IEEE P802.11
Wireless LANs

|  |
| --- |
| LB266 CR for 9.6.13.9 and 9.6.13.10 |
| Date: 2022.07.13 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Guogang Huang | Huawei Technologies | F3-6-A124, Huawei Base, Bantian, Longgang, Shenzhen, Guangdong, China, 518129 |  | huangguogang1@huawei.com |
| Yuchen Guo |  |  |  |
| Yunbo Li |  |  |  |
| Yousi Lin |  |  |  |
| Ming Gan |  |  |  |
|  |  |  |  |

Abstract

This submission contains proposed comment resolutions to comments on P802.11be D2.0.

The following CIDs are resolved:

10575, 13490, 12606, 12607, 12608, 12609, 10576

Revisions:

- Rev 0: Initial version of the document.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause** | **Page.****Line** | **Comment** | **Proposed Change** | **Resolution** |
| 10575 | Abhishek Patil | 9.6.13.9 | 261.51 | The text is confusion. Please reword to clearly capture the intention - i.e., 1) the field is reserved if transmitted by an AP that is not affiliated with an AP MLD, 2) it is ignore by a legacy STA, 3) ignore and reserved by MLDs if BSS Termination Included field is set to 0. | Suggest splitting the sentence into bullets so that each case is clearly specified. | REVISEDAgreed in principle. This bullet needs to be rephrased so that all cases are clearly specified. Instructions to the editor:Please implement changes as shown in 11/22-1228r0 tagged as #10575 |
| 13490 | Liwen Chu | 9.6.13.9 | 262.03 | Based on P261L50, BSS Termination Duration is also used for link removal announcement. | update the text per the comment | REVISEDAgreed in principle. The corresponding bullet in Page 261 needs to be accommodated according to the link removal. Instructions to the editor:Please implement changes as shown in 11/22-1228r0 tagged as #13490 |
| 12606 | Arik Klein | 9.6.13.9 | 261.36 | In case of MLD, BSS termination means that only the affiliated AP which belongs to this BSS is being removed (as described in 35.3.6.2.2 Removing affiliated APs). Therefore the following sentence is not correct: "The BSS Termination Included (bit 3) field indicates that the BSS Termination Duration field is included, the BSS \*or the AP MLD is shutting down\*". Please correct the sentence as proposed | The sentence should be revised as follows: "The BSS Termination Included (bit 3) field indicates that the BSS Termination Duration field is included, the BSS is shutting down or the AP affiliated with the AP MLD which belongs to this BSS is being removed" | RevisedAgreed in principle. This bullet needs to be accommodated according to the link removal. In addition, regardless of the link removal, the AP MLD can also indicate that it is shut down by setting the BSS Termination Included field to 1.Instructions to the editor:Please implement changes as shown in 11/22-1228r0 tagged as #13490 |
| 12607 | Arik Klein | 9.6.13.9 | 261.37 | In case of MLD, BSS termination means that only the affiliated AP which belongs to this BSS is being removed (as described in 35.3.6.2.2 Removing affiliated APs). Therefore in such a case the non-AP MLD is not disassociated from the AP MLD (since the AP MLD remains and is not shutting down). therefore the following sentence is incorrect: "The BSS Termination Included (bit 3) field indicates that the BSS Termination Duration field is included, ... and the STA or the non-AP MLD will be disassociated" | Please remove the words "or the non-AP MLDs" from the sentence. | Revised Agreed in principle. This bullet needs to be accommodated according to the link removal. In addition, regardless of the link removal, the AP MLD can also indicate that it is shut down by setting the BSS Termination Included field to 1. In this case, all the STAs and non-AP MLDs will be disassociated. Instructions to the editor:Please implement changes as shown in 11/22-1228r0 tagged as #13490 |
| 12608 | Arik Klein | 9.6.13.9 | 261.59 | The disassociation frame is not sent by the AP MLD, but by any of its affiliated AP. Please revise the following sentence as proposed: "The Disassociation Timer field contains the number of beacon transmission times (TBTTs) until the AP or AP MLD sends a Disassociation frame to this STA or non-AP MLD" | Please revise the sentence as follows:" The Disassociation Timer field contains the number of beacon transmission times (TBTTs) until the AP or AP affiliated with the AP MLD sends a Disassociation frame to this non-MLD STA or STA affiliated with the associated non-AP MLD" | REVISEDAgree in principle. The corresponding text is added.Instructions to the editor:Please implement changes as shown in 11/22-1228r0 tagged as #12608 |
| 12609 | Arik Klein | 9.6.13.9 | 262.04 | In case of MLD, BSS termination means that only the affiliated AP which belongs to this BSS is being removed (as described in 35.3.6.2.2 Removing affiliated APs) and not the AP MLD. Need to revise the following sentence as proposed:" The BSS Termination Duration field contains the BSS Termination Duration subelement (see 9.4.2.36 (Neighbor Report element)) for the current BSS or AP MLD ..." | Please revise the sentence as follows: "The BSS Termination Duration field contains the BSS Termination Duration subelement (see 9.4.2.36(Neighbor Report element)) for the current BSS or AP affiliated with AP MLD which belongs to that BSS" | REJECTEDThe AP MLD can be shut down by setting the BSS Termination Included field to 1. Hence, the BSS Termination Duration field can be used for the AP MLD shutdown. No changes are needed. |
| 10576 | Abhishek Patil | 9.6.13.10 | 262.24 | A non-AP MLD can transition to another AP MLD. BSSID is a link-level concept and a non-AP MLD cannot transition to a BSSID. Is it referring to the case where the non-AP MLD transition to legacy association? Also applies to line 34 on this page. | Please clarify | REJECTEDThe commenter’s understanding is correct. A non-AP MLD can transition to a legacy AP. Instructions to the editor:No changes are needed. |

