IEEE P802.11
Wireless LANs

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| Minutes for TGbe MAC Ad-Hoc Meeting in January 2023 |
| Date: 2023-01-11 |
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Abstract

This document contains the meeting minutes for the TGbe MAC Ad Hoc Meeting in January 11 - 13 2023.

Revisions:

* Rev0: Added the minute from the MAC ad hoc meeting held on January 11 2023.
* Rev1: Added the minute from the MAC ad hoc meeting held on January 12 2023.
* Rev2: Added the minute from the MAC ad hoc meeting held on January 13 2023.

### AM1 January 11 2023, (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 09:03 PT. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
	* Please record your attendance during the conference call by using the IMAT system:
		+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair went through the guidelines for Post-Quarantine during the MAC ad-hoc sessions.
6. The Chair asked whether there is comment about agenda in 11-23/0019r4. The agenda was approved.

 **Submissions**

1. [1051r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1051-03-00be-lb266-cr-for-twt.docx) CR for TWT Rubayet Shafin [6C-SP 10’]

Discussion: None

SP: Do you support to accept the resolution in 11-22/1051r4 for the following CIDs?

13633, 11949, 13872, 11155, 13643

No objection

1. [1265r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1265-02-00be-lb266-cr-for-cid-13736-and-13973.docx) CR for CID 13736 and 13973 Yunbo Li [2C-SP 10’]

Discussion:

C: Typo, SIFS after or a SIFS after..

C: I already removed ”a”.

SP: Do you support to accept the resolution in 11-22/1265r3 for the following CIDs?

13736, 13973

No objection

1. [1263r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1263-03-00be-lb266-cr-for-txop-return-in-mu-rts-txs.docx) CR for TXOP return in MU-RTS TXS Yunbo Li [2C-SP 10’]

Discussion:

C: We already have the PIFS recovery in mode 1. I don’t think we need to add for mode 1.

A: I understand. I will follow the majority by group.

SP: Do you support to accept the resolution in 11-22/1263r4 for the following CID?

11486

No objection

SP: Do you support to accept the resolution in 11-22/1263r4 for the following CID?

13989

20Y, 25N, 21A

1. [1545r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1545-02-00be-lb-266-cr-for-cids-related-to-twt-information-frame.docx) CR for CIDs related to TWT Information frame Kumail Haider [12C-SP ]

Discussion:

C: I think it’s weird that we can suspend a specific R-TWT SP. I think 11ax approach like suspending all broadcast TWT SPs makes sense.

C: TWT ID, broadcast ID is link specific while individual ID is MLD level.

A: both are link level. We are not changing it.

C: Link ID can be included in the frame.

A: Link ID is used for indicating which TWT SP is applied for which link. Not MLD level.

SP is deferred

SP: Do you support to accept the resolution in 11-22/1545r3 for the following CIDs?

13311, 13738, 10733, 12074, 13015, 13057, 13312, 13240, 13657, 13658, 13661

1. [1838r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1838-02-00be-lb266-cr-for-ml-reconfiguration-clause-35-3-6-part-2.docx) CR for ML Reconfig. clause 35.3.6 part 2 Binita Gupta [18C-SP ]

Discussion:

C: 10021, can you add ”successfully” between is and negotiated.

A: established is ok?

C: you mentioned one or more TID mapped to.. may be ambiguous. Any TID? A TID..

C: TID not being mapped to remaining setup links in either direction.

Not finished

Recess at 10:30 PT

### AM2 January 11 2023, (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 10:45 PT. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
	* Please record your attendance during the conference call by using the IMAT system:
		+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair asked whether there is comment about agenda in 11-23/0019r4. The agenda was approved.

 **Submissions**

1. [1189r7](https://mentor.ieee.org/802.11/dcn/22/11-22-1189-06-00be-cr-for-txs-part-1.docx) CR for TXS - part 1 Dibakar Das [27C-SP 20’]

Discussion:

C: Ack frame is include RA. AP sends Ack frame. How is the Ack frame sent?

A: We can have further discussion for mode 1. This case is for P2P.

C: OM seems like over optimization.

A: For second, I think we might need it. We can have separate SP.

C: Highlighted green texts are related to changes. What about blue texts in CID list?

A: Those are already resolved. White CID are related CIDs.

SP is deferred.

1. [1959r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1959-00-00be-lb-266-cr-for-r-twt-related-cids-part2.docx) CR for R-TWT related CIDs Part2 Kumail Haider [25C ]

C: Is the EOT tighltly coupled with TID?

A: No, EOT is general.

C: Then, I think BSR control can indicate it.

