IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LB272 - Comment resolutions on multistatic sensing | | | | |
| Date: 2023-07-05 | | | | |
| Author: | | | | |
| Name | Affiliation | Address | Phone | Email |
| Yan Xin | Huawei Technologies | Ottawa, Ontario |  | yan.xin@huawei.com |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

This submission includes the resolutions for the following four comments:

on Subclause in P802.11bf D1.0.

##### 1987, 1988, 1989, 1765

The baseline document is 802.11bf D1.2.

##### Revision history:

##### r0 – initial version

r1 – 1) the baseline document is changed to 802.11bfD1.2; 2) revise the resolution for CID1987 based on offline discussion.

**CID: 1987**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 1987 | 28.3.3.3.2.3 | 225 | 51 | In Table 28-13, the "Multistatic Sensing" Subfield starts at bit 9. In the Baseline REVme D1.4 the first unused bit is bit number 7. Hence change the start bit to 9 and decrease all start bits in Table 28-13 by two and increase the number of reserved bits by two. | As in comment. | REJECTED.  See the discussion in 11-23/1082r1.  TGbf editor: please keep Table 28-13 in 802.11bf D1.2 unchanged. |

*Discussion*

*Table 28-13 specified in REVme D3.0 is shown as below, based on which the commentor is correct.*



*However, Table 28-13 is revised in 802.11az D7.0 as shown below. The reserved 2 bits starting from 7 are used in for indications if secure TRN and First Path AWV TRN, respectively. Therefore, it is correct in Table 28-13 of 802.11bf D1.2 that multistatic sensing subfield start from bit 9. There is no need to change.*



**CID: 1988, 1989**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 1988 | 28.9.3.4.2 | 228 | 52 | In Equation (28-1a) "TRN subindex BL" is used 9 times instead of "TRN\_BL" as in REVme D1.4 and in 28.9.2.2.6. Please change all 9 occurences from "TRN subindex BL" to "TRN\_BL". | As in comment. | ACCEPTED  TGbf editor: Please replace all in (28-1a) in subclause 28.9.3.4.2 of 802.11bf D1.2 with |
| 1989 | 28.9.3.4.3 | 228 | 24 | Please change the 3 occurences of "TRN subindex BL" to "TRN\_BL" as in REVme D1.4 and in 28.9.2.2.6. | As in comment. | ACCEPTED  TGbf Editor: Please replace all in subclause 28.9.3.4.3 of 802.11bf D1.2 with |

**CID: 1765**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 1765 | 28.9.3.3 | 227 | 43 | The text in this paragraph is a general description. How to set the PSDU Length field which relates to the duration of the Data field and the duration of the Sync field is required to be specify. | Specify the PSDU field and some of other fields in the preamble of EDMG multi-static sensing PPDU for the coexistence purpose. | REVISED  TGbf Editor: please revise the text as suggested in 11-23/1082r0 |

*Discussion:*

Discussion on how to set the PSDU Length field in EDMG-Header-A in an EDMG multistatic sensing PPDU is presented in 11-23/xxxxr0

TGbf editor: Please revise the text in subclause 28.9.3.4.3 (Sync pad definition) in 802.11bf D1.2 as below.

**28.9.3.4.3 Sync pad definition**

The Sync pad subfield is composed of sequences such that is the smallest integer resulting in an integer value of (calculated in 28.9.3.3) in octets,. is equal to 18.

TGbf editor: Please add the following text after the second paragraph and before the third paragraph of subclause 28.9.3.3 (EDMG multistatic sensing PPDU header fields)

The value set in the PSDU Length field equals PSDU\_LENGTH + SYNC\_LENGTH where PSDU\_LENGTH is the length of PSDU data in octets and SYNC\_LENGTH is the length of data in octets that can generate an integer number of SC symbol blocks with the same length as the Sync field.

The number of codewords, , corresponding to SC symbol blocks is

where , , and are the GI length, coded bit per modulation symbol, number of bounded channels and codeword length, respectively.

where R is the code rate and ρ is the repetition factor.