IEEE P802.11  
Wireless LANs

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| LB 266 Resolution for EMLMR Supported MCS And NSS Set related CIDs | | | | |
| Date: 2022-08-24 | | | | |
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Abstract

This submission proposes resolutions for the following CIDs for TGbe LB266:

10043 10369 10509 14080

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.***

***TGbe editor: The baseline for this document is 11be D2.0.***

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| **CID** | **Commenter** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 10043 | Morteza Mehrnoush | 35.3.18 | 467.08 | From the current text, it's not clear what is the RX Max NSS and TX Max NSS should be set for NSS in EMLMR Supported MCS and NSS Set subfield. Is the max RX and TX NSS should be larger than or sum of each links RX and TX spatial streams? | please specify what is the max TX/RX NSS in EMLMR mode of operation | Rejected  Based on the current specification, it is clear that a non-AP MLD in EMLMR mode shall be able to support the TX/RX NSS up to the value indicated in the EMLMR Supported MCS And NSS Set subfield, meaning that such values are the max TX/RX NSS in EMLMR mode and should be smaller than or equal to the sum of each EMLMR link’s RX/TX NSS. |
| 10369 | Tomoko Adachi | 35.3.18 | 467.06 | "An MLD with dot11EHTEMLMROptionImplemented equal to true shall indicate the number of spatial streams NSS that a non-AP MLD supports ..." "An MLD" at the beginning should be the same with "a non-AP MLD" in the middle of the sentence. | Change it to read "An non-AP MLD with dot11EHTEMLMROptionImplemented equal to true shall indicate the number of spatial streams NSS that the non-AP MLD supports ...". | Revised  Agree with the commenter. Also made some editorial changes.  **Instruction to the editor**, ***please make the following changes with the CID tag 10369(doc.: IEEE 802.11-22/1743r0).*** |
| 10509 | Eldad Perahia | 35.3.18 | 467.06 | "shall indicate the number of spatial streams N SS that a non-AP MLD supports". Is this per link (and a field per link) or a single value for all links? | clarify | Revised  EMLMR Supported MCS And NSS Set subfield contains 1-3 MCS maps and each corresponds to one BW, so a non-AP MLD can determine its capabilities on each EMLMR link by checking the MCS maps given the link’s BW. The values in these MCS maps are for all links.  **Instruction to the editor**, ***please make the following changes with the CID tag 10509(doc.: IEEE 802.11-22/1743r0).*** |
| 14080 | Ming Gan | 35.3.18 | 468.22 | per-link spatial stream capabilities are also defined in Per STA Profile of ML element | add " Per STA Profile subfield of basic Multi-Link element" | Revised  Agree with the commenter. Add the field that defines STA’s per-link spatial stream capabilities to the location identified by the commenter.  **Instruction to the editor**, ***please make the following changes with the CID tag 14080(doc.: IEEE 802.11-22/1743r0).*** |

**Proposed Text Change:**

**TGbe editor**: ***at P467-468 of IEEE P802.11be™/D2.0,*** ***please make the followin***g ***changes in 35.3.18 Enhanced multi-link multi-radio operation***

(#10369)A non-AP MLD with dot11EHTEMLMROptionImplemented equal to true shall indicate the number of spatial streams NSS that a non-AP MLD supports for reception and transmission (#10509)on each EMLMR link during EMLMR operation in the EMLMR Supported MCS And NSS Set subfield of the EML Control field of the EML Operating Mode Notification frame.

…

When a non-AP MLD operates in the EMLMR mode, after (#10369)the initial frame exchange subject to its per-link spatial stream capabilities and operating mode defined by the exchanged Operating Mode Notification frame, (EHT) OM control on one of the EMLMR links, the non-AP MLD shall be able to support the following until the end of the frame exchange sequence initiated by the initial frame exchange:

* Receive PPDUs with the number of spatial streams up to the value as indicated in the EMLMR Supported MCS And NSS Set subfield of the EML Control field of the EML Operating Mode Notification frame, at a time on the link (#10369)when the initial frame exchange was made.
* Transmit PPDUs with the number of spatial streams up to the value as indicated in the EMLMR Supported MCS And NSS Set subfield of the EML Control field of the EML Operating Mode Notification frame, at a time on the link (#10369)when the initial frame exchange was made.

After the end of the frame exchange sequence, each STA affiliated with the non-AP MLD in the EMLMR mode shall be able to transmit or receive PPDU, subject to its per-link spatial stream capabilities (#14080)indicated in the Supported EHT-MCS And NSS Set field of the EHT Capabilities element and operating mode defined by the exchanged Operating Mode Notification frame, (EHT) OM control, and subject to any switching delay indicated by the non-AP MLD.