13715, 13124, 12977, 13125, 14102

No Objection

1. [1373r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1373-00-00be-lb266-cr-for-cid-11700.docx) CR for CID 11700 Abdel K. Ajami [1C 10']

Discussion:

C: the definition of extended target wake time is not clear. ”shall” in the first paragraph should be ”may”.

A: will do offline checking.

C: it better to define a new R-TWT element.

A: since R-TWT is one type of broadcast TWT, it is easier to define this way.

SP deferred

1. [1454r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1454-00-00be-lb266-cr-for-cid-10674.docx) LB266 CR for CID 10674 Abdel K. Ajami [1C 10']

Discussion:

C: similar question. How is it measured? Can STA decide which type of report to transmit?

A: STA will decide.

The chair mentioned that several persions are still in the queue and need to do offline discusion.

SP deferred

There is no response to chair’s request for other business. The meeting is adjorned at 08:59pm.

**Wednesday 28 September 2022, 10:00am – 12:00pm ET (TGbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (Ofinno)

Secretary: Liwen Chu (NXP)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Jeongki, Ofinno) calls the meeting to order at 10:02am EDT. The Chair introduces himself and the Secretary, Liwen (NXP)
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
   1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
   * 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.
   * If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) and Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
5. The agenda in 11-22/1657r1 is approved without change.

**Recorded attendance through Imat and e-mail:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 9/28 | Adhikari, Shubhodeep | Broadcom Corporation |
| TGbe (MAC) | 9/28 | Ajami, Abdel Karim | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 9/28 | Bahn, Christy | IEEE STAFF |
| TGbe (MAC) | 9/28 | baron, stephane | Canon Research Centre France |
| TGbe (MAC) | 9/28 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (MAC) | 9/28 | Cao, Rui | NXP Semiconductors |
| TGbe (MAC) | 9/28 | Cheng, Xilin | NXP Semiconductors |
| TGbe (MAC) | 9/28 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 9/28 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 9/28 | Choi, Jinsoo | LG ELECTRONICS |
| TGbe (MAC) | 9/28 | Chung, Chulho | SAMSUNG |
| TGbe (MAC) | 9/28 | Coffey, John | Realtek Semiconductor Corp. |
| TGbe (MAC) | 9/28 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (MAC) | 9/28 | Erkucuk, Serhat | Ofinno |
| TGbe (MAC) | 9/28 | Fan, Shuang | ZTE Corporation |
| TGbe (MAC) | 9/28 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 9/28 | Fujimori, Yuki | Canon Research Centre France |
| TGbe (MAC) | 9/28 | Gu, Xiangxin | Unisoc |
| TGbe (MAC) | 9/28 | GUIGNARD, Romain | Canon Research Centre France |
| TGbe (MAC) | 9/28 | Haider, Muhammad Kumail | Facebook |
| TGbe (MAC) | 9/28 | Handte, Thomas | Sony Corporation |
| TGbe (MAC) | 9/28 | Hervieu, Lili | Cable Television Laboratories Inc. (CableLabs) |
| TGbe (MAC) | 9/28 | Hu, Chunyu | Facebook |
| TGbe (MAC) | 9/28 | Huang, Lei | Huawei International Pte Ltd |
| TGbe (MAC) | 9/28 | Huang, Po-Kai | Intel |
| TGbe (MAC) | 9/28 | Inohiza, Hirohiko | Canon |
| TGbe (MAC) | 9/28 | Kim, Sang Gook | LG ELECTRONICS |
| TGbe (MAC) | 9/28 | Kim, Sanghyun | WILUS Inc |
| TGbe (MAC) | 9/28 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/28 | Klein, Arik | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/28 | Ko, Geonjung | WILUS Inc. |
| TGbe (MAC) | 9/28 | Lalam, Massinissa | SAGEMCOM BROADBAND SAS |
| TGbe (MAC) | 9/28 | Liu, Der-Zheng | Realtek Semiconductor Corp. |
| TGbe (MAC) | 9/28 | Lorgeoux, Mikael | Canon Research Centre France |
| TGbe (MAC) | 9/28 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (MAC) | 9/28 | Lu, kaiying | MediaTek Inc. |
| TGbe (MAC) | 9/28 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (MAC) | 9/28 | Ma, Yunsi | HiSilicon (Shanghai) Technologies Co., LTD. |
| TGbe (MAC) | 9/28 | McCann, Stephen | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/28 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/28 | Nayak, Peshal | Samsung Research America |
| TGbe (MAC) | 9/28 | Ng, Boon Loong | Samsung Research America |
| TGbe (MAC) | 9/28 | Ouchi, Masatomo | Canon |
| TGbe (MAC) | 9/28 | Ozbakis, Basak | VESTEL |
| TGbe (MAC) | 9/28 | Palayur, Saju | Maxlinear Inc |
| TGbe (MAC) | 9/28 | Park, Sungjin | Senscomm |
| TGbe (MAC) | 9/28 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 9/28 | Qi, Yue | Samsung Research America |
| TGbe (MAC) | 9/28 | Quan, Yingqiao | Unisoc |
| TGbe (MAC) | 9/28 | Ratnam, Vishnu | Samsung Research America |
| TGbe (MAC) | 9/28 | Roy, Sayak | NXP Semiconductors |
| TGbe (MAC) | 9/28 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (MAC) | 9/28 | Sato, Takuhiro | SHARP CORPORATION |
| TGbe (MAC) | 9/28 | Sevin, Julien | Canon Research Centre France |
| TGbe (MAC) | 9/28 | Shafin, Rubayet | Samsung Research America |
| TGbe (MAC) | 9/28 | Sun, Bo | ZTE Corporation |
| TGbe (MAC) | 9/28 | Sun, Yanjun | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Taori, Rakesh | Infineon Technologies |
| TGbe (MAC) | 9/28 | Verma, Sindhu | Broadcom Corporation |
| TGbe (MAC) | 9/28 | VIGER, Pascal | Canon Research Centre France |
| TGbe (MAC) | 9/28 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 9/28 | Wei, Dong | NXP Semiconductors |
| TGbe (MAC) | 9/28 | Wullert, John | Peraton Labs |
| TGbe (MAC) | 9/28 | Yang, Jay | Nokia |
| TGbe (MAC) | 9/28 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 9/28 | Yee, James | MediaTek Inc. |
| TGbe (MAC) | 9/28 | Yi, Yongjiang | Spreadtrum Communication USA, Inc |
| TGbe (MAC) | 9/28 | Zhang, Jiayi | Ofinno |

**Submissions**

1. [1510r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1510-03-00be-tid-to-link-mapping-for-qos.docx) TID to Link Mapping for QoS Pooya Monajemi [1C-SP 10’]

Discussion:

SP: Do you support to accept the resolution in 11-22/1510r4 for the following CID?

11107

29Y, 34N, 23A

1. [1335r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1335-03-00be-cr-for-cids-related-to-group-addressed-frame-reception-in-emlsr-nstr.docx) CR for CIDs related to Group-addressed frame Reception in EMLSR/NSTR Vishnu Ratnam [13C-SP 10’]

Discussion:

C: from DS excludes broadcast management frames. It is not right.

A: will fix it.

C: when one AP of AP MLD is left, the discussion about transmitting broadcast frames after DTIM beacon and transmition delay are not needed.

C: similar comment as previous one.

C: dupliate rules(10039, 10434) of baseline. It is better to add a reference.

A: ok

C: 13587 is similar to unicast frame case.

A: the rules for 13587 don’t include initial control frame.

C: The real Beacon Tx time is not predictable. The ending time of yellow part in the figure of discussion part is difficult to predict.

