IEEE P802.11  
Wireless LANs

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| Minutes for TGbe MAC Ad-Hoc Teleconference in August to Sept. 2023 | | | | |
| Date: 2023-08-24 | | | | |
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| Liwen Chu | NXP |  |  |  |
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Abstract

This document contains the minutes for the TGbe MAC ad hoc teleconferences in August to September 2023.

Revisions:

* Rev0: Added the minutes from the MAC ad hoc teleconference held on August 24.
* Rev1: Editorial changes
* Rev2: Added the minutes from the MAC ad hoc teleconference held on August 28.
* Rev3: Added the minutes from the MAC ad hoc teleconference held on August 30.

### August 24, 2023 (10:00 – 12:00 ET) (TGbe MAC ad hoc)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 10:00 ET. The Chair introduces himself and the Secretary. The chair announced the Alfred will be chair in 1 hour.
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) 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))

|  |  |
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| Name | Affiliation |
| Ajami, Abdel Karim | Qualcomm Technologies, Inc |
| Asterjadhi, Alfred | Qualcomm Incorporated |
| Au, Kwok Shum | Huawei Technologies Co., Ltd |
| Cha, Dongju | LG ELECTRONICS |
| Choi, Jinsoo | LG ELECTRONICS |
| CHUN, JINYOUNG | LG ELECTRONICS |
| Cui, Yaoshen | TP-Link Corporation Limited |
| Dong, Xiandong | Xiaomi Communications Co., Ltd. |
| Erkucuk, Serhat | Ofinno |
| Fang, Yonggang | Mediatek |
| Fischer, Matthew | Broadcom Corporation |
| Gu, Xiangxin | Spreadtrum Communications (Shanghai) Co., Ltd. |
| Gupta, Binita | Meta Platforms, Inc. |
| Haider, Muhammad Kumail | Meta Platforms Inc. |
| Ho, Duncan | Qualcomm Incorporated |
| Hu, Chunyu | Spreadtrum Communications USA |
| huang, kaikai | Nokia |
| Kakani, Naveen | Qualcomm Incorporated |
| Kim, Geon Hwan | LG ELECTRONICS |
| Kim, Jeongki | Ofinno |
| Kim, Sanghyun | WILUS Inc |
| Lalitte, Vanessa | IEEE SA |
| Levy, Joseph | InterDigital, Inc. |
| Li, Weiyi | Spreadtrum Communication USA, Inc |
| Lim, Dong Guk | LG ELECTRONICS |
| Lou, Hanqing | InterDigital, Inc. |
| Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| McCann, Stephen | Huawei Technologies Co., Ltd |
| Nezou, Patrice | Canon Research Centre France |
| Patil, Abhishek | Qualcomm Incorporated |
| Patwardhan, Gaurav | Hewlett Packard Enterprise |
| Quan, Yingqiao | Spreadtrum |
| Ryu, Kiseon | NXP Semiconductors |
| Wang, Qi | Apple, Inc. |
| Wullert, John | Peraton Labs |
| Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| Yi, Yongjiang | Spreadtrum Communication USA, Inc |
| Yoon, Yelin | LG ELECTRONICS |
| Zhao, Yue | Huawei Technologies Co., Ltd |

1. The Chair asked whether there is comment about agenda in 11-23/1388r2. The agenda was approved.

**Submissions**

1. [1381r1](https://mentor.ieee.org/802.11/dcn/23/11-23-1381-00-00be-cr-for-35-3-2-and-35-3-5.docx) CR for 35.3.2 and 35.3.5 Po-Kai Huang [21C]

C: 1381, 1382, 1384 are using an incorrect template.

C: Can we use the same expression as the association such as the frame shall be transmitted by the AP MLD through the affliated AP..? In that case, we don’t need to mention the link

A: This is the request frame.

C: association is in the same AP once the authentication is the same AP? You said any AP..

C: What if the link is removed?

A: I already mentioned.

C: What’s the AP behavior? AP need to store this information? You did not say any for AP?

A: This is for client side.

C: The requirement for the same link, the shall text might not be complete.

19057 is deferred.

C: Which case we should ML Setup or which case we should ML association?

