IEEE P802.11
Wireless LANs

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| Minutes for TGbe MAC Ad-Hoc teleconferences in July to September 2021  |
| Date: 2021-07-21 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
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Abstract

This document contains the meeting minutes for the TGbe MAC ad hoc teleconferences in July to September 2021.

Revisions:

* Rev0: Added the minute from the telephone conference held on July 21.

**Wendsday 21 July 2021, 10:00 – 12:00pm ET (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 10:05am EDT. 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) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair asked whether there is comment about agenda in 11-21/1090r6. Several changes are made per the comment. The modified agenda was approved.

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

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| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 7/21 | Aboulmagd, Osama | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 7/21 | Ajami, Abdel Karim | Qualcomm Incorporated |
| TGbe (MAC) | 7/21 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 7/21 | Bankov, Dmitry | IITP RAS |
| TGbe (MAC) | 7/21 | Bluschke, Andreas | Signify |
| TGbe (MAC) | 7/21 | Bravo, Daniel | Intel Corporation |
| TGbe (MAC) | 7/21 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (MAC) | 7/21 | CHERIAN, GEORGE | Qualcomm Incorporated |
| TGbe (MAC) | 7/21 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 7/21 | Choi, Jinsoo | LG ELECTRONICS |
| TGbe (MAC) | 7/21 | CHUN, JINYOUNG | LG ELECTRONICS |
| TGbe (MAC) | 7/21 | Coffey, John | Realtek Semiconductor Corp. |
| TGbe (MAC) | 7/21 | Das, Subir | Perspecta Labs Inc |
| TGbe (MAC) | 7/21 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (MAC) | 7/21 | Fang, Yonggang | Mediatek |
| TGbe (MAC) | 7/21 | Galati Giordano, Lorenzo | Nokia |
| TGbe (MAC) | 7/21 | Gu, Xiangxin | Unisoc |
| TGbe (MAC) | 7/21 | Handte, Thomas | Sony Corporation |
| TGbe (MAC) | 7/21 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (MAC) | 7/21 | Hu, Chunyu | Facebook |
| TGbe (MAC) | 7/21 | Huang, Po-Kai | Intel Corporation |
| TGbe (MAC) | 7/21 | Ibrahim, Ahmed | Samsung Research America |
| TGbe (MAC) | 7/21 | Jang, Insun | LG ELECTRONICS |
| TGbe (MAC) | 7/21 | Joh, Hanjin | KT Corp. |
| TGbe (MAC) | 7/21 | Kain, Carl | USDoT; Noblis, Inc. |
| TGbe (MAC) | 7/21 | Kakani, Naveen | Qualcomm Incorporated |
| TGbe (MAC) | 7/21 | Kedem, Oren | MaxLinear |
| TGbe (MAC) | 7/21 | Khorov, Evgeny | IITP RAS |
| TGbe (MAC) | 7/21 | Kim, Jeongki | Ofinno |
| TGbe (MAC) | 7/21 | kim, namyeong | LG ELECTRONICS |
| TGbe (MAC) | 7/21 | Kim, Sang Gook | LG ELECTRONICS |
| TGbe (MAC) | 7/21 | Kim, Sanghyun | WILUS Inc |
| TGbe (MAC) | 7/21 | Kim, Youhan | Qualcomm Incorporated |
| TGbe (MAC) | 7/21 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 7/21 | Klein, Arik | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 7/21 | Ko, Geonjung | WILUS Inc. |
| TGbe (MAC) | 7/21 | Lalam, Massinissa | SAGEMCOM BROADBAND SAS |
| TGbe (MAC) | 7/21 | Lee, Hong Won | LG ELECTRONICS |
| TGbe (MAC) | 7/21 | Levitsky, Ilya | IITP RAS |
| TGbe (MAC) | 7/21 | Li, Yunbo | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 7/21 | Lim, Dong Guk | LG ELECTRONICS |
| TGbe (MAC) | 7/21 | lim, taesung | LG ELECTRONICS |
| TGbe (MAC) | 7/21 | Liu, Yong | Apple, Inc. |
| TGbe (MAC) | 7/21 | Lorgeoux, Mikael | Canon Research Centre France |
| TGbe (MAC) | 7/21 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (MAC) | 7/21 | Lu, kaiying | MediaTek Inc. |
| TGbe (MAC) | 7/21 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (MAC) | 7/21 | LU, Yuxin | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 7/21 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbe (MAC) | 7/21 | Martinez Vazquez, Marcos | MaxLinear Corp; MAXLINEAR INC |
| TGbe (MAC) | 7/21 | Max, Sebastian | Ericsson AB |
| TGbe (MAC) | 7/21 | McCann, Stephen | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 7/21 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 7/21 | Naik, Gaurang | Qualcomm Incorporated |
| TGbe (MAC) | 7/21 | NANDAGOPALAN, SAI SHANKAR | Infineon Technologies |
| TGbe (MAC) | 7/21 | Nayak, Peshal | Samsung Research America |
| TGbe (MAC) | 7/21 | Ng, Boon Loong | Samsung Research America |
| TGbe (MAC) | 7/21 | Ouchi, Masatomo | Canon |
| TGbe (MAC) | 7/21 | PANG, KUN | Honor Device Co.,Ltd. |
| TGbe (MAC) | 7/21 | Park, Eunsung | LG ELECTRONICS |
| TGbe (MAC) | 7/21 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 7/21 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 7/21 | Pushkarna, Rajat | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 7/21 | Ratnam, Vishnu | Samsung Research America |
| TGbe (MAC) | 7/21 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGbe (MAC) | 7/21 | Ryu, Kiseon | Ofinno |
| TGbe (MAC) | 7/21 | Shafin, Rubayet | Samsung Research America |
| TGbe (MAC) | 7/21 | Stanley, Dorothy | Hewlett Packard Enterprise |
| TGbe (MAC) | 7/21 | Sun, Bo | ZTE Corporation |
| TGbe (MAC) | 7/21 | Sun, Li-Hsiang | Sony Corporation |
| TGbe (MAC) | 7/21 | Torab Jahromi, Payam | Facebook |
| TGbe (MAC) | 7/21 | Tsodik, Genadiy | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 7/21 | Verenzuela, Daniel | Sony Corporation |
| TGbe (MAC) | 7/21 | Verma, Lochan | Apple, Inc. |
| TGbe (MAC) | 7/21 | VIGER, Pascal | Canon Research Centre France |
| TGbe (MAC) | 7/21 | Wang, Chao Chun | MediaTek Inc. |
| TGbe (MAC) | 7/21 | Wang, Huizhao | Quantenna Communications, Inc. |
| TGbe (MAC) | 7/21 | Wang, Lei | Futurewei Technologies |
| TGbe (MAC) | 7/21 | Wentink, Menzo | Qualcomm Incorporated |
| TGbe (MAC) | 7/21 | Wu, Changqiang | TP-Link Corporation Limited |
| TGbe (MAC) | 7/21 | Wullert, John | Perspecta Labs |
| TGbe (MAC) | 7/21 | Yang, Jay | Nokia |
| TGbe (MAC) | 7/21 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 7/21 | Yee, James | MediaTek Inc. |
| TGbe (MAC) | 7/21 | yi, yongjiang | Spreadtrum Communication USA Inc. |

