IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Minutes for TGbe MAC Ad-Hoc teleconferences in Sept 2020 | | | | |
| Date: 2020-09-16 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Liwen Chu | NXP |  |  |  |
| Jeongki Kim | LG Electronics |  |  |  |
|  |  |  |  |  |

Abstract

This document contains the meeting minutes for the TGbe MAC ad hoc teleconferences held in Sept 2020.

Revisions:

* Rev0:
  + Adding the minutes from the telephone conferences held on Sept 16, 2020.
  + Adding the minutes from the telephone conferences held on Sept 21, 2020.
* Rev1:
  + Adding the minutes from the telephone conferences held on Sept 14, 2020
  + Adding the minutes from the telephone conferences held on Sept 23, 2020
* Rev2:
  + Adding the minutes from the telephone conferences held on Sept 24, 2020
* Rev3:
  + Adding the minutes from the telephone conferences held on Sept 28, 2020

**Monday, 14 September 2020, 19:00 –21:00 EDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Matthew Fischer (Broadcom)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 19:05am EDT. The Chair introduces himself and the Secretary, Matthew Fischer (Broadcom)
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 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@lge.com](mailto:jeongki.kim@lge.com))

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

|  |  |  |
| --- | --- | --- |
| Timestamp | Name | Affiliation |
| 9/14 | AbidRabbu, Shaima' | Istanbul Medipol University; Vestel |
| 9/14 | Aboulmagd, Osama | Huawei Technologies Co.,  Ltd |
| 9/14 | Abushattal, Abdelrahman | Istanbul Medipol university ;Vestel |
| 9/14 | Akhmetov, Dmitry | Intel Corporation |
| 9/14 | Andersdotter, Amelia | None - Self-funded |
| 9/14 | Asterjadhi, Alfred | Qualcomm Incorporated |
| 9/14 | Au, Oscar | Origin Wireless |
| 9/14 | Baek, SunHee | LG ELECTRONICS |
| 9/14 | Banerjea, Raja | Qualcomm Incorporated |
| 9/14 | Bankov, Dmitry | IITP RAS |
| 9/14 | baron, stephane | Canon Research Centre France |
| 9/14 | Berkema, Alan | HP Inc. |
| 9/14 | Bims, Harry | Bims Laboratories, Inc. |
| 9/14 | Boldy, David | Broadcom Corporation |
| 9/14 | Cariou, Laurent | Intel Corporation |
| 9/14 | Carney, William | Sony Corporation |
| 9/14 | Chen, Canfeng | Xiaomi Inc. |
| 9/14 | Chen, Na | MaxLinear Corp |
| 9/14 | Cheng, Paul | MediaTek Inc. |
| 9/14 | CHERIAN, GEORGE | Qualcomm Incorporated |
| 9/14 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| 9/14 | Coffey, John | Realtek Semiconductor Corp. |
| 9/14 | Das, Dibakar | Intel Corporation |
| 9/14 | Das, Subir | Perspecta Labs Inc. |
| 9/14 | Davies, Robert | Signify |
| 9/14 | Derham, Thomas | Broadcom Corporation |
| 9/14 | de Vegt, Rolf | Qualcomm Incorporated |
| 9/14 | Dong, Xiandong | Xiaomi Inc. |
| 9/14 | Erceg, Vinko | Broadcom Corporation |
| 9/14 | Fang, Yonggang | ZTE TX Inc |
| 9/14 | Fischer, Matthew | Broadcom Corporation |
| 9/14 | Gan, Ming | Huawei Technologies Co., Ltd |
| 9/14 | Ghosh, Chittabrata | Intel Corporation |
| 9/14 | Guo, Yuchen | Huawei Technologies Co., Ltd |
| 9/14 | Haider, Muhammad Kumail | Facebook |
| 9/14 | Hamilton, Mark | Ruckus/CommScope |
| 9/14 | Han, Zhiqiang | ZTE Corporation |
| 9/14 | Hervieu, Lili | Cable Television Laboratories Inc. (CableLabs) |
| 9/14 | Ho, Duncan | Qualcomm Incorporated |
| 9/14 | Hong, Hanseul | WILUS Inc. |
| 9/14 | Hsu, Chien-Fang | MediaTek Inc. |
| 9/14 | Hu, Chunyu | Facebook |
| 9/14 | Huang, Po-Kai | Intel Corporation |
| 9/14 | Hwang, Sung Hyun | Electronics and Telecommunications Research Institute (ETRI) |
| 9/14 | Inoue, Yasuhiko | Nippon Telegraph and Telephone Corporation (NTT) |
| 9/14 | Jang, Insun | LG ELECTRONICS |
| 9/14 | Jiang, Jinjing | Apple, Inc. |
| 9/14 | JUNG, MYUNG CHEUL | Pantech Inc. |
| 9/14 | Kain, Carl | USDoT |
| 9/14 | Kakani, Naveen | Qualcomm Incorporated |
| 9/14 | Kedem, Oren | Huawei Technologies Co. Ltd |
| 9/14 | Khan, Naseem | Leidos Engineering. LLC |
| 9/14 | kim, namyeong | LG ELECTRONICS |
| 9/14 | Kim, Sang Gook | LG ELECTRONICS |
| 9/14 | Kim, Sanghyun | WILUS Inc |
| 9/14 | Kim, Yongho | Korea National University of Transportation |
| 9/14 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| 9/14 | Klein, Arik | Huawei Technologies Co. Ltd |
| 9/14 | Kneckt, Jarkko | Apple, Inc. |
| 9/14 | Ko, Geonjung | WILUS Inc. |
| 9/14 | Kondo, Yoshihisa | Advanced Telecommunications Research Institute International (ATR) |
| 9/14 | Kwon, Young Hoon | NXP Semiconductors |
| 9/14 | Lalam, Massinissa | SAGEMCOM BROADBAND SAS |
| 9/14 | Lee, Il-Gu | Sungshin University |
| 9/14 | Li, Nan | ZTE Corporation |
| 9/14 | Li, Yiqing | Huawei Technologies Co. Ltd |
| 9/14 | Li, Yunbo | Huawei Technologies Co., Ltd |
| 9/14 | Lin, Wei | Huawei Technologies Co. Ltd |
| 9/14 | Liu, Jeff | Broadcom Corporation |
| 9/14 | Liu, Yong | Apple, Inc. |
| 9/14 | Lu, Liuming | ZTE Corporation |
| 9/14 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| 9/14 | Lv, kaiying | MediaTek Inc. |
| 9/14 | Mehrnoush, Morteza | Facebook |
| 9/14 | Merlin, Simone | Qualcomm Incorporated |
| 9/14 | Monajemi, Pooya | Cisco Systems, Inc. |
| 9/14 | Moon, Juseong | Korea National University of Transportation |
| 9/14 | NANDAGOPALAN, SAI SHANKAR | Cypress Semiconductor Corporation |
| 9/14 | Naribole, Sharan | SAMSUNG |
| 9/14 | Nguyen, An | DHS/CISA |
| 9/14 | Okada, Hiraku | Nagoya University |
| 9/14 | Ouchi, Masatomo | Canon |
| 9/14 | Ozbakis, Basak | VESTEL |
| 9/14 | Palm, Stephen | Broadcom Corporation |
| 9/14 | Park, Minyoung | Intel Corporation |
| 9/14 | Patil, Abhishek | Qualcomm Incorporated |
| 9/14 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| 9/14 | Petrick, Albert | InterDigital, Inc. |
| 9/14 | Petry, Brian | Broadcom Corporation |
| 9/14 | QIU, WEI | Huawei Technologies Co., Ltd |
| 9/14 | Raissinia, Alireza | Qualcomm Incorporated |
| 9/14 | Rantala, Enrico-Henrik | Nokia |
| 9/14 | Sakoda, Kazuyuki | Sony Corporation |
| 9/14 | Segev, Jonathan | Intel Corporation |
| 9/14 | Seok, Yongho | MediaTek Inc. |
| 9/14 | Sevin, Julien | Canon Research Centre France |
| 9/14 | Sherlock, Ian | Texas Instruments Incorporated |
| 9/14 | Startsev, Ivan | IITP RAS |
| 9/14 | Stott, Noel | Keysight Technologies |
| 9/14 | Sun, Li-Hsiang | InterDigital, Inc. |
| 9/14 | Sun, Yanjun | Qualcomm Incorporated |
| 9/14 | SURACI, FRANK | U.S. Department of Homeland Security |
| 9/14 | Takai, Mineo | Space-Time Engineering |
| 9/14 | Torab Jahromi, Payam | Facebook |
| 9/14 | Verma, Sindhu | Broadcom Corporation |
| 9/14 | VIGER, Pascal | Canon Research Centre France |
| 9/14 | Wang, Chao Chun | MediaTek Inc. |
| 9/14 | Wang, Lei | Huawei R&D USA |
| 9/14 | Wang, Qi | Apple, Inc. |
| 9/14 | Wang, Xiaofei | InterDigital, Inc. |
| 9/14 | Wullert, John | Perspecta Labs |
| 9/14 | Xin, Liangxiao | Sony Corporation |
| 9/14 | Xue, Qi | Qualcomm Incorporated |
| 9/14 | Yang, Bo | Huawei Technologies Co. Ltd |
| 9/14 | Yang, Jay | Nokia |
| 9/14 | Yang, Mao | Northwestern Polytechnical University |
| 9/14 | Yang, Yunsong | Futurewei Technologies |
| 9/14 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| 9/14 | Yee, James | MediaTek Inc. |
| 9/14 | yi, yongjiang | Futurewei Technologies |

* Technical Submissions: **Proposed Draft Text (PDTs) [Discussions and SPs]**
  1. [1300r8](https://mentor.ieee.org/802.11/dcn/20/11-20-1300-08-00be-pdt-mac-mlo-multi-link-setup-usage-and-rules-of-ml-ie.docx) PDT-MAC-MLO-multi-link-setup-usage-and-rules-of-ML-IE Insun Jang (LG)

Discussion:

C: none

**SP:**

**Do you support to incorporate the proposed draft text of 11-20-1300r8 into TGbe Draft 0.1?**

Agreed unanimously

* 1. [1299r6](https://mentor.ieee.org/802.11/dcn/20/11-20-1299-06-00be-pdt-mac-mlo-multi-link-channel-access-str.docx) PDT-MAC-MLO-multi-link-channel-access-str 1299 - Insun Jang, (LG)

Discussion:

C: will you include STA-STA?

