IEEE P802.11  
Wireless LANs

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| Minutes for TGbe MAC Ad-Hoc meeting in September 7-9 2022 | | | | |
| Date: 2022-09-07 | | | | |
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|  |  |  |  |  |

Abstract

This document contains the meeting minutes for the TGbe MAC ad hoc meetings in September 7- 9 2022.

Revisions:

* Rev0: Added the minute from the teleconference held on September 7 2022.

**September 7, 2022, AM1 09:00 – 10:30 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 09:02 PT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno).
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))
5. The Chair asked whether there is comment about agenda in 11-22/1421r4. The agenda was approved.

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

**Submissions**

1. [1335r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1335-01-00be-cr-for-cids-related-to-group-addressed-frame-reception-in-emlsr-nstr.docx) CR for Group-addr. frame RX in EMLSR/NSTR Vishnu Ratnam [13C-Ctd. 10’]

Discussion:

C: why do we need EMLSR transission delay for beacon reception?

C:listening operation already performs CCA. Why do you need ?

A: you have to process the beaon frame or MAC header. The minimum requirement is at least processing the initial control frames.

C: page 10, group link notificatin frame is optional feature, if you need shall, you can add the MIB variable.

A: we are going through the first 3 CIDs. We can go with it later.

C: if you want to limit the operations to EMLSR, AP shall buffer ....

C: why do you consider only non-GCR-SP gropu address?

A: GCR is scheduled at scheduled time.

C: non-AP MLD can decode any non-HT duplicated PPDU.

A: the receiver does not need to decode whole MAC frame, but just check MAC header like NAV.

C: non-AP STA can process beacon or other frame. It depends on the capability of the receiver.

A: But it does not need to be requirement for EMLSR STAs.

C: NAV information can be processed by the STA.

A: No problem for that operation now.

C:

1. [1255r6](https://mentor.ieee.org/802.11/dcn/22/11-22-1255-03-00be-resolution-of-cids-in-clauses-3-1-lb266.docx) Resolution of CIDs in clauses 3.1 John Wullert [15C-13GT 20’]

Discussion:

C: 11172, I agree with Joseph.

C: what is link setup? Multi-link setup? We don’t use link setup.

A: Multi-link setup looks better.

C: involve changing operating mode from... would be better.

C: Definition of reported AP?

C: AP reachability is defined in BSSID, operating class and channel number. This is per AP element. You add new term. This terminology is not used. BSSID is for AP. Not AP MLD MAC address. I suggest to reject this comment.

C: For reporting AP, we don’t need to change or affiliated AP.

SP: Do you support to accept the resolution in 11-22/1255r7 for the following CIDs?

11082, 11083, 10511, 10512, 11172, 10184, 10186, 10185, 10187, 11473, 11474, 11475, 10188, 10189, 10190, 10513, 11476, 11477

No objection

1. [1344r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1344-00-00be-lb266-cr-for-cids-related-to-35-3-11.docx) LB266 CR for CIDs related to 35.3.11 Laurent Cariou[37C-20GT 30’]
2. [1202r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1202-02-00be-reducing-the-size-of-ml-traffic-indication-element.docx) Reducing the size of ML traffic ind. IE Vishnu Ratnam [1C Q&A]

Discussion:

C: There are some comments related to this CID. I’m still working on them. I will share it next week probably.

C: This scheme add more complexity. Let’s see what Minyoung has.

C: You can consider this CID with other CIDs.

1. [1321r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1321-01-00be-cr-reducing-size-of-ml-traffic-indication.docx) CR-reducing-size-of-ML-Traffic-Indication Xiangxin Gu [1C 10’]

Author suggest to add AID element in TID to link mapping request or response frame.

Discussion:

C: AID reassignment increases the AP’s implementation.

C: I’m thinking what is the better solution on this issue.

C: There is AID update procedure in the spec. You can check it.

1. [1205r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1205-02-00be-indicating-to-operate-in-eml-mode-via-ps-poll-or-qos-null.docx) Indicating-to-operate-in-EML-mode-via-PS-Poll-or-QoS-Null Xiangxin Gu [1C 10’]

The meeting is recessed.

