IEEE P802.11  
Wireless LANs

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| Minutes for TGbe MAC Ad-Hoc sessions in November 2022 Plenary | | | | |
| Date: 2022-11-14 | | | | |
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Abstract

This document contains the meeting minutes for the TGbe MAC ad hoc sessions in November 2022 Plenary.

Revisions:

* Rev0: Added the minute from the MAC ad hoc held on November 14 AM1 session.
* Rev1: Added the minute from the MAC ad hoc held on November 14 PM2 session.
* Rev2: Added the minute from the MAC ad hoc held on November 15 AM1 session.
* Rev3: Added the minute from the MAC ad hoc held on November 15 PM1&PM2 sessions.
* Rev4: Some updates
* Rev5: Added the minute from the MAC ad hoc held on November 16 PM2 session.

**Monday 14 Novemver 2022, AM1 (TGbe MAC ad hoc session)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in Bangkok (in-person).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 08:00. The Chair introduces himself and the Secretary.
2. The Chair reminded the members that they need to register for the plenary in order to attend the meeting
3. 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.
4. The Chair goes through the IEEE copyright policy.
5. 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))
6. The Chair asked whether there is comment about agenda in 11-22/1730r2. The agenda was approved.

**Submissions**

1. [1373r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1373-01-00be-lb266-cr-for-cid-11700.docx) CR for CID 11700 Abdel K. Ajami [1C-SP 10’]

The author goes through Option 2 only.

Discussion:

C: Could you explain the benefits of option 2?

A: The idea is not related to TWT subfield itself. Option 2 is there is no addition. We don’t need to define new element for it.

C: What are you changing compared to baseline?

A: STA’s time mismatches the announced time.

C: AP need to calculate two times?

A: This is for simplifying

C: What is the difference with baseline? Could you ok to review another option based on preference?

SP1: Which option as described above (11-22/1373r2) do you support to move forward with the resolution for CID 11700?

* Option 1 (proposed resolution related to adding Extended TWT element)
* Option 2 (proposed resolution related to keeping TWT field in TU resolution)
* Abstain

23 option 1, 41 option 2, 41 abstain

SP2: Do you agree to the resolution in Option 2 for CID 11700 provided in doc 11-21/1373r2 to be included in the latest 11be draft?

11700

33Y, 18N, 39A

1. [1454r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1454-01-00be-lb266-cr-for-cid-10674.docx) LB266 CR for CID 10674 Abdel K. Ajami [1C-SP 10’]

C: What is point or benefits for latency sensitive traffic? After BSRP, STA can transmit BSR.

C: This can be the big item for UHR.

A: This is based on comments. Basically we can see the group opinion.

C: Timestamp in MPDU may be complicated. UHR is better to discuss this topic.

C: Do you want to SP?

A: Based on the guidelines, we can SP and see whether this reach consensus by group.

SP: Do you support to accept the resolution in 11-22/1454r2 for the following CIDs?

10674, 10710, 12711, 13221, 11249, 12768

39Y, 24N, 27A

1. [1505r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1505-00-00be-11be-d2-0-comment-resolution-subclause-35-3-18-part-3.docx) D2.0 CR subclause 35.3.18 part 3 Liwen Chu [13C 20’]

SP: Do you support to accept the resolution in 11-22/1505r2 for the following CIDs?

~~10041, 10089, 13816, 10044~~, ~~10045~~, 11467, 14080, 13817, 11157, 12725,

13647, ~~11163, 13649~~

No objection

1. [1278r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1278-00-00be-lb266-cr-for-cids-10710-12711.docx) LB266 CR for CIDs 10710, 12711 Liangxiao Xin [2C 10’]

No discussion

The teleconference was recessed at 09:56.

**Monday 14 Novemver 2022, PM2 (TGbe MAC ad hoc session)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in Bangkok (in-person).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 16:00. The Chair introduces himself and the Secretary.
2. The Chair reminded the members that they need to register for the plenary in order to attend the meeting
3. 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.
4. The Chair goes through the IEEE copyright policy.
5. The Chair recommends using IMAT for recording the attendance.
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   * 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))
6. The Chair asked whether there is comment about agenda in 11-22/1730r4. The agenda was approved.