C: concern about the delay gap before and after the beacon transmission. Receiving beacon on a link while receiving data on another for emlsr is not an impossibility. implementations can do it and those should not be penalized.

SP deferred

1. [1381r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1381-02-00be-lb266-cr-ml-traffic-indication-part1.docx) LB266 CR ML traffic indication part1 Minyoung Park [27C Ctd 20’]

Discussion:

C: the idscussion of 10028 doesn’t address the comment.

A: will defer 10028, 11642, 13071

C: no all management frame use MLO Link element, e.g. ML setup frame.

A: will defer 10877.

C: please defer 13377, 13794. When single link is left, the multi-link traffic indicaiton is not needed.

A: that part will be address later.

SP: Do you support to accept the resolution in 11-22/1381r3 for the following CIDs?

13855, 12050, 13377, 13794, 13378, 13795, 12640, 12641, 12642, 10246, 13376, 10027, 13619, 13992

No Onjection

1. [1453r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1453-00-00be-cr-for-nstrmobileap-apremoval.docx) cr-for-nstrMobileAP-apRemoval Morteza Mehrnoush [3C 10']

Discussion:

C: first note 14014, change ”doing the beaconing” to ”transmitting beacon”.

A: ok.

C: 14015. In first paragraph, adding a separate setence instead of except part.

C: 14015, the 3rd paragraph is changed.

SP: Do you support to accept the resolution in 11-22/1453r2 for the following CIDs?

14014, 14015, 13901

No Objection

There is no response to chair’s request for other business. The meeting is adjorned at 11:59am.

**Thursday 13 October 2022, 10:00am – 12:00pm ET (TGbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (Ofinno)

Secretary: Liwen Chu (NXP)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Jeongki, Ofinno) calls the meeting to order at 10:00am EDT. The Chair introduces himself and the Secretary, Liwen (NXP)
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
   1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
   * 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.
   * If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) and Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
5. The agenda 11-22/1657r5 is approved without change.

**Recorded attendance through Imat and e-mail:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 10/13 | Aboulmagd, Osama | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 10/13 | Adhikari, Shubhodeep | Broadcom Corporation |
| TGbe (MAC) | 10/13 | Ajami, Abdel Karim | Qualcomm Incorporated |
| TGbe (MAC) | 10/13 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 10/13 | Bahn, Christy | IEEE STAFF |
| TGbe (MAC) | 10/13 | baron, stephane | Canon Research Centre France |
| TGbe (MAC) | 10/13 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (MAC) | 10/13 | Carney, William | Sony Group Corporation |
| TGbe (MAC) | 10/13 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 10/13 | Derham, Thomas | Broadcom Corporation |
| TGbe (MAC) | 10/13 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (MAC) | 10/13 | Erkucuk, Serhat | Ofinno |
| TGbe (MAC) | 10/13 | Fan, Shuang | ZTE Corporation |
| TGbe (MAC) | 10/13 | Fang, Yonggang | Mediatek |
| TGbe (MAC) | 10/13 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 10/13 | Ghosh, Chittabrata | Meta Platforms; PWC, LLC |
| TGbe (MAC) | 10/13 | Gorthi, Hemamali | Infineon Technologies |
| TGbe (MAC) | 10/13 | Gu, Xiangxin | Unisoc |
| TGbe (MAC) | 10/13 | Guo, Yuchen | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 10/13 | Gupta, Binita | Meta Platforms, Inc. |
| TGbe (MAC) | 10/13 | Haider, Muhammad Kumail | Facebook |
| TGbe (MAC) | 10/13 | Handte, Thomas | Sony Corporation |
| TGbe (MAC) | 10/13 | Hervieu, Lili | Cable Television Laboratories Inc. (CableLabs) |
| TGbe (MAC) | 10/13 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (MAC) | 10/13 | Huang, Po-Kai | Intel |
| TGbe (MAC) | 10/13 | Inohiza, Hirohiko | Canon |
| TGbe (MAC) | 10/13 | Kain, Carl | USDoT; Noblis, Inc. |
| TGbe (MAC) | 10/13 | Kim, Sanghyun | WILUS Inc |
| TGbe (MAC) | 10/13 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 10/13 | Koundourakis, Michail | Samsung Cambridge Solution Centre |
| TGbe (MAC) | 10/13 | Lanante, Leonardo | Ofinno |
| TGbe (MAC) | 10/13 | Lorgeoux, Mikael | Canon Research Centre France |
| TGbe (MAC) | 10/13 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (MAC) | 10/13 | Lu, kaiying | MediaTek Inc. |
| TGbe (MAC) | 10/13 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (MAC) | 10/13 | Ma, Yunsi | HiSilicon (Shanghai) Technologies Co., LTD. |
| TGbe (MAC) | 10/13 | McCann, Stephen | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 10/13 | Naik, Gaurang | Qualcomm Incorporated |
| TGbe (MAC) | 10/13 | Nayak, Peshal | Samsung Research America |
| TGbe (MAC) | 10/13 | Nezou, Patrice | Canon Research Centre France |
| TGbe (MAC) | 10/13 | Palayur, Saju | Maxlinear Inc |
| TGbe (MAC) | 10/13 | Park, Minyoung | Intel |
| TGbe (MAC) | 10/13 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 10/13 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 10/13 | Petrick, Albert | InterDigital, Inc. |
| TGbe (MAC) | 10/13 | Pushkarna, Rajat | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 10/13 | Qi, Yue | Samsung Research America |
| TGbe (MAC) | 10/13 | Ratnam, Vishnu | Samsung Research America |
| TGbe (MAC) | 10/13 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGbe (MAC) | 10/13 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (MAC) | 10/13 | Shafin, Rubayet | Samsung Research America |
| TGbe (MAC) | 10/13 | Sun, Bo | ZTE Corporation |
| TGbe (MAC) | 10/13 | Taori, Rakesh | Infineon Technologies |
| TGbe (MAC) | 10/13 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 10/13 | Wullert, John | Peraton Labs |
| TGbe (MAC) | 10/13 | Yamada, Ryota | SHARP CORPORATION |
| TGbe (MAC) | 10/13 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 10/13 | Yee, James | MediaTek Inc. |
| TGbe (MAC) | 10/13 | Yi, Yongjiang | Spreadtrum Communication USA, Inc |
| TGbe (MAC) | 10/13 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

**Submissions**

1. [1487r7](https://mentor.ieee.org/802.11/dcn/22/11-22-1487-05-00be-lb266-cr-for-ml-reconfiguration-clause-35-3-6.docx) LB266 CR for ML Reconfig. Cl. 35.3.6 Binita Gupta [7C-SP 10’]

Discussion:

C: SME will not send frame.

A: the requirement of transmitting frame is from SME.

C: agree with previous comment. Change to ”....SME shall not invoke...”.

A: I can remove SME.

SP: Do you support to accept the resolution in 11-22/1487r7 for the following CIDs?

13278, 13279, 12996, 12081, 12082, 14017, 12080

No Objection

1. [1503r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1503-02-00be-d2-0-comment-resolution-subclause-35-3-18-part-1.docx) CR subclause 35.3.18 part 1 Liwen Chu [35C 40’]

Discussion:

SP: Do you support to accept the resolution in 11-22/1503r2 for the following CIDs?

10368, 10867, 11583, 11599, 11680, 13707, 14003, 12889, 12683, 10362,

12891, 13634, ~~10165, 10167, 12851, 10046, 10047, 12856, 12857, 12858,~~

~~12859, 10166~~, 11462, ~~11463, 11464~~, 12448, ~~12862, 10042, 12893, 13956,~~

~~11588, 11590, 12873, 11589~~, 13663.