**September 7, 2022, AM2 10:45 – 12:15 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 10:45 PDT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno).
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))
5. The Chair asked whether there is comment about agenda in 11-22/1421r5 The agenda was approved.

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

**Submissions**

1. [1316r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1316-00-00be-cr-for-35-3-1.docx) CR for 35.3.1 Po-Kai Huang [33C 40’]

Discussion:

C: EHT AP related two sentences seems like be similar. You can elaborate it.

C: You can more clarify the non-AP EHT STA with additonal texts.

A: Ok.

C: when there is one AP, do we need the AP MLD support MLO? Why?

C: I think you can change ”set to” to ”equal to” for the conditions. EHT AP shall set the MIB to true.

C: dot11Multi-LinkActivated MIB is per STA or per MLD?

A: It’s for per STA

C: I agree with the comment. Why do we need new sentence? Just change ”may” to ”shall”.

C: what is the reason to have that rule for the non-AP STA when it sets the dot11MultiLinkActivated to false? You can add note of the reason.

Some CIDs were deferred.

SP: Do you support to accept the resolution in 11-22/1316r1 for the following CIDs?

10218, 10940, 11176, 11175, 11541, 11768, 13298, 13685, 10300, 10301,10482, 10596, 11253, 11254, 13512, 11543, 11711, 11712, 11769,13519, 12160, 13889, 11713, 11606, 10483, 10410, 13511,, 10221

No objection.

1. [1264r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1264-01-00be-lb266-cr-for-p2p-buffer-report.docx) CR for P2P buffer report Yunbo Li [10C 15’]

Discussion:

C: It depends on SCS.

A: It’s similar with UL buffer status report. We can have more discussion.

C: It’s similar to SCS procedure. If multiple STA request this, how can AP schedule them based on this information? Other comments mention more dynamic information rather than this. Like BSR. How does AP use this information?

Recess

**September 7, 2022, PM1 13:30 – 15:30 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 13:30 PDT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno).
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))
5. The Chair asked whether there is comment about agenda in 11-22/1421r5 The agenda was approved.

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

**Submissions**

1. [1429r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1429-00-00be-lb266-cr-for-cids-related-to-35-3-7.docx) CR for CIDs related to 35.3.7 Laurent Cariou [90C 60’]

Discussion:

C: If it’s Revised, you can make the change for editors. Make the changes as in 11-22-1023r5

C: I think you can change ”shall not” to ”is not expected ...” the prefered AC is priority.

A: shall is better to me.

C: 11759 can be deferred by Pooya’s doc.

10848 is defered after some discussion.

C: the resolution is conflict with current spec where no frame is generated on disabled link.

11104 is deferred

C: you can change the note 2 from setup link to mapped link with removing TID-to-link mapping texts. You can simplify the texts.

C: TWT agreements is related to individual TWT. TWT memebership can be for other TWT. You can apply them to other TWT as well as individual TWT by adding membership.

C: is it any of condition?

A: both have to be true.

11962 is deferred.

C: for advertising TID to link mapping in Beacon, is there delay?

A: There is duration, if it’s 0, it’s immediate operation.

SP: Do you support to accept the resolution in 11-22/1429r2 for the following CIDs?

~~12442 10013 14055 10488~~ 12860 13287 ~~11759~~ 11764 11903 12753 12907 11775 13986 11776 11904 12908 12999 13093 ~~10848~~ 13864 12624 ~~11104~~ 10459 ~~12625~~ 12626 12379 12078 10023 10635 10024 11641 13069 10460 12408 12627 13902 12628 11905 12629 10461 12630 11906 11907 11908 12912 13903 12896 12909 10918 12926 13094 11909 11910 12927 13095 12631 12632 10242 11567 10243 11911 10462 13905 13906 10109 11610 13365 10637 11912 10317 11914 12928 10026 13070 10463 12929 ~~11962~~ 10025 11915 10638 13000 11916 13907 12482 12931 13097 11430 11913 10318 11431

No objection

1. [1399r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1399-00-00be-lb266-cr-for-ml-ie-usage-for-ml-setup.docx) CR for ML IE Usage for ML Setup Insun Jang [31C 30’]
2. [1263r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1263-01-00be-lb266-cr-for-txop-return-in-mu-rts-txs.docx) CR for TXOP return in MU-RTS TXS Yunbo Li [9C 15’]

Discussion:

C: 13989, I also update the sentece.