C: What does the TID and Queue Size mean in EOT? How can you set those field for EOT set to 1?

C: If STA requests to extend the SP, AP finally decides it? Or just grant it?

A: AP decides it.

C: For SP, there is fairness issue with other R-TWT SPs.

C: Could you have general TWT extension SP?

**SP:** **Do you support to add a new HE variant A-control field to signal TWT SP Extension as resolution to related LB266 CIDs included in 22/1959r0 as Group 3?**

8Y/47N/6A

SP: Do you support to accept the resolution in 11-22/1959r0 for the following CIDs?

10683, 11159, 13656, 11316, 12075, 12474, 12966

No objection

1. [1935r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1935-01-00be-lb266-resolution-for-cid-10924.docx) LB266 - Resolution for CID 10924 Thomas Handte [1C ]

Discussion:

C: The spec already allows EDCA access in TWT SP.

A: EHT SCS does not mention non-trigger-enabled R-TWT SP for UL transmission.

C: I don’t think it needed here.

SP is deferred

1. [2159r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2159-00-00be-cr-for-qmf.docx) CR for QMF Po-Kai Huang [2C ]

Presented but no Q&A due to time out.

Recess at 12:15 PT.

### PM1 January 11 2023, (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 13:30 PT. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
	* Please record your attendance during the conference call by using the IMAT system:
		+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair asked whether there is comment about agenda in 11-23/0019r4. The agenda was approved.

**Submissions**

1. [1201r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1201-03-00be-ml-traffic-indication-using-a-control.docx) ML traffic indication using A-control Vishnu Ratnam [1C-SP 10’]

C: AP indicating this wake up might be problematic. We already have two similar method in the spec. I don’t know we need to define new third thing for same thing.

C: ML traffic indication is more efficient.

C: Is this only for STA to wake up?

C: STA behavior, is there any timer indication? If the channel is busy, STA may not transmit PS-Poll.

C: Do you have TID indication?

C: Can the LI control be used for other case?

A: Cross link power state indication may use this.

SP: Do you support to accept the resolution in 11-22/1201r4 for the following CIDs?

11587

17Y/11N/22A

1. [1539r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1539-02-00be-lb266-cr-for-subclause-35-3-10.docx) CR for subclause 35.3.10 Ming Gan [2C-SP 10’]

C: There is a proposal that I have on this issue, same CID. We need to discuss them together in this group.

A: Two CIDs are quarantined.

SP is deferred.

1. [1844r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1844-01-00be-cr-for-nstrmobileap-part2.docx) CR for 35.3.19 part1 Kaiying Lu [4C-SP 10’]

SP: Do you support to accept the resolution in 11-22/1844r1 for the following CIDs?

10168, 10721, 13007

No objection

1. [1717r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1717-01-00be-lb266-cr-for-subclause-11.docx) LB266 CR for subclause 11 Ming Gan [1C-SP 10’]

SP: Do you support to accept the resolution in 11-22/1717r1 for the following CID?

13471

No objection

1. [2162r1](https://mentor.ieee.org/802.11/dcn/22/11-22-2162-01-00be-comment-resolution-for-cid-11852-13453.docx) CR for CID 11852, 13453 Li-Hsiang Sun [2C ]

C: Maximum A-MPDU Length Exponent Extension in EHT capabilities element is applicable to EHT PPDU or other PPDU? per PPDU type? Or EHT STA? Or that in HE capabilities? Do we have the same requirement for HE PPDU?

SP: Do you support to accept the resolution in 11-22/2162r2 for the following CID?

13453,11852

Note: N/A in table will be N

No objection

1. [2172r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2172-00-00be-lb266-cr-for-cids-in-35-9.docx) CR for CIDs in 35.9 Abdel K. Ajami [8C ]

C: The second sentence (”In addtion..”) is almost same as the first sentence. Why do we need the second sentence? Maybe we can combine the first and second sentences.

The related paragraph was modifed on the air.

C: ”not a member of the upcoming” is added by 13012 to D2.0 but you removed it by another CID 13036.

C: What does ” before starting transmission of any MPDU” means? PPDU is better.

C: if there is not enough time for what? You need to add the text for clarification.

SP: Do you support to accept the resolution in 11-22/2172r0 for the following CIDs?

13307, 11112

1. [2170r2](https://mentor.ieee.org/802.11/dcn/22/11-22-2170-02-00be-lb266-misc-cids.docx) Misc CIDs Gaurang Naik [18C]

C: The current text is correct.

A: You’re refering the old version.

Not finished.

Recess at 15:30 PT

### PM2 January 11 2023 (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 16:00 ET. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
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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) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair asked whether there is comment about agenda in 11-22/0019r5. The agenda was approved.

