IEEE P802.11  
Wireless LANs

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| LB271 – CR for some CIDs related to 35.3.23 | | | | |
| Date: 2023-03-12 | | | | |
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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 16564 | 35.3.23 | 583.62 | Rephrase the following sentence for better clarity and understanding, as suggested: " A STA affiliated with an MLD has dot11BSSTransitionActivated equal to true (see 11.21.7.1 (BSS transition capability)) and shall follow the procedure... " | The sentence should be revised as follows: " A STA affiliated with an MLD \*that\* has dot11BSSTransitionActivated equal to true (see 11.21.7.1 (BSS transition capability)) shall follow the procedure... " (remove the "and") | Revised – the sentence is correct has a STA affiliated with an MLD always has dot11BSSTransitionActivated set to true. Add a note to clarify that it is because the EHT STA is also an HE STA. Apply the changes marked as #16564 in this document |
| 15570 | 35.3.23 | 584.01 | According to 1.4 (Word Usage) and 4.9.6 (Reference model for multi-link operation (MLO)), an AP MLD has only one SME. There are no such "SMEs of an AP affiliated with an AP MLD". | Change to: The procedure is applied between the SME of an AP MLD and the SME of a non-AP MLD, i.e., at the MLD level. | Revised – agree with the commenter. Apply the changes marked as #15570 in this document |
| 16058 | 35.3.23 | 584.04 | Clarify (e.g. via Note) if a Neighbor Report element which is used to indicate preference for an AP MLD (via Basic ML element in NR) for an EHT STA can also be used to indicate a preference for a BSS of that AP MLD for non EHT STAs (which ignore the Basic ML element). | Clarify as per comment. | Reject – for non-AP MLDm and non-EHT STAs, baseline rules and mechanisms apply. |
| 16991 | 35.3.23 | 584.04 | "BSS Transition Management Query/Request or Response frame" should be "BSS Transition Management Query, Request or Response frame" | As it says in the comment | Accept |
| 17623 | 35.3.23 | 584.32 | Since the Per-STA Profile subelement is not sent until the AP MLD has 3 affiliated links, this is onerous to test. Allow a Per-STA Profile subelement even if already described in the Basic ML element | Try “\* include in the Basic Multi-Link element included in the Neighbor Report element of the reported AP a Per-STA Profile subfield for each of the recommended affiliated APs, and with all the fields set to 0 in the STA Control field, except the Link ID field” | Reject – the comment fails to identify a technical issue. The specification already has a mechanism that covers the scenario. |
| 16992 | 35.3.23 | 584.35 | "If multiple Neighbor Report ..." doesn't work to follow "it shall:" | As it says in the comment | Revised – agree with the commenter. Apply the changes marked as #16992 in this document. |

1. **Introduction**
2. **Proposed spec text**

Tgbe editor: Modify subclause 35.3.23 BSS transition management for MLDs as follows:

###### BSS transition management for MLDs

(#16564)A STA affiliated with an MLD shall follow the procedure defined in 11.21.7 (BSS transition management for network load balancing), except that:

* The procedure is applied between the SME of an AP MLD and the SME of a non-AP MLD and not between the SME of an AP affiliated with an AP MLD and the SME of a non-AP STA affiliated with a non-AP MLD.
* If the Neighbor Report element that is carried in the BSS Transition Candidate List Entries field of a BSS Transition Management (#16991)Query, Request or Response frame includes a Basic Multi-Link element, it describes the preference for a target AP MLD candidate and not for a target BSS candidate, otherwise it describes the preference for a target BSS candidate.
* The Preference field value of a Neighbor Report element that includes a Basic Multi-Link element describing an AP MLD provides the indication of preference for the given AP MLD, within the given list at the given time.
* If an AP MLD intends to provide preference for a reported AP MLD without recommendation on specific affiliated APs, it shall:
  + include a Neighbor Report element for one of the APs affiliated with the AP MLD, and include a Basic Multi-Link element in the Neighbor Report.
  + set to 0 all subfields of the Presence Bitmap subfield.
  + not include any Per-STA Profile subelement in the Basic Multi-Link element.
* If an AP MLD intends to provide preference for a reported AP MLD with only a subset of recommended affiliated APs(#16992):
  + (#16992)It shall include a Neighbor Report element for one of the recommended APs affiliated with the AP MLD, and include a Basic Multi-Link element in the Neighbor Report element of this reported AP.
  + (#16992)It shall include a Link ID Info field in the Common Info field of the Basic Multi-Link element with the field value set to that corresponding to the AP reported in the Neighbor Report element.
  + (#16992)It shall set to 0 all subfields of the Presence Bitmap subfield of the Basic Multi-Link element included in the Neighbor Report element of the reported AP except the Link ID Info Present subfield.
  + (#16992)It shall include in the Basic Multi-Link element included in the Neighbor Report element of the reported AP a Per-STA Profile subfield only for each of the other recommended affiliated APs (if any), and with all the fields set to 0 in the STA Control field, except the Link ID field.
  + If multiple Neighbor Report elements are used to report the same AP MLD with the same recom- mended subset of affiliated APs, the Preference field value in these elements shall be the same. If multiple Neighbor Report elements are used to report the same AP MLD with different recom- mended subset of affiliated APs, the Preference field value in these elements may be different.
* When an AP affiliated with an AP MLD transmits a BSS Transition Management Request frame with the Link Removal Imminent subfield equal to 0 and the Disassociation Imminent field equal to 1 to a non-AP MLD, the Disassociation Timer field in the BSS Transition Management Request frame shall be set to 0 or set to the number of TBTTs that will occur prior to the AP MLD disassociating the non-AP MLD.
* When an AP affiliated with an AP MLD transmits a BSS Transition Management Request frame with the Link Removal Imminent subfield equal to 0 and the BSS Termination Included field equal to 1 to a non-AP MLD, the BSS termination means that the AP MLD is shutting down, and the non- AP MLD will be disassociated from the AP MLD.
* A non-AP MLD that receives a BSS Transition Management Request frame with the Link Removal Imminent subfield equal to 1 follows the procedure defined in [35.3.6.2.2 (Removing affiliated APs)](#bookmark49).

(#16564)NOTE 1—An AP MLD can use this protocol to recommend a non-AP MLD to do (re)association with the same AP MLD with a different set of links, or to initiate a TID-to-link mapping change if that would match the recommendation.

(#16564)NOTE 2 – A non-AP EHT STA is also an HE STA and therefore has dot11BSSTransitionActivated equal to true (see 11.21.7.1 (BSS transition capability))