IEEE P802.11
Wireless LANs

|  |
| --- |
| CR for CID 17129 |
| Date: 2019-01-17 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Yunbo Li |  |  |  | Liyunbo@huawei.com |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This document provides CR for CID: 17129

The modification is based on draft D3.3

1. **Introduction**

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 TGax Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause Number(C)** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 17129 | Yunbo Li | 10.28.3 | 232.09 | In the last sentence, it mentions that the duration indicated by the Duration/ID field is available for the RD response burst and RD initiator final PPDU. It doesn't include the HE TB PPDU that send by RD initiator that follows the Basic Trigger that send by RD responder. | modify the text to include the HE TB PPDU that send by RD initiator. | Revised –Agree in principle. Add to UL MU-MIMO transmission into the RD response burst in section 10.30.2 . So the the comment related sentence in section 10.30.3 will cover that case.More details of discussion can be found in 11/19-0148r2. |

1. **Discussion**

The reverse direction exchange sequence include the RDG PPDU, the RD response burst and the RD initiator final PPDU. The new introduced full bandwidth UL MU-MIMO transmission doesn’t been included into any one of them.

Through below proposed changes, the full bandwidth UL MU-MIMO transmission is included into the RD response burst, so the comment get solved.

<IEEE 802.11-2016>

**10.28.2 Reverse direction (RD) exchange sequence**

An RD exchange sequence comprises the following:

a) The transmission of a PPDU by a TXOP holder or SP source containing an RD grant (the *RDG PPDU*), which is indicated by the PPDU containing one or more +HTC or DMG MPDUs in which the RDG/More PPDU subfield is equal to 1. The STA that transmits this PPDU is known as the *RD initiator*. The rules for an RD initiator apply only during a single RD exchange sequence, i.e., after the transmission of an RDG PPDU and up to the end of the last PPDU in the RD exchange sequence.

b) The transmission of one or more PPDUs (the *RD response burst*) by the STA addressed in the MPDUs of the RDG PPDU. The first (or only) PPDU of the RD response burst contains at most one immediate BlockAck or Ack frame. The last (or only) PPDU of the RD response burst contains any MPDUs requiring a response that is an immediate BlockAck or Ack frame. The STA that transmits the RD response burst is known as the *RD responder*. The rules for an RD responder apply only during a single RD exchange sequence, i.e., following the reception of an RDG PPDU and up to the transmission of a PPDU by the RD responder in which the RDG/More PPDU subfield is equal to 0.

c) The transmission of a PPDU by the RD initiator containing an immediate BlockAck frame or Ack frame (the *RD initiator final PPDU*), if so required by the last PPDU of the RD response burst.

1. **Proposed changes**

***11ax Editor: Modify the paragraph of clause 10.30.2 Reverse direction (RD) exchange sequence as below***

**10.30.2 Reverse direction (RD) exchange sequence**

If the RD initiator is an HE STA and the RD responder is an HE AP, the RD ~~responder may transmit~~ response burst may contain one or more ~~a~~ Basic Trigger frames. The Basic Trigger frame(s) shall ~~to~~ trigger the RD initiator and at least one other STA~~more than one STAs~~ to do full bandwidth UL MU-MIMO transmission. ~~The triggered STAs shall include the RD initiator.~~

***11ax Editor: Modify the paragraph of clause 10.30.4 Rules for RD responder as below***

**10.30.4 Rules for RD responder**

During an RD response burst any PPDU transmitted by an RD responder shall contain at least one MPDU with an Address 1 field that matches the MAC address of the RD initiator, or at least one Trigger frame that addresses the RD initiator, and the inclusion of traffic to STAs other than the RD initiator in a VHT MU PPDU or HE MU PPDU shall not increase the duration of the PPDU beyond that required to transport the traffic to the RD initiator.