 **Submissions**

1. [1181r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1181-02-00be-lb266-cr-cl35-emlsr-part1.docx) CR CL35 EMLSR part1 Minyoung Park [5C-SP 10’]

SP: Do you support to accept the resolution in 11-22/1181r3 for the following CIDs?

10052, 12853

No objection

1. [1129r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1129-03-00be-lb266-cr-cl9-emlsr.docx) CR CL9 EMLSR Minyoung Park [1C-SP 10’]

C: Resolution column should include No further change need.

A: I think this is fine.

SP: Do you support to accept the resolution in 11-22/1129r3 for the following CID?

11505

No objection

1. [1204r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1204-04-00be-lb266-cr-cl35-emlsr-part2.docx) CR CL35 EMLSR part2 Minyoung Park [1C-SP 10’]

C: There are benefits that AP recommends non-AP MLD should enable EMLSR. You can change the rejection reason like cannot reach consensus.

A: ok

SP: Do you support to accept the resolution in 11-22/1204r5 for the following CIDs?

10158, 14077

No objection

1. [2174r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2174-00-00be-proposed-resolution-to-lb266-cid-on-emlsr-parameter-indication.docx) Prop. Res. to CID on EMLSR parameter indication Qi Wang [1C ]

C: These parameters are related capabilities. How do you update?

A: Link set is changed like enabled or disabled.

C: I think this is over design.

C: Are you going to have the same value or different value for different link?

C: You can put EMLMR together. Do we need additional bits for it?

C: This is optional for AP side.

A: Reserved for AP. AP reception and following is mandatory

SP is deferred.

1. [2175r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2175-00-00be-proposed-resolutions-to-lb266-cids-on-emlsr-entering-and-exit-process.docx) Prop. Res. to CIDs on EMLSR entering and exit process Qi Wang [3C ]

C: I already commented it. 16 Tus. 8 TU is too small.

A: I’m not running SP today

C: You use every values. No reserved.

C: spread is a little bit weird in the first table.

C: What is the rationale of the added text (less than or equal to 6)?

1. [2184r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2184-00-00be-lb266-cr-for-remaining-cids.docx) LB266 CR for Remaining CIDs Jeongki Kim [2C ]

C: The spec already cover the operation. We can have note for it.

A: Not clearly mention the operation.

C: How does not AP know buffer status of STA?

A: AP can transmit BSRP to STA. STA sends BSR in response.

C: Does the STA enter the doze state during quiet intervals? How can the STA receive CF-End?

A: Some STAs may not enter the doze state. No description of it in the spec

C: Why do we need this operation?

A: STA sets the NAV based on the received Quiet element.

C: Do we need for 1 TU quiet interval?

A: AP should be able to transmit CF-End at least for the interval. Whether AP transmit or not is implementation.

1. 22/1906

C: rTWT membership does not require scs+qos but it can use scs+qos to indicate QoS info optionally

C: I think that's a gap in the spec as pointed out by many comments that you mass-rejected in Bangkok.

C: Can AP announce a new R-TWT according to received QoS requirement?

C: This is NOT adding the capability to allow the rTWT to carry the QoS char element

C: my point is STA's QoS info sharing with the AP should be integrated with R-TWT setup process. I think this was the theme of those CIDs.

 Not finished

Recess at 18:00 PT

### AM1 January 12 2023, (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 09:03 PT. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
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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) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair went through the guidelines for Post-Quarantine during the MAC ad-hoc sessions.
6. The Chair asked whether there is comment about agenda in 11-23/0019r5. The agenda was approved.

 **Submissions**

1. [0036r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0036-00-00be-lb266-cr-for-ml-reconfig-critical-update-events.docx) CR for ML Reconfig critical update events Binita Gupta [3C-SP 10’]

C: I prefer option 2. TIM broadcast is disabled by Ming’s proposal.

C: It’s not necessary to remove the critical update flag related text. If we have this rule, what is the problem?

C: Two mechanisms are not needed.

C: Why do we need to create new two separate texts?

C: I will run option 1.

To be clear, the list of IEs in 11.2.3.15 will still be considered for critical update. Option 2 is adding MLO specific updates (ML reconfig) to clause 35.3.10. Option 2 is better since MLO specific updates will not cause Check Beacon field to update - this legacy STAs or non-MLO STAs will not be affected for MLO specific updates.

CUF will be set because BPCC will increment.

You proposed the CUF text which can supports this function before (why do we delete it now), and passed the motion (the group agreed).

SP: Do you support to accept option 1 as the resolution in 11-23/0036r1 for the following CIDs?