A: yes

Document started as r5, but modified during presentation to become r6, subject of the SP:

**SP:**

**Do you support to incorporate the proposed draft text of 11-20-1299r6 into TGbe Draft 0.1?**

Agreed unanimously

* 1. [1359r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1359-02-00be-pdt-mac-eht-operation-element.docx) pdt-mac-eht-operation-element Guogang Huang (Huawei)

Discussion:

C: please look at motion 111, you have not included CCFS

A: do not know what the numbers should be

C: should still include the field, with TBD for numbers

C: 160+160 is not yet supported by motion

A: But the cited motion does include 160+160

C: but is there a motion to remove 160+160? It is not included in some other motions and was mentioned as should be removed

A: PHY motions also mention 160+160

C: You do not have CCFS field in the text

A: Because there is only one value

C: but the motion has it

C: first motion says need CCFS, but the last motion EHT op ie does not need to combine CCFS0 and CCFS1 at 6 GHz – this means separate indication for CCFS operation vs HE, however, not yet defined how to do this – could have one or two CCFS fields, etc, so too many questions, so unable to add anything

A: still not happy

C: How about a field called CCFS with encoding TBD and definition TBD

A: ok

C: can we just defer?

A: ok

**NO SP**

* 1. [1353r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1353-02-00be-pdt-mac-eht-bss-operation.docx) PDT MAC EHT BSS operation Liwen Chu (NXP)

C: first subbullet why is it widest width

A: If punctured, then you want to mention that

C: for AP it can just choose a reduced operating BW

A: Want to be fair to HE and VHT

C: 80 MHz for HE BSS and disallowed ch in secondary 160

A: this allows that

C: is not allowed

A: if disallowed ch is on the secondary 160, then AP says 160

C: why not allow < 80?

A: because VHT already set the precedent that

C: should use the motion as the guide

C: the motion text does not include this restriction

A: we can discuss removing it, first bullet

C: should describe using EHT OP ie, how to set EHT BW, should add something to first bullet regarding primary 20 MHz, need to have that condition

A: yes

C: can remove last bullet, HE limit 160, as this is the hard limit for HE anyway

A: ok

C: do we need to add some MIB for controling this?

A: maybe

C: this is normative behavior, MIB goes into the signaling doc

C: removed first bullet, I like the first bullet, I think that the restriction is reasonable to keep

A: subject of offline discussion

**NO SP**

* 1. [1309r4](https://mentor.ieee.org/802.11/dcn/20/11-20-1309-04-00be-proposed-draft-specification-for-ml-general-mld-authentication-mld-association-and-ml-setup.docx) Proposed Draft Specification for ML General, MLD Authentication, MLD Association, and ML Setup Po-kai Huang (Intel)

C: what about resetup or setup for page 6, do you need to mention all links?

A: I followed Insun, saying that only the resetup links need to be mentioned and in the response only those that are accepted, the motion does not provide guidance beyond this

C: teardown, afterward, non-AP MLD and AP MLD will not be associated, what about authentication – is that still valid?

A: see part 2 in the state machine

**SP:**

**Do you support to incorporate Part 1 of the proposed draft text of 11-20-1309r4 into TGbe Draft 0.1?**

Agreed unanimously

* 1. [1281r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1281-02-00be-pdt-mac-txop-bandwidth-signaling.docx) PDT-MAC-TXOP-Bandwidth\_Signaling Kaiying Lu (Mediatek)

**DEFERRED**

* 1. [1336r3](https://mentor.ieee.org/802.11/dcn/20/11-20-1336-03-00be-11be-spec-text-for-mlo-ba-share-and-extension-of-sn-space.docx) 11be Spec text for MLO BA: share and extension of SN space Liwen Chu (NXP)

Author mentions that some of the text is beyond the scope of the motion, but is based on discussions that took place offline.

C: What is the intent of the added restriction on 512 and 1024 bitmaps for MSTA BA when an HE STA is a transmitter of HE TB PPDU?

A: intent is that the recipients of the MSTA BA must all be EHT STA if 512 or 1024 bitmaps are included

C: MSTA BA, if the HE STAs are all listed before the EHT STAs, then it will be ok, right

A: probably not

C: the encoding does not follow the motion, but it is better

A: need to run a motion to amend, cannot just run the text

C: Disagree – no need to amend a primary motion, as a passing motion on text that goes beyond the motion is already a motion moved by the body to supersede the original motion, no need to have two motions to accomplish what one motion on the text can accomplish

A: prefer to keep things as clean as possible

C: can there be an objection to text in a PDT that is beyond a motion?

A: yes, discuss offline first, and if necessary, remove such text before a motion

C:

**NO SP**

* 1. [1395r8](https://mentor.ieee.org/802.11/dcn/20/11-20-1395-08-00be-pdt-mac-mlo-multi-link-channel-access-general-non-str.docx) PDT-MAC-MLO-Multi-Link-Channel-Access-General-Non-STR Matthew Fischer (Broadcom)

C: question on the scope of the motion relating to the inclusion of the last two paragraphs of the document

A: these were added in response to a general outcry from the public during offline review, we could straw poll whether the group is in favor of their inclusion

C: NSTR definition is being discussed elsewhere, this one might end up being different

A: agree to modify this one, changing ”inability to receive” to ”impaired ability to receive” – and contend that the definition will never be more formal or narrower than this, it will never mention numerical limits of any kind, to call a pair of links NSTR will be an implementation dependent decision

C: does RTS motion include the issue of response to MU RTS?

A: maybe, and maybe not

C: defintion of NSTR limited is not quite accurate

A: agreed, needs an explicit owner for NSTR links and needs a narrowing of the links that the TXOP owner is operating on, to one of the NSTR links of which the RTS is a member, rather than all of the MLD’s NSTR links

C: subclause naming does not match expansion of NSTR in other places

A: ok, will fix it

**NO SP, as it is felt that the group needs more time to consider**

* Chair notes that with 9 minutes remaining, there is not enough time to cover another presentation
* Chair asks if there is any other Business
  + - None noted
* Chair asks if there is objection to adjourning, and none being heard:

The meeting is recessed at 20:53 EDT.

**Wednesday 16 Sept 2020, 09:00 – 11:00 ET (TGbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (LG Electronics)

Secretary: Liwen Chu (NXP)

This meeting took place using a webex session.

**Introduction**

1. The Chair (Jeongki, LG) calls the meeting to order at 09:04 EDT. The Chair introduces himself and the Secretary, Liwen Chu (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. Nobody speaks up.
3. 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 Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com)) and Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com))