C: why do you apply TXOP return to mode 1? PIFS recovery is sufficient for mode 1.

SP: Do you support to accept the resolution in 11-22/1263r2 for the following CIDs?

12421, 12502, 14024, 12503, 11020, 14026, 13772, ~~14031~~, 11487

No objection

recessed

**September 7, 2022, PM2 16:00 – 18:00 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 16:00 PDT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno).
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))
5. The Chair asked whether there is comment about agenda in 11-22/1421r5 The agenda was approved.

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

**Submissions**

1. [1415r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1415-00-00be-cr-for-11-3-part-i.docx) CR for 11.3 part I Po-Kai Huang [22C 30’]

SP: Do you support to accept the resolution in 11-22/1415r2 for the following CIDs?

12884, 12342, 13497, 13135, 13136, 13137, 10676, 13138, 10292, 12256,

12257, 10677, 11988, 11989, 13141, 13142, 13273, 11531, 13143, 13144,

13145, 13525

No objection

1. [1428r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1428-00-00be-lb266-cr-for-cids-related-to-35-3-4-2.docx) CR for CIDs related to 35.3.4.2 Laurent Cariou [42C 45’]

C: What is the text on 13348? What is the new technical meaning? Is there anyother option?

C: 13349, need more discussion.

SP: Do you support to accept the resolution in 11-22/1428r2 for the following CIDs?

~~13348~~ 13350 10126 10310 11318 11410 11317 11727 ~~13349~~ 10614 10311 ~~12798 10103 12797~~ 11411 11728 10413 11412 11729 13627 ~~13783~~ 13784 11560 13628 13629 11413 11129 11320 11554 11414 11607 12615 ~~12799 11319~~ 10226 10312 12801 10622 13785 11321 10105 11322 11519

No objection

1. [1400r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1400-00-00be-lb266-cr-for-str-operation.docx) CR for STR Operation Insun Jang [18C 15’]

C: operates on instead of has

C: 11960 is not clear to me. Can you defer it?

SP: Do you support to accept the resolution in 11-22/1400r2 for the following CIDs?

10004, 10501, 10782, 11263, 11573, 12222, 12658, 13700, 13926, 13804, 11574, 11575, 10500, 14013, 12220,

No objection

1. [1355r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1355-00-00be-ap-link-disablement-notification.docx) AP Link Disablement Notification Vishnu Ratnam [1C 15’]

11-22-1023r5

What is the reason to remove the reason code?

1. [1357r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1357-00-00be-cr-for-some-nstr-mobile-ap-related-cids.docx) CR for some NSTR mobile AP related CIDs Morteza Mehrnoush [8C 15’]
2. SP: Do you support to accept the resolution in 11-22/1357r2 for the following CIDs?

10257, 10657, 11271, 11468, 11469, 11470, 12389

No objection.

**September 8, 2022, AM1 09:00 – 10:30 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 09:02 PDT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno).
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))
5. The Chair asked whether there is comment about agenda in 11-22/1421r6. The agenda was approved.

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

**Submissions**

1. [1344r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1344-00-00be-lb266-cr-for-cids-related-to-35-3-11.docx) LB266 CR for CIDs related to 35.3.11 Laurent Cariou [37C-20GT 30’]

Discussion:

C: I think the note does not have any meaning. I don’t think we need it.

C: You can have separate SP. Or Defer.

11120, 11439 will seperate SP.

C: page14, Max channel Switch time element related texts are a little ambiguous with the previous text.

C: switch link is mandatory for EHT?

C: Max channel switch time is currently optional.

13917 is deferred.

C: 14118, the description of Max channel switch time is different from baseline? Can u defer?

A: Ok.

SP: Do you support to accept the resolution in 11-22/1344r2 for the following CIDs?

