IEEE P802.11
Wireless LANs

|  |
| --- |
| HE variant HT Control - He Link Adaptation |
| Date: 2016-09-12 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Yujin Noh | Newracom |  | +1-470-338-6756 | yujin.noh@newracom.com |
| Daewon Lee | Newracom |  |  | daewon.lee@newracom.com |
| Minho Cheong | Newracom |  |  | minho.cheong@newracom.com |

Abstract

This submission proposes resolutions for comments recevibed from TGax comment collection (TGax Draft D0.1).

* CIDs: 4 and 2740

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.***

# PARS III (HE Link Adaptation)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 4 | 15.01 | it is not specfied for what performance metric the NSS/MCS subfields are for. | Either add subfields that clear the performance metrics that MCS/NSS values are claculated for, or specify in the STA behavior for what performance metrics these values are calculated. | REVISEDAdd the definition of the reference payload size for reported MFB estimates, whose concept was agreed in TGax and adopted to TGax SFD. We propose that the HE-MCS subfield of the MFB subfield of HE link adaptation field should be set to the highest data-rate, for given transmission properties. The estimated MCS is based on frame error rate of 10% or lower for a MPDU length of 3895 octets.TGax Editor: make changes according to this document 11-16-1193-01-00ax CC0-HE variant HT contol. |
| 2740 | 15.05 | TGax has agreed to add the reference payloadsize for MCS. This is not captured in the draft. | add definition for the reportedMCS. | REVISEDTGax Editor: make changes according to this document 11-16-1193-01-00ax CC0-HE variant HT contol.Note: the same resolution as CID 4 |

**Discussion:**

* Spec text corresponding to the reference payload size below which has been agreed in IEEE was not present in TGax D0.4.
	+ HE link adaptation shall define reference payload size for the reported MCS in MFB. Reference payload size may be dependent on the frames involved in link adaptation or fixed in specification. Details are TBD.
* Since TGax D0.4 has not contained a section describing on HE link adaptation procedure as “Link adaptation using the HE variant HT Control field”, 25.15 is temperally used to resolve those CIDs.

**TGax Editor: *Change the paragraphs below of this subclause as follows (#CID):***

The following contains the proposed text to a newly defined section 25.15 Link adaptation using the HE variant HT Control field. There are no change marks below as the entire section is a new text. Please create a new section and copy the text entirely.

-------- Start of New Section and Text --------

**25.14. Link adaptation using the HE variant HT Control field (#4)(#2740)**

This subclause applies to frame exchange sequences that include PPDUs containing an HE variant HT Control field.

The HE-MCS subfield of the MFB subfield of HE link adaptation field should be set to the highest data-rate, for given transmission properties, that results in frame error rate of 10% or lower for a MPDU length of 3895 octets. The transmission properties, RU\_ALLOCATION, DCM, NUM\_STS, FEC\_CODING, BEAMFORMED, BEAM\_CHANGE, and STBC, are determined by the RXVECTOR of the PPDU used to estimate recommended MFB. (#4) (#2740)

-------- End of New Section and Text --------