IEEE P802.11  
Wireless LANs

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| **CR for CID 15105** |
| **Date:** 2018-09-06 |

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| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Jeongki Kim | LG | Yangae 11gil, Seocho-gu, Seoul, Republic of Korea |  | jeongki.kim@lge.com |
| Kiseon Ryu | LG |  |  | kiseon.ryu@lge.com |
| Alfred Asterjadhi | Qualcomm Inc. |  |  | aasterja@qti.qualcomm.com |

Abstract

This submission proposes resolution for one comment related to TGax D3.0 with the following CID (1 **CID**):

* Provided the resolutions for CID 15105

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** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 15105 | 332.12 | Can an AP know if an associated STA is able to close the link only using narrow band RUs? | Please clarify | Revised.  Agree in principle.  TGax editor to adopt the proposed text changes in 11-18/ 1548r0. |

**Discussion:**

When a STA suffers from a bad UL link (e.g., fails to send a frame by using the RU assigned by Trigger frame or an SU PPDU continuously), the STA should be able to request to AP to allocate a narrowband RU.

One method is that STA can inform AP of recommended narrowband UL RU which is similar to MCS field in HT(/HE A-) Control field. Based on a recommended narrowband UL RU received from a STA, the AP can allocate to the STA an appropriate RU (e.g., an UL RU with the same size or the size less than the recommended narrowband UL RU which the STA requested).

**Propose:**

To TGax Editor: Modify the Figure 9-15e as follows:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 | B1 | B2 B4 | B5 B8 | B9 | B10 B17 | B18 B19 | B20 B22 | B23 | B24 | ~~B24~~ B25 |
|  | Unsolicited MFB | MRQ | NSS | HE-MCS | DCM | RU Allocation | BW | MSI/Partial PPDU Parameters | Tx BF | Narrowband UL RU Preference | Reserved |
| Bits: | 1 | 1 | 3 | 4 | 1 | 8 | 2 | 3 | 1 | 1 | 1~~2~~ |

**Figure 9-15e—Control Information subfield for HLA Control**

To TGax Editor: Modify the Table 9-18c (HLA Control Subfield) as follows:

**Table 9-18c—HLA Control subfields *(continued)***

|  |  |  |
| --- | --- | --- |
| Subfield | Meaning | Definition |
| … | … | … |
| RU Allocation | RU of the recommended HE-MCS/RU specified by MFB requester to get feedback | If the Unsolicited MFB subfield is 1, the RU Allocation subfield indicates the RU for which the recommended HEMCS applies, as defined in 27.13 (Link adaptation using the HLA Control subfield).  If the Unsolicited MFB subfield is 0, and the MRQ subfield is 1, the RU Allocation subfield indicates the RU requested by the MFB requester to get feedback.  The RU Allocation subfield is interpreted with the BW subfield to specify the RU.  RU index encoding is as defined 9.3.1.23 (Trigger frame format).  If the Narrowband UL RU Preference subfield is 1 the RU Allocation field indicates the UL RU size, which is not to be exceeded by the recipient and that the actual allocation of the RU can be ignored by the recipient.  Otherwise, this subfield is reserved. |
| … | … | … |
| Narrowband UL RU Preference | Narrowband UL RU Preference indication | Set to 1 to recommend that the UL RU size specified by the RU Allocation subfield is not to be exceeded. Set to 0 otherwise. |

To TGax Editor: Modify the Table 10-8a (Conditions for including Control subfield variants) as follows:

|  |
| --- |
| * Conditions for including Control subfield variants |

|  |  |
| --- | --- |
| Control subfield variant | Condition |
| … | …. |
| HLA | The transmitting STA follows  — the HE link adaptation pro-cedure, as described in 27.13 (Link adaptation using the HLA Control subfield) and the recipient STA has set the HE Link Adaptation Support subfield in the HE MAC Capabilities Information field of the HE Capabilities ele-ments it transmits to a nonzero value~~.~~ or,  — (#15105)the Narrowband UL RU request procedure as described in 27.13 (Link adaptation using the HLA Control subfield). |
| … | …. |

To TGax Editor: Add the following text at the end of the subclause 27.13 (Link adaptation using the HLA Control subfield)

(#15105)

An HE non-AP STA may set the Narrowband UL RU Preference to 1 in the HLA Control field it transmits to the AP to indicate that the AP should not exceed the RU size indicated in the RU Allocation field of the HLA Control field for:

* User Info fields addressed to the STA in Trigger frames sent by the AP