27, 9, 27

1. [1646r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1646-00-00be-crs-for-11be-d2-0-clause-12-security-cids.docx) CRs for Clause 12 Security CIDs Rojan Chitrakar [17C 20’]

The chair asked to move to another topic per the agenda before finishing the presentaiton.

1. [1216r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1216-01-00be-lb266-cr-for-latency-report-element.docx) CR for Latency Report Element Frank Hsu [1C 10’]

Discussion:

C: statistic report is in the spec already.

A: they are different.

C: you can change the current related element instead of defining a new element.

C: this is good idea. How is this report delay measured?

A: we can add some measurement period.

C: how can this help the STA?

A: this is the general picture of the BSS latency performance.

C: we should report average measurement and persentile should be removed.

SP deferred

There is no response to chair’s request for other business. The meeting is adjorned at 11:59am.

**Monday 17 October 2022, 07:00pm – 09:00pm ET (TGbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (Ofinno)

Secretary: Liwen Chu (NXP)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Jeongki, Ofinno) calls the meeting to order at 07:00pm EDT. The Chair introduces himself and the Secretary, Liwen (NXP)
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
   1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
   * 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.
   * If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) and Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
5. The agenda 11-22/1657r8 is approved without change.

**Recorded attendance through Imat and e-mail:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 10/17 | Adachi, Tomoko | TOSHIBA Corporation |
| TGbe (MAC) | 10/17 | Ajami, Abdel Karim | Qualcomm Incorporated |
| TGbe (MAC) | 10/17 | Akhmetov, Dmitry | Intel |
| TGbe (MAC) | 10/17 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 10/17 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 10/17 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 10/17 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (MAC) | 10/17 | Fan, Shuang | ZTE Corporation |
| TGbe (MAC) | 10/17 | Fang, Yonggang | Mediatek |
| TGbe (MAC) | 10/17 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 10/17 | Gu, Xiangxin | Unisoc |
| TGbe (MAC) | 10/17 | Haider, Muhammad Kumail | Facebook |
| TGbe (MAC) | 10/17 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (MAC) | 10/17 | Ji, Chenhe | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 10/17 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 10/17 | Lu, kaiying | MediaTek Inc. |
| TGbe (MAC) | 10/17 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (MAC) | 10/17 | Ma, Yunsi | HiSilicon (Shanghai) Technologies Co., LTD. |
| TGbe (MAC) | 10/17 | Mehrnoush, Morteza | Facebook |
| TGbe (MAC) | 10/17 | Nayak, Peshal | Samsung Research America |
| TGbe (MAC) | 10/17 | Ng, Boon Loong | Samsung Research America |
| TGbe (MAC) | 10/17 | Ouchi, Masatomo | Canon |
| TGbe (MAC) | 10/17 | Park, Minyoung | Intel |
| TGbe (MAC) | 10/17 | Park, Sungjin | Senscomm |
| TGbe (MAC) | 10/17 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 10/17 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 10/17 | Petrick, Albert | InterDigital, Inc. |
| TGbe (MAC) | 10/17 | Qi, Yue | Samsung Research America |
| TGbe (MAC) | 10/17 | Quan, Yingqiao | Unisoc |
| TGbe (MAC) | 10/17 | Ratnam, Vishnu | Samsung Research America |
| TGbe (MAC) | 10/17 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (MAC) | 10/17 | Sato, Takuhiro | SHARP CORPORATION |
| TGbe (MAC) | 10/17 | Shafin, Rubayet | Samsung Research America |
| TGbe (MAC) | 10/17 | Sun, Bo | ZTE Corporation |
| TGbe (MAC) | 10/17 | Thompson, Tom | IEEE STAFF |
| TGbe (MAC) | 10/17 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 10/17 | Xia, Qing | Sony Corporation |
| TGbe (MAC) | 10/17 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 10/17 | Yee, James | MediaTek Inc. |

Review of Quarantine document part 1:

1. [1773r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1773-02-00be-11-22-xxxx-00-lb266-crs-for-cids-in-quarantine-part-1.docx) Alfred Asterjadhi [Many CIDs]

Discussion:

C: the first CID is related to another CID. Should I send you email about it? IS there a deadline.

A: yes, there is a deadline announced in last joint call. Will announce the deadline again. Please send me an email.

C: for the CIDs in the document, there will be one SP and reject them if fail?

A: if the discussion of a CID has acquired good progress, it can be separately SPed.

**Submissions**

1. [1646r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1646-00-00be-crs-for-11be-d2-0-clause-12-security-cids.docx) CRs for Clause 12 Security CIDs Rojan Chitrakar [17C 15’]

Discussion:

SP: Do you support to accept the resolution in 11-22/1646r2 for the following CIDs?

12094, 12095, 12096, 12980, 12981, 13174, 13175, 13176, 13177, 13178, 13180, 13181, 13203, 13498, 13499, 13500, 13501

No Objection

1. [1457r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1457-00-00be-cr-for-9-4-2-316-qos-charateristics-element-part-2.docx) CR 4 9.4.2.316 QoS charateristics IE P2 Duncan Ho [10C 10’]

Discussion:

C: confused by the LinkID. It is related to the associated AP MLF, right?

A: yes.

C: in baseline, P2P suppots one link only. I am not sure whether it support TDLS will support multiple links.

A: there are some discussions about it. In the near future, multi-link TDLS will be upported. Can defer the CID.

C: 3 bits are enough for BW field.

A: will consider it.

C: the transmitter may drop the packets based on the lifetime. The delivery ratio needs to consider such discarding, right?

A: can revise the text later.

C: currently we allow P2P can be outside the BSS with multiple links.

A: can do offline discussion.

SP: Do you support to accept the resolution in 11-22/1457r1 for the following CIDs?

10703, 13245, 13109, 13246, ~~10673, 12832, 13220, 13487, 13489,~~ 12973

No Objection

1. [1690r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1690-01-00be-cr-for-miscellaneous-cids.docx) CR for Miscellaneous CIDs Po-Kai Huang [18C 20’]

Discussion:

SP: Do you support to accept the resolution in 11-22/1690r1 for the following CIDs?

10987, 10606, 10308, 13151, 13150, 13139, 13140, 12376, 12234, 11946,

11865, 11736, ~~10627, 11179,~~ 11087, 11088, 13876, 12617, 11598

Unfinished document

1. [1366r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1366-00-00be-cr-for-miscellaneous-cids.docx) CR for Miscellaneous CIDs Guogang Huang [3C 10’]

Discussion:

C: change ”AP STA” to ”AP”.

A: ok.

C: can STA be AP?

A: yes.

C: my understanding is that AP contains STA.

A: can defer it.

SP: Do you support to accept the resolution in 11-22/1366r0 for the following CIDs?

11944, 11945, ~~12036~~

No Objection

1. [1501r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1501-00-00be-11be-d2-0-comment-resolution-35-4.docx) D2.0 comment resolution subclause 35.4 Liwen Chu [4C 10’]

Discussion:

C: change SID to CID and add editor instruction

A: ok.

C: please defer 10841

A: ok.

SP: Do you support to accept the resolution in 11-22/1501r1 for the following CIDs?

12885, 14005, ~~10841,~~ 13825

No Objection

1. [1460r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1460-00-00be-cr-for-beacon-protection.docx) CR for Beacon protection Po-Kai Huang [4C 10’]

Discussion:

C:

SP: Do you support to accept the resolution in 11-22/1460r3 for the following CIDs?