A: I’m fine with removing the related change.

C: Why using that for the restrictive? Can you explain?

A: If the text is restrictive then use ”that” otherwise, use ” which”. That’s IEEE guideline.

C: Can you add the page number and line number in the reason?

A: Ok. I’ll do that.

C: Why does not the requested link exsit? In note 5.

A: When the request is sent, if there is not the requested link, the link can not be responded.

SP: Do you support to accept the resolution in 11-23/1381r2 for the following CIDs?

19237, 19757, 19758, 19056, 19077, 19243, 19244, 19245,19246, 19247, 19925, 19926, 19927, 20003, 19497,19498

No objection

The Alfred became the chair.

1. [1382r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1382-00-00be-cr-for-13.docx) CR for 13 Po-Kai Huang [14C]

C: why do we have ”target’ in ”target FTR”?

A: there is current FTR and target FTR. FTR is FT responder (not target).

C: Page 10, you can separate the texts corresponding to the paragraph.

C: what about moving ”in the Reassociation Response frame” after Basic ML element. What’s the response at the end of the text?

A: Ok, it’s the reassociation response frame.

Po-kai will upload the updated r3 using the IEEE 802.11 templete.

SP: Do you support to accept the resolution in 11-23/1382r3 for the following CIDs?

19231, 19232, 19519, 19058, 19233, 19234, 19388, 19756, 19117, 19196,

19059, 19060, 19061, 19901

No objection

1. [1384r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1384-00-00be-cr-for-miscellaneous-cids.docx) CR for miscellaneous cids Po-Kai Huang [8C]

C: Multi-link configuration, we set link id of common info of a basic ML element to reported AP rather than reporting AP.

A: Ok I can defer all related CIDs.

SP: Do you support to accept the resolution in 11-23/1384r2 for the following CIDs?

19606, 19283, 19122, 19386, ~~19408, 19409, 19410~~, 19618

No objection

1. [1403r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1403-00-00be-lb275-resolution-for-comments-assigned-to-abhi-part-3.docx) Resolution for comments assigned to Abhi - Part 3 Abhishek Patil [10C]

SP: Do you support to accept the resolution in 11-23/1403r0 for the following CIDs?

19075 19209 19238 19395 19525 19808 19910 19911 19241 19526

No objection

1. [1396r1](https://mentor.ieee.org/802.11/dcn/23/11-23-1396-00-00be-lb275-resolution-for-comments-assigned-to-abhi-part-2.docx) Resolution for comments assigned to Abhi - Part 2 Abhishek Patil [10C]

R1 is not uploaded in the sever yet and just some changes that Abhi already explained during the call. Abhi will upload r1 with some update if any during the call. 1CID is deferred.

SP: Do you support to accept the resolution in 11-23/1396r1 for the following CIDs?

19745 19746 ~~19368~~ 19747 19748 19751 19026 20010 ~~19753~~ 19759

No objection

The teleconference was adjourned at 12:00 ET.

**August 28, 2023 (19:00 – 21:00 ET) (TGbe MAC ad hoc)**

Chairman: Alfred (Qualcomm)

Secretary: Po-Kai Huang (Intel) up to the first presentation.

Secretary: Jason Yuchen Guo  (Huawei) from the second presentation.

This meeting took place using a webex.

**Introduction**

1. The Chair (Alfred, Qualcomm) calls the meeting to order at 19:00 ET. The Chair introduces himself and the Secretary.
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) 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))

