IEEE P802.11  
Wireless LANs

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| LB 266 Resolution for TDLS operation on NSTR/EMLSR/EMLMR links | | | | |
| Date: December 13, 2022 | | | | |
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Abstract

This submission proposes resolutions for following 3 CIDs received for TGbe LB266:

10059, 11656, 13082

**Revisions:**

* Rev 0: Initial version of the document.

***TGbe editor: The baseline for this document is 11be D2.3***

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.***

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| **CID** | **Commenter** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 10059 | Morteza Mehrnoush | 35.3.21.1 | 470.60 | During the TDLS operation when the STA of the non-AP MLD with STR link pair is doing an off-channel switch, needs to make sure it swithes to a link which has STR link relation, otherwise the TDLS operation with NSTR link pair has extra limitations. Also when switching to off-channel the non-AP MLD (or non-MLD EHT STA) should be able to work with AFC system for 6GHz band channel selection or AP MLD (where the non-AP MLD is associated with) should do the channel selection for the non-AP MLD. | The off-channel selection mechanism for the TDLS operation is needed. | **Revised**  Agree in principle. Two notes are added to clarify the behavior:  When the TDLS link forms an NSTR link pair with a non-AP STA’s link with AP or the STA operating on the TDLS link shares the radio with the EMLSR/EMLMR link set, the non-AP MLD can use baseline power-save indication to pause AP MLD’s transmission to the non-AP MLD on link(s) that form an NSTR pair with the TDLS link or shares radio with the EMLSR/EMLMR link set. In addition, the non-AP MLD can use the power-save mode for TDLS to manage frame exchange with its TDLS peer such that it doesn’t interfere with the AP MLD.  Another approach is that a non-AP MLD can use the channel usage procedure (defined in 11.21.15) to request guidance from the AP to form a TDLS link. This can serve as information to the AP to help for better scheduling of its transmissions to the non-AP MLD.  **TGbe editor: please make changes as shown in doc 11-22/2160r0 tagged as 10059** |
| 11656 | Morteza Mehrnoush | 35.3.21.1 | 470.60 | During the TDLS operation when the STA of the non-AP MLD with STR link pair is doing an off-channel switch, needs to make sure it switches to a link which has STR link relation, otherwise the TDLS operation with NSTR link pair has extra limitations. Also when switching to off-channel the non-AP MLD (or non-MLD EHT STA) should be able to work with AFC system for 6GHz band channel selection or AP MLD (where the non-AP MLD is associated with) should do the channel selection for the non-AP MLD. | The off-channel selection mechanism for the TDLS operation is needed. | **Revised**  Similar comment as CID#10059, so the same resolution.  **TGbe editor: please make changes as shown in doc 11-22/2160r0 tagged as 10059** |
| 13082 | Chittabrata Ghosh | 35.3.21.1 | 470.60 | During the TDLS operation when the STA of the non-AP MLD with STR link pair is doing an off-channel switch, needs to make sure it swithes to a link which has STR link relation, otherwise the TDLS operation with NSTR link pair has extra limitations. Also when switching to off-channel the non-AP MLD (or non-MLD EHT STA) should be able to work with AFC system for 6GHz band channel selection or AP MLD (where the non-AP MLD is associated with) should do the channel selection for the non-AP MLD. | The off-channel selection mechanism for the TDLS operation is needed. | **Revised**  Similar comment as CID#10059, so the same resolution.  **TGbe editor: please make changes as shown in doc 11-22/2160r0 tagged as 10059** |

**35.3.21.1 General**

***TGbe editor: Please add the following notes at the end of this subclause as shown below:***

[#10059]NOTE 1— If a non-AP STA affiliated with a non-AP MLD has established a TDLS direct link and the link on which the same or other non-AP STA affiliated with the same non-AP MLD is operating on is an EMLSR or EMLMR link and shares radio with the non-AP STA operating on TDLS link, or forms an NSTR link pair with a TDLS link, the same or the other non-AP STA affiliated with the same non-AP MLD can: 1) indicate to its TDLS peer STA that it is in power-save mode (by following the procedures described in 11.2.3.12 (TDLS peer power save mode) to manage the peer’s transmissions to the non-AP MLD when the non-AP STA is in Active mode with its associated AP), and 2) indicate to its associated AP affiliated with the AP MLD that it is in power-save mode (to manage AP MLD’s transmissions to the non-AP MLD, when the non-AP MLD is in Active mode with TDLS peer STA).

[#10059]Note 2 — A non-AP MLD that is operating in EMLSR or EMLMR mode or has an NSTR link pair can request guidance from its associated AP MLD on selecting a suitable channel for establishing a TDLS direct link by following the procedures defined in 11.21.15 (Channel usage procedures) to ensure co-existence between the frame exchanges with the TDLS peer STA and the AP MLD. An AP MLD that has responded to a non-AP MLD’s request to establish a TDLS link by following the procedures defined in 11.21.15 (Channel usage procedures) can use the information for making scheduling decisions so that its transmissions to the non-AP MLD do not interfere with the TDLS link.