IEEE P802.11  
Wireless LANs

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| LB266 Comment Resolution Clause 9 EMLSR | | | | |
| Date: 2022-7-13 | | | | |
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Abstract

This submission proposes comment resolution(s) for the following 10 CID(s) received in LB266 on TGbe D2.0 related to 9.4.1.74 EML Control field:

CIDs:

12774, 12775, 13049, 13458, 13747, 10154, 12406, 11381, 12861, 11897

Revisions:

* Rev 0: Initial version of the document.

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| **CID** | **Commenter** | **Clause Number** | **Page.**  **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 12774 | Romain GUIGNARD | 9.4.1.74 | 190.32 | In the figure 9-144i, EMLMR link bitmap size is 0 or 16 bits while the EMLSR Link Bitmap size is 16 bits. Does it mean that EMLSR Link bitmap is mandatory whatever the value of the EMLSR mode while the EMLMR Link bitmap presence is linked to the value of the EMLMR mode. | Could you please clarify the criteria (if any) of the presence of the EMLSR link bitmaps? | Revised.  The EMLSR Link Bitmap subfield is present when the EMLSR Mode subfield is set to 1 and not present when the EMLSR Mode subfield is set to 0.  TGbe editor to make the changes with the CID tag (#12774) in doc.: IEEE 802.11-22/1129r0  [https://mentor.ieee.org/802.11/dcn/22/11-22-1129-00-00be-lb266-cr-cl9-emlsr.docx] |
| 12775 | Romain GUIGNARD | 9.4.1.74 | 190.32 | As stated in this paragraph, the EMLSR and EMLMR mode are mutually exclusive. In that case, why have two separated link bitmap while only one should be enough.By merging the two bitmap into one, we can easily save some bits. It is only few bits to save but if we may save some bits in any frame when possible we could ultimately avoid wasting bandwidth. | Could you consider to merge the two EML bitmaps into one? | Revised.  The EMLSR Link Bitmap subfield is present when the EMLSR Mode subfield is set to 1 and not present when the EMLSR Mode subfield is set to 0.  TGbe editor to make the changes with the CID tag (#12775) in doc.: IEEE 802.11-22/1129r0  [https://mentor.ieee.org/802.11/dcn/22/11-22-1129-00-00be-lb266-cr-cl9-emlsr.docx] |
| 13049 | Huizhao Wang | 9.4.1.74 | 190.40 | Because EMLSR and EMLMR are mutually exclusive, only one Link Bitmap sub field is needed, please remove the the redundant Link Bitmap subfield | As suggested in the comment | Revised.  The EMLSR Link Bitmap subfield is present when the EMLSR Mode subfield is set to 1 and not present when the EMLSR Mode subfield is set to 0.  TGbe editor to make the changes with the CID tag (#13049) in doc.: IEEE 802.11-22/1129r0  [https://mentor.ieee.org/802.11/dcn/22/11-22-1129-00-00be-lb266-cr-cl9-emlsr.docx] |
| 13458 | Liwen Chu | 9.4.1.74 | 190.43 | Change the bits of EMLSR Link Bitmap to "0 or 16" | As in comment | Revised.  The EMLSR Link Bitmap subfield is present when the EMLSR Mode subfield is set to 1 and not present when the EMLSR Mode subfield is set to 0.  TGbe editor to make the changes with the CID tag (#13458) in doc.: IEEE 802.11-22/1129r0  [https://mentor.ieee.org/802.11/dcn/22/11-22-1129-00-00be-lb266-cr-cl9-emlsr.docx] |
| 13747 | Yuchen Guo | 9.4.1.74 | 190.43 | Is the EMLSR Link Bitmap subfield always present? It seems that it's not needed if the EMLSR Mode subfield is set to 0 | change 16 to 0 or 16 | Revised.  The EMLSR Link Bitmap subfield is present when the EMLSR Mode subfield is set to 1 and not present when the EMLSR Mode subfield is set to 0.  TGbe editor to make the changes with the CID tag (#13747) in doc.: IEEE 802.11-22/1129r0  [https://mentor.ieee.org/802.11/dcn/22/11-22-1129-00-00be-lb266-cr-cl9-emlsr.docx] |
| 10154 | Julien Sevin | 9.4.1.74 | 190.48 | As an non-AP MLD may operate either in EMLSR mode or in EMLMR mode, it is useless to include the two fields EMLSR bitmap and EMLMR bitmap. | As the EML Bitmap field inherits from the EML mode support declared in EML Capabilities, use only one bitmap field referred to as EML bitmap field to indicate the EMLSR links or the EMLMR links | Revised.  The EMLSR Link Bitmap subfield is present when the EMLSR Mode subfield is set to 1 and not present when the EMLSR Mode subfield is set to 0.  TGbe editor to make the changes with the CID tag (#10154) in doc.: IEEE 802.11-22/1129r0  [https://mentor.ieee.org/802.11/dcn/22/11-22-1129-00-00be-lb266-cr-cl9-emlsr.docx] |
| 12406 | Sebastian Max | 9.4.1.74 | 190.48 | According to the first two paragraphs the EMLSR mode and the EMLMR mode are mutually exclusive (if one is set to 1 the other one has to be 0). The EMLSR Link Bitmap shall be included in the EML Control field even if the EMLSR Mode is 0, which is not necessary. | (a) change the number of bits of the EMLSR Link Bitmap to "0 or 16" and add a sentence to page 191, line 16: "The EMLSR Link Bitmap subfield is present if the EMLSR Mode subfield is equal to 1 and is not present otherwise", or (b) define a default setting of the EMLSR Link Bitmap in the case the EMLSR Mode subfield is equal to 0, for example all 0. | Revised.  The EMLSR Link Bitmap subfield is present when the EMLSR Mode subfield is set to 1 and not present when the EMLSR Mode subfield is set to 0.  TGbe editor to make the changes with the CID tag (#12406) in doc.: IEEE 802.11-22/1129r0  [https://mentor.ieee.org/802.11/dcn/22/11-22-1129-00-00be-lb266-cr-cl9-emlsr.docx] |
| 11381 | Gaurang Naik | 9.4.1.74 | 191.12 | EMLSR Link Bitmap subfield must not be carried when the EMLSR Mode subfield is zero. Make the EMLSR Link Bitmap subfield optional. It should be included in the EML Control field only when the EMLSR Mode subfield is set to 1. Otherwise, the bitmap should not be present. | Add the following - 'The EMLSR Link Bitmap subfield is present if the EMLSR Mode subfield is equal to 1 and is not present otherwise.' | Revised.  The EMLSR Link Bitmap subfield is present when the EMLSR Mode subfield is set to 1 and not present when the EMLSR Mode subfield is set to 0.  TGbe editor to make the changes with the CID tag (#11381) in doc.: IEEE 802.11-22/1129r0  [https://mentor.ieee.org/802.11/dcn/22/11-22-1129-00-00be-lb266-cr-cl9-emlsr.docx] |
| 12861 | Mikael Lorgeoux | 9.4.1.74 | 191.16 | Contrary to the EMLMR link bitmap, conditions for the presence of EMLSR link bitmap is not indicated. | Add conditions for the presence of EMLSR link bitmap. | Revised.  The EMLSR Link Bitmap subfield is present when the EMLSR Mode subfield is set to 1 and not present when the EMLSR Mode subfield is set to 0.  TGbe editor to make the changes with the CID tag (#12861) in doc.: IEEE 802.11-22/1129r0  [https://mentor.ieee.org/802.11/dcn/22/11-22-1129-00-00be-lb266-cr-cl9-emlsr.docx] |
| 11897 | Alfred Asterjadhi | 9.4.1.74 | 191.23 | Weird formatting of the EML Control field. Have one single Link Bitmap (the one that is always present) and specify that the Link Bitmap is EMLSR Link Bitmap if eMLSR mode and is EMLMR Link Bitmaps if eMLMR mode. And remove the other bitmap that is optionally present. | As in comment. | Revised.  The EMLSR Link Bitmap subfield is present when the EMLSR Mode subfield is set to 1 and not present when the EMLSR Mode subfield is set to 0.  TGbe editor to make the changes with the CID tag (#11897) in doc.: IEEE 802.11-22/1129r0  [https://mentor.ieee.org/802.11/dcn/22/11-22-1129-00-00be-lb266-cr-cl9-emlsr.docx] |

