IEEE P802.11  
Wireless LANs

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| Comment Resolution | | | | |
| Date: 2018-05-08 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | Email |
| Saehee Bang | LG |  |  | [saehee.bang@lge.com](mailto:saehee.bang@lge.com) |
| Jinmin Kim | LG |  |  | [jinmin.kim@lge.com](mailto:jinmin.kim@lge.com) |
| Jinsoo Choi | LG |  |  | [js.choi@lge.com](mailto:js.choi@lge.com) |
| Sungjin Park | LG |  |  | [allean.park@lge.com](mailto:allean.park@lge.com) |
| Sanggook Kim | LG |  |  | [sanggook.kim@lge.com](mailto:sanggook.kim@lge.com) |
| Kiseon Ryu | LG |  |  | kiseon.ryu@lge.com |

Abstract

This submission proposes resolutions of comments received from TGay comment collection (TGay Draft).

* 2 CID : #2167 (EDMG preamble) , 2168 (A-BFT)

Revisions:

* Draft1.0

**Comment Resolution on A-BFT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Page Number | Line Number | Comment | Proposed Change | Resolution |
| 2168 | 153 | 35 | Table 15 defines the number of Short SSW packets transmission, not the "maximum" number of Short SSW packets. It must be modified for the correct meaning.  The reason why the number of Short SSW value is set as shown in Table 25 is also necessary. | "The maximum number of short SSW packets the STA" must be chaned to "the number of short SSW packets".  The value of short SSW packet in Table 25 is set to the maximum number that can be sent in each FSS subfield value. This description must also be added. | **Revised**  Agree in principle.  TGay editor to modify the text as in 11-18/0843r2 |

***TGay editor: Change this section as follows***

**10.38.5 Beamforming in A-BFT**

**10.38.5.2 Operation during the A-BFT**

*Change the fourth paragraph as follows*

The A-BFT is slotted and the length of the A-BFT is an integer multiple of the sector sweep slot time. The structure of the A-BFT when SSW frames are used is shown in Figure 10-67. The structure of the A-BFT when Short SSW packets are used is shown in Figure 96. ~~The~~ A non-EDMG AP or non-EDMG PCP shall announce the size of the A-BFT in the A-BFT Length subfield of the Beacon Interval Control field (9.3.4.2), while an EDMG AP and EDMG PCP shall also use the A-BFT Multiplier subfield of the Beacon Interval Control field. The first SSW slot begins at the start of the A-BFT, and the following SSW slots are adjacent and nonoverlapping. An SSW slot (Figure 10-68) is a period of time within the A-BFT that can be used by a responder to transmit at least one SSW frame. An SSW slot has a duration of aSSSlotTime. aSSSlotTime is defined to be

aSSSlotTime = aAirPropagationTime + aSSDuration + MBIFS + aSSFBDuration + MBIFS

where

aAirPropagationTime accounts for the propagation delay between the initiator and the responder

aSSDuration ~~(11.39)~~ is defined as follows. If the STA transmits SSW frames in the A-BFT, aSSDuration provides time for a responder to transmit up to the number of SSW frames announced in the FSS subfield of the Beacon Interval Control field in the DMG Beacon (see 11.39). Otherwise if the STA transmits Short SSW packets in the A-BFT, ~~the maximum number of~~ the number of Short SSW packets the STA may transmit is a function of the value of the FSS subfield of the Beacon Interval Control field in the DMG Beacon as indicated by Table 25.

aSSFBDuration provides time for the initiator to perform an SSW feedback procedure (see 11.39)

**Comment Resolution on A-BFT**

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| CID | Page Number | Line Number | Comment | Proposed Change | Resolution |
| 2167 | 243 | 6 | Current method does not represent all combinations of channel BW cases. For dynamic channel bandwidth signaling in 11ay, the channel bandwidth information should be fully indicated. | The Scrambler Initialization field defined in table 29 and table 30 should be reused to represent all combinations of channel BW cases. | **Revised**  Agree in principle.  In Table 29, values ​​16 through 31 are used. However, in table 32, since the start value is 0, it has been modified.  Table 30 defines cases with 6 channels. It has been modified to a definition for 8 channels.  TGay editor to modify the text as in 11-18/0843r2 |

* + - * 1. L-Header definition

General

1. — Definition of the 5 LSBs of the Length field when transmitted using the EDMG SC or EDMG OFDM mode

|  |  |  |
| --- | --- | --- |
| Bit number | Field name | Definition |
| B0-B~~3~~4 | Compressed BW | The Compressed BW field indicates the bandwidth over which the PPDU is transmitted. Possible values for this field are defined in Table 33. Values not listed in Table 33 are reserved. |
| ~~B4~~ | ~~Reserved~~ | ~~Set to 0 upon transmission and ignored upon reception.~~ |