11433 12806 12807

35y, 21n, 19a

1. [1539r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1539-02-00be-lb266-cr-for-subclause-35-3-10.docx) CR for subclause 35.3.10 Ming Gan [2C-SP 10’]

SP: Do you support to accept the resolution in 11-22/1539r3 for the following CIDs?

11433, 12806

22Y, 26N, 24A

1. [1526r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1526-02-00be-lb266-cr-for-subclause-35-8-2.docx) CR for subclause 35.8.2 Ming Gan [5C-SP 10’]

C: Resolution column of 10050, should be ”revised” (not rejected).

C: one main objection is TSF reference. I’m not very compatible.

A: Reference is same as the current text.

C: Why do we need additonal aligned TWT bitmap?

A: Link ID bitmap is only one bit set to 1. If we have only Link ID bitmap, we need to address time reference issue. Otherwise, we don’t need the text.

C: aligned TWT bitmap is for specific TWT? Not all TWT? Which TWT are aligned?

A: That is specific TWT indicated by TWT element.

SP: Do you support to accept the resolution in 11-22/1526r5 for the following CIDs?

10050

No objection

SP: Do you support to accept the resolution in 11-22/1526r5 for the following CIDs?

12821 13442 13834 13871

20Y, 29N, 22A

Recess at 10:26 PT

### AM2 January 12 2023, (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 10:45 PT. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
	* Please record your attendance during the conference call by using the IMAT system:
		+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair asked whether there is comment about agenda in 11-23/0019r5. The agenda was approved.

 **Submissions**

1. [1188r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1188-02-00be-cr-for-medium-sync-recovery.docx) CR for Medium Sync Recovery Dibakar Das [2C-SP 10’]

C: What is the MIB variable? If the STA set MIB to false, then what does it mean?

C: You have to call it out if you define MIB variable.

The related text was modified with MIB variable.

SP: Do you support to accept the resolution in 11-22/1188r4 for the following CIDs?

13934

16y, 11n, 28a

1. [1671r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1671-03-00be-lb266-cr-for-clause-35-17.docx) CR-for-Clause-35.17 Arik Klein [4C-SP 10’]

C: EPCS is different from emergency service.

C: Is this to define different service under the same umbrell?

A: Yes

SP: Do you support to accept the resolution in 11-22/1671r3 for the following CIDs?

10326, 12695, 12696, 12697

17Y, 25N, 13A

1. [1903r5](https://mentor.ieee.org/802.11/dcn/22/11-22-1903-05-00be-lb266-cr-for-misc-cids.docx) CR for misc CIDs Laurent Cariou [8C-SP 10’]

C: Probe request part, AP related text should be moved before STA related text.

C: what does ”may not” mean? We usually may include. Not use may not.

A: Both are same meaning.

C: may omit other element

C: Do we need to specify the receiver? EHT AP?

C: Think about general method more because we have several group addressed frame transmission methods including DMS.

C: Why do we need this AP operation? Confusing about shall not discard. How about shall follow some procedure rather than shall not discard? This is too obvious.

SP: Do you support to accept the resolution in 11-22/1903r6 for the following CIDs?

12803, 12804, 11326, 10072, 13355, 11325, 13356

No objection

SP: Do you support to accept the resolution in 11-22/1903r6 for the following CIDs?

12818

14Y, 15N, 24A

1. [1436r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1436-04-00be-cr-for-9-4-2-316-qos-charateristics-element-part-1.docx) CR for 9.4.2.316 QoS charateristics IE Part 1 Duncan Ho [1C-SP 10’]

C: Do we need the case that the Intra-Access Category Priority element is not present?

We can have offline discussion.

SP: Do you support to accept the resolution in 11-22/1436r7 for the following CIDs?

12972

No objection

1. [1489r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1489-00-00be-lb266-cr-for-misc-cids.docx) lb266-cr-for-MISC-CIDs Jason Y. Guo [6C ]

Presented but no Q&A due to no time

Recess at 12:15 PT.

### PM1 January 12 2023, (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 13:30 PT. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
	* Please record your attendance during the conference call by using the IMAT system:
		+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair asked whether there is comment about agenda in 11-23/0019r5. The agenda was approved.

**Submissions**

1. [1782r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1782-02-00be-lb266-cr-for-10013.docx) lb266-for-CR10013 Jay Yang [1C-SP 10’]

C: On this case, mainly wondering about AP might be listen the radio? Could you defer the SP?

C: Not sure new text is needed.

C: defering means to schedule tomorrow?

1. [1239r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1239-04-00be-lb266-cr-for-35-3-16-4.docx) LB266 CR for 35.3.16.4 Yunbo Li [2C-SP 10’]

SP: Do you support to accept the resolution in 11-22/1239r4 for the following CIDs?