Unfinished document

There is no response to chair’s request for other business. The meeting is adjorned at 09:00pm.

**Wednesday 19 October 2022, 10:00am – 12:00pm ET (TGbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (Ofinno)

Secretary: Liwen Chu (NXP)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Jeongki, Ofinno) calls the meeting to order at 07:00pm EDT. The Chair introduces himself and the Secretary, Liwen (NXP)
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
   1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
   * 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.
   * If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) and Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
5. The updated agenda 11-22/1657r10 (1278 deferred) is approved.

**Recorded attendance through Imat and e-mail:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 10/19 | Ajami, Abdel Karim | Qualcomm Incorporated |
| TGbe (MAC) | 10/19 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 10/19 | Bahn, Christy | IEEE STAFF |
| TGbe (MAC) | 10/19 | baron, stephane | Canon Research Centre France |
| TGbe (MAC) | 10/19 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (MAC) | 10/19 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 10/19 | Dong, Xiandong | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 10/19 | Erkucuk, Serhat | Ofinno |
| TGbe (MAC) | 10/19 | Fan, Shuang | ZTE Corporation |
| TGbe (MAC) | 10/19 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 10/19 | Gu, Xiangxin | Unisoc |
| TGbe (MAC) | 10/19 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (MAC) | 10/19 | Huang, Po-Kai | Intel |
| TGbe (MAC) | 10/19 | Inohiza, Hirohiko | Canon |
| TGbe (MAC) | 10/19 | Kim, Sanghyun | WILUS Inc |
| TGbe (MAC) | 10/19 | Koundourakis, Michail | Samsung Cambridge Solution Centre |
| TGbe (MAC) | 10/19 | Lanante, Leonardo | Ofinno |
| TGbe (MAC) | 10/19 | Lim, Dong Guk | LG ELECTRONICS |
| TGbe (MAC) | 10/19 | Lorgeoux, Mikael | Canon Research Centre France |
| TGbe (MAC) | 10/19 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (MAC) | 10/19 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (MAC) | 10/19 | Nayak, Peshal | Samsung Research America |
| TGbe (MAC) | 10/19 | Ng, Boon Loong | Samsung Research America |
| TGbe (MAC) | 10/19 | Ouchi, Masatomo | Canon |
| TGbe (MAC) | 10/19 | Park, Sungjin | Senscomm |
| TGbe (MAC) | 10/19 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 10/19 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 10/19 | Petrick, Albert | InterDigital, Inc. |
| TGbe (MAC) | 10/19 | Qi, Yue | Samsung Research America |
| TGbe (MAC) | 10/19 | Quan, Yingqiao | Unisoc |
| TGbe (MAC) | 10/19 | Ratnam, Vishnu | Samsung Research America |
| TGbe (MAC) | 10/19 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (MAC) | 10/19 | Sato, Takuhiro | SHARP CORPORATION |
| TGbe (MAC) | 10/19 | Sevin, Julien | Canon Research Centre France |
| TGbe (MAC) | 10/19 | Shafin, Rubayet | Samsung Research America |
| TGbe (MAC) | 10/19 | Sun, Bo | ZTE Corporation |
| TGbe (MAC) | 10/19 | VIGER, Pascal | Canon Research Centre France |
| TGbe (MAC) | 10/19 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 10/19 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 10/19 | Yi, Yongjiang | Spreadtrum Communication USA, Inc |

**Submissions**

1. [1399r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1399-03-00be-lb266-cr-for-ml-ie-usage-for-ml-setup.docx) CR for ML IE Usage for ML Setup Insun Jang [17C-SP 10’]

Discussion:

No

SP: Do you support to accept the resolution in 11-22/1399r3 for the following CIDs?

10629, 10734, 10735, 11421, 11422, 11423, 11424, 11425, 11426, 11427, 11741, 13361, 13362, 13690, 13732, 13984, 13985

No Objection

1. [1213r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1213-02-00be-lb266-cr-on-measurement-report-for-low-latency-traffic.docx) cr-on-measurement-report-for-low-latency-traffic Guogang Huang[4C-SP 10’]

Discussion:

C: concern about SCSID. Increasing memory requirement. No traffic stream based measurement.

A: can defer this part.

C: in other contributions, TSF time is based on a specific link. This contribution should follow the same style.

A: we don’t need that style.

C: the MLD level report can be done through any link.

C: this should be defered since it was presented one month ago. You can update the document and run it later in this teleconference.

A: will delete SCSID part.

SP: Do you support to accept the resolution in 11-22/1213r3 for the following CIDs?

12334, 10906, 10908, 12290

21Y, 14N, 26A

1. [1225r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1225-01-00be-lb266-cr-on-cid-12318-ess-report-element.docx) cr-on-cid-12318-ess-report-element Guogang Huang [1C-SP 10’]

Discussion:

C: still don’t see the value of the added field.

A: For the AP MLD with multiple APs, the planed ESS shall be set to 1 for all APs.

C: currenty, multiple APs not affiliated with an AP MLD will be in one ESS. There is no difference for the multiple APs affiliated with an AP MLD.

SP: Do you support to accept the resolution in 11-22/1225r1 for the following CIDs?

12318

16Y, 22N, 21A

1. [1690r5](https://mentor.ieee.org/802.11/dcn/22/11-22-1690-01-00be-cr-for-miscellaneous-cids.docx) CR for Miscellaneous CIDs Po-Kai Huang [18C 10’]

Discussion:

C: added text for 13876 doesn’t carry any information.

A: prevent you from assigning.

C: this is different from the previuos sentence.

A: will transfer to Abhi.

SP: Do you support to accept the resolution in 11-22/1690r5 for the following CIDs?

10987, 10606, 10308, 13151, 13150, 13139, 13140, 12376, 12234, 11946,

11865, 11736, ~~10627, 11179~~, 11087, 11088, ~~13876, 12617, 11598~~,

No Objection

1. [1746r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1746-01-00be-lb266-cr-for-subclause-9.docx) CR for subclause 9 Ming Gan [14C 15’]

Discussion:

C: CID 13452, not sure why eMLSR is added.

A: 35.3.16.8 has the related text.

C: will go through 35.2.16.8.

C: definition of assisting AP in clause 3 is not needed. You can defined it at te beginning of the related subclause.

A: it will be used in multiple subclauses.

C: CID 13452, is it still optional?

A: Yes.

C: eMLSR will use medium sync delay + ED CCA. The rules in general subclause are not applied.

A: will defer the first two comments.

C: second sentence should be updated.

C: TWTOptionActivated (dynamic MIB variable) will cover R-TWT and change the related MIB variavle accordingly.

A: wll defer 10533

C: CID 11831 is generalized. The original text is applied to NSTR.

A: the relatd text doesn’t touch NSTR or not.

C: 13047, agree with the rejection, but the reasoning is not right.

A: will do offline discussion.

Non finished

1. [1460r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1460-00-00be-cr-for-beacon-protection.docx) CR for Beacon protection Po-Kai Huang [4C Q&A 10’]

Discussion:

C: OCV part needs to be updated to verify all setup links through one Action frame.

A: that can be addressed in other contribution.

C: new editorial style.

A: all the security related staff will be in same place.

SP: Do you support to accept the resolution in 11-22/1460r3 for the following CIDs?

11039, 13533, 11038, 11055

No Objection

1. [1496r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1496-02-00be-lb266-cr-for-clause-9-4-2-5-1.docx) CR-for-Clause-9.4.2.5.1 Arik Klein [3C 10’]

Discussion:

SP: Do you support to accept the resolution in 11-22/1496r2 for the following CIDs?

