IEEE P802.11
Wireless LANs

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| Comment Resolution on CID 3234 and 3455 |
| Date: 2018-12-28 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Lei Huang | Panasonic Corporation |  |  | lei.huang@sg.panasonic.com |

Abstract

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

- 2 CID: 3234, 3455

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| **CID** | **Page.Line Number** | **Comment** | **Proposed Change** | **Resolution** |
| 3455 | 254.25 | If MIMO BF is not received the initaitor would not know to re-transmit because it is an action no ack frame. In this case the responder needs to poll the initiator for an re-transmission | specify a poll from responder for recovery | Revised-Agreed in principle with the commenter. |
| 3234 | 255.11 | There is an inherent assumption in the spec that devices cannot switch DMG antennas within SIFS. The MIMO BF training provides unrelated Uplink and downlink TX-RX combinations - how can we make sure that the same antennas are used in both links? | show how the protocol avoid using different DMG antenna sets on the the links from the initiator to responder and responder to initiator | Rejected-The specification does not specify how to determine TX/RX sector combination to be used for SU-MIMO transmission based on a couple of recommended TX/RX sector combinations obtained from SU-MIMO BF training. However, at the beginning of SU-MIMO channel access procedure, it is possible for both initiator and responder to negotiate TX/RX antenna settings so that different DMG antenna sets used for both links can be avoided. |

***Proposed text modifications:***

**10.43.10.2.2 SU-MIMO beamforming**

**10.43.10.2.2.3.2 Non-reciprocal MIMO phase**

***TGay editor: modify the three paragraphes at P255L47 of D2.1 as follows (CID 3455):***

If the ComeBack Delay field of the MIMO BF Feedback frame received from the initiator is set to a nonzero value, the responder shall send a MIMO BF Poll frame with the SU/MU and Poll Type fields set to 0 to the initiator after the initiator’s comeback delay has elapsed subject to the DMG channel access rules in a DTI. The initiator shall send a MIMO BF Feedback frame which contains SU-MIMO BF feedback for the responder link a SIFS following the reception of the MIMO BF Poll frame. If the ComeBack Delay field of the MIMO BF Feedback frame received from the responder is set to a nonzero value, the initiator shall send a MIMO BF Poll frame with the SU/MU and Poll Type fields set to 0 to the responder after the responder’s comeback delay has elapsed subject to the DMG channel access rules in a DTI. The responder shall send a MIMO BF Feedback frame which contains SU-MIMO BF feedback for the initiator link a SIFS following the reception of the MIMO BF Poll frame.

**10.43.10.2.3 MU-MIMO beamforming**

**10.43.10.2.3.3.2 Non-reciprocal MIMO phase**

***TGay editor: modify the three paragraphes at P263L25 of D2.1 as follows (CID 3455):***

If the ComeBack Delay field of the MIMO BF Feedback frame received from the responder is set to a nonzero value, the initiator shall send a MIMO BF Poll frame with the SU/MU field set to 1 and the Poll Type field set to 0 to the responder immediately after the responder’s comeback delay has elapsed subject to the DMG channel access rules in a DTI. In this case, the responder shall respond with a MIMO BF Feedback frame which contains MU-MIMO BF feedback.