IEEE P802.11
Wireless LANs

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| LB275 11be D4.0 comment 35.3.18 |
| Date: 2023-09-07 |
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Abstract

This submission proposes resolutions for multiple comments related to TGbe D4.0 with the following CIDs:

 19587, 19588, 19295, 19840, 19842, ~~19979, 19848, 19728, 19847, 19846,~~ 19843

Revisions:

* Rev 0: Initial version of the document.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbe Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbe Editor: Editing instructions preceded by “TGbe Editor” are instructions to the TGbe editor to modify existing material in the TGbe draft. As a result of adopting the changes, the TGbe editor will execute the instructions rather than copy them to the TGbe Draft.***

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| **CID** | **PP** | **LL** | **Comment** | **Proposed Change** | Resolution |
| 19587 | 568 | 32 | "in multiple links" is not correct | change to "on multiple links" | Accepted |
| 19588 | 568 | 32 | EMLMR mode allows UL frame exchange with EMLMR Supported MCS And NSS too. | change to bullets: 1) to listen.... 2) to EDCA and do frame exchange with EMLMR Supported MCS And NSS. | RejectedDiscussion: this paragraph is just introduction. The full protocol description is in the subclause that follows the first paragraph.  |
| 19295 | 568 | 35 | The abbreviations Nss is not defined in the document it would be clearer if the meaning is spelled out. In addition, the phrase "satisfy the MCS, Nss capabilities in the EMLMR mode" is not clear | Replace "...whose Nss satisfy..." with "...whose number of spatial streams (Nss) satisfies...".Replace "...frame exchanges that satisfy the MCS, Nss capabilities..." with "...frame exchanges that satisfy the MCS and spatial stream capabilities...". | RevisedDiscussion generally agree with the commenter. However “Nss” should be changed to “”.TGbe editor: Please replace "...whose Nss satisfy..." with "...whose number of spatial streams () satisfies...".And replace "...frame exchanges that satisfy the MCS, Nss capabilities..." with "...frame exchanges that satisfy the MCS and spatial stream () capabilities...". |
| 19840 | 568 | 36 | The spec has N\_ss, NSS and Nss used in different places. Please unify. | As in the comment. | RevisedDiscussion: at P568L57, P570L45, P570L50, “NSS” is used since it is defined as part of the field name “EMLMR Supported MCS And NSS Set”. At P568L55, P568L63, P568L64, “” is used as the number of spatial stream. N\_ss can’t be found in 35.3.18. However “Nss” at L35, L36 should be changed to “”.TGbe editor: see 19295. |
| 19842 | 568 | 60 | Why is a 20MHz-only non-AP EHT STA not allowed to be an EMLMR STA? | Please clarify. | RejectedDiscussion: the non-AP MLD with 20MHz STA in 5/6 GHz link is IOT device, and should be implemented as simple as possible. The STA in 2.4 GHz link will be part of STR link pair whose support of EMLMR can’t help the throughput improvement. |
| 19979 | 568 | 29 | While a non-AP MLD is communicating with its associated AP MLD and is operating under the EMLMR mode, how it is possible for the non-AP MLD to establish one or multiple peer-to-peer links with another peer non-AP MLD is not clear based on the latest IEEE 802.11be specification. Also, the P2P setup procedure, while operating in the EMLMR mode, is currently missing in the spec. | Please provide text on the procedures to transition into P2P mode when the non-AP MLD has been in EMLMR mode with its associated AP MLD. | RejectedDiscussion: there is no P2P MLD setup protocol in 11be. Between two non-AP MLDs, a single link TDLS with no MLD operation can be established. |
| 19848 | 569 | 45 | Clarification is required on how group-addressed frames are received by an EMLMR device | Please provide details. | RejectedDiscussion: it is up to the non-AP MLD to decide the link for receiving the Beacon and group-addressed frames. |
| 19728 | 568 | 31 | Is it not clear that once the initial control frame transmitted by the AP, all the links whose link IDs correspond to the bits in the EMLMR Link Bitmap subfield set to 1 are enabled or some of the links whose IDs correspond to the bits in the EMLMR Link Bitmap subfield set to 1 are enabled? | Please clarify that after the initial frame sent by the AP, it is to enable all links whose corresponding bits in the EMLMR Link Bitmap subfield are set to 1 or it can enable part of links whose corresponding bits in the EMLMR Link Bitmap subfield are set to 1 . | RejectedDiscussion: the initial control frame has no influence to the EMLMR links being enabled or disabled. The EMLMR links being enabled or disabled are decided by the TID-to-link mapping. |
| 19847 | 571 | 1 | If two EMLSR STAs affiliated with a non-AP MLD obtain TXOPs that overlap and initiate frame exchanges with the respective APs affiliated with AP MLD, are there any restrictions on their TXOP duration or end times? | Please clarify. | RejectedDiscussion: several similar comments were submitted where the group rejected them. The following is the resolution agreed by the group in LB 271 for comment 19522The comment fails to identify a technical issue. The spec clarifies what the behavior is on the eMLMR links which is required to provide the desired functionality. Defining functionality for the other links adds to the complexity while not providing much gains. Please note that if the non-AP MLD intends to use the multiple links it can always move to operate as an MLMR MLD. |
| 19846 | 571 | 1 | If an EMLMR STA affiliated with a non-AP MLD obtains a TXOP and transmits a frame to the AP MLD, is another AP affiliated with the AP MLD allowed to initiate a frame exchange with another EMLSR STA of the non-AP MLD during that TXOP? | Please clarify. | RejectedDiscussion: several similar comments were submitted where the group rejected them. The following is the resolution agreed by the group in LB 271 for comment 16429The comment fails to identify a technical issue. The spec clarifies what the behavior is on the eMLMR links which is required to provide the desired functionality. Defining functionality for the other links adds to the complexity while not providing much gains. Please note that if the non-AP MLD intends to use the multiple links it can always move to operate as an MLMR MLD. |
| 19843 | 569 | 45 | "When an AP affiliated wit han AP MLD transmits a PPDU that initiates a frame exchange..." Does this apply to group-addressed frames? | Consider rephrasing to: "When an AP affiliated with an AP MLD transmits an individually-addressed PPDU that initiates ...." | RejectDiscussion: the sentence mentions that the PPDU carries indivifually addressed frame. |