12600, 12601, 12602

No Objection

1. [1200r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1200-01-00be-lb266-cr-for-35-17-3-part-2.docx) CR-for-35-17-3 part 2 Yonggang Fang [1C 10’]

Discussion:

C: adding the note to include NSTR mobile AP MLD is not enough. The question we first answer is that whetehr we allow NSTR mobile AP MLD to announce EPCS.

A: can do offline discussion

There is no response to chair’s request for other business. The meeting is adjorned at 12:00pm.

**Thursday 27 October 2022, 10:00am – 12:00pm ET (TGbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (Ofinno)

Secretary: Liwen Chu (NXP)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Jeongki, Ofinno) calls the meeting to order at 07:00pm EDT. The Chair introduces himself and the Secretary, Liwen (NXP)
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
   1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
   * 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.
   * If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) and Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
5. The updated agenda 11-22/1657r13 (moving 1471 to the end of the queue, adding 1280r6 before 1463, moving 1051 to another meeting) is approved.

**Recorded attendance through Imat and e-mail:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 10/27 | Adhikari, Shubhodeep | Broadcom Corporation |
| TGbe (MAC) | 10/27 | Ajami, Abdel Karim | Qualcomm Incorporated |
| TGbe (MAC) | 10/27 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 10/27 | Bahn, Christy | IEEE STAFF |
| TGbe (MAC) | 10/27 | Baykas, Tuncer | Ofinno |
| TGbe (MAC) | 10/27 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (MAC) | 10/27 | Carney, William | Sony Group Corporation |
| TGbe (MAC) | 10/27 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 10/27 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 10/27 | Chng, Shi Baw | BAWMAN LLC |
| TGbe (MAC) | 10/27 | Dong, Xiandong | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 10/27 | Erkucuk, Serhat | Ofinno |
| TGbe (MAC) | 10/27 | Fan, Shuang | ZTE Corporation |
| TGbe (MAC) | 10/27 | Fang, Yonggang | Mediatek |
| TGbe (MAC) | 10/27 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 10/27 | Ghosh, Chittabrata | Meta Platforms; PWC, LLC |
| TGbe (MAC) | 10/27 | Gu, Xiangxin | Unisoc |
| TGbe (MAC) | 10/27 | GUIGNARD, Romain | Canon Research Centre France |
| TGbe (MAC) | 10/27 | Gupta, Binita | Meta Platforms, Inc. |
| TGbe (MAC) | 10/27 | Handte, Thomas | Sony Corporation |
| TGbe (MAC) | 10/27 | Huang, Po-Kai | Intel |
| TGbe (MAC) | 10/27 | Huq, Kazi Mohammed Saidul | Ofinno |
| TGbe (MAC) | 10/27 | Inohiza, Hirohiko | Canon |
| TGbe (MAC) | 10/27 | Jang, Insun | LG ELECTRONICS |
| TGbe (MAC) | 10/27 | Kasher, Assaf | Qualcomm Incorporated |
| TGbe (MAC) | 10/27 | Kim, Sang Gook | LG ELECTRONICS |
| TGbe (MAC) | 10/27 | Kim, Sanghyun | WILUS Inc |
| TGbe (MAC) | 10/27 | Kim, Youhan | Qualcomm Incorporated |
| TGbe (MAC) | 10/27 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 10/27 | Klein, Arik | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 10/27 | Ko, Geonjung | WILUS Inc. |
| TGbe (MAC) | 10/27 | Koundourakis, Michail | Samsung Cambridge Solution Centre |
| TGbe (MAC) | 10/27 | Lalam, Massinissa | SAGEMCOM BROADBAND SAS |
| TGbe (MAC) | 10/27 | Lanante, Leonardo | Ofinno |
| TGbe (MAC) | 10/27 | Levy, Joseph | InterDigital, Inc. |
| TGbe (MAC) | 10/27 | Lorgeoux, Mikael | Canon Research Centre France |
| TGbe (MAC) | 10/27 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (MAC) | 10/27 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (MAC) | 10/27 | Ma, Yunsi | HiSilicon (Shanghai) Technologies Co., LTD. |
| TGbe (MAC) | 10/27 | Malinen, Jouni | Qualcomm Incorporated |
| TGbe (MAC) | 10/27 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 10/27 | NANDAGOPALAN, SAI SHANKAR | Synaptics |
| TGbe (MAC) | 10/27 | Nezou, Patrice | Canon Research Centre France |
| TGbe (MAC) | 10/27 | Ng, Boon Loong | Samsung Research America |
| TGbe (MAC) | 10/27 | Ouchi, Masatomo | Canon |
| TGbe (MAC) | 10/27 | Palayur, Saju | Maxlinear Inc |
| TGbe (MAC) | 10/27 | Pare, Thomas | MediaTek Inc. |
| TGbe (MAC) | 10/27 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 10/27 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 10/27 | Petrick, Albert | InterDigital, Inc. |
| TGbe (MAC) | 10/27 | Qi, Yue | Samsung Research America |
| TGbe (MAC) | 10/27 | Quan, Yingqiao | Unisoc |
| TGbe (MAC) | 10/27 | Ratnam, Vishnu | Samsung Research America |
| TGbe (MAC) | 10/27 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (MAC) | 10/27 | Sato, Takuhiro | SHARP CORPORATION |
| TGbe (MAC) | 10/27 | Sevin, Julien | Canon Research Centre France |
| TGbe (MAC) | 10/27 | Strauch, Paul | Qualcomm Incorporated |
| TGbe (MAC) | 10/27 | Sun, Bo | ZTE Corporation |
| TGbe (MAC) | 10/27 | Sun, Yanjun | Qualcomm Incorporated |
| TGbe (MAC) | 10/27 | Taori, Rakesh | Infineon Technologies |
| TGbe (MAC) | 10/27 | Tsujimaru, Yuki | Canon Inc. |
| TGbe (MAC) | 10/27 | Verma, Sindhu | Broadcom Corporation |
| TGbe (MAC) | 10/27 | Wang, Chao Chun | MediaTek Inc. |
| TGbe (MAC) | 10/27 | Wu, Kanke | Qualcomm Incorporated |
| TGbe (MAC) | 10/27 | Wullert, John | Peraton Labs |
| TGbe (MAC) | 10/27 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 10/27 | Yi, Yongjiang | Spreadtrum Communication USA, Inc |
| TGbe (MAC) | 10/27 | Yong, Su Khiong | Apple, Inc. |
| TGbe (MAC) | 10/27 | Yoon, Yelin | LG ELECTRONICS |
| TGbe (MAC) | 10/27 | Zhou, Lei | H3C Technologies Co., Limited |

**Submissions**

1. [1228r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1228-02-00be-lb266-cr-for-9-1-13-9-and-9-6-13-10.docx) CR for 9.1.13.9 and 9.6.13,10 Guogang Huang 4C

Discussion:

SP: Do you support to accept the resolution in 11-22/1228r4 for the following CIDs?

13490, 12606, 12607, 12609

No Objection

1. [1426r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1426-01-00be-lb266-cr-for-cid-13840.docx) LB266 CR for CID 13840 Sanghyun Kim 1C

Discussion:

C: this feature is applied to radio measurement capable MLD, not all MLDs.

A: yes.

C: A STA mens any STA.

A: will add a note

C: the 11ax device can’t do the measurement too because of coexistance. Do we need to define this in spec or just leave it to the implementation?

A: I think we should define the procedure.

C: AP MLD knows the interference among STAs of non-AP MLD, and can decide when to start such measurement procedure.

C: the change that is same as the baeline is not required.

SP: Do you support to accept the resolution in 11-22/1246r1 for the following CIDs?

