IEEE P802.11
Wireless LANs

|  |
| --- |
| CR for CIDs related to EMLSR Beacon Transmission and Reception |
| Date: January 10, 2022 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Gaurang Naik | Qualcomm Inc. |  |  | gnaik@qti.qualcomm.com |
| Abhishek Patil | Qualcomm Inc. |  |  | appatil@qti.qualcomm.com |
| Alfred Asterjadhi | Qualcomm Inc. |  |  | aasterja@qti.qualcomm.com |
| George Cherian | Qualcomm Inc. |  |  | gcherian@qti.qualcomm.com |
| Duncan Ho | Qualcomm Inc. |  |  | dho@qti.qualcomm.com |
| Yanjun Sun | Qualcomm Inc. |  |  | yanjuns@qti.qualcomm.com |
| Abdel Karim Ajami | Qualcomm Inc. |  |  | aajami@qti.qualcomm.com |

 Abstract

This submission proposes resolution for 1 CID received for TGbe CC36:

SP: Do you agree to the resolutions provided in doc 11-21/1706r2 for the following CIDs for inclusion in the latest 11be draft?

6946

**Revisions:**

* Rev 0: Initial version of the document.
* Rev 1: Changes based on offline feedback
* Rev 2: Minor editorial fixes

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** | **Section** | **Pg.Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 6946 | Saju Palayur | 10.49 | 0.00 | an AP MLD should allow EMLSR to receive management frames (e.g. beacons) transmitted over multi-links. Hence it should not transmit to EMLSR while Beacon is transmitted on the other link. The standard need to provide normative or mechanism to address | add normative that disallow the AP MLD to transmit EMLSR while beacon is transmitted on the other link.Add normative that synchronize the transmission time of beacons in multi-link | **Revised**Agree with the comment. Behavior of AP MLD for the transmission on Beacon and group addressed frames is specified. **TGbe editor: Please implement all changes tagged as 6946 as shown in doc 11-21/1706r2.** |

***TGbe editor: Please note Baseline is 11be D1.******2***

**35.3.16 Enhanced multi-link single radio operation**

***TGbe editor: Please insert the following paragraphs at the end of the subclause***

***…***

* The AP MLD shall initiate a frame exchange sequence with the non-AP MLD on one of the enabled links by transmitting an initial Control frame to the non-AP MLD with the limitations specified above.
* An AP affiliated with the AP MLD should end frame exchanges initiated with a STA affiliated with the non-AP MLD in one of the EMLSR links at least an EMLSR transition delay, indicated in the EMLSR Transition Delay subfield, before another AP affiliated with the same AP MLD schedules for transmission of group addressed MPDUs in another EMLSR link if the STA affiliated with the non-AP MLD in the other EMLSR link is expected to receive those group addressed frames. If an AP affiliated with the AP MLD initiates frame exchanges with a STA that is affiliated with the non-AP MLD on one of the EMLSR links and the frame exchanges overlap in time with the reception of group addressed MPDUs in another EMLSR link, then the STA affiliated with the non-AP MLD may not respond to the initial Control frame that is transmitted by the AP affiliated with the AP MLD to initiate the frame exchanges. (#6946)
* A STA affiliated with the non-AP MLD that initiates frame exchanges in one of the EMLSR links should end the TXOP at least an EMLSR transition delay, indicated in the EMLSR Transition Delay subfield, before the TBTT(s) of the other EMLSR link(s) if the STA intends to receive the Beacon frame(s) that are scheduled to be transmitted in those TBTT(s) (#6946)

NOTE—The STA might not do so if it is not aware of the TSF of the other link(s). (#6946).