**9.6.13.9 BSS Transition Management Request frame format**

***TGbe editor: Change the following bullets as follows:***

* The Preferred Candidate List Included (bit 0) field indicates whether the BSS transition candidate list included in this frame is a preferred candidate list or a list of known BSS transition candidates. The Preferred Candidate List Included bit set to 0 indicates that the receiving STA or non-AP MLD can ignore the BSS Transition Candidate List Entries field (see 11.21.7.3 (BSS transition management request)). The Preferred Candidate List Included bit set to 1 indicates that the sender expects the receiving STA or non-AP MLD to process this frame.
* The Abridged (bit 1) field indicates to the recipient of the frame the intended treatment of all BSSIDs or AP MLDs not listed in the BSS Transition Candidate List Entries field. The AP or AP MLD sets the Abridged bit in the Request Mode field to 1 when a preference value of 0 is assigned to all BSSIDs or AP MLDs that do not appear in the BSS Transition Candidate List. The AP or AP MLD sets the Abridged bit in the Request Mode field to 0 when the AP or AP MLD has no recommendation for or against any BSSID or AP MLD not present in the BSS Transition Candidate List Entries field.
* The Disassociation Imminent (bit 2) field indicates whether the STA or the non-AP MLD will be disassociated from the current AP or AP MLD. The value 1 in the Disassociation Imminent bit in the Request Mode field indicates that the STA or the non-AP MLD is to be disassociated from the cur-rent AP or AP MLD, while the value 0 indicates that disassociation from the AP or AP MLD is not imminent.
* [#13490]The BSS Termination Included (bit 3) field indicates whether the BSS Termination Duration field is included.
	+ For an AP that is not affiliated with an AP MLD, the BSS Termination Included field in the Request Mode field is set to 1 to indicate that the BSS will be shut down and the STA will be disassociated.
	+ For an AP MLD that operates with only one affiliated AP, the BSS Termination Included field in the Request Mode field is set to 1 to indicate that the BSS or the AP MLD will be shut down and the STA or the non-AP MLD will be disassociated.
	+ For an AP MLD that operates with more than one affiliated AP, the BSS Termination Included field and the Link Removal Imminent field in the Request Mode field are respectively set to 1 and 0 to indicate that the BSS or the AP MLD will be shut down and the STA or the non-AP MLD will be disassociated. Both the BSS Termination Included field and the Link Removal Imminent field in the Request Mode field are respectively set to 1 to indicate that the current BSS will be shut down and the STA or the non-AP MLD that has only one setup link will be disassociated.
* The ESS Disassociation Imminent (bit 4) field indicates that the Session Information URL field is included, and that the STA or non-AP MLD will be disassociated from the ESS. The value 1 in the ESS Disassociation Imminent bit in the Request Mode field indicates that the STA or the non-AP MLD is to be disassociated from the ESS, while the value 0 indicates that disassociation from the ESS is not imminent. When the ESS Disassociation Imminent bit value is 1, a Session Information URL field is included in the BSS Transition Management Request frame.[#10575]The transmitting AP affiliated with an AP MLD that operates with more than one affiliated AP set both the Link Removal Imminent field and the BSS Termination Included field to 1 to limit the scope of the BSS termination to the link on which the request is being transmitted, and is set to 0 otherwise. The Link Removal Imminent (bit 5) field is ignored by the receiving STA if one of the following conditions is met:
* The receiving STA is not affiliated with a non-AP MLD.
* The receiving STA is affiliated with a non-AP MLD that has only one setup link.
* The receiving STA is affiliated with a non-AP MLD that has more than one setup link and the BSS Termination Included field is set to 0.