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

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 9/16 | AbidRabbu, Shaima' | Istanbul Medipol University; Vestel |
| TGbe (MAC) | 9/16 | Abouelseoud, Mohamed | Sony Corporation |
| TGbe (MAC) | 9/16 | Aboulmagd, Osama | Huawei Technologies Co.,  Ltd |
| TGbe (MAC) | 9/16 | Akhmetov, Dmitry | Intel Corporation |
| TGbe (MAC) | 9/16 | Andersdotter, Amelia | None - Self-funded |
| TGbe (MAC) | 9/16 | Asterjadhi, Alfred | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Au, Kwok Shum | Huawei Technologies Co.,  Ltd |
| TGbe (MAC) | 9/16 | Au, Oscar | Origin Wireless |
| TGbe (MAC) | 9/16 | B, Hari Ram | NXP Semiconductors |
| TGbe (MAC) | 9/16 | Bankov, Dmitry | IITP RAS |
| TGbe (MAC) | 9/16 | baron, stephane | Canon Research Centre France |
| TGbe (MAC) | 9/16 | Beg, Chris | Cognitive Systems Corp. |
| TGbe (MAC) | 9/16 | Bei, Jianwei | NXP Semiconductors |
| TGbe (MAC) | 9/16 | Berkema, Alan | HP Inc. |
| TGbe (MAC) | 9/16 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (MAC) | 9/16 | Carney, William | Sony Corporation |
| TGbe (MAC) | 9/16 | CHAN, YEE | Facebook |
| TGbe (MAC) | 9/16 | Chayat, Naftali | Vayyar Imaging |
| TGbe (MAC) | 9/16 | Chen, Canfeng | Xiaomi Inc. |
| TGbe (MAC) | 9/16 | Chen, Cheng | Intel Corporation |
| TGbe (MAC) | 9/16 | Chen, Cheng-Ming | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Cheng, Paul | MediaTek Inc. |
| TGbe (MAC) | 9/16 | CHERIAN, GEORGE | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 9/16 | Choo, Seungho | Senscomm Semiconductor Co., Ltd. |
| TGbe (MAC) | 9/16 | Chung, Chulho | SAMSUNG |
| TGbe (MAC) | 9/16 | Coffey, John | Realtek Semiconductor Corp. |
| TGbe (MAC) | 9/16 | Das, Dibakar | Intel Corporation |
| TGbe (MAC) | 9/16 | Das, Subir | Perspecta Labs Inc. |
| TGbe (MAC) | 9/16 | Davies, Robert | Signify |
| TGbe (MAC) | 9/16 | DeLaOlivaDelgado, Antonio | InterDigital, Inc. |
| TGbe (MAC) | 9/16 | Derham, Thomas | Broadcom Corporation |
| TGbe (MAC) | 9/16 | DOAN, DUNG | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Dogukan, Ali | Vestel |
| TGbe (MAC) | 9/16 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (MAC) | 9/16 | Fang, Yonggang | ZTE TX Inc |
| TGbe (MAC) | 9/16 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 9/16 | Gong, Bo | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/16 | Goto, Fumihide | Self |
| TGbe (MAC) | 9/16 | Guo, Yuchen | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/16 | Hamilton, Mark | Ruckus/CommScope |
| TGbe (MAC) | 9/16 | Han, Jonghun | SAMSUNG |
| TGbe (MAC) | 9/16 | Han, Zhiqiang | ZTE Corporation |
| TGbe (MAC) | 9/16 | Handte, Thomas | Sony Corporation |
| TGbe (MAC) | 9/16 | Hong, Hanseul | WILUS Inc. |
| TGbe (MAC) | 9/16 | Hsiao, Ching-Wen | MediaTek Inc. |
| TGbe (MAC) | 9/16 | Hsu, Chien-Fang | MediaTek Inc. |
| TGbe (MAC) | 9/16 | Hu, Chunyu | Facebook |
| TGbe (MAC) | 9/16 | Huang, Guogang | Huawei |
| TGbe (MAC) | 9/16 | Huang, Lei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (MAC) | 9/16 | Huang, Po-Kai | Intel Corporation |
| TGbe (MAC) | 9/16 | Ikegami, Tetsushi | Meiji University |
| TGbe (MAC) | 9/16 | Inohiza, Hirohiko | Canon |
| TGbe (MAC) | 9/16 | Inoue, Yasuhiko | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/16 | Jang, Insun | LG ELECTRONICS |
| TGbe (MAC) | 9/16 | Jeffries, Timothy | Futurewei Technologies |
| TGbe (MAC) | 9/16 | Ji, Chenhe | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/16 | Jones, Allan | Activision |
| TGbe (MAC) | 9/16 | Jones, Vincent Knowles IV | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | JUNG, MYUNG CHEUL | Pantech Inc. |
| TGbe (MAC) | 9/16 | Kain, Carl | USDoT |
| TGbe (MAC) | 9/16 | Kakani, Naveen | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbe (MAC) | 9/16 | Kandala, Srinivas | SAMSUNG |
| TGbe (MAC) | 9/16 | Kasher, Assaf | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Kedem, Oren | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/16 | Khan, Naseem | Leidos Engineering. LLC |
| TGbe (MAC) | 9/16 | Khorov, Evgeny | IITP RAS |
| TGbe (MAC) | 9/16 | Kim, Myeong-Jin | SAMSUNG |
| TGbe (MAC) | 9/16 | kim, namyeong | LG ELECTRONICS |
| TGbe (MAC) | 9/16 | Kim, Sang Gook | LG ELECTRONICS |
| TGbe (MAC) | 9/16 | Kim, Sanghyun | WILUS Inc |
| TGbe (MAC) | 9/16 | Kim, Yongho | Korea National University of Transportation |
| TGbe (MAC) | 9/16 | Kim, Youhan | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Kim, Youn-Kwan | The Catholic University of Korea |
| TGbe (MAC) | 9/16 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/16 | Klein, Arik | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/16 | Klimakov, Andrey | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/16 | Kneckt, Jarkko | Apple, Inc. |
| TGbe (MAC) | 9/16 | Ko, Geonjung | WILUS Inc. |
| TGbe (MAC) | 9/16 | Kondo, Yoshihisa | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 9/16 | Kwon, Young Hoon | NXP Semiconductors |
| TGbe (MAC) | 9/16 | Lalam, Massinissa | SAGEMCOM BROADBAND SAS |
| TGbe (MAC) | 9/16 | Lan, Zhou | Broadcom Corporation |
| TGbe (MAC) | 9/16 | Lee, Il-Gu | Sungshin University |
| TGbe (MAC) | 9/16 | Le Houerou, Brice | Canon Research Centre France |
| TGbe (MAC) | 9/16 | Levitsky, Ilya | IITP RAS |
| TGbe (MAC) | 9/16 | Levy, Joseph | InterDigital, Inc. |
| TGbe (MAC) | 9/16 | Li, Nan | ZTE Corporation |
| TGbe (MAC) | 9/16 | Li, Yiqing | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/16 | Li, Yunbo | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/16 | Lin, Wei | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/16 | Lindskog, Erik | SAMSUNG |
| TGbe (MAC) | 9/16 | Liu, Der-Zheng | Realtek Semiconductor Corp. |
| TGbe (MAC) | 9/16 | Liu, Yong | Apple, Inc. |
| TGbe (MAC) | 9/16 | Lopez, Miguel | Ericsson AB |
| TGbe (MAC) | 9/16 | Lorgeoux, Mikael | Canon Research Centre France |
| TGbe (MAC) | 9/16 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (MAC) | 9/16 | Lu, Liuming | ZTE Corporation |
| TGbe (MAC) | 9/16 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbe (MAC) | 9/16 | Lv, kaiying | MediaTek Inc. |
| TGbe (MAC) | 9/16 | Ma, Mengyao | HUAWEI |
| TGbe (MAC) | 9/16 | Max, Sebastian | Ericsson AB |
| TGbe (MAC) | 9/16 | McGuire, Colin | The MathWorks, Inc. |
| TGbe (MAC) | 9/16 | Mehrnoush, Morteza | Facebook |
| TGbe (MAC) | 9/16 | Memisoglu, Ebubekir | Istanbul Medipol University; Vestel |
| TGbe (MAC) | 9/16 | Montemurro, Michael | Self |
| TGbe (MAC) | 9/16 | Montreuil, Leo | Broadcom Corporation |
| TGbe (MAC) | 9/16 | Moon, Juseong | Korea National University of Transportation |
| TGbe (MAC) | 9/16 | Morioka, Hitoshi | SRC Software |
| TGbe (MAC) | 9/16 | Murti, Wisnu | SeoulTech |
| TGbe (MAC) | 9/16 | Naribole, Sharan | SAMSUNG |
| TGbe (MAC) | 9/16 | Nezou, Patrice | Canon Research Centre France |
| TGbe (MAC) | 9/16 | Nguyen, An | DHS/CISA |
| TGbe (MAC) | 9/16 | noh, yujin | Newracom Inc. |
| TGbe (MAC) | 9/16 | Ozbakis, Basak | VESTEL |
| TGbe (MAC) | 9/16 | Palm, Stephen | Broadcom Corporation |
| TGbe (MAC) | 9/16 | Park, Minyoung | Intel Corporation |
| TGbe (MAC) | 9/16 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 9/16 | Petrick, Albert | InterDigital, Inc. |
| TGbe (MAC) | 9/16 | Pettersson, Charlie | Ericsson AB |
| TGbe (MAC) | 9/16 | QIU, WEI | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/16 | Rafique, Saira | Istanbul Medipol University ; VESTEL |
| TGbe (MAC) | 9/16 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Rantala, Enrico-Henrik | Nokia |
| TGbe (MAC) | 9/16 | Rege, Kiran | Perspecta Labs |
| TGbe (MAC) | 9/16 | Reshef, Ehud | Intel Corporation |
| TGbe (MAC) | 9/16 | Sakoda, Kazuyuki | Sony Corporation |
| TGbe (MAC) | 9/16 | Salman, Hanadi | Istanbul Medipol University; VESTEL |
| TGbe (MAC) | 9/16 | Sandhu, Shivraj | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Sethi, Ankit | NXP Semiconductors |
| TGbe (MAC) | 9/16 | Sevin, Julien | Canon Research Centre France |
| TGbe (MAC) | 9/16 | Sherlock, Ian | Texas Instruments Incorporated |
| TGbe (MAC) | 9/16 | Smely, Di Dieter | Kapsch TrafficCom AG |
| TGbe (MAC) | 9/16 | Stacey, Robert | Intel Corporation |
| TGbe (MAC) | 9/16 | Stott, Noel | Keysight Technologies |
| TGbe (MAC) | 9/16 | Sun, Bo | ZTE Corporation |
| TGbe (MAC) | 9/16 | Sun, Li-Hsiang | InterDigital, Inc. |
| TGbe (MAC) | 9/16 | SURACI, FRANK | U.S. Department of Homeland Security |
| TGbe (MAC) | 9/16 | Tanaka, Yusuke | Sony Corporation |
| TGbe (MAC) | 9/16 | THOUMY, Francois | Canon Research Centre France |
| TGbe (MAC) | 9/16 | Torab Jahromi, Payam | Facebook |
| TGbe (MAC) | 9/16 | Urabe, Yoshio | Panasonic Corporation |
| TGbe (MAC) | 9/16 | VIGER, Pascal | Canon Research Centre France |
| TGbe (MAC) | 9/16 | Wang, Chao Chun | MediaTek Inc. |
| TGbe (MAC) | 9/16 | Wang, Hao | Tencent |
| TGbe (MAC) | 9/16 | Wang, Lei | Huawei R&D USA |
| TGbe (MAC) | 9/16 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 9/16 | Wang, Xiaofei | InterDigital, Inc. |
| TGbe (MAC) | 9/16 | Want, Roy | Google |
| TGbe (MAC) | 9/16 | Wentink, Menzo | Qualcomm |
| TGbe (MAC) | 9/16 | Wilhelmsson, Leif | Ericsson AB |
| TGbe (MAC) | 9/16 | Wu, Tianyu | Apple, Inc. |
| TGbe (MAC) | 9/16 | Wullert, John | Perspecta Labs |
| TGbe (MAC) | 9/16 | Xin, Liangxiao | Sony Corporation |
| TGbe (MAC) | 9/16 | Xin, Yan | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/16 | Xue, Qi | Qualcomm Incorporated |
| TGbe (MAC) | 9/16 | Xue, Ruifeng | Cisco Systems, Inc. |
| TGbe (MAC) | 9/16 | YAGHOOBI, HASSAN | Intel Corporation |
| TGbe (MAC) | 9/16 | Yang, Bo | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/16 | Yang, Jay | Nokia |
| TGbe (MAC) | 9/16 | YANG, RUI | InterDigital, Inc. |
| TGbe (MAC) | 9/16 | Yang, Yunsong | Futurewei Technologies |
| TGbe (MAC) | 9/16 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 9/16 | Yee, James | MediaTek Inc. |
| TGbe (MAC) | 9/16 | yi, yongjiang | Futurewei Technologies |
| TGbe (MAC) | 9/16 | Yu, Heejung | Korea University |
| TGbe (MAC) | 9/16 | Yu, Jian | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/16 | Zein, Nader | NEC Laboratories Europe |
| TGbe (MAC) | 9/16 | Zeng, Yan | Huawei Technologies Co.,  Ltd |
| TGbe (MAC) | 9/16 | Zuo, Xin | Tencent |

1. The Chair reminds that the agenda can be found in 11-20/1269r6. The Chair asked for the comments bout the agenda. Tere was no further comments. The agenda was approved.

**Submissions**

1. [1359r3](https://mentor.ieee.org/802.11/dcn/20/11-20-1359-02-00be-pdt-mac-eht-operation-element.docx) EHT Operation element Guogang Huang [SP]

Discussion:

C: asked to remove to TBD in third row of the table (ENT Operation Informaiton field).

A: agreed.

C: 160+160 should be removed.

A: 160+160 is in the motion

C: 160+160 should be highlighted in yellow.

A: we should follow the passed motion.

SP:

Do you support to incorporate the proposed draft text in 11-20/1359r4 into TGbe Draft 0.1?

The straw polls are deferred.

51/13/35

1. 1353r5 EHT BSS operation Liwen Chu [SP]

Discussion:

C: change HE Operating element to HE Operation element.

A: agreed.

C: using same primary channel by HE and EHT should be clarified.

A: the same primary channel for HE Operation element and EHT Operaiton element since they share the same primary channel field.

SP:

Do you support to incorporate the proposed draft text in 11-20/1353r5 into TGbe Draft 0.1?

The straw polls are deferred.

54/1/39

1. 1309r5 ML General, Authentication, Association, and Setup Po-Kai Huang [SP]

Discussion:

C: P21, regarding data, do we support TDLS?

A: We don’t have motion about TDLS.

More discussion about TDLS, e.g. legacy TDLS. Most people agreed to not include TDLS.

SP:

Do you support to incorporate Part II of the proposed draft text in 11-20/1353r5 into TGbe Draft 0.1?

The straw polls are deferred.

Approved with unanimous consent

1. 1281r4 TXOP-Bandwidth Signaling Kaiying Lu [SP]

Discussion:

C: once the TXVECTOR is mentioned, the changes in 9.3 for various control frames are not needed.

A: in 9.2 scrambler sequence is mentioned. This is not true for >160MHz non-HT duplicate PPDU.

C: no change is needed in subcaluse 21.

A: so where should we put the changes.

C: we need to change subclause 17. But further discussion is needed.

C: TBD field in 9.3 seems MAC layer change.

A: But TBD field can be in RESERVED field of SERVICE field.

SP:

Do you support to incorporate the proposed draft text in 11-20/1281r4 into TGbe Draft 0.1?

The straw polls are deferred.

Approved with unanimous consent

1. 1336r5 MLO BA: share and extension of SN space Liwen Chu [SP]

Discussion:

The ahthor indicated that the BA bitmap length indication is not in line the passed motion.