13840

6Y, 29N, 29A

1. [1178r6](https://mentor.ieee.org/802.11/dcn/22/11-22-1178-05-00be-tgbe-lb266-security-comment-resolutions.docx) Security comment resolutions Mike Montemurro 3C

Discussion:

C: why is MMPDU is not applied to the change?

A: We may handle it in next round comment resolution.

C: do you run this contribution today?

A: 12322 will be deferred.

C: how about group-addressed frame?

A: group-addressed key is per link key.

SP: Do you support to accept the resolution in 11-22/1178r6 for the following CIDs?

13162, 13599

No Objection

1. [1400r6](https://mentor.ieee.org/802.11/dcn/22/11-22-1400-03-00be-lb266-cr-for-str-operation.docx) CR for STR Operation Insun Jang 2C

Discussion:

C: the detail is described in other subclauses.

C: the STR AP MLD has STR link pair. If the peer device is EMLSR non-AP MLD, there are some restrictions.

C: the eMLSR can be STR link pair. During association, an non-AP MLD will announce its link pair to be EMLSR.

C: the reason to update the draft should be generalized.

A: ok.

SP: Do you support to accept the resolution in 11-22/1400r6 for the following CIDs?

12359, 13395

No Objection

1. [1470r7](https://mentor.ieee.org/802.11/dcn/22/11-22-1470-07-00be-lb266-cr-for-some-cids-in-35-9-35-9-1-35-9-2-35-9-4-and-35-9-4-1.docx) CR for some CIDs in 35.9,35.9.1,35.9.2,35.9.4 and 35.9.4.1 Chunyu Hu 7C

Discussion:

SP: Do you support to accept the resolution in 11-22/1470r7 for the following CIDs?

13466

No Objection

1. 1280r6

Discussion:

C: the resolution should be changed to that 13241 is same as 10429.

SP: Do you support to accept the resolution in 11-22/1280r6 for the following CIDs?

13241

No Objection

1. [1463r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1463-02-00be-lb266-cr-for-p2p-support-in-r-twt.docx) CR for P2P Support in R-TWT Kumail Haider 11C

Discussion:

C: note means P2P only will use TID bitmap equal to 0. The TID information is missing.

A: the note is a special case

SP: Do you support to accept the resolution in 11-22/1463r3 for the following CIDs?

13013, 11706, 12837, 12834, 13226, 13306, 13641, 12777, 12787, 12720, 10063, 13086

37Y, 19N, 20A

1. [1746r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1746-03-00be-lb266-cr-for-subclause-9.docx) CR for subclause 9 Ming Gan [14C 15’]

Discussion:

C: please defer 11683

A: ok.

C: 10533 is not in CID list.

A: will add it

C: don’t understand why EMLSR is removed from AAR assistance.

A: agree. But some people don’t like it.

C: please defer this CID (13452).

C: concern about the definition of the name that is not widely used.

SP: Do you support to accept the resolution in 11-22/1746r4 for the following CIDs?

~~13452 12245~~ 10531 13723 11830 11831 11488 13047 11832 12159 ~~12591~~ 12232 ~~11863~~ 11118 10533

No Objection

There is no response to chair’s request for other business. The meeting is adjorned at 11:58am.

**Monday 31 October 2022, 10:00am – 12:00pm ET (TGbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (Ofinno)

Secretary: Liwen Chu (NXP)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Jeongki, Ofinno) calls the meeting to order at 07:00pm EDT. The Chair introduces himself and the Secretary, Liwen (NXP)
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
   1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
   * 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.
   * If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) and Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
5. The updated agenda in 11-22/1657r14 (removing 1399r4, revision changes) is approved.

**Recorded attendance through Imat and e-mail:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 10/31 | Adhikari, Shubhodeep | Broadcom Corporation |
| TGbe (MAC) | 10/31 | Ajami, Abdel Karim | Qualcomm Incorporated |
| TGbe (MAC) | 10/31 | Awater, Geert | Qualcomm Incorporated |
| TGbe (MAC) | 10/31 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 10/31 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (MAC) | 10/31 | Carney, William | Sony Group Corporation |
| TGbe (MAC) | 10/31 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 10/31 | Chng, Shi Baw | BAWMAN LLC |
| TGbe (MAC) | 10/31 | Coffey, John | Realtek Semiconductor Corp. |
| TGbe (MAC) | 10/31 | Dong, Xiandong | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 10/31 | Erkucuk, Serhat | Ofinno |
| TGbe (MAC) | 10/31 | Fan, Shuang | ZTE Corporation |
| TGbe (MAC) | 10/31 | Fang, Yonggang | Mediatek |
| TGbe (MAC) | 10/31 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 10/31 | Fujimori, Yuki | Canon Research Centre France |
| TGbe (MAC) | 10/31 | Gu, Xiangxin | Unisoc |
| TGbe (MAC) | 10/31 | Haider, Muhammad Kumail | Facebook |
| TGbe (MAC) | 10/31 | Handte, Thomas | Sony Corporation |
| TGbe (MAC) | 10/31 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (MAC) | 10/31 | Huang, Po-Kai | Intel |
| TGbe (MAC) | 10/31 | Jang, Insun | LG ELECTRONICS |
| TGbe (MAC) | 10/31 | Kakani, Naveen | Qualcomm Incorporated |
| TGbe (MAC) | 10/31 | kamath, Manoj | Broadcom Corporation |
| TGbe (MAC) | 10/31 | Klein, Arik | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 10/31 | Li, Yunbo | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 10/31 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (MAC) | 10/31 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (MAC) | 10/31 | Ma, Yunsi | HiSilicon (Shanghai) Technologies Co., LTD. |
| TGbe (MAC) | 10/31 | Malinen, Jouni | Qualcomm Incorporated |
| TGbe (MAC) | 10/31 | Naik, Gaurang | Qualcomm Incorporated |
| TGbe (MAC) | 10/31 | Ng, Boon Loong | Samsung Research America |
| TGbe (MAC) | 10/31 | Park, Minyoung | Intel |
| TGbe (MAC) | 10/31 | Park, Sungjin | Senscomm |
| TGbe (MAC) | 10/31 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 10/31 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 10/31 | Qi, Yue | Samsung Research America |
| TGbe (MAC) | 10/31 | Quan, Yingqiao | Unisoc |
| TGbe (MAC) | 10/31 | Ratnam, Vishnu | Samsung Research America |
| TGbe (MAC) | 10/31 | Roder, Patricia | IEEE STAFF |
| TGbe (MAC) | 10/31 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGbe (MAC) | 10/31 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (MAC) | 10/31 | Strauch, Paul | Qualcomm Incorporated |
| TGbe (MAC) | 10/31 | Verma, Sindhu | Broadcom Corporation |
| TGbe (MAC) | 10/31 | Wang, Chao Chun | MediaTek Inc. |
| TGbe (MAC) | 10/31 | Wentink, Menzo | Qualcomm Incorporated |
| TGbe (MAC) | 10/31 | Wullert, John | Peraton Labs |
| TGbe (MAC) | 10/31 | Yamada, Ryota | SHARP CORPORATION |
| TGbe (MAC) | 10/31 | Yang, Jay | Nokia |
| TGbe (MAC) | 10/31 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 10/31 | Yee, James | MediaTek Inc. |
| TGbe (MAC) | 10/31 | Yi, Yongjiang | Spreadtrum Communication USA, Inc |
| TGbe (MAC) | 10/31 | Yoon, Yelin | LG ELECTRONICS |

**Submissions**

1. [1434r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1434-03-00be-lb266-cr-cl35-emlsr-part3.docx) CR CL35 EMLSR part3 Minyoung Park 8C

Discussion:

C: The non-AP MLD has scanning radio which should be considered. We need to make sure the spec allows this kind of implementation.