The Link Removal Imminent (bit 5) field is reserved if one of the following conditions is met:

* + The transmitting AP is not affiliated with an AP MLD.
	+ The transmitting AP is affiliated with an AP MLD that operates with only one affiliated AP.
	+ The transmitting AP is affiliated with an AP MLD that operates with more than one affiliated AP and the BSS Termination Included field is set to 0.

The Disassociation Timer indicates the time after which the AP or AP MLD issues a Disassociation frame to this STA or this non-AP MLD through an affiliated AP[#12608]. The Disassociation Timer field contains the number of beacon transmission times (TBTTs) until the AP or AP MLD sends a Disassociation frame to this STA or non-AP MLD through an affiliated AP[#12608]. Setting the field to 0 indicates that the AP or AP MLD has not determined when it will send a Disassociation frame to this STA or non-AP MLD. If the Disassociation Imminent field is 0, the Disassociation Timer field is reserved. The format of the Disassociation Timer field is shown in Figure 9-1154 (Disassociation Timer field format).

***Change the eighth paragraph as follows:***

The BSS Termination Duration field contains the BSS Termination Duration subelement (see 9.4.2.36 (Neighbor Report element)) for the current BSS or AP MLD and is present only when the BSS Termination Included field is 1 in the Request Mode field.

**9.6.13.10 BSS Transition Management Response frame format**

***Change the first paragraph as follows:***

The BSS Transition Management Response frame is optionally transmitted by a STA or a STA affiliated with a non-AP MLD in response to a BSS Transition Management Request frame. The format of the BSS Transition Management Response frame Action field is shown in Figure 9-1156 (BSS Transition Management Response frame Action field format).

***Change the fifth to eighth paragraphs as follows:***

The BTM Status Code field contains the status code in response to a BSS Transition Management Request frame as defined in Table 9-511 (BTM status code definitions). If the STA or non-AP MLD will transition to another BSS or the non-AP MLD will transition to another AP MLD, then the status code is 0 (i.e., Accept). If the STA or non-AP MLD intends to retain the association with the current BSS or AP MLD, the status code is one of the “Reject” status codes.

The BSS Termination Delay field is the number of minutes that the responding STA or non-AP MLD requests the BSS or AP MLD to delay termination. This field is reserved if the Status code field value is not set to 5.

The Target BSSID field is the BSSID of the BSS that the non-AP STA or non-AP MLD transitions to or the MLD MAC address of the AP MLD that the non-AP MLD transitions to. This field is present if the Status code subfield contains 0, and not present otherwise.

The BSS Transition Candidate List Entries field contains zero or more Neighbor Report elements described in 9.4.2.36 (Neighbor Report element). The Neighbor Report elements are collected by the STA or non-AP MLD as part of its scanning procedures and provided to the AP or AP MLD as described in 11.21.7.4 (BSS transition management response) and 35.3.25 (BSS transition management for MLDs). The length of the BSS Transition Candidate List Entries field in a BSS Transition Management Response frame is limited by the maximum MMPDU size (see 9.3.3.1 (Format of (PV0) Management frames)).