**Submissions**

1. [1216r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1216-02-00be-lb266-cr-for-latency-report-element.docx) CR for Latency Report Element Frank Hsu [1C-SP 10’]

SP: Do you support to accept the resolution in 11-22/1216r2 for the following CIDs?

10776

16Y, 40N, 34A

1. [1435r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1435-00-00be-cr-for-35-9-2-1-latency-sensitive-traffic-differentiation.docx) CR for 35.9.2.1 Latency sensitive traffic diff. Duncan Ho [26C 30’]

Discussion:

C: 38.2.1, TID indicates the latency sensitive traffic in the bitmap. Is it or, and or either?

C: We had multiple discussions for a long time about this issue. You rejected them.

C: I post the existing text in the baseline. That is same as the proposed text. If you propose the different contents, I’m ok. Otherwise, you need to remove one of them.

C: You have to have the note

C: Your proposed text seems to be tightly coupled with R-TWT SP. Not for general latency sensitive traffic. Then you have to change the subclause name also correspondingly.

SP: Do you support to accept the resolution in 11-22/1435r0 for the following CIDs?

13224, 10681, 10856, 10873, 10891, 10901, 10909, 11161, 11617, 11781, 12275, 12285, 12293, 12396, 12459, 12525, 12708, 12709, 13019, 13104, 13639, 13709, 13828, 13829, 13947, 14072

SP deferred

1. [1835r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1835-00-00be-lb266-cr-for-annex-c.docx) CR for Annex C Yongho Seok

Discussion:

C:For TXS, there are Mode 1 or Mode 2

A: This is just editorial correction about MIB variable true.

C: 10354, you mentioned no change but there is a related text at the end of resolution.

C: Minyoung, you want to defer these four CIDs or remove two paragraphs?

A: removing two is ok.

SP: Do you support to accept the resolution in 11-22/1835r1 for the following CIDs?

10354, 12457, 12467, 13531, 11811, 10101, 11806, 11807, 11808, 12263, 11809, 11810, 11821, 13522

No objection

1. [1848r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1848-00-00be-lb266-cr-misc.docx) CR Misc Minyoung Park

Discussion:

C: In active mode, you do not check DTIM basically. But in EMLSR, you need to check DTIM. If there is one STA in a BSS and it’s active mode, AP can send GA BU at any time. But, if there is EMLSR STA and active mode, AP still need to deliver GA BU after DTIM.

A: Right.

C: It may affect the legacy STA.

A: It’s similar to PS mode STA.

C: If a STA is EMLSR mode, it means that the operation is like PS mode. Can we defer this?

A: Sure, we already had discussions extensively.

Not finished.

Move to the second part (last 30 minutes)

1. [1535r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1535-00-00be-p2p-communication-with-emlsr-peer-in-triggered-txop-sharing-cid-12422.pptx) P2P Comm. with EMLSR Peer in Triggered TXOP Sharing Juseong Moon [1C 10’]

Discussion:

C: On TXOP sharing, P2P communication. If the P2P communication

The teleconference was recessed at 17:48.

**Tuesday 15 Novemver 2022, AM1 (TGbe MAC ad hoc session)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in Bangkok (in-person).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 08:00. The Chair introduces himself and the Secretary.
2. The Chair reminded the members that they need to register for the plenary in order to attend the meeting
3. 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.
4. The Chair goes through the IEEE copyright policy.
5. The Chair recommends using IMAT for recording the attendance.
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6. The Chair asked whether there is comment about agenda in 11-22/1730r4. The agenda was approved.

**Submissions**

1. [1335r5](https://mentor.ieee.org/802.11/dcn/22/11-22-1335-04-00be-cr-for-cids-related-to-group-addressed-frame-reception-in-emlsr-nstr.docx) CR for CIDs related to Group-addressed frame RX in EMLSR/NSTR Vishnu Ratnam [13C-SP 10’]

Discussion:

C: Have you discussed the notification frame?