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| Name | Affiliation |
| Adachi, Tomoko | TOSHIBA Corporation |
| Baek, SunHee | LG ELECTRONICS |
| Carney, William | Sony Group Corporation |
| Cha, Dongju | LG ELECTRONICS |
| CHENG, yajun | Xiaomi Communications Co., Ltd. |
| Das, Subir | Peraton Labs |
| Derham, Thomas | Broadcom Corporation |
| Dong, Xiandong | Xiaomi Communications Co., Ltd. |
| Erkucuk, Serhat | Ofinno |
| Fan, Shuang | Sanechips Technology Co., Ltd. |
| Fang, Yonggang | Mediatek |
| Fischer, Matthew | Broadcom Corporation |
| Gupta, Binita | Meta Platforms, Inc. |
| Haider, Muhammad Kumail | Meta Platforms Inc. |
| Ho, Duncan | Qualcomm Incorporated |
| Huang, Po-Kai | Intel |
| Jang, Insun | LG ELECTRONICS |
| Kakani, Naveen | Qualcomm Incorporated |
| Kim, Geon Hwan | LG ELECTRONICS |
| Kim, Sang Gook | LG ELECTRONICS |
| Kim, Sanghyun | WILUS Inc |
| Klein, Arik | Huawei Technologies Co., Ltd |
| Levy, Joseph | InterDigital, Inc. |
| Li, Weiyi | Spreadtrum Communication USA, Inc |
| Lorgeoux, Mikael | Canon Research Centre France |
| Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| Ouchi, Masatomo | Canon |
| Palayur, Saju | Maxlinear Inc |
| Patil, Abhishek | Qualcomm Incorporated |
| Patwardhan, Gaurav | Hewlett Packard Enterprise |
| Quan, Yingqiao | Spreadtrum |
| Ratnam, Vishnu | Samsung Research America |
| Rosdahl, Jon | Qualcomm Technologies, Inc. |
| Ryu, Kiseon | NXP Semiconductors |
| Sato, Takuhiro | SHARP CORPORATION |
| Wang, Qi | Apple, Inc. |
| Yang, Jay | Nokia |
| Yoon, Yelin | LG ELECTRONICS |
| Zhang, Maolin | Huawei Technologies Co., Ltd |
| Zhao, Yue | Huawei Technologies Co., Ltd |

1. The Chair asked whether there is comment about agenda in 11-23/1388r5. The agenda was approved.
   1. [1405r1](https://mentor.ieee.org/802.11/dcn/23/11-23-1405-01-00be-lb275-resolution-for-comments-assigned-to-abhi-part-5.docx) Resolution for comments assigned to Abhi - Part 5 Abhishek Patil [SP 2C]
   2. [1383r4](https://mentor.ieee.org/802.11/dcn/23/11-23-1383-04-00be-cr-for-some-subclauses-in-4-10-and-11.docx) CR for some subclauses in 4, 10, and 11 Po-Kai Huang [SP 1C]
   3. [1381r2](https://mentor.ieee.org/802.11/dcn/23/11-23-1381-02-00be-cr-for-35-3-2-and-35-3-5.docx) CR for 35.3.2 and 35.3.5 Po-Kai Huang [SP 2C]
   4. [1396r2](https://mentor.ieee.org/802.11/dcn/23/11-23-1396-02-00be-lb275-resolution-for-comments-assigned-to-abhi-part-2.docx) Resolution for comments assigned to Abhi - Part 2 Abhishek Patil [SP 3C]
   5. [1395r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1395-00-00be-lb275-resolution-for-comments-assigned-to-abhi-part-1.docx) Resolution for comments assigned to Abhi - Part 1 Abhishek Patil [10C]
   6. [1407r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1407-00-00be-lb275-resolution-for-comments-assigned-to-abhi-part-7.docx) Resolution for comments assigned to Abhi - Part 7 Abhishek Patil [10C]
   7. [1408r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1408-00-00be-lb275-resolution-for-comments-assigned-to-abhi-part-8.docx) Resolution for comments assigned to Abhi - Part 8 Abhishek Patil [5C]

**Submissions**

1. [1405r1](https://mentor.ieee.org/802.11/dcn/23/11-23-1405-01-00be-lb275-resolution-for-comments-assigned-to-abhi-part-5.docx) Resolution for comments assigned to Abhi - Part 5 Abhishek Patil [SP 2C]

**SP:** Do you agree to resolve the following CIDs listed in 11-23/1405r1 and incorporate the text changes into the latest TGbe draft?

         19794, 19802

Discussion: None.

Result: No objection.

* + 1383r4 CR for miscellaneous cids Po-Kai Huang

Discussion: None.

**SP:** Do you agree to resolve the following CIDs listed in 11-23/1383r4 and incorporate the text changes into the latest TGbe draft?

         19589

Discussion: None.

Result: No objection.