10644 11744 11967 10489 11568 12939 ~~11120~~ 11437 10490 11260 11438 11745 11746 10645 10646 10647 10416 13372 10648 13790 10491 ~~13917 11439~~ 10492 12633 12634 12361 10493 ~~14118~~ 10494 13374 13371 10495 10496 13693 10497 ~~13373~~

No objection

SP: Do you support to accept the resolution in 11-22/1344r2 for the following CIDs?

11120, 11439

38Y, 7N, 14A

1. [1240r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1240-00-00be-lb266-cr-for-9-3-1-8.docx) CR for 9.3.1.8 Yunbo Li [4C 10’]

SP: Do you support to accept the resolution in 11-22/1240r0 for the following CIDs?

12047, 1~~2826~~, 12956, 13548

No objection.

1. [1213r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1213-00-00be-lb266-cr-on-measurement-report-for-low-latency-traffic.docx) CR on Measurement Report for Low-latency Traffic Guogang Huang [4C 10’]

SP: Do you support to accept the resolution in 11-22/1213r0 for the following CIDs?

Discussion:

C: Transmit Stream/Category Measurement is link level or MLD level?

A: MLD level.

C: deliveryratio is link level or MLD level?

A: packet delivery ratio is indpendent of which link.

C: I don’t know we need this capability. If needed, I don’t want to shift bits of other fields. You can add at the end of capability field.

C: how to speed up the feedback with MSDU delivery ratio field?

SP is deferred

Recess at 10:30.

**September 8, 2022, AM2 10:45 – 12:00 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 10:47 PDT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno).
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))
5. The Chair asked whether there is comment about agenda in 11-22/1421r6. The agenda was approved.

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

**Submissions**

1. [1412r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1412-00-00be-cr-for-11-2-2-and-11-2-3.docx) CR for 11.2.2 and 11.2.3 Po-Kai Huang [10C 15’]

SP: Do you support to accept the resolution in 11-22/1412r1 for the following CIDs?

10069, 10580, 10581, 10582, 10583, 10584, 11977, 13763, 13130, 13764

No objection

1. [1399r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1399-00-00be-lb266-cr-for-ml-ie-usage-for-ml-setup.docx) CR for ML IE Usage for ML Setup Insun Jang [31C 30’]

C: NOTE2 is not valid case. Remove the note2.

C: I agree with Ming.

10628 is deferred

C: 10629, this should be normative behavior.

A: I prefer the changes.

10630, i don’t want to add new ”shall requirement” for reason code.

SP: Do you support to accept the resolution in 11-22/1399r2 for the following CIDs?

10235, 11047, 10236, 11048, ~~10628, 10629, 10734, 10735, 11421, 11422, 11423, 11424, 11425, 11426, 11427, 11741, 13361, 13362, 13690, 13732, 13984, 13985~~, 10019, 11638, 10020, 11639, 10631, ~~10630~~, 11564

No objection.

1. [1265r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1265-01-00be-lb266-cr-for-cid-13736-and-13973.docx) CR for CID 13736 and 13973 Yunbo Li [2C 10’]

C: how does the AP check more than aSIFSTime if you add the additional condition?

A: the time gap can be calculated based on the PPDU ending time and the allocated time ending time, then AP can justify whether this gap satisfied “less than SIFS+24us” or not

SP is deferred.

1. [1228r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1228-00-00be-lb266-cr-for-9-1-13-9-and-9-6-13-10.docx) CR for 9.1.13.9 and 9.6.13,10 Guogang Huang [7C 15’]

Not finished.

Recess

**September 8, 2022, PM1 13:15 – 15:30 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 13:15 PDT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno). Jeongki is not in the room. Alfred to take minutes until secretary enters the meeting room.
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))
5. The Chair asked whether there is comment about agenda in 11-22/1421r6. The agenda was approved.

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

**Submissions**

1. [1430r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1430-00-00be-miscellaneous-editorial-cids.docx) Miscellaneous Editorial CIDs Po-Kai Huang [12C 15’]

C: you change the multi-link probe request to lower case. Do we need to change in other places?

A: This is the text for definition. I will take care of other places.

SP: Do you support to accept the resolution in 11-22/1430r1 for the following CIDs?

