IEEE P802.11  
Wireless LANs

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | CR for CID 10745 | | | | | | Date: 2022-08-23 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Mahmoud Kamel | InterDigital |  |  | mahmoud.kamel@interdigital.com | | Zinan Lin | InterDigital |  |  |  | | Hanqing Lou | InterDigital |  |  |  | | Rui Yang | InterDigital |  |  |  | | Alice Chen | Qualcomm |  |  |  | | Sameer Vermani | Qualcomm |  |  |  | | Ross Yu | Huawei |  |  |  | |  |  |  |  |  | |

Abstract

This submission proposes resolutions for CID 10745 in P802.11be D2.1.1:

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version

# CID 10745

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 10745 | 36.3.12.7.2 | 646.07 | Since "Number of EHT-SIG Symbols" is an air interface parameter (a field in U-SIG of an EHT MU PPDU), it's preferred to have an equation to ensure no ambiguity for air interface. | Please add an equation to show how "Numb er of EHT-SIG Symbols" is calculated. | Revised  Agree to the comment that an equation to indicate how the Number Of EHT-SIG Symbols is calculated is useful to avoid any ambiguity in computing this parameter.  TGbe editor: please incorporate the changes shown in 11-22/1379r0 below. |

DISCUSSION:

Although the Number Of EHT-SIG Symbols field is specified in the U-SIG subclause (36.3.12.7.2), however, an equation to compute the parameter is better placed in the EHT-SIG subclause (36.3.12.8.6) where the EHT-SIG content channels’ structure and contents are specified.

END OF DISCUSSION

***TGbe Editor: Please modify Clause 36.3.12.7.2 Content in 11be D2.1.1 P662L7 as follows***

**Table 36-28—U-SIG field of an EHT MU PPDU**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Two parts of U-SIG** | **Bit** | **Field** | **Number of bits** | **Description** |
| U-SIG-2 | B11–B15 | Number Of EHT-SIG Symbols | 5 | Indicates the number of EHT-SIG symbols as computed in Equation (36-xxx). Set to a value that is the number of EHT-SIG symbols minus 1. This value shall be the same in every 80 MHz frequency subblock. |

***TGbe Editor: Please modify Clause 36.3.12.8.6 Encoding and modulation in 11be D2.1.1 P700L23 as follows***

The number of OFDM symbols in the EHT-SIG field, denoted *Nsym* EHT-SIG , shall be indicated in the Number Of EHT-SIG Symbols field in the U-SIG field of an EHT MU PPDU (see [36.3.12.7.2 (Content)](#bookmark102)). may be computed by multiple methods that yield the same result, one example of which is given in Equation (36-xxx) below:

where is the number of data bits per content channel per EHT-SIG OFDM symbol in Table 36-88 (EHT-SIG MCSs), is the number of dummy OFDM symbols added for padding, and is the number of bits of the sole content channel when the bandwidth of the PPDU is 20 MHz or the number of bits of the content channel which carries the largest number of User fields when the bandwidth of the PPDU is greater than 20 MHz. may be computed as follows:

where is the number of RU Allocation-A subfields, is the number of RU Allocation-B subfields, is the number of bits added for padding, and is the number of User fields which may include dummy User fields used for padding purpose as well, and may be expressed in the case of non-OFDMA transmission as:

and for the case of OFDMA transmission, may be expressed as:

where is the Number Of Non-OFDMA Users as defined in Table 36-36 (Common field for non-OFDMA transmission to a single user and non-OFDMA transmission to multiple users), is the number of users allocated to RU or MRU *r* in the content channel c, is the set of all allocated RUs and MRUs which contribute User fields to the content channel c, is the number of users allocated to RU or MRU *r* in the content channel c in the 80 MHz frequency subblock index , is the number of 80 MHz frequency subblocks, and is the number of dummy User fields.

NOTE: , and are all implementation-specific and could be set to 0 or a positive number such that the total number of EHT-SIG symbols including any padding does not exceed 32 OFDM symbols.