IEEE P802.11
Wireless LANs

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| LB271 CR for CID 16338 |
| Date: 2023-05-11 |
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Abstract

This submission proposes resolution of following CID assigned to Juseong Moon. (1 CID)

**- Comment related with subclause 35.2.1.2 (Triggered TXOP Sharing procedure):**

16338

**R0:**

Initial revision.

## Straw Poll

**SP #1:**

**Which option do you support in the discussion of this document?**

1. Option 1

2. Option 2

3. Neither option 1 nor option 2

4. Abstain

* **Option 1: Non-AP STA transmits the initial Control frame of EMLSR in the triggered TXS period**
* **Option 2: Non-AP STA transmits the RTS frame in the triggered TXS period**

## CID 16338:

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commeter** | **Subclause** | **P/L** | **Comment** | **Proposed Change** | **Resolution** |
| 16338 | Yongho Kim | 35.2.1.2.1 | 473.58 | When EMLSR STA MLD (or STA affiliated with EMLSR STA MLD) is a recipient of P2P(Triggered TXOP Sharing mode 2), EMLSR operating STA can not receive PPDU from non-AP STA without initial control frame. | Please define a procedure to communication with EMLSR operating STA in triggered TXOP sharing mode 2. | Revised:Agree with the commenter.**TGbe editor: Please make the changes tagged with (#16338)** |

## Discussions for CID 16338

* EMLSR-operating non-AP STA MLD can not receive a PPDU without the reception of the initial control frame in Triggered TXS.
* If P2P recipient peer is an EMLSR-operating STA, P2P transmitter (non-AP STA MLD with shared TXOP) can not directly transmit data to an EMLSR-operating P2P recipient STA.
* Some kind of P2P communication may not be periodic. Therefore, a non-AP MLD in EMLSR mode may not know schedule of P2P communication.
* **Option 1: Non-AP STA transmits the initial Control frame of EMLSR in the triggered TXS period**

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* A non-AP MLD operating in EMLSR mode can receive initial Control frame from another non-AP STA.
* In the current baseline, a non-AP STA cannot transmit a Trigger frame.
* **Option 2: Non-AP STA transmits the RTS frame in the triggered TXS period**



* A non-AP MLD operating in EMLSR mode can use an RTS frame from another non-AP STA as alternative initial Control frame, in Triggered TXS operation.

***(End of discussion)***

## Proposed Changes for CID 16338

**Option 1: Non-AP STA transmits the initial Control frame of EMLSR in the triggered TXS period**

**35.2.1.2 Triggered TXOP sharing procedure**

**35.2.1.2.3 Non-AP STA behavior**

A non-AP STA addressed by an MU-RTS TXS Trigger frame with the triggered TXOP sharing mode equal to 2 may either perform PIFS recovery within the allocated time or perform a backoff within the allocated time when the non-TB PPDU transmission is not successful. How it chooses among these options is implementation dependent.

***(Instructions to the editor: please add the following changes to Page 483 Line 41 of subclause 35.2.1.2.3 in draft 3.1)***

(#16338) A non-AP STA addressed by an MU-RTS TXS Trigger frame with the triggered TXOP sharing mode equal to 2 shall transmit an initial Control frame as defined in 35.3.17 (Enhanced multi-link single radio operation) to another non-AP STA affiliated with a non-AP MLD which is in the EMLSR mode.

**Option 2: Non-AP STA transmits the RTS frame in the triggered TXS period**

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

***(Instructions to the editor: please add the following changes to Page 573 Line 12 of subclause 35.3.17 in draft 3.1)***

* Any one of the non-AP STAs affiliated with the non-AP MLD that is operating on one of the EMLSR links may initiate frame exchanges with the AP MLD.
* (#16338) When a non-AP STA of a non-AP MLD received an RTS frame from another non-AP STA in Triggered TXOP sharing procedure as defined in 35.2.1.2, the non-AP STA shall consider the RTS frame as the initial Control frame.

**35.2.1.2 Triggered TXOP sharing procedure**

**35.2.1.2.3 Non-AP STA behavior**

A non-AP STA addressed by an MU-RTS TXS Trigger frame with the triggered TXOP sharing mode equal to 2 may either perform PIFS recovery within the allocated time or perform a backoff within the allocated time when the non-TB PPDU transmission is not successful. How it chooses among these options is implementation dependent.

***(Instructions to the editor: please add the following changes to Page 483 Line 41 of subclause 35.2.1.2.3 in draft 3.1)***

(#16338) A non-AP STA addressed by an MU-RTS TXS Trigger frame with the triggered TXOP sharing mode equal to 2 shall transmit RTS frame to another non-AP STA affiliated with a non-AP MLD which is in the EMLSR mode.