IEEE P802.11
Wireless LANs

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| Text for Triggered TXOP Sharing Error Recovery CID 12420 |
| Date: 2022-09-XX |
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Abstract

In CID 12420:

In Triggered TXOP Sharing, error recovery method by a non-AP STA is not defined. Since the non-AP STA is not a TXOP holder in the shared TXOP, when the intended receiver of the non-AP STA doesn't respond, the transmission can not be recovered, and medium may be released. An appropriate error recovery mechanism like PIFS recovery needs to be defined.

AP’s procedure during or after TXOP sharing is defined but a non-AP STA’s procedure using a shared TXOP is not fully defined.

## Issue

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| 12420 | Yongho Kim | 35.2.1.2.3 | 402.30 | In Triggered TXOP Sharing, error recovery method by a non-AP STA is not defined. Since the non-AP STA is not a TXOP holder in the shared TXOP, when the intended receiver of the non-AP STA doesn't respond, the transmission can not be recovered and medium may released. An appropriate error recovery mechanism like PIFS recovery needs to be defined. | Please make the follwoing changes in order to clarify the error recovery mechanism of a non-AP STA during a TXOP sharing period.During the time allocated by an associated AP, the non-AP EHT STA may transmit non-TB PPDUs to the AP or another STA if the TXOP Sharing Mode subfield value is 2. The non-AP EHT STA may perform the PIFS recovery as described in 10.23.2.8 when the non-TB PPDU is not properly transmitted. The non-AP EHT STA may transmit a QoS Data or QoS Null frame to an associated AP to terminate the allocated time, if the RDG/More PPDU subfield in CAS Control subfield of the HE variant HT Control field is equal to 0.NOTE 1--For example, the other STA can be a peer STA of a peer-to-peer link.During the time allocated by an associated AP, the non-AP EHT STA may transmit non-TB PPDUs and only to its associated AP if the TXOP Sharing Mode subfield value is 1. The non-AP EHT STA may perform the PIFS recovery as described in 10.23.2.8 when the non-TB PPDU is not properly transmitted. |

## Proposed Text

### Proposed Changes to 802.11be D2.1.1, subclause 35.2.1.2.3:

(**TGbe Editor to make the following sentence**)

**35.2.1.2.3 Non-AP STA behavior**

After a non-AP EHT STA receives an MU-RTS TXS Trigger frame from its associated AP that contains a User Info field that is addressed to it, the STA may transmit one or more non-TB PPDUs within the time allocation signaled in the MU-RTS TXS Trigger frame. The first PPDU of the exchange shall be a CTS frame transmitted per the rules defined in 26.2.6.3 (CTS frame response to an MU-RTS Trigger frame)

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The time allocation shall start when the PHY-RXEND.indication primitive of the PPDU that contains the

MU-RTS TXS Trigger frame has occurred.

During the time allocated by an associated AP, the non-AP EHT STA may transmit non-TB PPDUs to the AP or another STA if the TXOP Sharing Mode subfield value is 2. **(#12420)** **Within the allocated time,** **the non-AP EHT STA may perform a PIFS recovery as described in 10.23.2.8 if the non-TB PPDU is not properly transmitted.** The non-AP EHT STA may transmit a QoS Data or QoS Null frame to an associated AP to terminate the allocated time, if the RDG/More PPDU subfield in CAS Control subfield of the HE variant HT Control field is equal to 0.

NOTE 1—For example, the other STA can be a peer STA of a peer-to-peer link.

During the time allocated by an associated AP, the non-AP EHT STA may transmit non-TB PPDUs and only to its associated AP if the TXOP Sharing Mode subfield value is 1. **(#12420) Within the allocated time,** **the non-AP EHT STA may perform a PIFS recovery as described in 10.23.2.8 if the non-TB PPDU is not properly transmitted**.