13055, and 13056

No objection

1. [1860r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1860-03-00be-lb-266-cr-for-emlsr-misc.docx) CR for EMLSR Misc Frank Hsu [3C-SP 10’]

C: Overall it’s complicate.

C: You can set the delay to 0.

C: support this case. Two additional field can be useful. But we can add one more exception like

The AP affiliated with the AP MLD should transmit before the TXNAV timer expires another initial Control frame addressed to the (#12242)non-AP STA affiliated with the non-AP MLD if the AP intends to continue the frame exchanges with the STA and did not receive the response frame from this STA for the most recently transmitted frame that requires an immediate response after a SIFS.

C: Do you also consider other cases that initial control frame may not be transmitted?

SP: Do you support to accept the resolution in 11-22/1860r3 for the following CIDs?

10038, 10777, 12812

14y, 27n, 19a

1. [1452r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1452-03-00be-lb266-cr-for-35-17-3-part-3.docx) CR-for-35-17-3-part 3 Yonggang Fang [4C-SP 10’]

SP: Do you support to accept the resolution in 11-22/1452r3 for the following CIDs?

10473, 10474, 10888, 10889

12y, 27n, 19a

1. [2170r3](https://mentor.ieee.org/802.11/dcn/22/11-22-2170-03-00be-lb266-misc-cids.docx) Misc CIDs Gaurang Naik [18C Cont.]

C: CID 13894, you rejected. ML element can be added in Per STA profile. The text is already in the spec.

A: ok

C: 35.7.3, what you removed, this text is correct to me. Is it for only non-TB text? Removed text?

C: The last CID, why we do not define the EMLMR Transision delay? I think it would be better to unify them.

A: There is related document.

SP: Do you support to accept the resolution in 11-22/2170r5 for the following CIDs?

11098, 11449, 11450, 12368, 13215, 13689, 13894, 13321, 13729, 10706, 11938

No objection

1. [2168r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2168-00-00be-lb266-cr-for-cid-10096.docx) CR for CID 10096 Yunbo Li [1C ]

SP: Do you support to accept the resolution in 11-22/2168r0 for the following CID?

10096

No objection

1. [2164r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2164-00-00be-epcs-and-fast-tranisition.docx) EPCS and Fast Tranisition John Wullert [5C ]

C: EPCS is optional but the text is shall text . you can consider.

SP is deferred

1. [2201r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2201-00-00be-cr-for-miscellaneous-cids-iv.docx) CR for Miscellaneous CIDs IV Po-Kai Huang [1C ]

C: No further changes, you can add the related document with CID.

SP: Do you support to accept the resolution in 11-22/2201r1 for the following CID?

10487

No objection

1. [1943r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1943-01-00be-cr-13063-13773-for-35-2-1-2-3.docx) CR 13063 13773 for 35.2.1.2.3 Dmitry Akhmetov [5C-SP 10’]

C: 11022, It can be left by implementation.

SP: Do you support to accept the resolution in 11-22/1943r3 for the following CIDs?

13063, 13773, 12756 11866

No objection

SP: Do you support to accept the resolution in 11-22/1943r3 for the following CIDs?

11022

18Y, 14N, 18A

1. [1944r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1944-00-00be-deferred-cr-for-clause-35-3-16-6.docx) Deferred CR for Clause 35.3.16.6 Dmitry Akhmetov [4C-SP 10’]

Not finished

Recess at 15:30 PT

### PM2 January 12 2023 (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 16:00 ET. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
	* Please record your attendance during the conference call by using the IMAT system:
		+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair asked whether there is comment about agenda in 11-22/0019r5. The agenda was approved.

 **Submissions**

1. [1944r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1944-00-00be-deferred-cr-for-clause-35-3-16-6.docx) Deferred CR for Clause 35.3.16.6 Dmitry Akhmetov [4C-SP 10’]

C: 12426 resolution text, which part do you want to change? There is no editor instruction.

C: text is hard to read.

C: add the full link 11-22/xxxxr1 of the document number in resolution instead of the last four digits.

C: 13956, I don’t think the change is necessary. Highlighted yellow text.

C: If the link 1 and link 3 are STR, they has separate backoff. If we allow this rule, we also need to change end time alignment.

SP: Do you support to accept the resolution in 11-22/1944r1 for the following CIDs?

12426, 10716, 12441

No objection

SP: Do you support to accept the resolution in 11-22/1944r1 for the following CIDs?

12409

7Y, 26N, 19A

SP: Do you support to accept the resolution in 11-22/1944r1 for the following CIDs?

