IEEE P802.11
Wireless LANs

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| LB275 CR for Clause 35.3.7.5.3 |
| Date: 2023-10-06 |
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Abstract

This submission proposes CR for 2 CIDs: 20054, 20078 (LB275)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: updating the text of CID20078 based on offline discussions

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** |
| --- | --- | --- | --- | --- | --- | --- |
| 20054 | Binita Gupta | 529/55 | 35.3.7.5.3 | Change "Enable Timer" to "EnableTimer" to accurately indicate name of the parameter in the MLME primitive. | As per comment. | **Accepted** |
| 20078 | Li-Hsiang Sun | 530/27 | 35.3.7.5.3 | NOTE2 "After the enablement of an AP link is established, if there is no TTLM advertised, all associated non-AP STAs operate in the default mapping."However on p525 L44 " at the time indicated by the Expected Duration field of an existingadvertised TTLM which will be replaced by the default mapping, the non-AP MLD shall update its TTLM ...unless the current TTLM for the non-AP MLD is a negotiated TTLM and the enabled link set in the current mapping is a subset of the enabled link set in the advertised mapping."So the NOTE2 seems contradict with p525 L44 if there is negotiated T2LM not using the enabled setup link | Resolve the contradiction | **Revised**Agree with the comment. Note 2 is revised to include the case of negotiated TTLM.**TGbe editor please implement changes as shown in doc 11-23/1401r0 tagged as 20078.** |

*TGbe editor: Please note baseline is 11be D4.1 and REVme D**3.0*

## Affiliated AP link enablement

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 (#19267)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 (#20054) EnableTimer 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).

When replacing the current advertised TTLM that indicates one or more links are disabled by an advertised TTLM that indicates one or more of those links are enabled, two nondefault TTLMs shall be advertised in Beacon and Probe Response frames according to the rules defined in [35.3.7.2.4 (Advertised TTLM in](#_bookmark40) [Beacon and Probe Response frames)](#_bookmark40).

When an AP MLD stops advertising that a link is disabled for all associated non-AP MLDs:

* the Disabled AP Link Indication subfield shall be set to 0 in the MLD Parameters subfield corresponding to the AP affiliated with the AP MLD and operating on the link that is included in the Neighbor AP Information field in the Reduced Neighbor Report element carried in the Beacon or Probe Response frames transmitted by any of the APs affiliated with the AP MLD
* the AP operating on this link shall retain unchanged GTK/IGTK/BIGTK keys as before this link was advertised as disabled for all associated non-AP MLDs
* the AP operating on this link shall transmit a TSF that is equivalent to the expected TSF if this link was never advertised as disabled
* frame exchange operation on this link between the affiliated AP and non-AP STAs affiliated with the associated non-AP MLDs that include the enabled link in their ML setup can be initiated by any member of the BSS that is affiliated with an MLD only if CCA is performed until a frame is detected by which it can set its NAV, or a period equal to NAVSyncDelay has transpired, whichever is earlier. The frame exchange is initiated using all the link parameters that were defined before the link has been advertised as a disabled link, subject to power state (see [35.3.12 (Multi-link power](#_bookmark51) [management)](#_bookmark51)) and enablement status (see [35.3.7.2 (TID-To-Link Mapping (TTLM)(#19941))](#_bookmark36)) of the affiliated non-AP EHT STA.

NOTE 1—An equivalent TSF is desirable for maintaining TWT agreements. An equivalent TSF might be implemented at the AP MLD by determining the difference between the TSF of the disabled AP minus the TSF of another affiliated AP when the link is disabled and then initializing the TSF of the AP when later enabled to the TSF of the other affiliated AP plus the difference.

NOTE 2—(#20078)After the enablement of a link on which an affiliated AP is operating , if there is no TTLM advertised that contains at least one TID mapped to that link, all associated non-AP STAs operate in the default mapping on that link , unless an associated non-AP MLD has a negotiated TTLM and follows the rules defined in 35.3.7.2.4.

Straw Poll:

Do you support to incorporate the proposed draft text in this document 11-23/1401r0 to the next revision of TGbe Draft 4.0, for addressing the following CIDs: 20054, 20078 (LB275)?

Do you support to incorporate the proposed draft text in this document 11-23/1401r1 to the next revision of TGbe Draft 4.1, for addressing the following CIDs: 20078 (LB275)?

Result: Yes/No/Abstain