1. 1295r9 Multi-Link-Channel-Access-General-Non-STR Matthew Fischer [SP]

Discussion:

C: the definition question. Why you called out receiving RTS.

A: the subclause is about CTS procedure.

The teleconference was adjourned at 11:00am EDT

**Monday 21 Sept 2020, 10:00 AM– 01:00PM ET (Gbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (LG Electronics)

Secretary: Liwen Chu (NXP)

This meeting took place using a WebEx session.

**Introduction**

1. The Chair (Jeongki, LG) calls the meeting to order at 10:04am EDT. The Chair introduces himself and the Secretary, Liwen Chu (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. Nobody speaks up.
3. 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 [imam](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 Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com)) and Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com))

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

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbe (MAC) | 9/21 | Aboulmagd, Osama | Huawei Technologies Co.,  Ltd |
| TGbe (MAC) | 9/21 | Akhmetov, Dmitry | Intel Corporation |
| TGbe (MAC) | 9/21 | Andersdotter, Amelia | None - Self-funded |
| TGbe (MAC) | 9/21 | Asterjadhi, Alfred | Qualcomm Incorporated |
| TGbe (MAC) | 9/21 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 9/21 | Bankov, Dmitry | IITP RAS |
| TGbe (MAC) | 9/21 | baron, stephane | Canon Research Centre France |
| TGbe (MAC) | 9/21 | Bredewoud, Albert | Broadcom Corporation |
| TGbe (MAC) | 9/21 | Carney, William | Sony Corporation |
| TGbe (MAC) | 9/21 | Chen, Na | MaxLinear Corp |
| TGbe (MAC) | 9/21 | Cheng, Paul | MediaTek Inc. |
| TGbe (MAC) | 9/21 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 9/21 | Chu, Liwen | NXP Semiconductors |
| TGbe (MAC) | 9/21 | Das, Dibakar | Intel Corporation |
| TGbe (MAC) | 9/21 | Das, Subir | Perspecta Labs Inc. |
| TGbe (MAC) | 9/21 | Derham, Thomas | Broadcom Corporation |
| TGbe (MAC) | 9/21 | Ding, Baokun | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/21 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (MAC) | 9/21 | Fang, Yonggang | ZTE TX Inc |
| TGbe (MAC) | 9/21 | Ghosh, Chittabrata | Intel Corporation |
| TGbe (MAC) | 9/21 | Guo, Yuchen | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/21 | Han, Jonghun | SAMSUNG |
| TGbe (MAC) | 9/21 | Han, Zhiqiang | ZTE Corporation |
| TGbe (MAC) | 9/21 | Hong, Hanseul | WILUS Inc. |
| TGbe (MAC) | 9/21 | Hsu, Chien-Fang | MediaTek Inc. |
| TGbe (MAC) | 9/21 | Huang, Guogang | Huawei |
| TGbe (MAC) | 9/21 | Huang, Po-Kai | Intel Corporation |
| TGbe (MAC) | 9/21 | Inoue, Yasuhiko | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/21 | Kakani, Naveen | Qualcomm Incorporated |
| TGbe (MAC) | 9/21 | Kedem, Oren | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/21 | Khorov, Evgeny | IITP RAS |
| TGbe (MAC) | 9/21 | Kim, Sang Gook | LG ELECTRONICS |
| TGbe (MAC) | 9/21 | Kim, Sanghyun | WILUS Inc |
| TGbe (MAC) | 9/21 | Kim, Yongho | Korea National University of Transportation |
| TGbe (MAC) | 9/21 | Kim, Youn-Kwan | The Catholic University of Korea |
| TGbe (MAC) | 9/21 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/21 | Klein, Arik | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/21 | Klimakov, Andrey | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/21 | Kneckt, Jarkko | Apple, Inc. |
| TGbe (MAC) | 9/21 | Ko, Geonjung | WILUS Inc. |
| TGbe (MAC) | 9/21 | Kwon, Young Hoon | NXP Semiconductors |
| TGbe (MAC) | 9/21 | Le Houerou, Brice | Canon Research Centre France |
| TGbe (MAC) | 9/21 | Levitsky, Ilya | IITP RAS |
| TGbe (MAC) | 9/21 | Li, Yiqing | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/21 | Lin, Wei | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/21 | Liu, Yong | Apple, Inc. |
| TGbe (MAC) | 9/21 | Lu, Liuming | ZTE Corporation |
| TGbe (MAC) | 9/21 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbe (MAC) | 9/21 | Lv, kaiying | MediaTek Inc. |
| TGbe (MAC) | 9/21 | Ma, Mengyao | HUAWEI |
| TGbe (MAC) | 9/21 | Max, Sebastian | Ericsson AB |
| TGbe (MAC) | 9/21 | Moon, Juseong | Korea National University of Transportation |
| TGbe (MAC) | 9/21 | Naribole, Sharan | SAMSUNG |
| TGbe (MAC) | 9/21 | Nezou, Patrice | Canon Research Centre France |
| TGbe (MAC) | 9/21 | Ouchi, Masatomo | Canon |
| TGbe (MAC) | 9/21 | Park, Minyoung | Intel Corporation |
| TGbe (MAC) | 9/21 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 9/21 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 9/21 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbe (MAC) | 9/21 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGbe (MAC) | 9/21 | Sedin, Jonas | Ericsson AB |
| TGbe (MAC) | 9/21 | Sevin, Julien | Canon Research Centre France |
| TGbe (MAC) | 9/21 | Solaija, Muhammad Sohaib | Istanbul Medipol University; Vestel |
| TGbe (MAC) | 9/21 | Startsev, Ivan | IITP RAS |
| TGbe (MAC) | 9/21 | Wang, Chao Chun | MediaTek Inc. |
| TGbe (MAC) | 9/21 | Wang, Huizhao | Quantenna Communications, Inc. |
| TGbe (MAC) | 9/21 | Wang, Lei | Huawei R&D USA |
| TGbe (MAC) | 9/21 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 9/21 | Wang, Xiaofei | InterDigital, Inc. |
| TGbe (MAC) | 9/21 | Wentink, Menzo | Qualcomm |
| TGbe (MAC) | 9/21 | Wullert, John | Perspecta Labs |
| TGbe (MAC) | 9/21 | Yang, Jay | Nokia |
| TGbe (MAC) | 9/21 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 9/21 | Yee, James | MediaTek Inc. |

1. The Chair reminds that the agenda can be found in 11-20/1269r8. The Chair asked for the comments bout the agenda. Tere was no further comments. The agenda was approved.

**Submissions**

1. [1309r6](https://mentor.ieee.org/802.11/dcn/20/11-20-1309-04-00be-proposed-draft-specification-for-ml-general-mld-authentication-mld-association-and-ml-setup.docx) ML General, Authentication, Association, and Setup Po-Kai Huang [SP]

SP:

Do you support to incorporate Part III of the proposed draft text in 11-20/1309r6 into TGbe Draft 0.1?

Approved with unanimous consent.

1. [1336r](https://mentor.ieee.org/802.11/dcn/20/11-20-1336-05-00be-11be-spec-text-for-mlo-ba-share-and-extension-of-sn-space.docx)5 MLO BA: share and extension of SN space Liwen Chu [SP]

SP:

Do you support to incorporate the proposed draft text in 11-20/1336r5 into TGbe Draft 0.1?

Approved with unanimous consent.

1. [1292r6](https://mentor.ieee.org/802.11/dcn/20/11-20-1292-05-00be-pdt-mac-mlo-power-save-traffic-indication.docx) MLO Power Save Traffic Indication Minyoung Park [SP]

Discussion:

C: last sentence question. What is the purpose to use the recommended link?

A: this is based on Motion 106 from Abhi. Non-AP MLD uses single link for Beacon reception to save power. AP MLD recommend to non-AP MLD which link is recommended for receiving the buffered frames.

SP:

Do you support to incorporate the proposed draft text in 11-20/1292r6 into TGbe Draft 0.1?

Approved with unanimous consent.

1. [1395r10](https://mentor.ieee.org/802.11/dcn/20/11-20-1395-10-00be-pdt-mac-mlo-multi-link-channel-access-general-non-str.docx) Multi-Link-Channel-Access-General-Non-STR Matthew Fischer [SP]

Discussion:

C: the definition should not be normative text. It should refer to related normative subclause. The definition should be cleaned up.

C: concern on the definition on NSTR. The content should be moved to related normative subclause. The original definition is clearer.

A: the detail in the definition is addded to give the recipient more informaiton to decide which to do. This is based on the discussion in teleconference and offline discussion.

C: I am wondering whether we should consider the CCA.

A: minimum receive sensitivity is 20db less than ED. CCA is the combination of ED, minimum receive sensitivity etc.

C: the 3rd and 4th paragraph are contradicted with each other.

A: they don’t contradict.

C: they are not from the motion text.

A: we will do the SP about whether put the text in the draft.

C: remove receive minimum input from the contribution.

A: ok.

C: prefer simple definition. There is no motion related to the definition.

A: receive many comments that suggest more complex statement.

C:do you want to do separate SPs of the 3rd and 4th paragraphs (last two paragraphs)?

A: yes.

SP 1:

do you wish to keep 2nd from last paragraph?

”A STA that is affiliated with a non-AP MLD may transmit a frame on a link of one of its NSTR link pairs at the same time that another STA affiliated with the same non-AP MLD is not receiving a frame addressed to that receiving STA on the other link of the NSTR link pair, provided that the transmission meets other restrictions indicated in this subclause.”

29Y, 21N, 25A

SP 2:

do you wish to keep the last paragraph?

” A STA that is affiliated with a non-AP MLD and that transmits a frame on a link of one of its NSTR link pairs at the same time that another STA affiliated with the same non-AP MLD is receiving a frame on the other link of the NSTR link pair should ensure that the transmitted PPDU ends at the same time or earlier than the PPDU that is being recevied”

12Y, 41N, 27A

1. [1320r5](https://mentor.ieee.org/802.11/dcn/20/11-20-1320-04-00be-pdt-mac-mlo-multi-link-channel-access-capability-signaling.docx) Multi-link-channel-access-capability-signaling Yunbo Li

Discussion:

C: the last sentence of 1st paragraph duplicates with Matthew’s contribution. The contributions should be harmonized.

A: ok.

C: similar with the first commenter. The 3rd last paragraph seems to allow simultaneous transmission with NSTR.

A: it is not allowed. The paragraph refers to other paragraph which allows transmitting in one link and receiving in another link.

C: how dynamic about your dynamic STR capability? It is per TXOP capability?

A: agree that it should be clarified.

C: second part ofthe first paragraph is already coverred by Matthew’s contribution.

A: will check offline.

1. [1274r5](https://mentor.ieee.org/802.11/dcn/20/11-20-1274-04-00be-mac-pdt-mlo-ml-ie-structure.docx) ML-IE-Structure Abhishek Patil

Discussion:

C: P7, what is the meaning of ”Number of Supported Links”?

A: the links that the MLD can work on. It is not related to the radio.

C: Do you think we shuld put multi-link element in authentication frame?

A: I think so.

