IEEE P802.11
Wireless LANs

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| LB225 11ax D1.0 Comment Resolution 10.7 |
| Date: 2017-07-12 |
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Abstract

This submission proposes resolutions for multiple comments related to TGax D1.0 with the following CIDs :

* 3185, 4755, 7783, 7784, 7785, 9559.

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** | **PP** | **LL** | **Comment** | **Proposed Change** | **Resolution** |
| 3185 | 123 | 38 | Should DCM be included in this sentence, such that an AP transmits a <HE-MCS, NSS> tuple with DCM=1 when the tuple and DCM is supported by all the recipients etc? "An AP that transmits a Multi-STA BlockAck frame in a non-HT PPDU, HT PPDU, VHT PPDU or HE PPDU shall use a rate, HT-MCS, <VHT-MCS, NSS> tuple or <HE-MCS, NSS> tuple, respectively, that is supported by all the recipients."? Similarly P123L33. | Rewrite it to include DCM. | **Revised****Discussion: the text in 27.15.3 includes DCM Information.****See 4755** |
| 4755 | 123 | 34 | Move these two paragraphs to subclause 27.15.3 (MCS, NSS, BW and DCM selection) after ensuring that there is no redundancy in the provided normative behavior. | As in comment. | **Revised****Discussion: Generally agree with the commenter. Originally the text to added 10.7.6 is solely for Multi-STA BA which has multiple receivers and different from 802.11baseline BA frame. The rule is already mentioned in other place, i.e. 27.4.1. It is same to remove 10.7.6.*****TGax editor: remove whole text in subcaluse 10.7.6 Rate selection for Control frames from 11ax draft*** |
| ~~5046~~ | ~~123~~ | ~~29~~ | ~~Due to power differences and other considerations, a situation can arise when the transmitter of a response frame using the standard required response MCS value is employing an MCS that will not work for the link because of the asymmetry, e.g. tx power asymmetry. Allow a STA to dictate the response PPDU MCS to avoid this problem.~~ | ~~Allow the transmitter of a response eliciting MPDU to include an indication of an appropriate MCS for the response MPDU. Expect a submission detailing some changes.~~ |  |
| 7783 | 122 | 52 | Rate selection rules are needed for new HE-MCS options. | New rules, or clarity about applicability of existing rules, is needed for all transmissions that can use the new HE-MCS rates, throughout subclause 10.7. | **Revised****Discussion: the text in 27.15.3 includes Rate selection rules about HE-MCS.****See 4755** |
| 7784 | 123 | 38 | Why is this only for APs? | Change "An AP that transmits" to "A STA that transmits" | **Revised****Discussion: the text in 27.15.3 includes Rate selection rules for both AP and STA.****See 4755** |
| 7785 | 123 | 33 | How does this relate to the rest of the (baseline) text? If Multi-STA is unique (and it might be, because there isn't a single "previous frame"), then clarify in the existing text that it applies to BlockAck excpet Multi-STA BlockAck. | Clarify throughout 10.7.6.5 baseline text, where the rules are different for HE, or for new frame types introduced in 11ax (like Multi-STA BlockAck). Especially consider 10.7.6.5.1's limitations on the scope of the new 10.7.6.5.2 text in 11ax draft. | **Revised****Discussion: the text in 27.15.3 includes Rate selection rules for both AP and STA.****See 4755** |
| ~~8099~~ | ~~123~~ | ~~29~~ | ~~Due to power differences and other considerations, a situation can arise when the transmitter of a response frame using the standard required response MCS value is employing an MCS that will not work for the link because of the asymmetry, e.g. tx power asymmetry. Allow a STA to dictate the response PPDU MCS to avoid this problem.~~ | ~~Allow the transmitter of a response eliciting MPDU to include an indication of an appropriate MCS for the response MPDU. Expect a submission detailing some changes.~~ |  |
| 9559 | 123 |  | As 11ax introduces new HE-MCS, it would be necessary to update the MCS rate set for management frame including HE beacon frame. | update the corresponding text of management frame with HE-MCS | **Revised****Discussion: the text in 27.15.3 includes Rate selection rules for QoS Data, Management, Control frames in HE PPDU.**See 4755 |