IEEE P802.11
Wireless LANs

|  |
| --- |
| LB275 CR for Subclause-35.3.7.5 - Editorials |
| Date: 2023-08-22 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Arik Klein | Huawei | Huawei TLV Research Center |  | arik.klein@huawei.com  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes CR for 5 general / editorial CIDs: 19264, 19265, 19267, 19324, 19714 (LB275) regarding clause 35.3.7.5 - Affiliated AP link disablement and enablement

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Additional offline comments during discussion. CID 19265 is deferred
* Rev 2: modified CID 19265, per the discussion during the presentation of the CR doc

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.***

| **CID** | **Commenter** | **Pg/Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- | --- |
| 19324 | Atsushi Shirakawa | 527.59 | 35.3.7.5.2 | This four line sentence has five commmas and little bit compliated. Make it more simple. | As in comment. | **Revised**Agree with the comment. The commas have been removed, as requested.**TGbe editor please implement changes as shown in doc 11-23/1398r2 tagged as 19264.** |
| 19264 | John Wullert | 527.61 | 35.3.7.5.2 | No commas required to set of a "that" clause | Change text to "...AP that corresponds to the BSSID parameter indicated in that primitive is...". Make same change on page 528, line 7. | **Accepted** |
| 19714 | Arik Klein | 528.29 | 35.3.7.5.2 | Replace "subfields" with "fields" in the following sentence: "...and other subfields of the Request Mode field are reserved" | As in comment | **Accepted** |
| 19265 | John Wullert | 529.19 | 35.3.7.5.2 | This bullet and the next use "non-AP STA" while earlier bullets on the page use "non-AP EHT STA". It would be better to be consistent | Consistently use "non-AP STA" or "non-AP EHT STA" within this bulleted list | **Revised**Based on the discussion, The “EHT” word will be removed from the existing bullets.**TGbe editor please implement changes as shown in doc 11-23/1398r2 tagged as 19265.** |
| 19267 | John Wullert | 529.49 | 35.3.7.5.3 | No commas required to set of a "that" clause | Replace with "When an AP MLD receives the MLME-BSS-LINK-ENABLE.request primitive, each AP that is affiliated with the AP MLD and is operating on an enabled link shall stop advertising, in transmitted Beacon and Probe Response frames, the TTLM that indicates no TIDs mapped to the link on which the AP that corresponds to the BSSID parameter indicated in the primitive is operating after the expiry of the time indicated by the Expected Duration field advertised in an existing TTLM." | **Accepted** |

*TGbe editor: Please note baseline is 802.11be D4.0 and REVme D**3.0*

## Affiliated AP link disablement

***TGbe editor: Please update the contents of the following paragraph in this subclause as shown below:***

(#19264) Upon receiving an MLME-BSS-LINK-DISABLE.request primitive, each of the APs affiliated with an AP MLD shall advertise a TTLM in transmitted Beacon and Probe Response frames that does not map any TIDs to the link on which the AP that corresponds to the BSSID parameter indicated in that primitive is operating. If there is no currently advertised nondefault TTLM, the Mapping Switch Time field of the advertised TTLM shall point to the same time as indicated in the DisableTimer parameter of the MLME- BSS-LINK-DISABLE.request primitive.

(#19264) Alternatively, if there is a currently advertised nondefault TTLM, upon receiving an MLME-BSS-LINK- DISABLE.request primitive, each of the APs affiliated with an AP MLD shall advertise a TTLM in transmitted Beacon and Probe Response frames, that does not map any TIDs to the link on which the AP that corresponds to the BSSID parameter indicated in that primitive is operating and that will take effect after the expiry of the time indication in the Expected Duration field of the currently advertised TTLM. In this case, the duration indicated in the DisableTimer parameter of the MLME-BSS-LINK- DISABLE.request primitive may be used to update the Expected Duration field of the currently advertised TID-to-link mapping according to the rules defined in [35.3.7.2.4 (Advertised TTLM in Beacon and Probe](#bookmark40) [Response frames)](#bookmark40) .

