IEEE P802.11  
Wireless LANs

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| LB230 CR HE Sounding NDP | | | | |
| Date: 2018-04-16 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yongho Seok | MediaTek Inc. | 2840 Junction Ave, San Jose, CA 95134 |  | [yongho.seok@mediatek.com](mailto:yongho.seok@mediatek.comnewracom.com) |
| Chao-Chun Wang | MediaTek Inc. |  |  |  |
| James Yee | MediaTek Inc. |  |  |  |

Abstract

This submission proposes resolutions of comments received from TGax LB230.

(The proposed change is based on TGax Draft 2.2.)

* CIDs: 11434, 13309, 13310, 14199, 13405, 12843, 13763, 14200 (8 CIDs)

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.***

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- |
| 11434 | 269.28 | 27.6.5 | Besides the mentioned parameters, there're still some parameters in the TXVECTOR to form the HE-SIG-A of an HE NDP such as MCS,DCM. | Clarify how other parameters are set, or clarify these are only part of the TXVECTOR parameters for an HE NDP. | Revised-  Setting of the other parameters are an implementation specific.  The spec just mentions interoperability requirements.  Make those TXVECTOR parameter in a mandatory.  TGax editor makes changes as shown in the as specified in 11-18/0630r0. |
| 13309 | 484.32 | 28.3.16 | Move the HE NDP PPDU format description to 28.3.4. | Technical comment because there may be changes to the technical desciption as a result of the move. | Rejected-  An HE NDP PPDU is not defining a new HE PPDU format. The HE NDP PPDU uses an HE SU PPDU format. |
| 13310 | 484.35 | 28.3.16 | What is a "sounding format"? | Use a consistant term for the PPDU: HE NPD PPDU. Remove the sentence "NDP is the only HE sounding format" since it is meaningless. | Revised-  Agree in principle.  TGax editor makes changes as shown in the as specified in 11-18/0630r0. |
| 14199 | 484.35 | 28.3.16 | Considering entire 11 specs, NDP is not defined only for HE sounding procedure. Add HE before NDP to make it clear. NDP ==> HE NDP | as in comment | Revised-  Because this sentence is meaningless, it is removed.  TGax editor makes changes as shown in the as specified in 11-18/0630r0. |
| 13405 | 484.44 | 28.3.16 | HE-STF duration is 8uS and some clarification is needed | 1. change diagram based on passed motion for document 17/985r4 2. add at the end of line 21 'and with changes limited to the HE-LTF field only' | Revised-  This comment is for for 28.3.17 (HE TB NDP feedback PPDU).  But, in the commnet, the error about the HE-STF duration is already fixed in D2.2.  No change is needed for this CID. |
| 12843 | 484.48 | 28.3 | 28.3.4 is fairly clear that the only HE PPDU fromats are SU, MU, ER and TB, but some other parts of the spec seem to think HE NDP and HE NDP short feedback are (HE) PPDU formats too | Change F28-43, F28-44 to not refer to an HE (TB) NDP (feedback) PPDU format | Revised-  Agree in principle.  TGax editor remove "PPDU" from titles of Figure 28-43 (HE NDP PPDU format) and Figure 28-44 (HE TB NDP feedback PPDU format). |
| 13763 | 484.64 | 28.3.16 | "If the Beamformed field in HE-SIG-A of an HE NDP PPDU is 1, then the receiver of the HE NDP PPDU shall not perform channel smoothing when generating the compressed beamforming feedback report." Beamformed field is not accurate. | should follow the exact name in HE-SIG-A which is TxBF field. | Revised-  Change the Beamformed field to the TxBF field.  TGax editor makes changes as shown in the as specified in 11-18/0630r0. |
| 14200 | 484.64 | 28.3.16 | Incorrect field name with Beamformed field. Beamformed field should be modified with TxBF field. | as in comment | Revised-  Change the Beamformed field to the TxBF field.  TGax editor makes changes as shown in the as specified in 11-18/0630r0. |

***TGax editor: change 27.6.5 as the following:***

* HE NDP transmission

The TXVECTOR parameters for an HE NDP ~~are~~ shall be set (#11434) as follows:

***TGax editor: change 28.3.16 as the following:***

* HE sounding NDP PPDU

~~NDP is the only HE sounding format.~~ (#13310, 14199)

The format of an HE NDP PPDU is shown in Figure 28-43 (HE NDP PPDU format).

***TGax editor: remove "PPDU" from titles of Figure 28-43 (HE NDP PPDU format) and Figure 28-44 (HE TB NDP feedback PPDU format). (#12843)***

…

If the ~~Beamformed~~ TxBF (#13763, 14200) field in HE-SIG-A of an HE NDP PPDU is 1, then the receiver of the HE NDP PPDU shall not perform channel smoothing when generating the compressed beamforming feedback report.