C: RNR element will be enough in DL. ML IE may not be needed.

A: With RNR, how do you know the number of supported links?

C: RNR will carry all the informaiton of the links.

A: no strong opinion of ”Number of Supported Links”. I can remove it.

C: comment of complete and partial indicaiton. There is no motion related to Complete Profile field.

A: sometimes partial profile is needed. Sometimes complete information is needed. We need clear indicaiton.

1. [1332r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1332-02-00be-pdt-mac-mlo-bss-parameter-update.docx) MLO BSS parameter update Ming Gan

Discussion:

C: we have no motion about how the change sequence will be carried when multi-BSSID is supported. The motion mentioned it as TBD.

A: ok.

C: in 3rd paragraph, another AP should be that AP.

A: agreed.

C: the length of Change Sequence should be TBD.

C: The motion doesn’t mention the Check Beacon field.

A: I can change the text to ”the Change Sequence field is TBD”.

C: the last paragraph should not be shall requirement. It is internal behavior.

A: it is copied from the motion.

1. [1333r1](https://mentor.ieee.org/802.11/dcn/20/11-20-1333-01-00be-pdt-mac-mlo-discovery-ml-ie-usage-rules-in-the-context-of-discovery.docx) ML IE usage/rules in the context of discovery Ming Gan

Discussion:

C: you should not say common informaiton field. Common infomation includes multiple fields.

A: ok.

C: the last paragraph should cover Beacon also per the motion.

A: other paragraph already covers the Beacon.

C: no.

C: the first sentence. The motion is ”when including in the Beacon frame the ML element should...”. You should use the motion text.

C: the last sentence should be removed. It is in ML element.

A: there is no motion about it.

1. [1407r4](https://mentor.ieee.org/802.11/dcn/20/11-20-1407-04-00be-pdt-mac-mlo-soft-ap-mld-operation.docx) Soft-AP-MLD-Operation Kaiying Lu

Discussion:

C: in the definition you should refer to a pair of links.

A: ok.

C: what do you mean by ”when the same physical device acts as non-AP MLD”?

A: change to ”with dot11softAPMLDActivated”.

The teleconference was adjourned at 01:00pm EDT

**Wednesday 23 Sept 2020, 10:00 AM– 01:00PM ET (Gbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (LG Electronics)

Secretary: Liwen Chu (NXP)

This meeting took place using a WebEx session.

**Introduction**

1. The Chair (Jeongki, LG) calls the meeting to order at 10:04am EDT. The Chair introduces himself and the Secretary, Liwen Chu (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. Nobody speaks up.
3. 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 [imam](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 Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com)) and Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com))

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

|  |  |  |  |
| --- | --- | --- | --- |
| TGbe (MAC) | 9/23 | AbidRabbu, Shaima' | Istanbul Medipol University; Vestel |
| TGbe (MAC) | 9/23 | Akhmetov, Dmitry | Intel Corporation |
| TGbe (MAC) | 9/23 | Asterjadhi, Alfred | Qualcomm Incorporated |
| TGbe (MAC) | 9/23 | Au, Kwok Shum | Huawei Technologies Co.,  Ltd |
| TGbe (MAC) | 9/23 | Avital, Ziv | MaxLinear |
| TGbe (MAC) | 9/23 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 9/23 | Bankov, Dmitry | IITP RAS |
| TGbe (MAC) | 9/23 | baron, stephane | Canon Research Centre France |
| TGbe (MAC) | 9/23 | Cepni, Gurkan | Apple, Inc. |
| TGbe (MAC) | 9/23 | chen, jindou | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/23 | CHERIAN, GEORGE | Qualcomm Incorporated |
| TGbe (MAC) | 9/23 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 9/23 | Choi, Jinsoo | LG ELECTRONICS |
| TGbe (MAC) | 9/23 | Chu, Liwen | NXP Semiconductors |
| TGbe (MAC) | 9/23 | Das, Dibakar | Intel Corporation |
| TGbe (MAC) | 9/23 | Das, Subir | Perspecta Labs Inc. |
| TGbe (MAC) | 9/23 | Derham, Thomas | Broadcom Corporation |
| TGbe (MAC) | 9/23 | de Vegt, Rolf | Qualcomm Incorporated |
| TGbe (MAC) | 9/23 | Ding, Baokun | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/23 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (MAC) | 9/23 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 9/23 | Ghosh, Chittabrata | Intel Corporation |
| TGbe (MAC) | 9/23 | Guo, Yuchen | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/23 | Han, Zhiqiang | ZTE Corporation |
| TGbe (MAC) | 9/23 | Handte, Thomas | Sony Corporation |
| TGbe (MAC) | 9/23 | Hervieu, Lili | Cable Television Laboratories Inc. (CableLabs) |
| TGbe (MAC) | 9/23 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (MAC) | 9/23 | Hong, Hanseul | WILUS Inc. |
| TGbe (MAC) | 9/23 | Hsu, Chien-Fang | MediaTek Inc. |
| TGbe (MAC) | 9/23 | Hu, Chunyu | Facebook |
| TGbe (MAC) | 9/23 | Huang, Guogang | Huawei |
| TGbe (MAC) | 9/23 | Huang, Lei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbe (MAC) | 9/23 | Huang, Po-Kai | Intel Corporation |
| TGbe (MAC) | 9/23 | Inohiza, Hirohiko | Canon |
| TGbe (MAC) | 9/23 | Inoue, Yasuhiko | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/23 | Ji, Chenhe | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/23 | Jiang, Jinjing | Apple, Inc. |
| TGbe (MAC) | 9/23 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbe (MAC) | 9/23 | Kedem, Oren | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/23 | Khan, Naseem | Leidos Engineering. LLC |
| TGbe (MAC) | 9/23 | Kim, Jeongki | LG ELECTRONICS |
| TGbe (MAC) | 9/23 | Kim, Sang Gook | LG ELECTRONICS |
| TGbe (MAC) | 9/23 | Kim, Sanghyun | WILUS Inc |
| TGbe (MAC) | 9/23 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/23 | Klein, Arik | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/23 | Klimakov, Andrey | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/23 | Ko, Geonjung | WILUS Inc. |
| TGbe (MAC) | 9/23 | Kondo, Yoshihisa | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 9/23 | Lalam, Massinissa | SAGEMCOM BROADBAND SAS |
| TGbe (MAC) | 9/23 | Li, Yiqing | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/23 | Lin, Wei | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/23 | Liu, Der-Zheng | Realtek Semiconductor Corp. |
| TGbe (MAC) | 9/23 | Liu, Jianfei | HUAWEI |
| TGbe (MAC) | 9/23 | Lorgeoux, Mikael | Canon Research Centre France |
| TGbe (MAC) | 9/23 | Lou, Hanqing | InterDigital, Inc. |
| TGbe (MAC) | 9/23 | Lu, kaiying | MediaTek Inc. |
| TGbe (MAC) | 9/23 | Lu, Liuming | ZTE Corporation |
| TGbe (MAC) | 9/23 | Ma, Mengyao | HUAWEI |
| TGbe (MAC) | 9/23 | Memisoglu, Ebubekir | Istanbul Medipol University; Vestel |
| TGbe (MAC) | 9/23 | Nezou, Patrice | Canon Research Centre France |
| TGbe (MAC) | 9/23 | Nguyen, An | DHS/CISA |
| TGbe (MAC) | 9/23 | Ozbakis, Basak | VESTEL |
| TGbe (MAC) | 9/23 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 9/23 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 9/23 | Petrick, Albert | InterDigital, Inc. |
| TGbe (MAC) | 9/23 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbe (MAC) | 9/23 | Rege, Kiran | Perspecta Labs |
| TGbe (MAC) | 9/23 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGbe (MAC) | 9/23 | Salman, Hanadi | Istanbul Medipol University; VESTEL |
| TGbe (MAC) | 9/23 | Sambasivan, Sam | AT&T |
| TGbe (MAC) | 9/23 | Seok, Yongho | MediaTek Inc. |
| TGbe (MAC) | 9/23 | Startsev, Ivan | IITP RAS |
| TGbe (MAC) | 9/23 | SUH, JUNG HOON | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/23 | Sun, Bo | ZTE Corporation |
| TGbe (MAC) | 9/23 | Sun, Li-Hsiang | InterDigital, Inc. |
| TGbe (MAC) | 9/23 | Sun, Yanjun | Qualcomm Incorporated |
| TGbe (MAC) | 9/23 | SURACI, FRANK | U.S. Department of Homeland Security |
| TGbe (MAC) | 9/23 | THOUMY, Francois | Canon Research Centre France |
| TGbe (MAC) | 9/23 | Torab Jahromi, Payam | Facebook |
| TGbe (MAC) | 9/23 | Verenzuela, Daniel | Sony Corporation |
| TGbe (MAC) | 9/23 | Wang, Chao Chun | MediaTek Inc. |
| TGbe (MAC) | 9/23 | Wang, Huizhao | Quantenna Communications, Inc. |
| TGbe (MAC) | 9/23 | Wang, Lei | Huawei R&D USA |
| TGbe (MAC) | 9/23 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 9/23 | Wang, Xiaofei | InterDigital, Inc. |
| TGbe (MAC) | 9/23 | Wu, Tianyu | Apple, Inc. |
| TGbe (MAC) | 9/23 | Wullert, John | Perspecta Labs |
| TGbe (MAC) | 9/23 | Yang, Bo | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/23 | Yang, Jay | Nokia |
| TGbe (MAC) | 9/23 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 9/23 | Yee, James | MediaTek Inc. |
| TGbe (MAC) | 9/23 | yi, yongjiang | Futurewei Technologies |
| TGbe (MAC) | 9/23 | Yu, Jian | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/23 | Zein, Nader | NEC Laboratories Europe |
| TGbe (MAC) | 9/23 | Zhou, Yifan | Huawei Technologies Co., Ltd |

1. The Chair reminds that the agenda can be found in 11-20/1269r10. The Chair asked for the comments bout the agenda. Two SP (for 11-20/1274, 11-20/1320) are removed per the requests. The agenda was approved.

**Submissions**

1. [1395r12](https://mentor.ieee.org/802.11/dcn/20/11-20-1371-00-00be-pdt-phy-subcarriers-and-resource-allocation-for-wideband.docx) Multi-Link-Channel-Access-General-Non-STR Matthew Fischer [SP]

Discussion:

C: This is PHY related topic and should be discussed in joint meeting.

A: the motion will be in joint session. The PHY guys can review it.

C: Why the maximum Tx power is specified?

A: this NSTR link capability will be used by the other device. Under certain condition, a pair of link will be NSTR or STR link pair.

SP:

Do you support to incorporate the proposed draft text in 11-20/1395r12 into TGbe Draft 0.1?

29Y, 7N, 53A

1. [1332r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1332-02-00be-pdt-mac-mlo-bss-parameter-update.docx) MLO BSS parameter update Ming Gan [SP]

Discussion:

C: ”when critical update to any element occurs” should be changed to ”when critical update occurs”.

A: the text follows the baseline.