A: After scanning radio is introduced in spec, we can discuss the adding of the related rules.

C: EMLSR mode and mode without EMLSR mode can announce the different capabilities.

A: this is not the case.

C: It is possible a STR MLD can become EMLSR for power save. I think the previous comment can happen.

C: the previous comment means the new functionality. We can address it based on a new contribution.

C: has some concern about the change of 12814. Dont’agree with the need of it.

C: EMLSR has a single radio. The change of 13591 is not required.

A: can commenter do the reply.

C: I don’t think the previous comment is correct.

SP: Do you support to accept the resolution in 11-22/1434r3 for the following CIDs?

13593, 10869, 11459

20Y, 30N, 15A

SP: Do you support to accept the resolution in 11-22/1434r3 for the following CID?

12814

12Y, 37N, 16A

SP: Do you support to accept the resolution in 11-22/1434r3 for the following CID?

13591

16Y, 28N, 18A

1. [1250r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1250-01-00be-lb266-cr-for-ml-sm-power-save-mode.docx) CR for ML SM Power Save Mode Jason Yuchen Guo 1C

Discussion:

C: what is the relationship between this mode and legacy dynamic SM power save.

A: they are independent. The legacy one should be disabled.

C: one primary link should be enabled to simplify the implementation.

A: agree with you.

C: make similar comment last time. There are other power save methods that are better.

The author asks to clarify the questions and run it next session. Some mentioned that the clarificaiton can’t address their concern.

SP: Do you support to accept the resolution in 11-22/1250r1 for the following CIDs?

SP Deferred

1. [1205r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1205-04-00be-indicating-to-operate-in-eml-mode-via-ps-poll-or-qos-null.docx) Indicating-to-operate-in-EML-mode-via-PS-Poll-or-QoS-Null Xiangxin Gu 1C

Discussion:

C: What is proposed in the document is already supported by EMLSR.

A: They are different.

C: cross-link power management is not just related to EMLSR.

A: My contribution can be used for other case.

C: this should be addressed in broader way.

SP: Do you support to accept the resolution in 11-22/1205r4 for the following CID?

10125

16Y, 31N, 16A

1. [1422r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1422-02-00be-lb266-resolution-for-comments-related-to-various-aspects-of-mlo.docx) Resolution for comments related to various aspects of MLO Abhishek Patil 4C

Discussion:

C: ”must” is not allowed in note.

A: will remove ”must” and add ”reassigns”.

C: the last sentense in the note makes the implementaiton complicate. Please remove it.

A: want to hear the other opinions.

C: Don’t think the rules of link allocation are inlcuded in the spec.

A: there are some rules in the spec.

C: agree with the note. Change the last sentense to ”assign the lowest value.”

C: this is an implementation issue. The note is not needed.

C: 12370, your change is based on the text being added by you in 11me. That part may introduce more comments in 11me.

A: the off channel usage is in the spec for a long time.

C: don’t agree with you.

C: your proposal is not related to 11be.

A: two comments are raised in 11be.

C: you can reject them and ask the commenters to raise comments in 11me.

SP: Do you support to accept the resolution in 11-22/1422r4 for the following CID?

10597

26Y, 29N, 12A

SP: Do you support to accept the resolution in 11-22/1422r4 for the following CID?

13765

No Objection

SP: Do you support to accept the resolution in 11-22/1422r4 for the following CID?

12370 11917

Deferred

1. [1717r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1717-00-00be-lb266-cr-for-subclause-11.docx) CR for subclause 11 Ming Gan [14C 15’]

Discussion:

C: 13471, this means EHT STA can’t do TIM broadcast. Please defer this CID.

A: Ok.

C: 10586, the critical update should include TPE.

A: can defer it.

C: 13148, the reference of Quiet element is not needed.

A: ok

C: no change is in 35.3.4.6.

A: will deete it.

SP: Do you support to accept the resolution in 11-22/1717r1 for the following CIDs?

~~13471 13131~~ 13946 ~~10586~~ 13148 10588 13153 11919 10591 11920 10592 13971 12978 13155

No Objection

1. [1705r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1705-00-00be-lb266-cr-for-miscellaneous-cids.docx) CR for Miscellaneous CIDs Ming Gan [12C 15’]

Discussion:

C: 13368, don’t understand why BPCC is not mandatory for single link non-AP MLD.

C: the single-link non-AP MLD anyway needs to decode hte Beacon in the link. BPCC is used when a non-AP MLD monitors a single link and the critical update in another link happens.

A: can defer it.

C: 11599, please defer it.

A: ok.

Unfished document

There is no response to chair’s request for other business. The meeting is adjorned at 12:00pm.

**Wednesday 02 November 2022, 10:00am – 12:00pm ET (TGbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (Ofinno)

Secretary: Liwen Chu (NXP)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Jeongki, Ofinno) calls the meeting to order at 07:00pm EDT. The Chair introduces himself and the Secretary, Liwen (NXP)
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
   1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
   * 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.
   * If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com)) and Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
5. The agenda in 11-22/1657r15 is approved.