13956

7Y, 28N, 18A

1. [1661r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1661-04-00be-lb266-cr-for-35-17-3-part-4-rtwt.docx) CR for 35-17-3 part 4-rTWT Yonggang Fang [8C-SP 10’]

C: don’t need two notes. reject. features are independent.

C: NOTE 2 is already allowed.

A: Offline discussion, EPCS device cannot use EDCA parameters. In the spec, STA should not transmit frames inside and outside of broadcast TWT SP.

C: That’s should operation. If device decides, the STA can transmit.

SP: Do you support to accept the resolution in 11-22/1661r4 for the following CIDs?

14083

This SP is deferred.

SP: Do you support to accept the resolution in 11-22/1661r4 for the following CIDs?

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

10Y, 27N, 12A

1. [1827r5](https://mentor.ieee.org/802.11/dcn/22/11-22-1827-05-00be-lb266-cr-mainly-related-to-35-9-3-r-twt-announcement.docx) LB266 CR mainly related to 35.9.3 r-twt announcement Chunyu Hu [15C]

C: OBSS anouncement is complex. Whole OBSS issue.

C: what about operation of AP receiving neighbor Aps information?

C: What is the behavior of STA with value 3? We can defer to wi-fi 8.

SP: Do you support to accept the resolution in 11-22/1827r5 for the following CIDs?

10390, 10902, 13026, 13302, 13103, 13027, 13028, 13303, 10066, 13089, 10065, 13088, 12462, 10067, 13090,

15Y, 40N, 13A

1. [1683r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1683-03-00be-lb-266-cr-for-capability-update-notification.docx) CR for Capability Update Notification Frank Hsu [1C-SP ]

C: I need more time to review this.

A: ok

1. [1838r5](https://mentor.ieee.org/802.11/dcn/22/11-22-1838-02-00be-lb266-cr-for-ml-reconfiguration-clause-35-3-6-part-2.docx) CR for ML Reconfig. clause 35.3.6 part 2 Binita Gupta [18C-SP ]

C: all remainin enabled links? Not setup links?

C: for the last paragraphs, we don’t need EMLMR. No benefit.

C: status code is corner case. It’s not useful.

C: What if the remaining EMLSR is disabled?

A: all EMLSR links are disabled. Nothing happens.

A: I added enabled.

C: suggest using TID-to-link mapping instead of T2LM

C: a TID mapped only one link and the corresponding AP deleted. What does happned to the TID?

SP: Do you support to accept the resolution in 11-22/1838r5 for the following CIDs?

10021 11640 13067 13987 10022 13068 10073 10095 10633 11103 13281 13282 13900

No objection

SP: Do you support to accept the resolution in 11-22/1838r5 for the following CIDs?

11636 10634

18y, 26n, 16a

Recess at 18:00 PT

### AM1 January 13 2023, (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 09:03 PT. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
	* Please record your attendance during the conference call by using the IMAT system:
		+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair went through the guidelines for Post-Quarantine during the MAC ad-hoc sessions.
6. The Chair asked whether there is comment about agenda in 11-23/0019r6. The agenda was approved.

 **Submissions**

1. [1189r6](https://mentor.ieee.org/802.11/dcn/22/11-22-1189-07-00be-cr-for-txs-part-1.docx) CR for TXS - part 1 Dibakar Das [27C-SP 10’]

C: You generalized P2P STA to general STA that is not the associated AP. Is it your intention?

A: There is already the text related to P2P STA in spec.

SP: Do you support to accept the resolution in 11-22/1189r8 for the following CIDs?

11704 10078 10079 13252 13845 11089 11252 11092 13962 11927 11928 11767 13318 13771 12985 13975 12506 10216 12374 12507 12989 13254 11540 14029 10017 11637 13774 13775 10726 11535, 11536 11701 12835 12990 11848, 12494, 13484, 11539 12505 12987 14098 12988 11538 13884 13064 12990

No objection

1. [1583r5](https://mentor.ieee.org/802.11/dcn/22/11-22-1583-05-00be-cr-for-35-3-14.docx) CR for 35.3.14 Po-Kai Huang [2C-SP 10’]

C: You’re not changing the behavior of a single link. I’m not sure the text ”rather than immediately as described..”.

A: I don’t want to define the threshold. This is not immediately.

C: This scheme may be broken by side.

C: clause number is 35.3.24.2

C: There is not TWT requesting STA of the intended link.

C: You mentioned we cannot use EML OMN

C: why do we need existing TXOP.

C: You deleted next SP.

C: Is there any time limit when cross link TWT SP is terminated after TWT Information frame?