A: Not yet.

Some discussions on scheduled transmission time.

C: What is the AP operation on the other link if an AP on one link transmits the notification? Not transmit group addressed frame? What is the difference between baseline and this?

A: If the link 3 is group link and STA and AP exchange individual addressed frame on link 1, the STA can transmit in overlapping time with group addressed frame transmission on link 2.

C: You can defer this.

SP: Do you support to accept the resolution in 11-22/1335r5 for the following CIDs?

10434 12813

No objection

1. [1381r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1381-02-00be-lb266-cr-ml-traffic-indication-part1.docx) LB266 CR ML traffic indication part1 Minyoung Park [13C-SP 10’]

Discussion:

C: The text can be modified on 10028. TID-to-link mapping text is missing.

A: That’s not the comment. You can submit the comment.

C: I don’t support this Beacon A frame.

C: This is controversial.

Discussion on 13856.

SP1: Do you support to accept the resolution in 11-22/1381r4 for the following CIDs?

10386, 12158, 10572, 13735, 11121, 13734, 10206, 1396013620, 10426, 12484, 12643, 10876, 12380, 13856,

32Y, 29N, 16A

SP2: Do you support to accept the resolution in 11-22/1381r4 for the following CIDs?

13920 10877 13733

No objection

1. [1573r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1573-00-00be-cr-for-cid-10911.docx) CR for CID 10911 Jeongki Kim [1C 10’]

SP: Do you support to accept the resolution in 11-22/1573r0 for the following CID?

10911

No objection

1. [**1537r0**](https://mentor.ieee.org/802.11/dcn/22/11-22-1537-00-00be-text-for-edcaf-selection-issue-on-start-time-sync-access-cid-12414.docx) **Text for EDCAF Selec. Issue on Start Time Sync Access Juseong Moon [1C 10’]**

Presented. SP is deferred after some discussions.

1. [1848r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1848-00-00be-lb266-cr-misc.docx) CR Misc Minyoung Park [32C 25’]

Not finished but 10864 is deferred.

The teleconference was recessed at 09:56.

**Tuesday 15 Novemver 2022, PM1 (TGbe MAC ad hoc session)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in Bangkok (in-person).

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 13:30. The Chair introduces himself and the Secretary.
2. The Chair reminded the members that they need to register for the plenary in order to attend the meeting
3. 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.
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6. The Chair asked whether there is comment about agenda in 11-22/1730r5. The agenda was approved.

**Submissions**

1. [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 indication element Vishnu Ratnam [1C-SP 10’]

Discussion:

C: We have to resolve the fundamental problem of Beacon bloating issue. Beacon A frame can solve it for legacy STA.

SP: Do you support to accept the resolution in 11-22/1202r3 for the following CID?

11578

16Y, 42N, 25A

1. [1848r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1848-00-00be-lb266-cr-misc.docx) CR Misc. Minyoung Park [32C 25’]

Discussion:

Discussion on 13420 (For operation considering eMLSR and TXS procedure). 13420 is deferred

C: For 14115, I agree with the commenter. This is broken because the beamforming feedback is sent using TB PPDU. It should be correct.

C: This sequence is missing something multicast frame like MU-BAR.

C: Separate sounding sequence might be better option.

14115 is deferred.

10585 is deferred.

SP: Do you support to accept the resolution in 11-22/1848r1 for the following CIDs?

10865, 10040, , 13921, 10919, 10247, 13796, 10428, 10427, 11572, , 14069, 14070, 11593, 12416, 13948, 13585, 13584, , 11460, 13704, 12156, 13852, 14006

No objection

1. [1879r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1879-00-00be-lb266-cr-for-twt-operation.docx) CR for TWT operation Ming Gan [18C 25’]

Discussion:

C: Why do you want to repeat this element in MMPDU? If you repeat in TWT, we need to do same job in other features.

A: This is action frame. We want to teardown all TWTs.

TWT teardown related CIDs were deferred.

C: Is this already in the baseline? Do we need another “shall” requirement? Why do you add the duplicated texts just for clarification? You just say the STA shall follows in the subclause of baseline.

