IEEE P802.11  
Wireless LANs

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| **TGbe D0.3 Comment Resolutions for 9.2.4.6 HT Control field** |
| **Date:** 2021-02-25 |
| **Author(s):** |

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Abstract

This submission proposes resolutions for comments of TGbe D0.3 with CID 2002

Revisions:

* Rev 0: Initial version of the document.

#### *CID 2002*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 2002 | 9.2.4.6a | 51.29 | There were many Control subfield variants of A-Control subfield in 11ax. But many of them can't be supported in 11be because the contents are not fit to 11be system. | Let's make subsection for Control subfield variants of an A-Control subfield for EHT | Revised  TGbe Editor: Incorporate the changes in https://mentor.ieee.org/802.11/dcn/21/ 11-21-0311-00-00be-cr-for-9-2-4-6-ht-control-field.docx |

Propose:

*TGbe Editor: Please add the following section in P51 L6 of D0.3:*

**9.2.4.6 HT Control field**

**9.2.4.6.1 General**

***Insert Table 9-13b (HT Control field format) as follows:***

**Table 9-13b – HT Control field format**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variant** | **B0** | **B1** | **B2-B29** | **B30** | **B31** |
| HT | 0 | HT Control Middle | | AC Constraint | RDG/More PPDU |
| VHT | 1 | 0 | VHT Control Middle | AC Constraint | RDG/More PPDU |
| HE/EHT | 1 | 1 | A-Control | | |

***Change the 3rd and 4th paragraphs as follows:***

The HT Control field transmitted by a non-CMMG STA has three variants: the HT variant, the VHT variant, and the HE/EHT variant. The variant formats are differentiated by the values of B0 and B1 as defined in Table 9-13b (HT Control field format).

The HT Control Middle subfield is defined in 9.2.4.6.2 (HT variant) and the VHT Control Middle subfield is defined in 9.2.4.6.3 (VHT variant). The A-Control subfield is defined in 9.2.4.6.3a (HE/EHT variant).

**9.2.4.6.3a HE/EHT variant**

The format of the A-Control subfield of the HE/EHT variant HT Control field is shown in Figure 9-19a (A-Control subfield of the HE/EHT variant HT Control field format).



**Figure 9-19a – A-Control subfield of the HE/EHT variant HT Control field format**

The A-Control subfield is 30 bits in length.

The Control List subfield contains one or more Control subfields. The format of each Control subfield is shown in Figure 9-19b (Control subfield format).



**Figure 9-19b—Control subfield format**

The Control ID subfield indicates the type of information carried in the Control Information subfield. The length of the Control Information subfield is fixed for each value of the Control ID subfield that is not reserved. The values of the Control ID subfield and the associated length of the Control Information subfield are defined in Table 9-22a (Control ID subfield values).

Table 9-22a – Control ID subfield values

|  |  |  |  |
| --- | --- | --- | --- |
| Control ID | Meaning | Length of the Control Information subfield (bits) | Content of the Control Information subfield |
| 0 | Triggered response scheduling (TRS) | 26 | See 9.2.4.6a.1 (TRS Control) |
| 1 | Operating mode (OM) | 12 | See 9.2.4.6a.2 (OM Control) |
| 2 | HE link adaptation (HLA) | 26 | See 9.2.4.6a.3 (HLA Control) |
| 3 | Buffer status report (BSR) | 26 | See 9.2.4.6a.4 (BSR Control) |
| 4 | UL power headroom (UPH) | 8 | See 9.2.4.6a.5 (UPH Control) |
| 5 | Bandwidth query report (BQR) | 10 | See 9.2.4.6a.6 (BQR Control) |
| 6 | Command and status (CAS) | 8 | See 9.2.4.6a.7 (CAS Control)) |
| 7 | EHT Triggered response scheduling (EHT TRS) (TBD) | 26 |  |
| 8 | EHT Operating mode (EHT OM) (TBD) | 26 |  |
| 9 | EHT link adaptation (ELA) (TBD) | 26 |  |
| 10 | EHT Buffer status report (EHT BSR) (TBD) | 26 |  |
| 11-14 | Reserved |  |  |
| 15 | Ones need expansion surely (ONES) | 26 | Set to all 1s |

The Padding subfield, if present, follows the last Control subfield and is set to a sequence of zeros so that the length of the A-Control subfield carried in the HT Control field is 30 bits.

**References:**

**[1] 802.11be D0.3**