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.

- Rev 1: Update based on the offline discussion

- Rev 2: Revise the resolution for CID 13490.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 11/22-1228r3 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 11/22-1228r3 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 11/22-1228r3 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 11/22-1228r3 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 paragraph is revised.Instructions to the editor:Please implement changes as shown in 11/22-1228r3 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" | REVISEDThe AP MLD can be shut down by respectively setting the BSS Termination Included field and the Link Removal Imminent field to 1 and 0. Hence, the BSS Termination Duration field can be used for the AP MLD shutdown. However, based on comment, the bullet on the BSS Termination Included field is revised to clarify.Instructions to the editor:Please implement changes as shown in 11/22-1228r3 tagged as #13490 |
| 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 | REVISEDThe commenter’s understanding is correct. A non-AP MLD can transition to a legacy AP. A note is added.Instructions to the editor:Please implement changes as shown in 11/22-1228r3 tagged as #10576 |

**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 and the following:
	+ For an AP that is not affiliated with an AP MLD, it indicates that the corresponding BSS is shutting down and that the STA associated with the AP will be disassociated.
	+ For an AP MLD that operates with only one affiliated AP, it indicates that the AP MLD and the BSS are shutting down and that the STA and the non-AP MLD associated with the AP MLD or the corresponding affiliated AP will be disassociated.
	+ For an AP MLD that operates with more than one affiliated AP,
		- If the Link Removal Imminent field in the Request Mode field is equal to 0, it indicates that the AP MLD and all its BSSs are shutting down and that the STA associated with any affiliated AP and the non-AP MLD associated with the AP MLD will be disassociated.
		- If the Link Removal Imminent field in the Request Mode field is equal to 1, it indicates that the BSS whose AP transmits this BSS Transition Management Request frame is shutting down, the STA associated with the AP or the non-AP MLD that has set up only this link will be disassociated and the non-AP MLD that has set up more than this link will remain associated to the AP MLD with the remaining setup link(s).
* 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]For an AP MLD that operates with more than one affiliated AP, it sets the Link Removal Imminent field (bit 5) to 1 to limit the scope of the BSS termination to the link on which the request is being transmitted if the BSS Termination Included field (bit 3) is set to 1, and otherwise, it sets the field to 0. If a receiving STA is not affiliated with a non-AP MLD, it will ignore the Link Removal Imminent (bit 5) field. When the Link Removal Imminent (bit 5) field is set to 1,
	+ If a receiving STA is affiliated with a non-AP MLD that has set up only this link, then the non-AP MLD will be disassociated.
	+ If a receiving STA is affiliated with a non-AP MLD that has set up more than this link, then the non-AP MLD is still associated to the AP MLD with the remaining setup link(s).

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.

***TGbe editor: Modify this paragraph as follows:***

[#12608]The Disassociation Timer indicates the time after which the AP sends a Disassociation frame to this STA or the AP affiliated with the AP MLD sends a Disassociation frame to this non-AP STA affiliated with this non-AP MLD. The Disassociation Timer field contains the number of beacon transmission times (TBTTs) until the AP sends a Disassociation frame to this STA or the AP affiliated with the AP MLD sends a Disassociation frame to the non-AP STA affiliated with the non-AP MLD. Setting the field to 0 indicates that the AP has not determined when it will send a Disassociation frame to this STA or the AP affiliated with the AP MLD has not determined when it will send a Disassociation frame to the non-AP STA affiliated with the 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).

**9.6.13.10 BSS Transition Management Response frame format**

***…***

***TGbe editor: Insert this note 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.

NOTE —For a non-AP MLD, it can transition from the current AP MLD to either another AP MLD or another AP that is not affiliated with an AP MLD. [#10576]

***…***