**Recorded attendance through Imat and e-mail:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 11/2 | Adhikari, Shubhodeep | Broadcom Corporation |
| TGbe (MAC) | 11/2 | Ajami, Abdel Karim | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Awater, Geert | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 11/2 | Baykas, Tuncer | Ofinno |
| TGbe (MAC) | 11/2 | Carney, William | Sony Group Corporation |
| TGbe (MAC) | 11/2 | Chen, You-Wei | MediaTek Inc. |
| TGbe (MAC) | 11/2 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 11/2 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 11/2 | Dong, Xiandong | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 11/2 | Erkucuk, Serhat | Ofinno |
| TGbe (MAC) | 11/2 | Fan, Shuang | ZTE Corporation |
| TGbe (MAC) | 11/2 | Fang, Yonggang | Mediatek |
| TGbe (MAC) | 11/2 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 11/2 | Fujimori, Yuki | Canon Research Centre France |
| TGbe (MAC) | 11/2 | Gu, Xiangxin | Unisoc |
| TGbe (MAC) | 11/2 | Gupta, Binita | Meta Platforms, Inc. |
| TGbe (MAC) | 11/2 | Haider, Muhammad Kumail | Facebook |
| TGbe (MAC) | 11/2 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Hsu, Ostrovsky | Xiaomi Communications Co., Ltd. |
| TGbe (MAC) | 11/2 | Hu, Chunyu | Facebook |
| TGbe (MAC) | 11/2 | Huang, Po-Kai | Intel |
| TGbe (MAC) | 11/2 | Huq, Kazi Mohammed Saidul | Ofinno |
| TGbe (MAC) | 11/2 | Inohiza, Hirohiko | Canon |
| TGbe (MAC) | 11/2 | Jang, Insun | LG ELECTRONICS |
| TGbe (MAC) | 11/2 | Kakani, Naveen | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | kamath, Manoj | Broadcom Corporation |
| TGbe (MAC) | 11/2 | Kasher, Assaf | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Kim, Sang Gook | LG ELECTRONICS |
| TGbe (MAC) | 11/2 | Kim, Youhan | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 11/2 | Lanante, Leonardo | Ofinno |
| TGbe (MAC) | 11/2 | Levy, Joseph | InterDigital, Inc. |
| TGbe (MAC) | 11/2 | Li, Yunbo | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 11/2 | Lorgeoux, Mikael | Canon Research Centre France |
| TGbe (MAC) | 11/2 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (MAC) | 11/2 | Ma, Li | MediaTek Inc. |
| TGbe (MAC) | 11/2 | Ma, Yunsi | HiSilicon (Shanghai) Technologies Co., LTD. |
| TGbe (MAC) | 11/2 | MAO, ZHI | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 11/2 | McCann, Stephen | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 11/2 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 11/2 | Naik, Gaurang | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Nezou, Patrice | Canon Research Centre France |
| TGbe (MAC) | 11/2 | Ng, Boon Loong | Samsung Research America |
| TGbe (MAC) | 11/2 | Ouchi, Masatomo | Canon |
| TGbe (MAC) | 11/2 | Park, Sungjin | Senscomm |
| TGbe (MAC) | 11/2 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 11/2 | Qi, Yue | Samsung Research America |
| TGbe (MAC) | 11/2 | Quan, Yingqiao | Unisoc |
| TGbe (MAC) | 11/2 | Ratnam, Vishnu | Samsung Research America |
| TGbe (MAC) | 11/2 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGbe (MAC) | 11/2 | Ryu, Kiseon | NXP Semiconductors |
| TGbe (MAC) | 11/2 | Sato, Takuhiro | SHARP CORPORATION |
| TGbe (MAC) | 11/2 | Sevin, Julien | Canon Research Centre France |
| TGbe (MAC) | 11/2 | Shafin, Rubayet | Samsung Research America |
| TGbe (MAC) | 11/2 | Sun, Bo | ZTE Corporation |
| TGbe (MAC) | 11/2 | Sun, Yanjun | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Tsujimaru, Yuki | Canon Inc. |
| TGbe (MAC) | 11/2 | Van Zelst, Allert | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Verma, Sindhu | Broadcom Corporation |
| TGbe (MAC) | 11/2 | Vermani, Sameer | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Wang, Chao Chun | MediaTek Inc. |
| TGbe (MAC) | 11/2 | Wang, Hao | Tencent |
| TGbe (MAC) | 11/2 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 11/2 | Wentink, Menzo | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Wu, Kanke | Qualcomm Incorporated |
| TGbe (MAC) | 11/2 | Wullert, John | Peraton Labs |
| TGbe (MAC) | 11/2 | Yanamandra, Subrahmanyam | Broadcom Corporation |
| TGbe (MAC) | 11/2 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 11/2 | Yee, James | MediaTek Inc. |
| TGbe (MAC) | 11/2 | Yi, Yongjiang | Spreadtrum Communication USA, Inc |
| TGbe (MAC) | 11/2 | Yoon, Yelin | LG ELECTRONICS |
| TGbe (MAC) | 11/2 | Zaman, Malia | IEEE Standards Association (IEEE-SA) |
| TGbe (MAC) | 11/2 | Zhang, Jiayi | Ofinno |
| TGbe (MAC) | 11/2 | Zhou, Lei | H3C Technologies Co., Limited |
| TGbe (MAC) | 11/2 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

**Submissions**

1. [1250r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1250-01-00be-lb266-cr-for-ml-sm-power-save-mode.docx) CR for ML SM Power Save Mode Jason Y Guo 1C SP only

Discussion:

C: the simulation result doesn’t cover the problem of previous comment. Multiple contenders should be considered.

A: agree that the simulation doesn’t cover all the cases.

SP: Do you support to accept the resolution in 11-22/1250r4 for the following CID?

13793

28Y, 31N, 26A

1. [1336r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1336-03-00be-lb266-resolution-for-comments-related-to-mlo-ba-operation.docx) Resolution for comments related to MLO BA operation Abhishek Patil 11C

Discussion:

C: prefer to disable dynamic fragmentation. Your resolution allows it.

A: no. When a TID is mapped to single link, dynamic fragmentation will be allowed. In this case, there is no difference from 11ax case.

C: 11075, the normarive text only includes partial scoreboard context in per link can’t sync with other link. The method is one of many possible solution. I prefer your privious version.

SP1: Do you support to accept the resolution in 11-22/1336r4 for the following CIDs?

11074 11075 10345 10357 13741 13908

26Y, 20N, 32A

SP2: Do you support to accept the resolution in 11-22/1336r4 for the following CIDs?

10387 10640 11079 13602 11867

22Y, 25N, 31A

1. [1554r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1554-00-00be-lb266-cr-on-cid-10014.docx) CR on CID 10014 Guogang Huang 1C

Discussion:

C: the comment mentions that the issue is not related to NSTR mobile AP MLD. The changes related to NSTR mobile AP MLD should be removed.

A: the proposed solution needs the change of mobile AP MLD.

C: Type equal to 1 is already used in baseline.

SP: Do you support to accept the resolution in 11-22/1554r0 for the following CID?

10044

20Y, 29N, 27A

1. [1471r5](https://mentor.ieee.org/802.11/dcn/22/11-22-1471-02-00be-lb266-cr-for-35-9-4-2.docx) CR for 35.9.4.2 Chunyu Hu 6C

Discussion:

C: in Sept ad hoc meeting, the group preferred option 3. The changed text 10914 seems ok. But the STAs with dot11RestrictedTWTOptionImplemented set to true are not defined. The original text covers both cases (support and doesn’t support).

A: doesn’t hear other opinion. Will run option 3.

SP1: which option do you prefer for the CIDs 10732, 10859, 10934?

Option 2

Option 3

Others

Abstain

35, 17, 4, 25

SP2: Do you support to accept the resolution in 11-22/1471r5 with option 2 for the following CIDs?

10732, 10859, 10934; 12404, 12520, 10914

27Y, 22N, 23A

1. [1043r6](https://mentor.ieee.org/802.11/dcn/22/11-22-1043-05-00be-lb266-cr-on-more-data-ack.docx) CR on More Data Ack Guogang Huang 2C

Discussion:

C: this kind of idea was propsoed in the past. We have other methods, e.g BSR, to address the issue. We can address such kind of issue later.

A: BSR has its own issue.

SP: Do you support to accept the resolution in 11-22/1043r6 for the following CID?

12317

25 Y,35N, 17A

1. [1292r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1292-02-00be-lb266-cr-for-cid-10861.docx) CR for CID 10861 Yousi Lin 1C

Discussion:

C: the proposal is similar to EMLSR.

A: don’t think so. EMLSR is for single radio non-AP MLD. The proposal is for NSTR link pair, and no link switch is needed.

C: AP MLD will control the end time. It is simple operaiton.

A: us level allignment could be an issue.

SP: Do you support to accept the resolution in 11-22/1292r3 for the following CID?

10861

20Y, 29N, 30A

1. [1705r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1705-00-00be-lb266-cr-for-miscellaneous-cids.docx) CR for Miscellaneous CIDs Ming Gan [12C-Ctd. 10’]

Discussion:

C: The single link MLD is still a MLD. Your change should not be limited to single link MLD. The changed text contradicts with 4.3.16A.

C: for the single-link non-AP MLD, the BPCC is not needed since the non-AP MLD will decode the Beacon anyway.

A: will defer it.

SP: Do you support to accept the resolution in 11-22/1705r2 for the following CIDs?

~~13368~~ 13916 11743 13370 13369 10737 11559 10117 10121 12228 12591 14049

1. [1756r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1756-01-00be-lb266-cr-cl35-emlsr-part4.docx) EMLSR part4 Minyoung Park [25C 30’]

Discussion:

C: 12839, how an EMLSR MLD can work as mobile AP MLD.

A: will defer it.

Unfinished contribution

There is no response to chair’s request for other business. The meeting is adjorned at 12:00pm.