1. — Compressed BW field definition

|  |  |  |
| --- | --- | --- |
| ~~Bandwidth of PPDU~~ | ~~2.16 GHz channel number(s) over which PPDU is transmitted~~ | ~~Compressed BW field value~~ |
| ~~2.16 GHz~~ | ~~Any one of 1, 2, 3, 4, 5, 6, 7, 8~~ | ~~0~~ |
| ~~4.32 GHz~~ | ~~2 and 3, 4 and 5, 6 and 7~~ | ~~1~~ |
| ~~1 and 2, 3 and 4, 5 and 6, 7 and 8~~ | ~~2~~ |
| ~~6.48 GHz~~ | ~~1 through 3, 3 through 5, 5 through 7~~ | ~~3~~ |
| ~~2 through 4, 4 through 6, 6 through 8~~ | ~~4~~ |
| ~~8.64 GHz~~ | ~~1 through 4, 5 through 8, 2 through 5, 3 through 6, 4 through 7~~ | ~~5~~ |
| ~~2.16+2.16 GHz~~ | ~~1 and 3, 4 and 6, 2 and 4, 5 and 7, 3 and 5, 6 and 8~~ | ~~6~~ |
| ~~1 and 4, 5 and 8, 2 and 5, 3 and 6, 4 and 7~~ | ~~7~~ |
| ~~1 and 5, 2 and 6, 3 and 7, 4 and 8, 1 and 6, 2 and 7, 3 and 8, 1 and 7, 2 and 8, 1 and 8~~ | ~~8~~ |
| ~~1 and 2, 3 and 4, 5 and 6, 7 and 8, 2 and 3, 4 and 5, 6 and 7~~ | ~~9~~ |
| ~~4.32+4.32 GHz~~ | ~~1-2 and 3-4, 2-3 and 4-5, 3-4 and 5-6, 4-5 and 6-7, 5-6 and 7-8, 1-2 and 4-5, 1-2 and 5-6, 1-2 and 6-7, 1-2 and 7-8, 2-3 and 5-6, 2-3 and 6-7, 2-3 and 7-8, 3-4 and 6-7, 3-4 and 7-8, 4-5 and 7-8~~ | ~~10~~ |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Bandwidth of PPDU** | **2.16 GHz channel number(s) over which PPDU is transmitted** | | | | | | | | **Compressed BW field value** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| 2.16 GHz | x | - | - | - | - | - | - | - | 0 |
| - | x | - | - | - | - | - | - |
| - | - | x | - | - | - | - | - |
| - | - | - | x | - | - | - | - |
| - | - | - | - | x | - | - | - |
| - | - | - | - | - | x | - | - |
| - | - | - | - | - | - | x | - |
| - | - | - | - | - | - | - | x |
| 4.32 GHz or  2.16 GHz + 2.16 GHz | x | x | - | - | - | - | - | - | 1 |
| - | - | x | x | - | - | - | - |
| - | - | - | - | x | x | - | - |
| - | - | - | - | - | - | x | x |
| 4.32 GHz or  2.16 GHz + 2.16 GHz | - | x | x | - | - | - | - | - | 2 |
| - | - | - | x | x | - | - | - |
| - | - | - | - | - | x | x | - |
| x | - | - | - | - | - | - | X |
| 6.48 GHz | x | x | x | - | - | - | - | - | 3 |
| - | - | - | x | x | x | - | - |
| 6.48 GHz | - | x | x | x | - | - | - | - | 4 |
| - | - | - | - | x | x | x | - |
| 6.48 GHz | - | - | x | x | x | - | - | - | 5 |
| - | - | - | - | - | x | x | x |
| 8.64 GHz or  4.32 GHz+4.32 GHz | x | x | x | x | - | - | - | - | 6 |
| - | - | - | - | x | x | x | x |
| 8.64 GHz or  4.32 GHz+4.32 GHz | - | x | x | x | x | - | - | - | 7 |
| 8.64 GHz or  4.32 GHz+4.32 GHz | - | - | x | x | x | x | - | - | 8 |
| 8.64 GHz or  4.32 GHz+4.32 GHz | - | - | - | x | x | x | x | - | 9 |
| 2.16 GHz + 2.16 GHz | x | - | x | - | - | - | - | - | 10 |
| - | x | - | x | - | - | - | - |
| - | - | - | - | x | - | x | - |
| - | - | - | - | - | x | - | x |
| 2.16 GHz + 2.16 GHz | - | - | x | - | x | - | - | - | 11 |
| - | - | - | x | - | x | - | - |
| 2.16 GHz + 2.16 GHz | x | - | - | x | - | - | - | - | 12 |
| - | x | - | - | x | - | - | - |
| - | - | x | - | - | x | - | - |
| 2.16 GHz + 2.16 GHz | - | - | - | x | - | - | x | - | 13 |
| - | - | - | - | x | - | - | x |
| 2.16 GHz + 2.16 GHz | x | - | - | - | x | - | - | - | 14 |
| - | x | - | - | - | x | - | - |
| - | - | x | - | - | - | x | - |
| - | - | - | x | - | - | - | x |
| 4.32 GHz+ 4.32GHz | x | x | - | x | x | - | - | - | 15 |
| 4.32 GHz+ 4.32GHz | - | x | x | - | x | x | - | - | 16 |
| 4.32 GHz+ 4.32GHz | - | - | x | x | - | x | x | - | 17 |
| 4.32 GHz+ 4.32GHz | - | - | - | x | x | - | x | x | 18 |
| 4.32 GHz+ 4.32GHz | x | x | - | - | x | x | - | - | 19 |
| - | - | x | x | - | - | x | x |
| 4.32 GHz+ 4.32GHz | - | x | x | - | - | x | x | - | 20 |

“x” indicates channel is used

“-” indicates channel is not used