IEEE P802.11
Wireless LANs

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| Changes for the Tx/Rx Vectors related to HE TB NDP feedback |
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| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Xiaogang Chen | Intel | 2111 NE 25th Ave. Hillsboro, OR |  | xiaogang.c.chen@intel.com |
| Laurent Cariou | Intel |  |  | laurent.cariou@intel.com |

Abstract

This submission proposes changes of TGax Draft 1.4 on theTx/Rx vectors related to HE TB NDP feedback

Revisions:

* Rev 0: Initial version of the document.

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. This introduction is 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.***

**Proposed change: Table 28-1** **TXVECTOR and RXVECTOR parameters**

**Discussion:** The HE TB NDP feedback is stable in both MAC and PHY, but the Tx/Rx VECTORs in the current Draft 1.4 is misleading and incomplete.

*To the TGax Editor: In Table 28-1 (P.L. 309.48), replace the rows corresponding to entrie* ***NDP\_REPORT***and *entry* ***RU\_TONE\_SET*** *with the rows highlighted as Brown in the table below. In addition, add another entry* ***FEEDBACK\_STATUS*** *(as shown in the table bellow highlighted as Red) in Table 28-1.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| NDP\_REPORT | FORMAT is HE\_TRIG and PSDU\_LENGTH = 0  | Provides the detected status vector on the resources assigned by the trigger frame. The vector has *NSTA* entries (*NSTA* is defined in 27.5.5.2) and each entry could equal to:1 if transmission is detected on the first group of the tone set;0 if transmission is detected on the second group of the tone set;NONE if transmission is not detected on either group of the tone set.   | N | Y |
| Otherwise | Not present | N | N |
| FEEDBACK\_STATUS | FORMAT is HE\_TRIG and APEP\_LENGTH = 0  | Indicates the value of the one bit used to modulate the tones in each tone set.Details in 28.3.17 HE TB NDP feedback PPDU and 27.5.5 NDP feedback report procedure.  | Y | N |
| Otherwise | Not present | N | N |
| RU\_TONE\_SET\_INDEX | FORMAT is HE\_TRIG and APEP\_LENGTH = 0  | Indicates the RU tone set used for an HE TB NDP feedback report PPDU.Details in 28.3.17 HE TB NDP feedback PPDU | Y | N |
| Otherwise | Not present | N | N |

***In addition, modify the paragraph on P.L. 240.60 as below:***

**27.5.5.3.1 Reception of NDP feedback report responses**Following the transmission from an AP of an NDP Feedback Report Poll Trigger frame, multiple STAs may simultaneously send NDP feedback report responses to the AP. Based on the RXVECTOR parameter NDP\_REPORT, which provides the detected status vector ~~of the detected bits~~ for the resources of each spatial stream and tone set ~~P-matrix code on each~~ ~~RU\_TONE\_SET of each RU~~ assigned by the trigger frame, the AP can derive the list of AIDs ~~for~~ from the resources of which an NDP feedback report response was sent, and their response.