***TGbe editor: Please update the contents of the following paragraph in this subclause as shown below:***

Additionally, if there are associated non-MLD non-AP STAs that support BSS transition capability, the SME of the affiliated AP, that is operating on the link advertised as to become disabled, shall perform the following, in order to indicate the imminent termination of the BSS of these non-AP STAs:

1) The affiliated AP shall follow the procedure in 11.21.7.3 (BSS transition management request) with the BSS Transition Management Request frame fields set as follows:

• (#19714) The Disassociation Imminent and Link Removal Imminent fields of the Request Mode field are set to 1, the BSS Termination Included field is set to 0, and other fields of the Request Mode field are reserved.

• The Disassociation Timer field is set to the number of TBTTs of the affiliated AP before it trans- mits Disassociation frame(s) to the STA(s) receiving the BSS Transition Management Request frame. The Disassociation Timer field value shall point to a TBTT at or later than the time pointed to by the value of the Mapping Switch Time field for the advertised TTLM.

• The BSS Transition Candidate List Entries field may be included which contains one or more Neighbor Report elements in order to provide a BSS transition candidate list.

• No other optional fields shall be present in the BSS Transition Management Request frame.

***TGbe editor: Please update the contents of the following paragraph in this subclause as shown below:***

When an AP MLD advertises that a link is disabled for all associated non-AP MLDs, after the time indicated by the Mapping Switch Time field is reached:

* the Disabled Link Indication subfield shall be set to 1 in the MLD Parameters subfield that is included in the TBTT Information field corresponding to the AP affiliated with the AP MLD where the affiliated AP operates on the link that is being disabled and the TBTT Information field is contained in the Reduced Neighbor Report element carried in the Beacon or Probe Response frames transmitted by:
	+ any of the APs affiliated with the same AP MLD as the AP that operates on the link that is being disabled and
	+ any APs that have set the Co-Located AP subfield of the BSS Parameters subfield of the TBTT Information field to 1 for the affiliated AP that operates on the link that is being disabled.

If the Disabled Link Indication subfield corresponding to a reported AP is set to 1, then the Neighbor AP TBTT Offset subfield included in the same TBTT Information field of the Reduced Neighbor Report element shall be set to 255.

* (#19265) a non-AP STA affiliated with a non-AP MLD that is associated with the AP MLD shall not use the link to transmit individually addressed frames to the AP affiliated with the AP MLD that is operating on a link that is disabled.
* (#19265) a non-AP STA affiliated with a non-AP MLD that is not associated with the AP MLD shall not transmit multi-link probe request, Authentication, and (Re)association Request frames to the AP affiliated with the AP MLD while the link is disabled (as indicated in the Expected Duration field in the advertised TID-To-Link Mapping element that does not include Mapping Switch time field, or as indicated in the Disabled Link Indication subfield in the Reduced Neighbor Report element).
* (#19265) a non-AP STA affiliated with a non-AP MLD that is not associated with the AP MLD should not use the link to transmit other individually addressed Management frames to the AP affiliated with the AP MLD that is operating on a link that is disabled.
* a non-AP STA affiliated with the non-AP MLD shall not delete the GTK/IGTK/BIGTK values corresponding to the affiliated AP operating on the link that will be disabled.
* The AP affiliated with an AP MLD that is operating on that link shall not transmit any frame to any of the non-AP STAs affiliated with its associated non-AP MLD (see [35.3.7.2.1 (General)](#bookmark37)).

***TGbe editor: Please update the contents of the following paragraph in this subclause as shown below:***

## Affiliated AP link enablement

(#19267) When an AP MLD receives the MLME-BSS-LINK-ENABLE.request primitive each AP that is affiliated with the AP MLD and is operating on an enabled link shall stop advertising, in transmitted Beacon and Probe Response frames the TTLM that indicates no TIDs mapped to the link on which the AP that corresponds to the BSSID parameter indicated in the primitive is operating after the expiry of the time indicated by the Expected Duration field advertised in an existing TTLM. In this case, the duration indicated by the Enable Timer parameter of the MLME-BSS-LINK-ENABLE.request primitive may be used to update the Expected Duration field in the currently advertised TTLM according to the rules defined in [35.3.7.2.4 (Advertised TTLM in Beacon and Probe Response frames)](#bookmark40).

Straw Poll:

Do you support to incorporate the proposed draft text in this document 11-23/1398r2 to the next revision of TGbe Draft 4.0, for addressing the following CIDs: 19264, 19265, 19267, 19324, 19714 (LB275)?

Result: Yes/No/Abstain