**TGbe Editor to make the following changes in Subclause 9.4.1.74 (EML Control field) in TGbe D2.0**

**9.4.1.74 EML Control field**

B0 B1 B2 B17 B18 B23 B24 B39 B40 B41 B42 B65/89/113

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| EMLSR  Mode | EMLMR  Mode | EMLSR Link Bitmap | Reserved | EMLMR Link Bitmap | MCS Map Count | EMLMR  Supported MCS And NSS Set |

Bits: 1 1 0 or 16 6 0 or 16 0 or 2 variable

**Figure 9-144i—EML Control field format** **(#12774, 12775, 13049, 13458, 13747, 10154, 12406, 11381, 12861, 11897)**

**TGbe Editor to make the following changes in the 3rd paragraph (P191L12) in Subclause 9.4.1.74 (EML Control field) in TGbe D2.0:**

The EMLSR Link Bitmap subfield indicates the subset of the enabled links that is used by the non-AP MLD  
in the EMLSR mode. The bit position *i* of the EMLSR Link Bitmap subfield corresponds to the link with the  
Link ID equal to *i* and is set to 1 to indicate that the link is used by the non-AP MLD for the EMLSR mode  
and is a member of the EMLSR links; otherwise the bit position is set to 0. (#12774, 12775, 13049, 13458, 13747, 10154, 12406, 11381, 12861, 11897)The EMLSR Link Bitmap subfield is present if the EMLSR Mode subfield is equal to 1 and is not present otherwise.