IEEE P802.11
Wireless LANs

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| Resolution for various CIDs in clause 9 |
| Date: April 23, 2018 |
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 Abstract

This submission proposes resolutions for comments received from TGax LB230 (8 CIDs):

11513, 14346, 14344, 14345, 11163, 13756, 14093, 12860

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.***

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| **CID** | **Commenter** | **Pg / Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| 11513 | Chunyu Hu | 59.46 | 9.2.4.6.4.2 | If the DL data is sent in ER SU PPDU soliciting TB PPDU for ACK. DCM should be allowed on ACK/BA/M-BA. | as in the comment | **Reject**DCM only provides an addition 1-2 dB gain which is not significant enough to justify mandating it. |
| 14346 | Zhou Lan | 59.46 | 9.2.4.6.4.2 | If the DL data is sent in ER SU PPDU soliciting TB PPDU for ACK. DCM should be allowed on ACK/BA/M-BA. | as in the comment | **Reject**Please see resolution for CID 11513 |
| 14344 | Zhou Lan | 59.57 | 9.2.4.6.4.2 | "NOTE--The A-MPDU contained in the HE TB PPDU carries one immediate acknowledgment, if the preceding PPDUsolicits an acknowledgment, and it might additionally contain other frames that do not solicit immediate responses, suchas QoS Null frames with Ack Policy of No Ack, Action No Ack frames, as defined in 27.5.3.3 (STA behavior for ULMU operation)." this note is irrelevant here in the UMRS Control section. Clarify otherwise remove it. | as in the comment | **Revised**Agree with the comment. Section 27.5.3.4 specifies provides details on which content is allowed in a A-MPDU carried in a TB PPDU. Revised the note to point to 27.5.3.4 for further guidance.**TGax editor, please make changes as shown in doc 11-18/0740r0**  |
| 14345 | Zhou Lan | 59.62 | 9.2.4.6.4.2 | The setting of HE TB PPDU Length subfield is inconsistent with the length field setting in the trigger frame, which will result in different set of hardware implementation on the non-AP STA.Please unify the design. | as in the comment | **Reject**The current design is due to the limited number of bits available in TRS-Control subfield. TRS-Control subfield solicits ACKs which do not require full 9-bits for the length field. |
| 11163 | Albert Petrick | 60.04 | 9.2.4.6.4.2 | BCC encoding is mandatory if the RU Allocation subfield indicates an RU that is less than 484-tone RU. | Change note to read: BCC encoding shall be used if the RU Allocation subfield.......484-tone RU. | **Reject**Statements in clause 9 or any notes can’t be normative. Also note, the cited text is being deleted as a resolution to CID 13756. |
| 13756 | Xiaofei Wang | 60.04 | 9.2.4.6.4.2 | The note should be removed since discussions on using BCC and LDPC doesn't belong to the format where no coding is mentioned. | Remove the note | **Accept**Agree with the comment.27.5.3.3 covers this (see D2.3, P281L50)**TGax editor, please make changes as shown in doc 11-18/0740r0** |
| 14093 | Yuichi Morioka | 86.40 | 9.3.1.23 | HE AP should be allowed to trigger CF\_End frame transmission from multiple HE STAs, to cancel over-reserved NAV set by MU-RTS/CTS. This is new but needed behavior as the NAV information is propagated to a much larger area than conventional RTS/CTS. If there is no way for these many OBSS STAs that can only hear the triggered CTS to cancel the NAV, it will cause severe unfairness and blockage.If this method is not acceptable, then the spec should define a mechanism to restrict over-estimation of NAV when using MU-RTS/CTS. | Replace "8-15 Reserved" with "8 MU-CF\_End" and add in the next line "9-15 Reserved" .Alternatively, define how an HE AP is restricted to over reserve when MU-RTS is used in subclause 27.2.5. | **Reject**AP should not be over-allocating – it is expected to be cognizant of the requirement to estimate the size of the NAV. The comment seems to open a problem that needs to be fixed. Further, any MU-CF\_END signaling would be understood only by HE STAs. |
| 12860 | Mark RISON | 134.06 | 9.4.2.237.2 | "carried in a QoS Data, QoS Null,or Management frame" -- can't be in anything else! | Delete the cited text | **Accept****TGax editor, please delete the text cited by the comment.** |

* **TRS Control**

***TGax Editor: Please update the note under Figure 9-15c as shown below:***

NOTE—See 27.5.3.4 for details on allowed content in an A-MPDU carried in HT TB PPDU.[14344]

***TGax Editor: Please delete the note under the 3rd paragraph:***

The RU Allocation subfield indicates the resource unit (RU) assigned for transmitting the HE TB PPDU response and the encoding is defined in 9.3.1.23 (Trigger frame format).

[13756]