IEEE P802.11  
Wireless LANs

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| Comment Resolution on MIMO BF Related IEs | | | | |
| Date: 2018-09-12 | | | | |
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Abstract

This submission proposes resolution of comments on MIMO BF related IEs received from LB #234 (TGay Draft 2.0).

- 4 CID: 3555, 3394, 3556, 3557

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Page Number** | **Line Number** | **Comment** | **Proposed Change** | **Resolution** |
| 3555 | 121 | 30 | the Group Size may need to be limited to value of 32 as this is the size of the Group User Mask within the MIMO Setup Control element is only 32 bits | Limit the Group Size to 32 or to add rule that MIMO Setup Control could be used only if group size is smaller than 32 | Rejected-  In 11ay D2.0, the 5-bit Group Size field of the EDMG Group ID Set element indicates the number of EDMG STAs that belong to the group, i.e., the number of subfields following this subfield minus one. In other words, the maximum group size has been limited to 32. |
| 3394 | 126 | 9 | currently L-TX-RX field is reserved when SU-MU field is set to 0 (SU-MIMO), but the procedure in 10.43.9.2.2.3.2 (SU-MIMO) references this field.  In addition, this field should also be reserved when it is sent by initiator in SU preciprocal MIMO phase | modified the condition to 'This field is reserved when the SU-MIMO is set to 1 or when SU-MIMO is set to 0, Non-reciprocal/Reciprocal MIMO phase set to 1 and Initiator field is set to 1  same change to Requested EDMG TRN-Unit M description | Accepted- |
| 3556 | 126 | 12 | How Group User Mask should be set if the Group Size is greater than 32 ? | Add rule or exclude | Rejected-  In 11ay D2.0, the 5-bit Group Size field of the EDMG Group ID Set element indicates the number of EDMG STAs that belong to the group, i.e., the number of subfields following this subfield minus one. In other words, the maximum group size has been limited to 32. |
| 3557 | 127 | 14 | there is no indication from which point in time the Training Duration should be measured | Please indicate from which point in time the duration should be started to be measured | Revised- |

**Proposed changes to D2.0:**

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9.4.2.258 MIMO Setup Control element

*L9P126: change Table 16 as follows: (CID #3394):*

|  |  |  |
| --- | --- | --- |
| **Field** | **Size (bits)** | **Meaning** |
| … | … | … |
| L-TX-RX | 8 | Indicates the requested number of consecutive TRN-Units in which the same AWV is used in the transmission of the last *M* TRN subfields of each TRN-Unit. This field is reserved when the SU/MU field is set to 1 or when the SU/MU field is set to 0, the Non-reciprocal/Reciprocal MIMO phase field is set to 1 and the Initiator field is set to 1. |
| Requested EDMG TRN-Unit M | 4 | The value of this field plus one indicates the requested number of TRN subfields in a TRN-Unit that can be used for transmit training, as defined in 29.9.2.2. This field is reserved when the SU/MU field is set to 1 or when the SU/MU field is set to 0, the Non-reciprocal/Reciprocal MIMO phase field is set to 1 and the Initiator field is set to 1. |
| … | … | … |

9.4.2.259 MIMO Poll Control element

*L14P127: change Table 17 as follows: (CID #3557):*

|  |  |  |
| --- | --- | --- |
| **Field** | **Size (bits)** | **Meaning** |
| … | … | … |
| Training Duration | 14 | Indicates the maximum duration, in microseconds, that can be used by the polled responder to transmit EDMG BRP-RX/TX packets and starts following the reception of the MIMO BF Poll frame containing this element. Possible values range from 1 to 16383. This field is reserved when the Poll Type field is set to 0. |
| … | … | … |