 **Submissions**

1. [1085r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1085-00-00be-cc36-resolution-for-cids-related-to-ml-element-part-1.docx) Resolution for CIDs related to ML element – Part 1 Gaurang Naik

Summary: The author goes through the CR for ML element.

Discussion:

C: 5743, could you defer this?

A:This is related to basic variant ML element.

C: It does not mention the specific subclause. Maybe we can further check it with laurent.

A: There is a CID related to it. This is not related to that issue.

C: Regarding the non-transmitted ID case, the transmitting Link Info does not reflect it.

A: It makes sense. We may change it to Reporting Info instead of it. Ok, I’ll defer CID 6704.

There are many people in the queue.

1. [1087r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1087-00-00be-cc36-resolution-for-cids-in-clause-35-3-2.docx) Resolution for CIDs in Clause 35.3.2 Gaurang Naik

Discussion:

C: Regarding changing the probe resposne to request, do you change it in all parts? Enough ?

C: Go to ML probe request/response definition.

A: I defered all CIDs related to it.

1. [1172r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1172-00-00be-cc36-resolution-for-cids-related-to-mlo-power-save.docx) Resolution for CIDs related to MLO Power-save Abhishek Patil

Discussion:

C: frame exchange (DL/UL), do we need to change it in whole spec?

A: Ok, any objection to remove DL/UL in the text?

The DL/UL is removed in proposed text.

C: The doze state STA may not receive the Beacon in the diagram.

A: AP sends the Beacon at TBTT regardless of the STA’s power saving state.

C: PM=0, 1 is set by non-AP STA. Those should not be general. Who is originator of PM?

A: Texts already mentioned it. I’m fine. I’ll fix it.

C: You can differentiate it to DL/UL frame in the figure.

A: Ok, I’ll go to Rojan’s suggestion.

C: Regarding MLD max idle period management, you can remove the condition and keep the may.

3 CIDs (7061, 6134, 4387) were defered.

**SP: Do you agree to incorporate the proposed draft text in 11-21/1172r2 to the latest Tgbe Draft to resolve the following comments?**

* 4465, 6210, 6300, 5259, 4466, 5260, 8342, 7725, 6211, 4386, 4467, 6302, 7415, 6301, 7416, 6212, 4067, 4388, 7417, 4114, 6735, 4468, 7419

**No objection.**

**The chair asked whether there is any other business before adjourning the call. Nobody spoke.**

**The meeting was adjourned at 11:55 ET.**