13993, 10573, 11815, 12264, 12781, 13149, 13332, 13333, 12900, 12901,

13118, 10151

No objection

1. [1188r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1188-00-00be-cr-for-medium-sync-recovery.docxhttps:/mentor.ieee.org/802.11/dcn/22/11-22-1188-00-00be-cr-for-medium-sync-recovery.docx) CR for Medium Sync Recovery Dibakar Das [36C 30’]

C: One parameter is applied to all STAs?

A: Yes

Some discussion on 11452. Why do you add the field in beacon? How often?

Some discussion on 13402 and 13404.

11581, delete the sentence since the default values are specified in Annex C.

SP: Do you support to accept the resolution in 11-22/1188r1 for the following CIDs?

13867 10049 10133 10422 10850 11137 11251 11451 11580 11614 12668 12669 13059 13401 ~~13404 13402~~ 13403 10256 10356 10360 10862 10851 11139 ~~11452 11581~~ 12670 13003 13405 ~~13934~~ 13935 13936 13937 14092 12744

No objection

1. [1434r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1434-00-00be-lb266-cr-cl35-emlsr-part3.docx) CR CL35 EMLSR part3 Minyoung Park [36C 40’]

10155 is deferred.

There is TLDS discovery and setup procedure.

AP is just passing the frames and AP is not involving the setup.

the AP is not aware of the TWT's setup between the TDLS STAs.

There are two cases: one is involved by ANQP request/response frames to use the direct path between the peer STAs.

11162 is deferred. 13644, 13645 are deferred.

Some discussion per-link spatial stream capabilities. Some discussion on 12814.

In DL case, AP uses ”shall sentence”. In UL case, we can have similiar texts. I prefer the aligned text. The proposed text is incomplete. I want to defer this CID.

OK. 13591

SP: Do you support to accept the resolution in 11-22/1434r1 for the following CIDs?

~~11162, 13644, 13645~~, 12274, ~~13648, 10155, 13411, 13416, 14000, 11454~~

~~11455~~, 10088, ~~13593, 10869, 11459, 12814~~, 13815, 10100, 12680, 11461

12681, 12682, 13705, 13590, ~~13591~~, 11758, 13006, 10169, 12449, 12450

12522, 13861, 10164, 13421, 11615, 10926, 13592, 10361, 10928

No objection

1. [1313r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1313-00-00be-lb266-cr-on-cid-12328-ap-mld-power-save.docx) CR on CID 12328 AP MLD Power Save Guogang Huang [1C 10’]

Discussion:

C: It seems like being not related to comment resolution phase. We need to carefully consider many things for variable aspects.

SP is deferred

Recess

**September 8, 2022, PM2 16:00 – 18:00 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 16:02 PDT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno).
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))
5. The Chair asked whether there is comment about agenda in 11-22/1421r6. The agenda was approved.

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

**Submissions**

1. [1470r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1470-00-00be-lb266-cr-for-some-cids-in-35-9-35-9-1-35-9-2-35-9-4-and-35-9-4-1.docx) CR for CIDs in 35.9, 35.9.1-2, 35.9.4 and 35.9.4.1 Chunyu Hu [60C 70’]

C: What is the difference between this and original TWT?

C: non-trigger-enabled TWT SP is also useful for lower latency traffic. I have some CIDs for edca access.

C: If there are many OBSS Aps, AP can get enough resource?AP will get less resource in that case.

11160 is deferred or transfer to Rubayet.

13637 is deferred

13016, is there the problem on original text?

Just wording change not changing technical point. Any problem on new text?

10684, should we combine it with SCS?

Regarding the TBTT and r-TWT SP, some scanning STAs may miss the beacon.

We had a lot of discussion on the transmission on non-latency sensitive traffic.

AP can decide the transmission of beacon frame or latency sensitive traffic.

I don’t see the benefit of stop decrementing. Increasing implementation complexity.

11244 is deferred.

TWT protection, RTS/CTS should be transmitted before r-TWT to protect r-TWT?

Is it for protecting a single TXOP or TWT SP? A singe TXOP. That’s the NAV protection.

10874, 11782 is deferred.

SP: Do you support to accept the resolution in 11-22/1470r1 for the following CIDs?