C: i think what you are referring to is cross link PS which is not achieved via TWT Info frames

C: Very likely STA is gone, when it sends TWT Information frame, so the remainder of the TWT SP is lost anyway...

C: I think the same link and cross-link handling in STA are likely similar...

SP: Do you support to accept the resolution in 11-22/1583r6 for the following CIDs?

13386, 12487

Technical Submissions**: CRs**

1. [1756r7](https://mentor.ieee.org/802.11/dcn/22/11-22-1756-07-00be-lb266-cr-cl35-emlsr-part4.docx) CR CL35 EMLSR part4 Minyoung Park [2C-SP ]

C: Can you defer two CIDs (13414, 13811)?

A: we can defer one of them for the second sentence.

C: Why do you mention initial control frame? Is it MU-RTS frame?

A: There were different interpretation on OMN frame transmission for enabling disabling EMLSR. If the STA transmits action frame, whether it’s EMLSR initiation procedure.

C: We can do same as Po-kai’s proposal like as soon as ...

C: I don’t understand this.

C: concern on the second sentence. This is not necessary new action frame.

C: succesfull transmission means ack.

C: this initial control is needed for both disable and enable notification? Is it necessary for the enable case?

C: do you mean for every frame sent by the AP after receiving the EML OMN frame, and before it transmits the EML OMN frame will it have to include an initial control frame?

C: as Sindhu said, given that there is no explicit time value described, it is possible that the AP could begin a new TXOP in PIFS after this one,

so this sets a lower bound on the time allowed for the non-AP transition,

but there is no guarantee that any non-AP STA will find that this time is sufficient,

without an explicit time agreement, it is always possible that the AP sends a new frame before the non-AP STA is ready for it

and the worst that will happen is that the AP TX will fail

and this might or might not happen if the AP simply continues the TXOP

so, so what?

let the AP send more frames

if there is a TX fail, then there is a backoff and you are exactly where this text would leave you - a new TXOP within a few slot times

1. [1828r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1828-01-00be-lb266-cr-mainly-related-to-35-9-5-r-twt-traffic-delivery.docx) LB266 CR mainly related to 35.9.5 r-twt traffic delivery Chunyu Hu [11C ]

C: I don’t think the last line has meaning.

C: TBSR control can be achieved in QoS null frame?

C: we already have the guidance for what traffic can be transmitted in R-TWT SP.

C: Part one can be issue for new SG or TG.

C: We already have high prirority concept for traffic transmission in R-TWT SP.

C: A new BSR based on TID for rTWT (that addresses latency sensitive flows,) but that does not provide timing information, is useless compared to legacy existing BSR (QosControl).

Recess at 10:26 PT

### AM2 January 13 2023, (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 10:45 PT. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
	* Please record your attendance during the conference call by using the IMAT system:
		+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair asked whether there is comment about agenda in 11-23/0019r6. The agenda was approved.

 **Submissions**

1. [1501r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1501-01-00be-11be-d2-0-comment-resolution-35-4.docx) 11be D2.0 Comment Resolution 35.4 Liwen Chu [1C-SP 10’]

Rejection reason is changed.

SP: Do you support to accept the resolution in 11-22/1501r2 for the following CIDs?

10841

No objection

1. [1768r6](https://mentor.ieee.org/802.11/dcn/22/11-22-1768-06-00be-lb266-cr-for-subclause-35-3-16-8-1.docx) LB266 CR for subclause 35.3.16.8.1 Ming Gan [7C-SP 10’]

C: I don’t think this concept can be extended to EMLMR.

C: There is related doument by Liwen. We need to hold on this before the presentation.

SP: Do you support to accept the resolution in 11-22/1768r6 for the following CIDs?

1. [1369r3](https://mentor.ieee.org/802.11/dcn/22/11-22-1369-03-00be-cr-for-some-cids-on-clause-9.docx) CR for some CIDs on clause-9 Morteza Mehrnoush [1C-SP 10’]

SP: Do you support to accept the resolution in 11-22/1369r3 for the following CIDs?

Technical Submissions**: CRs**

1. 1828r1

SP: Do you support to accept the resolution in 11-22/1828r1 for the following CIDs?

10691, 10692, 13037, 13038, 13310, 12768

18y, 38n, 11a

1. [2181r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2181-00-00be-lb266-misc-cids-part-2.docx) LB266 Misc. CIDs- Part 2 Rubayet Shafin [4C ]

C: Scheduling is lower case.

C: Table already says it. The text already is there in the table.

C: This note is confusing to me. Might means AP can als accept the request?

A: Yes.

C: Note is not needed

C: Agree note is not needed. Table 9-339a already captures this.