C: You can just say STA follows the 26.8…. except for the ….. .

TWT Information frames related CID were deferred.

13836 is deferred

Stop due to time out.

1. [1375r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1375-01-00be-tgbe-lb266-comment-resolutions-for-non-clause-12-security-comments.docx) Comment resolutions for non-clause 12 security comments Michael Montemurro [8C 10’]

SP: Do you support to accept the resolution in 11-22/1375r1 for the following CIDs?

10587, 13132, 12061, 13133, 13134, 12369, 14104, 14105

No objection

1. [1356r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1356-03-00be-tgbe-lb266-comment-resolutions-for-rsna.docx) Comment resolutions for RSNA Michael Montemurro [7C 10’]

SP: Do you support to accept the resolution in 11-22/1356r6 for the following CIDs?

13179, 13191, 13198, 14100, 11071, 10678, 10679

No objection

The teleconference was recessed at 15:30.

**Tuesday 15 Novemver 2022, PM2 (TGbe MAC ad hoc session)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in Bangkok (in-person).

**Introduction**

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6. The Chair asked whether there is comment about agenda in 11-22/1730r6. The agenda was approved.

**Submissions**

1. [1583r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1583-03-00be-cr-for-35-3-14.docx) CR for 35.3.14 Po-Kai Huang [10C-SP 10’]

Discussion:

C: Why do you change “one or more” to “only one”?

A: I’m fine with reverting them. We have a basic text for that.

C: 14046 why not setup link or not enabled link?

14046 and 14047 were deferred

SP: Do you support to accept the resolution in 11-22/1583r4 for the following CIDs?

12646, 12649, 13383, 13384, 12815, 12647, 12648

No objection

1. [1881r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1881-02-00be-lb266-cr-for-leftover-cids.docx) CR for Leftover CIDs Ming Gan [13C 20’]

C: we need more texts for clarification for MLO case. I can work offline.

A: 12588 is deferred.

11879 and related CIDs were deferred.

C: Why do you want to specify the WinSizeR?

A: The baseline has similar texts. Check it in the baseline.

C: ADDBA only contains buffer size. Why do you metion BitmapLenght? BitmapLength is in baseline.

SP: Do you support to accept the resolution in 11-22/1881r2 for the following CIDs?

12347

No objection

1. 1879r1 Ming (SP)

SP for non-controversial CIDs. Other CIDs were deferred.

SP: Do you support to accept the resolution in 11-22/1879r1 for the following CIDs?

10665 11876 12351 13320 14089

No objection

1. [1816r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1816-02-00be-cr-for-35-16-1.docx) CR for 35.16.1 Po-Kai Huang [10C 15’]

C: Why there is s?

A: HT/VHT BSS operating channel widths may be possible.

C: there seems like be a circular text in page 8.

SP: Do you support to accept the resolution in 11-22/1816r3 for the following CIDs?

11061, ~~10943~~, 11887, 13710, 11062, 11063, 11064, 11065, 11066, 12565, 11067, 11068, 11069

No objection

1. [1903r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1903-00-00be-lb266-cr-for-misc-cids.docx) CR for misc. CIDs Laurent Cariou [50C 60’]

Not finished.

1. [1685r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1685-00-00be-crs-for-11be-d2-0-proxy-arp-cids.docx) CRs for D2-0 Proxy Arp CIDs Rojan Chitrakar [1C 10’]

SP: Do you support to accept the resolution in 11-22/1685r0 for the following CIDs?

13154

No objection

1. [1661r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1661-02-00be-lb266-cr-for-35-17-3-part-4-rtwt.docx) CR for 35-17-3 part 4-rTWT Yonggang Fang [4C 10’]

SP: Do you support to accept the resolution in 11-22/1661r2 for the following CIDs?

10714, 14082, 14083, 14084, 10456, 10464, ~~11244~~, 12276, 12394

SP is Deferred

The teleconference was recessed at 18:00.

**Wednesday, 16 Novemver 2022, PM2 (TGbe MAC ad hoc session)**

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in Bangkok (in-person).