13236, , 10872, , 1306013238, 1046610694, 10731, 10860, 12076, 13830; 10931~~11705, 13034, 13035, 13831;;~~ 12750,12767, 1098913646, 10435, 10048, 11650, 13091, 13305, 12424, 12443, 12444, 12527, 13032, 11164, 13237, 12526, 12724, 13054, 11157, 13642

26Y,26N,10A

1. [1401r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1401-00-00be-lb266-cr-for-35-3-2-4-2.docx) CR for 35.3.2.4.2 Sunhee Baek [8C 15’]

you can add (AP1) in other requested Aps for clarification.

SP: Do you support to accept the resolution in 11-22/1401r1 for the following CIDs?

10307, 11408, 12512, 12513, 12514, 13893, 14109, 14110

No objection

Recess

**September 9, 2022, AM1 09:00 – 10:30 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 09:02 PDT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno).
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))
5. The Chair asked whether there is comment about agenda in 11-22/1421r7. The agenda was approved.

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

**Submissions**

1. [1228r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1228-01-00be-lb266-cr-for-9-1-13-9-and-9-6-13-10.docx) CR for 9.1.13.9 and 9.6.13,10 Guogang Huang [7C-Q&A 10’]

SP: Do you support to accept the resolution in 11-22/1228r1 for the following CIDs?

10575, 13490, 12606, 12607, 12608, 12609, 10576

No objection

1. [1187r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1187-00-00be-cr-for-scs-related-cids.docx) CR for SCS related CIDs Dibakar Das [20C-10GT 20’]

13249 is deferred.

We don’t have QoS characteristics element for r-TWT?

can you defer CIDs 10767, 12333

comment on 13822: it's "R-TWT SPs"

can you defer CID 12717

SP: Do you support to accept the resolution in 11-22/1187r1 for the following CIDs?

12710 13751 13752 13491 13250 ~~12335~~ 10430 13429 ~~10767 12333~~ 13430 13431 10423 12278 13432 10431 10768 14041 10432 13433 10258 ~~12717~~ 12073 ~~13249~~  13248 13111 12433 13822 12279 ~~13823~~ 11955 11956 11957 11958 10388

No objection

1. [1471r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1471-00-00be-lb266-cr-for-35-9-4-2.docx) CR for 35.9.4.2 Chunyu Hu [15C 20’]

Discussion:

Can you clarify option1? REVme might use the value of option 1.

What about option 2?

Another solution is use the value 0 of Quiet duration. 1 TU can indicate.

Optin 2 or option 3 work for me.

10933, To protect R-TWT SP, AP need to protect the start of the SP. We can merge two sentences.

Not finished. Will continue next week.

Recess.

**September 9, 2022, AM2 10:45 – 12:00 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 10:47 PDT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno).
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))
5. The Chair asked whether there is comment about agenda in 11-22/1421r7. The agenda was approved.

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

**Submissions**

1. [1463r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1463-00-00be-lb266-cr-for-p2p-support-in-r-twt.docx) LB266: CR for P2P Support in R-TWT Kumail Haider [10C 15’]

STA 2 also has a membership with R-TWT SP

R-TWT is only for STA 1.

SP is deferred

1. [1462r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1462-00-00be-lb266-cr-for-subclause-35-3-4-4.docx) CR for subclause 35.3.4.4 Ming Gan [24C 30’]

Can you defer the 10625? It can be merged with multi-link setup.

If the AP MLD remove an AP and then added the AP later, what is the link ID? Same ID or different ID?

SP: Do you support to accept the resolution in 11-22/1462r1 for the following CIDs?

10227 10228 10229 10230 11730 13506 10623 10624 ~~10625~~ 11415 13354 11416 11556 11557 11941 12479 13353 12802 13352 11324 10231 13868 11558 14064

No objection.

1. [1205r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1205-03-00be-indicating-to-operate-in-eml-mode-via-ps-poll-or-qos-null.docx) Indic.-to-op.-in-EML-mode-via-PS-Poll-or-QoS-Null Xiangxin Gu [1C ctd. 10’]

There were discussion on cross link indication for power saving state. We can have discussion together. Unified approach is better.

I don’t think that deleting the text is right approach.

SP is deferred.