C: the text doesn’t work for non-transmitted BSSID.

C: lots of changes discussed in previous meeting are not adpoted. Agree with previous comments. Probe response also includes critical update. The text should cover it.

SP is deferred

1. [1333r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1333-01-00be-pdt-mac-mlo-discovery-ml-ie-usage-rules-in-the-context-of-discovery.docx) ML IE usage/rules in the context of discovery Ming Gan [SP]

SP:

Do you support to incorporate the proposed draft text in 11-20/1333r2 into TGbe Draft 0.1?

Approved with unanimous consent

1. [1407r6](https://mentor.ieee.org/802.11/dcn/20/11-20-1407-05-00be-pdt-mac-mlo-soft-ap-mld-operation.docx) Soft-AP-MLD-Operation Kaiying Lu [SP]

Discussion:

C: the definition can’t be mapped to the motion. What is the relation between AP MLD and non-AP MLD?

A: they share the same antenna connector.

Continue the discussions about the definition....

SP is deferred

1. [1409r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1409-02-00be-pdt-mac-sta-id.docx) STA-ID Yongho Seok

Discussion:

C: change ”is set to” to ”shall be set to”.

A: ok.

C: why the second paragraph is deleted?

A: I received the comment that we don’t have related text in SFD. I can add it back.

C: What does the element mean?

A: it is from the baseline.

SP:

Do you support to incorporate the proposed draft text in 11-20/1409r3 into TGbe Draft 0.1?

Approved with unanimous consent

1. [1434r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1434-02-00be-pdt-for-ns-ep-priority-access.docx) NS/EP Priority Access Subir Das

Discussion:

C: the document should be in line with the motion. Some are not coverred by the motions. Some motions are not coverred by the text.

A: please provide your further detail comments that we can incorporate.

C: there is no EHT in your text. Are you assuming that this is applied to EHT anf non-EHT device?

A: Yes.

SP is deferred.

1. [1408r0](https://mentor.ieee.org/802.11/dcn/20/11-20-1408-00-00be-pdt-mac-txop-preamble-puncturing.docx) TXOP-Preamble-Puncturing Yanjun Sun

Discussion:

C: Do we need the note?

A: we don’t have term. I am open to delete it.

C: is this static or dynamic one?

A: it is open.

C: avoid is weak. Please change ”avoid” to ”not transmit”.

A: ok.

C: the inactive channel announcement should be in line with NDPA.

A: we can merge them later.

C: do you want to define the new parameter.

A: yes. We need to cover wider BW, e.g. 320MHz.

SP is deferred.

1. [1440r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1440-02-00be-pdt-mac-mlo-enhanced-multi-link-operation-mode.docx) MLO enhanced multi-link operation mode Young Hoon Kwon

Discussion:

C: Minyoung’s motion is for single radio. It doesn’t cover the last paragraph.

A: I have different opinion.

Continuing the debate about this comment...

SP is deferred.

1. [1445r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1445-02-00be-pdt-mac-mlo-setup-security.docx) MLO-Setup-Security Duncan Ho

Discussion:

C: we should change the 4-way handshake. GTK should be done in each link.

A: the issue with it is the timing concern.

Continuing the debate about this comment...

SP is deferred.

1. [1411r1](https://mentor.ieee.org/802.11/dcn/20/11-20-1411-01-00be-pdt-mac-mlo-group-addressed-data-frame.docx) Group addressed data delivery Kaiying Lu

Discussion:

C: the first paragraph is more in scope of channel access than group address operation. The second paragraph can’t guarantee loop prevention. We should avoid the retransmission back to the initiating MLD.

A: we want to let the initiating MLD to filter out the group-addressed frames. The text is exact from the motion.

C: if there is technical issue, should we discuss it?

A: you can prepare the presentation about it (TG chair).

C: we can move the last paragraph to the related subclause in the baseline.

C: we should separate the first paragraph to two: one for AP MLD behavior, another for non-AP MLD behavior.

SP is deferred.

1. [1431r0](https://mentor.ieee.org/802.11/dcn/20/11-20-1431-00-00be-proposed-draft-specification-for-individual-addressed-data-delivery-without-ba-negotiation.docx) MLO-TID mapping/Link management: Individual addressed data delivery without BA negotiation Po-Kai Huang

Discussion:

C: the retry limit text miss the successful case.

A: will check the baseline.

C: many redundacy with baseline.

A: I can combine this with baseline.

The teleconference was adjourned at 01:00pm EDT

**Thursday 24 Sept 2020, 07:00 PM– 10:00PM ET (Gbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (LG Electronics)

Secretary: Liwen Chu (NXP)

This meeting took place using a WebEx session.

**Introduction**

1. The Chair (Jeongki, LG) calls the meeting to order at 07:04pm EDT. The Chair introduces himself and the Secretary, Liwen Chu (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. Nobody speaks up.
3. 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 [imam](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 Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com)) and Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com))

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

|  |  |  |  |
| --- | --- | --- | --- |
| TGbe (MAC) | 9/24 | AbidRabbu, Shaima' | Istanbul Medipol University; Vestel |
| TGbe (MAC) | 9/24 | Abushattal, Abdelrahman | Istanbul Medipol university ;Vestel |
| TGbe (MAC) | 9/24 | Adachi, Tomoko | TOSHIBA Corporation |
| TGbe (MAC) | 9/24 | Asai, Yusuke | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/24 | Baek, SunHee | LG ELECTRONICS |
| TGbe (MAC) | 9/24 | baron, stephane | Canon Research Centre France |
| TGbe (MAC) | 9/24 | Cariou, Laurent | Intel Corporation |
| TGbe (MAC) | 9/24 | Carney, William | Sony Corporation |
| TGbe (MAC) | 9/24 | Chen, Na | MaxLinear Corp |
| TGbe (MAC) | 9/24 | Cheng, Paul | MediaTek Inc. |
| TGbe (MAC) | 9/24 | CHERIAN, GEORGE | Qualcomm Incorporated |
| TGbe (MAC) | 9/24 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 9/24 | Chu, Liwen | NXP Semiconductors |
| TGbe (MAC) | 9/24 | Das, Dibakar | Intel Corporation |
| TGbe (MAC) | 9/24 | Das, Subir | Perspecta Labs Inc. |
| TGbe (MAC) | 9/24 | de Vegt, Rolf | Qualcomm Incorporated |
| TGbe (MAC) | 9/24 | Ding, Baokun | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/24 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (MAC) | 9/24 | Fang, Yonggang | ZTE TX Inc |
| TGbe (MAC) | 9/24 | Fischer, Matthew | Broadcom Corporation |
| TGbe (MAC) | 9/24 | Ghosh, Chittabrata | Intel Corporation |
| TGbe (MAC) | 9/24 | Guo, Yuchen | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/24 | Haider, Muhammad Kumail | Facebook |
| TGbe (MAC) | 9/24 | Hamilton, Mark | Ruckus/CommScope |
| TGbe (MAC) | 9/24 | Han, Zhiqiang | ZTE Corporation |
| TGbe (MAC) | 9/24 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (MAC) | 9/24 | Hong, Hanseul | WILUS Inc. |
| TGbe (MAC) | 9/24 | Hsu, Chien-Fang | MediaTek Inc. |
| TGbe (MAC) | 9/24 | Hu, Chunyu | Facebook |
| TGbe (MAC) | 9/24 | Huang, Guogang | Huawei |
| TGbe (MAC) | 9/24 | Huang, Po-Kai | Intel Corporation |
| TGbe (MAC) | 9/24 | Inoue, Yasuhiko | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/24 | Jang, Insun | LG ELECTRONICS |
| TGbe (MAC) | 9/24 | Jiang, Jinjing | Apple, Inc. |
| TGbe (MAC) | 9/24 | Jung, hyojin | Hyundai Motor Company |
| TGbe (MAC) | 9/24 | Kain, Carl | USDoT |
| TGbe (MAC) | 9/24 | Kandala, Srinivas | SAMSUNG |
| TGbe (MAC) | 9/24 | Khan, Naseem | Leidos Engineering. LLC |
| TGbe (MAC) | 9/24 | kim, namyeong | LG ELECTRONICS |
| TGbe (MAC) | 9/24 | Kim, Sang Gook | LG ELECTRONICS |
| TGbe (MAC) | 9/24 | Kim, Sanghyun | WILUS Inc |
| TGbe (MAC) | 9/24 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/24 | Kneckt, Jarkko | Apple, Inc. |
| TGbe (MAC) | 9/24 | Ko, Geonjung | WILUS Inc. |
| TGbe (MAC) | 9/24 | Kondo, Yoshihisa | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 9/24 | Kwon, Young Hoon | NXP Semiconductors |
| TGbe (MAC) | 9/24 | Le Houerou, Brice | Canon Research Centre France |
| TGbe (MAC) | 9/24 | Levy, Joseph | InterDigital, Inc. |
| TGbe (MAC) | 9/24 | Li, Yiqing | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/24 | Lin, Wei | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/24 | Lu, kaiying | MediaTek Inc. |
| TGbe (MAC) | 9/24 | Lu, Liuming | ZTE Corporation |
| TGbe (MAC) | 9/24 | Ma, Mengyao | HUAWEI |
| TGbe (MAC) | 9/24 | Mehrnoush, Morteza | Facebook |
| TGbe (MAC) | 9/24 | Monajemi, Pooya | Cisco Systems, Inc. |
| TGbe (MAC) | 9/24 | NANDAGOPALAN, SAI SHANKAR | Cypress Semiconductor Corporation |
| TGbe (MAC) | 9/24 | Naribole, Sharan | SAMSUNG |
| TGbe (MAC) | 9/24 | Nguyen, An | DHS/CISA |
| TGbe (MAC) | 9/24 | Ouchi, Masatomo | Canon |
| TGbe (MAC) | 9/24 | Park, Minyoung | Intel Corporation |
| TGbe (MAC) | 9/24 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 9/24 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 9/24 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbe (MAC) | 9/24 | Rege, Kiran | Perspecta Labs |
| TGbe (MAC) | 9/24 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGbe (MAC) | 9/24 | Sambasivan, Sam | AT&T |
| TGbe (MAC) | 9/24 | Singh, Ray | Perspecta labs |
| TGbe (MAC) | 9/24 | SU, HONGJIA | Huawei Technologies Co.,  Ltd |
| TGbe (MAC) | 9/24 | Sun, Li-Hsiang | InterDigital, Inc. |
| TGbe (MAC) | 9/24 | Sun, Yanjun | Qualcomm Incorporated |
| TGbe (MAC) | 9/24 | SURACI, FRANK | U.S. Department of Homeland Security |
| TGbe (MAC) | 9/24 | Torab Jahromi, Payam | Facebook |
| TGbe (MAC) | 9/24 | Wang, Chao Chun | MediaTek Inc. |
| TGbe (MAC) | 9/24 | Wang, Lei | Huawei R&D USA |
| TGbe (MAC) | 9/24 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 9/24 | Wang, Xiaofei | InterDigital, Inc. |
| TGbe (MAC) | 9/24 | Wullert, John | Perspecta Labs |
| TGbe (MAC) | 9/24 | Yang, Bo | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/24 | Yang, Jay | Nokia |
| TGbe (MAC) | 9/24 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 9/24 | Yee, James | MediaTek Inc. |
| TGbe (MAC) | 9/24 | yi, yongjiang | Futurewei Technologies |
| TGbe (MAC) | 9/24 | Yukawa, Mitsuyoshi | Canon, Inc. |
| TGbe (MAC) | 9/24 | Zeng, Yan | Huawei Technologies Co.,  Ltd |
| TGbe (MAC) | 9/24 | Zuo, Xin | Tencent |

1. The Chair reminds that the agenda can be found in 11-20/1269r12. The Chair asked for the comments bout the agenda. 1440 was deferred per the request. Several revisions changes were requsted. 1255 was added per the request. The updated agenda was approved.