SP: Do you support to accept the resolution in 11-22/2181r2 for the following CIDs?

11024

No objection

1. [2178r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2178-00-00be-lb266-cr-for-cid-13756.docx) lb266-cr-for-CID-13756 Jason Y. Guo [1C ]

SP: Do you support to accept the resolution in 11-22/2178r0 for the following CIDs?

13756

17Y, 22n, 18a

1. [2152r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2152-00-00be-remaining-11be-cids-misc.docx) Remaining 11be CIDs-misc George Cherian [8C ]

11579 is deferred

C: Po-kai changes STA to non-AP STA, but you change non-AP STA to STA.

SP: Do you support to accept the resolution in 11-22/2152r1 for the following CIDs?

11578, 12386, 12428, 13002, 13398, 13399, 13673

No objection

1. [1906r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1906-00-00be-lb266-cr-for-r-twt-related-to-qos-characteristics-and-scs.docx) CR for R-TWT related to QoS Characteristics and SCS Binita Gupta [9C ]

C: Why do you want to introduce the controversial text?

A: If there is an issue, we can address in next round

C: why do we need either before or after text?

A: I’m ok with removing it.

C: what is the benefit of add this new text?

SP: Do you support to accept the resolution in 11-22/1906r1 for the following CIDs?

13020, 13229, 13233, 12319, 12320

No objection

Recess at 12:15 PT.

### PM1 January 13 2023, (TGbe MAC ad hoc meeting)

Chairman: Liwen Chu (NXP)

Secretary: Jeongki Kim (Ofinno)

This meeting took place using a webex and in San Diego.

**Introduction**

1. The Chair (Liwen, NXP) calls the meeting to order at 13:30 PT. The Chair introduces himself and the Secretary.
2. The Chair goes through the 802 and 802.11 IPR policy and procedures and asks if there is anyone that is aware of any potentially essential patents.
	1. Nobody responds.
3. The Chair goes through the IEEE copyright policy.
4. The Chair recommends using IMAT for recording the attendance.
	* Please record your attendance during the conference call by using the IMAT system:
		+ 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	* If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim.ieee@gmail.com)
5. The Chair asked whether there is comment about agenda in 11-23/0019r6. The agenda was approved.

**Submissions**

1. [1745r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1745-01-00be-lb266-cr-for-dynamic-nstr-capability-update.docx) CR for Dynamic NSTR Capability update Yunbo Li [3C-SP 10’]

SP: Do you support to accept the resolution in 11-22/ 1745r1 for the following CIDs?

12439, 12524, 13640, 13212

No objection

1. [1480r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1480-02-00be-lb266-cr-for-clause-9.docx) CR for Clause 9 Gaurang Naik [8C-SP 10’]

C: SRS Support: Non-AP MLD is capable of generating is transmit side. You changed to receiving is receiver side. Is it aligning with other texts?

C: Simplicity is adding generating and receiving.

A: If the non-AP ML is associated with an AP MLD, then is capable of generating. We can separate them.

C: can you move ”If...” to after the subfield?

C: NSTR mobile AP MLD only covers only receiving? Is it generating?

SP: Do you support to accept the resolution in 11-22/ 1480r3 for the following CIDs?

13100, 12936, 11516

No objection

1. 1373r5

C: I want to review and double check. Can you defer?

A: Ok

1. [1782r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1782-02-00be-lb266-cr-for-10013.docx) lb266-for-CR10013 Jay Yang [1C-SP 10’]

SP: Do you support to accept the resolution in 11-22/1782r3 for the following CIDs?

10013

No objection

Technical Submissions**: CRs**

1. [2165r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2165-00-00be-cr-for-miscellaneous-cids-iii.docx) CR for Miscellaneous CIDs III Po-Kai Huang [1C ]

C: STA statistics is still under discussion.

C: Event Request frame requests all events?

SP deferred.

SP: Do you support to accept the resolution in 11-22/2165r1 for the following CIDs?

11965

1. [2153r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2153-00-00be-lb266-cr-for-cid-12485.docx) LB266 CR for CID 12485 Jeongki Kim [1C ]

SP: Do you support to accept the resolution in 11-22/2153r0 for the following CIDs?

5y, 35n, 8a

1. [2183r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2183-00-00be-lb266-cr-for-cid-12488.docx) LB266 CR for CID 12488 Jeongki Kim [1C ]

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

1. 1796r0

SP: Do you support to accept the resolution in 11-22/1796r0 for the following CIDs?

10062 10366 12393 12707 12765 12785 12786 13085 13667 13820

26y, 20n, 10a

Adjourned at 15:16 PT