1. [1292r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1292-02-00be-lb266-cr-for-cid-10861.docx) CR for CID 10861 Yousi Lin [1C 15’]

For end time alignment, it is the implementation. Why do you want to define in specification?

It maybe need the capability signaling.

Need more discussion.

SP is deferred

1. [1225r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1225-00-00be-lb266-cr-on-cid-12318-ess-report-element.docx) CR on CID 12318 ESS Report element Guogang Huang [1C 15’]

No time for Q&A and SP

Recess

**September 9, 2022, PM1 13:15 – 15:30 PDT (TGbe MAC ad hoc conference call)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex session and offline (in San Diego).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 13:15 PDT. The Chair introduces himself and the Secretary (Jeongki Kim, Ofinno). Jeongki is not in the room. Alfred to take minutes until secretary enters the meeting room.
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.
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5. The Chair asked whether there is comment about agenda in 11-22/1421r8.

Chair shows the agenda for this session and asks if there are any changes requested. A member mentions that he did not have time for Q&A of his presentation so asked some time at the end. Chair mentions that we can resume the Q&A during the sessions in the F2F of next week. The agenda was approved.

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

**Submissions**

1. [1196r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1196-02-00be-lb266-clause-3-2-comment-resolutions.doc) Clause-3-2-comment-resolutions Stephen McCann [10C 10’]

Author goes over the comments and the proposed resolutions. The document has 10 CIDs.

Some members has questions on the eMLSR/eMLMR definition (CID 10935).

Some discussion on whether you need some text for switch back. Author mentions that prefers to not have it but there can be further discussions offline to see how to harmonize and converge on the text. Agreed to discuss it offline. So CID 10935 is deferred.

Author moves to the next CID 11170.

What is the problem by comment? Why do you remove the text?

Current definition looks fine to me. What is the issue?

1. [1487r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1487-00-00be-lb266-cr-for-ml-reconfiguration-clause-35-3-6.docx) CR for ML Reconfiguration clause 35.3.6 Binita Gupta [39C 40]

12618, Some discussions on texts related to non-transmitted BSSID or transmitted BSSID in multiple BSSID set.

12618 is deferred.

Some discussions on BTM

13279 is deferred?

Can you defer 12081 also?

12081 is just editorial change. One CID defering is enough.

Why do we need this notes? This is just clarification. Can you defer two related CIDs? 13279, 12996 were deferred.

13278 is deferred also after discussion.

11636 is deferred.

If an AP is removed in AP MLD, EMLSR or EMLMR is disabled automatically?

13280, 14018 are deferred.

11429, the text has shall. It would be note without shall.

SP: Do you support to accept the resolution in 11-22/1487r3 for the following CIDs?

10237, 13325, 14065, 11081, ~~12618~~, 12619, 13276, 13678, 13679, 13680,

14016, 14066

10371, ~~10718~~, 11040, 11041, 11429, 11565, 11569, ~~11636, 12081~~, 12083,

12084, 12219, 12620, 12621, ~~12996~~, 12997, 12998, ~~13278, 13279, 13280~~,

13681, ~~14018~~, 14019, 14020

No objection

1. [1502r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1502-00-00be-11be-d2-0-cooment-resolution-35-15-2.docx) D2.0 comment resolution subclause 35.15.2 Liwen Chu [15C 15’]

SP: Do you support to accept the resolution in 11-22/1502r0 for the following CIDs?

10372, 10883, ~~11151~~, 11932, 13675, 13833, 10884, 13676, 11933, 11934,

11152, 11935, 13043, 12887, 13044

No objection

1. [1336r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1336-00-00be-lb266-resolution-for-comments-related-to-mlo-ba-operation.docx) Res. for comments related to MLO BA op. Abhishek Patil [20C 20’

SP: Do you support to accept the resolution in 11-22/1336r1 for the following CIDs?

10345 10346 10349 10350 10357 10387 10640 11074 11075 11079 11371 11372 11374 11612 11613 11867 12446 13602 13741 13908

SP is deferred

Some discussions on CR document for the deferred CIDs. Whether removing texts for deferred CIDs or creating new document for deferred CIDs.

Adjourned