**Introduction**

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2. The Chair reminded the members that they need to register for the plenary in order to attend the meeting
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6. The Chair asked whether there is comment about agenda in 11-22/1730r6. The agenda was approved.

**Submissions**

1. [1381r5](https://mentor.ieee.org/802.11/dcn/22/11-22-1381-05-00be-lb266-cr-ml-traffic-indication-part1.docx) LB266 CR ML traffic indication part1 Minyoung Park [ERR-COR SP 5’]

SP: Do you support to accept the resolution in 11-22/1381r5 for the following CIDs?

13856

No objection

1. [1036r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1036-02-00be-lb266-cr-for-35-9-2-1-latency-sensitive-traffic-differentiation.docx) CR for 35.9.2.1 Latency sensitive traffic differentiation Liuming Lu [1C-SP 10’]

C: How does the AP know the information?

A: AP can decide. Not depend on the STA’s capabilities.

C: We already have QoS characteristic element. How is this different from that and gonna operating?

C: how does the AP or STA calculate the threshold for different TID or latency?

C: How is the KPI calculated? Is it average?

A: It’s AP’s implementation.

C: it's better to have a solution to quantize the KPI.

SP: Do you support to accept the resolution in 11-22/1036r3 for the following CIDs?

SP Deferred

1. [1583r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1583-00-00be-cr-for-35-3-14.docx) CR for 35.3.14 Po-Kai Huang [2C-SP 10’]

SP: Do you support to accept the resolution in 11-22/1583r4 for the following CIDs?

14046, 14047

No objection

1. [1903r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1903-02-00be-lb266-cr-for-misc-cids.docx) CR for misc. CIDs Laurent Cariou [50C Cont. 60’]

C: which subclause are you modifying?

A: Tim Broadcast

C: why do you use ML Probe request for a single?

C: if preset is better than optional.

C: we already had long discussion, why do we have MLD in frame body? We can have it in address field. Keep current text.

A: we can keep this as separate SP. 12798

C: can you defer this CID ((#12803, #12804, #11326, #10072, #13355, #11325, #13356))

A: Ok

C: AP can give STA recommendations for group addressed BU. I don’t understand the rejection of the reason.

A; Why does AP recommend the group addressed BU? The AP can transmit group addressed BU anywhere anylink.

10123 separate SP

C: 11978 is correct for 11.49

C: I like previous text for beacon interval. Why did you change? In the AP disable case, TBTT is set to 0 is implementation issue. This is not only for beacon interval issue. We need to clarify the other features together, e.g., TBTT.

11553 is deferred.

Some discussion on MLD ID subfield.

12798 separate

C: for DMS, you change the last sequence number? The last sequence Control field can be different.

12818 is deferred.

C: 13146, why the quiet count field 0 is reserved?

A: In non-EHT AP, 0 is reserved already.

Further clarification on texts for Quiet Count field.

SP1: Do you support to accept the resolution in 11-22/1903r4 for the following CIDs?

11186 10966 12235 11187 10537 11183 10538 10539 10540 10541 13146 10544 10545 12961 12962 13147 13461 10547 12877 12963 10548 10551 12964 11948 10288 10615 10616 10617 10618 10619 10620 10621 13357 13326 13327 13329 12819 11978

No objection

SP2: Do you support to accept the resolution in 11-22/1903r4 for the following CID?

12798 (clean up setting on MLD ID field in ML probe request)

31Y, 15N, 28A

SP3: Do you support to accept the resolution in 11-22/1903r4 for the following CIDs?

10123 (group addressed BU, to be rejected)

34Y, 4N, 32A

1. [1767r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1767-01-00be-lb266-cr-for-nonprimary-link-channel-switch.docx) CR for nonprimary link channel switch Sanghyun Kim [3C 10’]

SP is deferred.

1. [1695r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1695-00-00be-cr-on-cid-11827-and-12115.docx) CR on CID 11827 and 12115 Jinyoung Chun [2C 10’]

SP3: Do you support to accept the resolution in 11-22/1695r0 for the following CID?

12115

The teleconference was recessed at 18:00.