**Submissions**

1. [1320r6](https://mentor.ieee.org/802.11/dcn/20/11-20-1320-05-00be-pdt-mac-mlo-multi-link-channel-access-capability-signaling.docx) Multi-link-channel-access-capability-signaling Yunbo Li [SP]

Discussion:

C: If the limitation related sentence is removed, ”the signaling is TBD” open the door for everything.

A: will be added back with some modification.

C: many TBDs exist. Why so many inconsistant terms?

A: we don’t have motions for those TBDs.

C: are TBD Capability element and TBD element same or different?

A: currently there is not motion about it. Want to keep it open.

C: the capability doesn’t change.

A: STR capability may change.

C: So that should be operating parameter.

C: agreed with Alfred. We converged to pair-wise STR/NSTR operation. This may not be good for the case of MLD with many links.

C: there are so many updates. The SP should be deferred.

C: can we remove single radio MLD?

Continues the discussion whether single radio MLD should be removed or not...

SP (for the updated text in R7):

Do you support to incorporate the proposed draft text in 11-20/1320r7 into TGbe Draft 0.1?

32Y,12N,27A

1. [1274r6](https://mentor.ieee.org/802.11/dcn/20/11-20-1274-05-00be-mac-pdt-mlo-ml-ie-structure.docx) ML-IE-Structure Abhishek Patil [SP]

Discussion:

C: the link ID utility is not clear to me.

A: ML IE may carry multiple per link prifiles. The receiver needs know which per link profile is for which link.

C: can link ID be changed on both sides?

A: AP MLD decides the link ID.

C: Please remove the items that have no motions to support, e.g. ML element in Authentication frame.

C: ML element should be optional in Beacon.

A: change it to TBD.

C: MLD MAC address shouldn’t be optional in ML element.

A: we can leave is as is. If there is related motion in the future, we can change it.

C: complete indication should be removed sinec no motion supports it.

A: the feedback from the group is that we need it.

C: I prefer to remove link ID from ML element sine no motion supports it.

A: prefer to keep it.

SP (for updated text in R7):

Do you support to incorporate the proposed draft text in 11-20/1274r7 into TGbe Draft 0.1?

25Y, 23N, 27A

1. [1332r4](https://mentor.ieee.org/802.11/dcn/20/11-20-1332-02-00be-pdt-mac-mlo-bss-parameter-update.docx) MLO BSS parameter update Ming Gan [SP]

Discussion:

C: same comments as before. Non-transmitted BSSID as part of MLD is missing

A: the motion doesn’t cover it.

C: multiple frames is not right since ths change sequence increases once when the critical update occurs.

A: the text is in line with baseline.

C: we shouldn’t copy the error from the baseline.

SP:

Do you support to incorporate the proposed draft text in 11-20/1332r4 into TGbe Draft 0.1?

25Y, 20N, 29A

C: (question to TG chair) my contribution is in line with motions. But many people voted no. Can TG chair gives the guideline?

A: the general rule is to biuld consensus. There are several contributions in today’s meeting without consensus. Those contributions should try before next Monday.

C: (question to TG chair) what is the time allocated to each SP.

A: each SP should have about 20 minutes.

1. [1407r8](https://mentor.ieee.org/802.11/dcn/20/11-20-1407-05-00be-pdt-mac-mlo-soft-ap-mld-operation.docx) Soft-AP-MLD-Operation Kaiying Lu [SP]

Discussion:

C: the definiton is based on MIB variable. Do you have behavior description for soft AP in this contribution?

A: the detail will be added later.

C: soft AP definition seems talk about a device with two parts: non-AP MLD and soft AP MLD.

A: we want to clarify that two logical MLDs are in a devcie.

C: are two logicl MLDs required to be active at the same time?

A: no. Whether the two MLDs are active at the same time is up to deployment.

C: how to differentiate soft AP from mesh STA?

A: here we don’t talk about easy mesh.

Continue the discussion of whether the defination text means that soft AP and non-AP MLD in a device at the same time...

SP:

Do you support to incorporate the proposed draft text in 11-20/1407r8 into TGbe Draft 0.1?

29Y, 20N, 27A

SP (for updated text in R9 where the soft AP definition is TBD):

Do you support to incorporate the proposed draft text in 11-20/1407r9 into TGbe Draft 0.1?

30Y, 26N, 22A

1. [1434r4](https://mentor.ieee.org/802.11/dcn/20/11-20-1434-02-00be-pdt-for-ns-ep-priority-access.docx) NS/EP Priority Access Subir Das [SP]

Discussion:

C: do you assume all EHT APs will support it?

A: it is optional to EHT AP.

C: we should limit it to 11be. The authentication is out the scope of IEEE. 11be should just define Action frames.

A: You are right for your last comment. Any device supporting this feature can activate it.

C: How about my first comment.

A: we have some discussion. We thought it is good idea to open the door for the device other than EHT STA. If the group think the text should be in clause 33, we are also fine.

C: thanks for address my many concerns. I agreed with the previous commenter. We should limit the scope to EHT feature.

A: same reply to the previous commenter.

C: same comment as the previous two commenters.

A: I can move the text to subclause 33.

SP was deferred

1. [1408r2](https://mentor.ieee.org/802.11/dcn/20/11-20-1408-00-00be-pdt-mac-txop-preamble-puncturing.docx) TXOP-Preamble-Puncturing Yanjun Sun [SP]

SP:

Do you support to incorporate the proposed draft text in 11-20/1408r2 into TGbe Draft 0.1?

Approved with unanimous consent

C: can we have SP other than DPTs before DPTs’SPs?

A: (TG chair) the priofity will be given to DPT contributions since next Monday is the last chance for approving the text for D0.1.

C: if the text is not approved by SP, the text will not be D0.1?

A: (TG chair) yes.

The teleconference was adjourned at 10:00pm EDT

**Monday 28 Sept 2020, 07:00 PM– 10:00PM ET (Gbe MAC ad hoc conference call)**

Chairman: Jeongki Kim (LG Electronics)

Secretary: Liwen Chu (NXP)

This meeting took place using a WebEx session.

**Introduction**

1. The Chair (Jeongki, LG) calls the meeting to order at 10:04am EDT. The Chair introduces himself and the Secretary, Liwen Chu (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. Nobody speaks up.
3. 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 [imam](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 Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com)) and Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com))

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

|  |  |  |  |
| --- | --- | --- | --- |
| TGbe (MAC) | 9/28 | Abouelseoud, Mohamed | Sony Corporation |
| TGbe (MAC) | 9/28 | Adachi, Tomoko | TOSHIBA Corporation |
| TGbe (MAC) | 9/28 | Akhmetov, Dmitry | Intel Corporation |
| TGbe (MAC) | 9/28 | Aldana, Carlos | Facebook |
| TGbe (MAC) | 9/28 | Asai, Yusuke | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/28 | Au, Kwok Shum | Huawei Technologies Co.,  Ltd |
| TGbe (MAC) | 9/28 | Carney, William | Sony Corporation |
| TGbe (MAC) | 9/28 | CHAN, YEE | Facebook |
| TGbe (MAC) | 9/28 | Chen, Na | MaxLinear Corp |
| TGbe (MAC) | 9/28 | Cheng, Paul | MediaTek Inc. |
| TGbe (MAC) | 9/28 | CHERIAN, GEORGE | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| TGbe (MAC) | 9/28 | Chu, Liwen | NXP Semiconductors |
| TGbe (MAC) | 9/28 | Coffey, John | Realtek Semiconductor Corp. |
| TGbe (MAC) | 9/28 | Das, Dibakar | Intel Corporation |
| TGbe (MAC) | 9/28 | Das, Subir | Perspecta Labs Inc. |
| TGbe (MAC) | 9/28 | de Vegt, Rolf | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Ding, Baokun | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/28 | Dong, Xiandong | Xiaomi Inc. |
| TGbe (MAC) | 9/28 | Fang, Yonggang | ZTE TX Inc |
| TGbe (MAC) | 9/28 | Haider, Muhammad Kumail | Facebook |
| TGbe (MAC) | 9/28 | Hamilton, Mark | Ruckus/CommScope |
| TGbe (MAC) | 9/28 | Han, Jonghun | SAMSUNG |
| TGbe (MAC) | 9/28 | Han, Zhiqiang | ZTE Corporation |
| TGbe (MAC) | 9/28 | Ho, Duncan | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Hsu, Chien-Fang | MediaTek Inc. |
| TGbe (MAC) | 9/28 | Hu, Chunyu | Facebook |
| TGbe (MAC) | 9/28 | Huang, Guogang | Huawei |
| TGbe (MAC) | 9/28 | Huang, Po-Kai | Intel Corporation |
| TGbe (MAC) | 9/28 | Huang, Xiaolong | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Inohiza, Hirohiko | Canon |
| TGbe (MAC) | 9/28 | Inoue, Yasuhiko | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/28 | Ji, Chenhe | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/28 | Jiang, Jinjing | Apple, Inc. |
| TGbe (MAC) | 9/28 | Kakani, Naveen | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Kedem, Oren | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/28 | Khan, Naseem | Leidos Engineering. LLC |
| TGbe (MAC) | 9/28 | kim, namyeong | LG ELECTRONICS |
| TGbe (MAC) | 9/28 | Kim, Sang Gook | LG ELECTRONICS |
| TGbe (MAC) | 9/28 | Kim, Yongho | Korea National University of Transportation |
| TGbe (MAC) | 9/28 | Kishida, Akira | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/28 | Ko, Geonjung | WILUS Inc. |
| TGbe (MAC) | 9/28 | Kondo, Yoshihisa | Advanced Telecommunications Research Institute International (ATR) |
| TGbe (MAC) | 9/28 | Kwon, Young Hoon | NXP Semiconductors |
| TGbe (MAC) | 9/28 | Li, Yiqing | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/28 | Li, Yunbo | Huawei Technologies Co., Ltd |
| TGbe (MAC) | 9/28 | Lin, Wei | Huawei Technologies Co. Ltd |
| TGbe (MAC) | 9/28 | Liu, Jianfei | HUAWEI |
| TGbe (MAC) | 9/28 | Lu, kaiying | MediaTek Inc. |
| TGbe (MAC) | 9/28 | Lu, Liuming | ZTE Corporation |
| TGbe (MAC) | 9/28 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbe (MAC) | 9/28 | Ma, Mengyao | HUAWEI |
| TGbe (MAC) | 9/28 | Monajemi, Pooya | Cisco Systems, Inc. |
| TGbe (MAC) | 9/28 | Nezou, Patrice | Canon Research Centre France |
| TGbe (MAC) | 9/28 | Otani, Hanae | Nippon Telegraph and Telephone Corporation (NTT) |
| TGbe (MAC) | 9/28 | Ouchi, Masatomo | Canon |
| TGbe (MAC) | 9/28 | Park, Minyoung | Intel Corporation |
| TGbe (MAC) | 9/28 | Patil, Abhishek | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| TGbe (MAC) | 9/28 | Petrick, Albert | InterDigital, Inc. |
| TGbe (MAC) | 9/28 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Rege, Kiran | Perspecta Labs |
| TGbe (MAC) | 9/28 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGbe (MAC) | 9/28 | Salman, Hanadi | Istanbul Medipol University; VESTEL |
| TGbe (MAC) | 9/28 | Sambasivan, Sam | AT&T |
| TGbe (MAC) | 9/28 | Sandhu, Shivraj | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | Seok, Yongho | MediaTek Inc. |
| TGbe (MAC) | 9/28 | Sevin, Julien | Canon Research Centre France |
| TGbe (MAC) | 9/28 | Singh, Ray | Perspecta labs |
| TGbe (MAC) | 9/28 | Sun, Li-Hsiang | InterDigital, Inc. |
| TGbe (MAC) | 9/28 | Sun, Yanjun | Qualcomm Incorporated |
| TGbe (MAC) | 9/28 | SURACI, FRANK | U.S. Department of Homeland Security |
| TGbe (MAC) | 9/28 | Torab Jahromi, Payam | Facebook |
| TGbe (MAC) | 9/28 | Wang, Chao Chun | MediaTek Inc. |
| TGbe (MAC) | 9/28 | Wang, Lei | Huawei R&D USA |
| TGbe (MAC) | 9/28 | Wang, Qi | Apple, Inc. |
| TGbe (MAC) | 9/28 | Wullert, John | Perspecta Labs |
| TGbe (MAC) | 9/28 | Yang, Bo | Huawei Technologies Co. Ltd |
| 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 | Futurewei Technologies |
| TGbe (MAC) | 9/28 | Yukawa, Mitsuyoshi | Canon, Inc. |
| TGbe (MAC) | 9/28 | Zou, Tristan | Qualcomm Incorporated |