* + Agenda discussion

Move doc. 1395r0 ahead since Po-Kai needs to be away for a while

* + 1395r0 Resolution for comments assigned to Abhi - Part 1 Abhishek Patil

C: CID 19894, clause 35 should be the right place to explain this.

A: Clause 9 can also explain, TGme also did that, e.g., RNR element.

**SP:** Do you agree to resolve the following CIDs listed in 11-23/1395r0 and incorporate the text changes into the latest TGbe draft?

         19894 19895 20005 19896 19897 20008 20079 19742 19744 19807

Discussion: None.

Result: No objection.

* + 1381r3 CR for 35.3.2 and 35.3.5 Po-Kai Huang

C: why do we make the changes “a” 🡪 “an” here, rather than leaving it to the Editor?

A: the Editor assigns some editorial CIDs to the POCs, and I only make the changes before “ML”

C: 19338 deferred per Binita’s request

**SP:** Do you agree to resolve the following CIDs listed in 11-23/1381r0 and incorporate the text changes into the latest TGbe draft?

         19829, 19057, 19767, 19924

Discussion: None.

Result: No objection.

* + 1396r3 Resolution for comments assigned to Abhi - Part 2 Abhishek Patil

Discussion: None.

**SP:** Do you agree to resolve the following CIDs listed in 11-23/1396r4 and incorporate the text changes into the latest TGbe draft?

         19368, 19753

Discussion: None.

Result: No objection.

* + 1407r0 LB275 Resolution for comments assigned to Abhi - Part 7 Abhishek Patil

C: CID 20062, modify the instructions to the editor by saying “replace the figures shown in this document …”

C: 19269, I don’t find any related sentence in the spec.

A: it should be page 533, the first paragraph

**SP:** Do you agree to resolve the following CIDs listed in 11-23/1407r1 and incorporate the text changes into the latest TGbe draft?

         19512 19761 19203 19268 19269 20062 20063 20065 19805 19332

Discussion: None.

Result: No objection.

* + 1408r0 LB275 Resolution for comments assigned to Abhi - Part 8 Abhishek Patil

C: CID 19330, If a link is disabled where only part of the fragments are transmitted, what do we do? I think the solution is not completed. Please don’t rush to run the SP.

C: CID 19782, we also need to defer this CID.

SP requested to be run after Arik’s document

* + 1398r0 LB275-CR-for-Subclause-35.3.7.5 – Editorials Arik Klein

C: CID 19264, you missed another comma at the second row, you also need to delete that.

C: CID 19265, why do you add EHT here? It seems there’s conflict with Po-Kai’s document.

A: in Po-Kai’s document, we only added “non-AP”, so there’s no conflict.

The chair asked if there’s strong opinion of keeping the “EHT” here. Jay mentioned that we’d better keep consistency by removing “EHT”. Some offline work is needed, this CID is deferred.

**SP:** Do you agree to resolve the following CIDs listed in 11-23/1398r1 and incorporate the text changes into the latest TGbe draft?

         19264, 19267, 19324, 19714

Discussion: None.

Result: No objection.

* + 1395r2 Resolution for comments assigned to Abhi - Part 1 Abhishek Patil

Discussion: None.

**SP:** Do you agree to resolve the following CIDs listed in 11-23/1395r3 and incorporate the text changes into the latest TGbe draft?

         19894 19895 20005 19896 19897 20008 20079 19742 19744 19807

Discussion: None.

Result: No objection.

**August 30, 2023 (10:00 – 12:00 ET) (TGbe MAC ad hoc)**

Chairman: Liwen Chu (NXP)

Secretary: Jason Yuchen Guo (Huawei)

This meeting took place using a webex.