1. The Chair reminds that the agenda can be found in 11-20/1269r14. The Chair asked for the comments bout the agenda. Several request were made to update the revision numbers. The updated agenda was approved witht the updated revision numbers.

**Submissions**

1. [1440r6](https://mentor.ieee.org/802.11/dcn/20/11-20-1440-04-00be-pdt-mac-mlo-enhanced-multi-link-operation-mode.docx) MLO enhanced multi-link operation mode Young Hoon Kwon [SP]

Discussion:

C: change ”suppoted” to ”support”

A: ok.

C: you miss one of my comment about including Nss and Nsts. Nsts shouldn’t be there since EHT will not include STBC.

A: STBC may still be used in HE PPDU.

C: but the capability announcement for Tx and Rx in 11ax is based on Nss.

A: ok I will change to Nss.

SP (for updated text in R7):

Do you support to incorporate the proposed draft text in 11-20/1440r7 into TGbe Draft 0.1?

Approved with unanimous consent

1. [1445r5](https://mentor.ieee.org/802.11/dcn/20/11-20-1445-03-00be-pdt-mac-mlo-setup-security.docx) MLO-Setup-Security Duncan Ho [SP]

Discussion:

C: In CCM originator processing subclause, why GTK is listed here?

A: broadcast can also use CCM.

C: broadcast will use per-link GTK.

A: I see your point. Will fix it.

C: GTKSA shouldn’t be deleted since the current GTKSA text is for AP not affiliated with AP MLD.

A: will fix it.

SP (for updated text in R6):

Do you support to incorporate the proposed draft text in 11-20/1445r6 into TGbe Draft 0.1?

Approved with unanimous consent

1. [1411r4](https://mentor.ieee.org/802.11/dcn/20/11-20-1411-03-00be-pdt-mac-mlo-group-addressed-data-frame.docx) Group addressed data delivery Kaiying Lu [SP]

Discussion:

C: the last sentence in the document is technically wrong. We can fix it in the later round.

SP:

Do you support to incorporate the proposed draft text in 11-20/1411r4 into TGbe Draft 0.1?

Approved with unanimous consent

1. [1431r5](https://mentor.ieee.org/802.11/dcn/20/11-20-1431-03-00be-proposed-draft-specification-for-individual-addressed-data-delivery-without-ba-negotiation.docx) MLO-TID mapping/Link management: Individual addressed data delivery without BA negotiation Po-Kai Huang [SP]

Discussion:

C: ”until retry limit is met” is not enough.

A: this sentence only talk about unsuccessful case.

C: the text is not in line with the baseline.

A: ok, will fix it by adding successful delivery case.

C: want to confirm this is applied to frame transmission with BA agreement.

A: these two are not same in baseline. Will fix it in the next round.

C: destinated MLD address is not right. It should be MLD address affiliated with Addr 1 (Addr2) in the received frame (transmitted frame).

A: will fix it.

SP(for updated text in R6):

Do you support to incorporate the proposed draft text in 11-20/1431r6 into TGbe Draft 0.1?

Approved with unanimous consent

1. [1320r8](https://mentor.ieee.org/802.11/dcn/20/11-20-1320-07-00be-pdt-mac-mlo-multi-link-channel-access-capability-signaling.docx) Multi-link-channel-access-capability-signaling Yunbo Li [SP]

Discussion:

C: 3rd paragraph, agreed you don’t want Action frame. The language is too loose. I put my suggestion in chat window.

A: some people have concern abouting updating the capability.

C: you can put the note in the motion back where the how often to make the change and how quick that the change takes effect are coverred.

A: people have concern to the original note.

C: we should either clarify all the TBDs or keep the motion text.

A: ok, will add the the switching delay for the TBD.

SP(for updated text in R9):

Do you support to incorporate the proposed draft text in 11-20/1320r9 into TGbe Draft 0.1?

Approved with unanimous consent

1. [1274r8](https://mentor.ieee.org/802.11/dcn/20/11-20-1274-07-00be-mac-pdt-mlo-ml-ie-structure.docx) ML-IE-Structure Abhishek Patil [SP]

Discussion:

C: You may not need non-ML Probe Request.

A: this claify two Probe Request.

C: complete or partial ML Probe Requesnse is not coverred by the motion. The ”ML” should be deleted.

A: change it to ”following the rules in 33.3.2.2 (ML Probing)”.

SP(for updated text in R9):

Do you support to incorporate the proposed draft text in 11-20/1274r9 into TGbe Draft 0.1?

Approved with unanimous consent

1. [1332r5](https://mentor.ieee.org/802.11/dcn/20/11-20-1332-04-00be-pdt-mac-mlo-bss-parameter-update.docx) MLO BSS parameter update Ming Gan [SP]

Discussion:

C: RNR will include Change Sequence field. You don’t need to mention it here.

A: the name is already used in baseline that may be different from the name here.

C: We can delete the sentence.

A: It follows the motion. I can use the sentence ”the name and the foramt is TBD”.

A: I put a note about the TBD for Change Sequence of non-transmitted BSSID AP and APs affiliated with non-transmitted BSSID AP.

C: Do you have some technical concern, or just want to reflect the motion?

A: for non-transmitted BSSID AP and APs affiliated with non-transmitted BSSID AP, various methods can be used.

C: we do want to carry the change sequence of non-transmitted BSSID AP and APs affiliated with non-transmitted BSSID AP. I think the note in the motion aleady imply it althorugh you may have other method to carry it. You may run SP about the two options.

A: I would like to put TBD now, and submit my contribution.

Contimue the discussion about the comment...

SP #1

Do you support the following text

If an AP within an AP MLD is transmitted BSSID in a Multiple BSSID set, the AP shall include in the the Beacon and Probe Response frames it transmits a Change Sequence field for each of other APs in the same AP MLD as a nontransmitted BSSID in the same multiple BSSID set as the AP.

27Y,30N,24A

SP #2 (for updated text in R6 by removing the text failed in SP #1):

Do you support to incorporate the proposed draft text in 11-20/1332r6 into TGbe Draft 0.1?

Approved with unanimous consent

1. [1407r11](https://mentor.ieee.org/802.11/dcn/20/11-20-1407-09-00be-pdt-mac-mlo-soft-ap-mld-operation.docx) Soft-AP-MLD-Operation Kaiying Lu [SP]

Discussion:

C: question to subclause 33, MIB varialbe should include NSTR.

A: NSTR soft AP should support soft AP, so the MIB variable doesn’t include NSTR.

C: I don’t understand why you emphisize non-AP MLD in the same devcie as soft AP MLD. I prefer option 2.

A: option 1 is in line with the passed motion.

C: I don’t think battery powered make sense for soft AP. Soft AP can be wall charged.

A: I understand your concernt. I can add the other charesteristics TBD in the definition.

C: ”other charesteristics TBD” open the door for all the possibilities.

A: I can do SPs for with and without ”other charesteristics TBD”.

C: it is not clear whether the other features of AP requrement are mandatory for soft AP or not.

SP #1:

Do you support to incorporate the proposed draft text (only including Option 1) in 11-20/1407r11 into TGbe Draft 0.1?

50Y, 29N, 24A

SP #2 (updated text in R12 by removing option 1):

Do you support to incorporate the proposed draft text (only including Option 2) in 11-20/1407r11 into TGbe Draft 0.1?

45Y, 27N, 18A

1. [1434r5](https://mentor.ieee.org/802.11/dcn/20/11-20-1434-04-00be-pdt-for-ns-ep-priority-access.docx) NS/EP Priority Access Subir Das [SP]

Discussion:

C: do we need mention EHT STA and EHT AP?

A: it implies EHT STA and EHT AP in this clause.

SP (updated text in R6 by removing TBD before EHT Capability element):

Do you support to incorporate the proposed draft text in 11-20/1434r6 into TGbe Draft 0.1?

Approved with unanimous consent

1. [1255r5](https://mentor.ieee.org/802.11/dcn/20/11-20-1434-04-00be-pdt-for-ns-ep-priority-access.docx) Laurent Cariou [SP]

Discussion:

C: it seems the second bullet in the first paragraph is not needed.

A: We should keep it.

C: thanks the new version addressed my concerns.

SP:

Do you support to incorporate the proposed draft text in 11-20/1255r5 into TGbe Draft 0.1?

Approved with unanimous consent

The chair annoucned that Edward will incorporate the text staw polled today, the POCs please do the review.

The teleconference was adjourned at 10:00pm EDT