**Introduction**

1. The Chair (Liwen Chu, NXP) calls the meeting to order at 10:00 ET.
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) 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))

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| Bahn, Christy | IEEE STAFF |
| Carney, William | Sony Group Corporation |
| Cha, Dongju | LG ELECTRONICS |
| CHENG, yajun | Xiaomi Communications Co., Ltd. |
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| Dong, Xiandong | Xiaomi Communications Co., Ltd. |
| Erkucuk, Serhat | Ofinno |
| Fischer, Matthew | Broadcom Corporation |
| Gu, Xiangxin | Spreadtrum Communications (Shanghai) Co., Ltd. |
| GUIGNARD, Romain | Canon Research Centre France |
| Gupta, Binita | Meta Platforms, Inc. |
| Handte, Thomas | Sony Corporation |
| Hart, Brian | Cisco Systems, Inc. |
| Ho, Duncan | Qualcomm Incorporated |
| Hu, Chunyu | Spreadtrum Communications USA |
| Huang, Po-Kai | Intel |
| Jang, Insun | LG ELECTRONICS |
| Kakani, Naveen | Qualcomm Incorporated |
| Kim, Geon Hwan | LG ELECTRONICS |
| Kim, Sang Gook | LG ELECTRONICS |
| Kim, Sanghyun | WILUS Inc |
| Klein, Arik | Huawei Technologies Co., Ltd |
| Levitsky, Ilya | IITP RAS |
| Levy, Joseph | InterDigital, Inc. |
| Li, Weiyi | Spreadtrum Communication USA, Inc |
| Lim, Dong Guk | LG ELECTRONICS |
| Lou, Hanqing | InterDigital, Inc. |
| Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| McCann, Stephen | Huawei Technologies Co., Ltd |
| Nayak, Peshal | Samsung Research America |
| Palayur, Saju | Maxlinear Inc |
| Patil, Abhishek | Qualcomm Incorporated |
| Quan, Yingqiao | Spreadtrum |
| Ratnam, Vishnu | Samsung Research America |
| Rosdahl, Jon | Qualcomm Technologies, Inc. |
| Ryu, Kiseon | NXP Semiconductors |
| Shafin, Rubayet | Samsung Research America |
| Wang, Qi | Apple, Inc. |
| Yamada, Ryota | SHARP CORPORATION |
| Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| Yi, Yongjiang | Spreadtrum Communication USA, Inc |
| Yoon, Yelin | LG ELECTRONICS |
| Zhang, Maolin | Huawei Technologies Co., Ltd |
| Zhao, Yue | Huawei Technologies Co., Ltd |
| Zhou, Lei | H3C Technologies Co., Limited |

1. The Chair asked whether there is comment about agenda in 11-23/1388r7. Alfred mentioned that John will not be able to attend the meeting today, so his document 1402r2 is deferred. The agenda was approved.
   1. [1398r2](https://mentor.ieee.org/802.11/dcn/23/11-23-1398-02-00be-lb275-cr-for-subclause-35-3-7-5-editorials.docx) CR-for-Subclause-35.3.7.5 - Editorials Arik Klein [1C-SP]
   2. [~~1402r2~~](https://mentor.ieee.org/802.11/dcn/23/11-23-1402-02-00be-resolution-of-epcs-related-cids-lb275.docx) ~~Resolution of EPCS-related CIDs John Wullert [31C-30GT]~~
   3. [1415r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1415-00-00be-lb275-11be-d4-0-comment-misc-cids.docx) LB275 11be D4.0 comment Misc. CIDs Liwen Chu [6C-6GT]
   * [1398r2](https://mentor.ieee.org/802.11/dcn/23/11-23-1398-02-00be-lb275-cr-for-subclause-35-3-7-5-editorials.docx) CR-for-Subclause-35.3.7.5 - Editorials Arik Klein

Discussion: None.

**SP1:** Do you agree to resolve the following CIDs listed in 11-23/1398r2 and incorporate the text changes into the latest TGbe draft?

         19265

Discussion: None.

Result: No objection.

* + [1415r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1415-00-00be-lb275-11be-d4-0-comment-misc-cids.docx) LB275 11be D4.0 comment Misc. CIDs Liwen Chu

C: text changes on the BA timeout for MLD. Add the links that the BA agreement’s TID and direction map to.

C: Add “non-AP” before “STAs”

C: Last paragraph, change “the” to “that”

**SP2:** Do you agree to resolve the following CIDs listed in 11-23/1415r2 and incorporate the text changes into the latest TGbe draft?

         19166, 19225, 19226, 19235, 19456, 19474

Discussion: None.

Result: No objection.

1. Recessed at 10:37