IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SA D6 resolution of CIDs 7049, 7050, 7051, 7052, 7053, 7054, 7055 | | | | |
| Date: 2020-10-05 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Solomon Trainin | Qualcomm |  |  | strainin@qti.qualcomm.com |
| Alecsander Eitan | Qualcomm |  |  | eitana@qti.qualcomm.com |
| Assaf Kasher | Qualcomm |  |  | akasher@qti.qualcomm.com |

Abstract

Resolution of SA D6 ballot comments CIDs 7049, 7050, 7051, 7052, 7053, 7054, 7055

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 7049 | 103.00 | 34 | 9.3.1.25.2 | Use of the same names of subfields in the Responder Info subfield and in the TDD Beamforming Information field format (TDD individual BF) of the same frame complicates the reading and the understanding. Propose to modify the names of the subfields in the Responder Info subfield format to make them different | Change the names in the Responder Info subfield to "Responder Feedback Offset per Responder", "Initiator Ack Offset per Responder","End of Training per Responder" | **Revised**  See below in the document |
| 7050 | 105.00 | 31 | 9.3.1.25.4 | "The Initiator Transmit Offset subfield is set to 0 to indicate that the initiator will transmit non-beamforming frames to the responder according to a TDD slot schedule available to the initiator." The mentioned subfield is not needed under scheduled BF where the schedule is known to the initiator and the responder, so the definition shall include both. If it is not the case and the schedule is available to the initiator only it shall use this subfield to setup the responder. | Append "… to the initiator and the responder" | **Accept** |
| 7051 | 106.00 | 7 | 9.3.1.25.4 | "The Responder Transmit Offset subfield is set to 0 to indicate that the responder will transmit non-beamforming frames to the initiator according to a TDD slot schedule available to the responder." The same discussion as in relation to the Initiator Transmit Offset. | Append "… to the responder and the initiator" | **Accept** |
| 7052 | 106.00 | 15 | 9.3.3.5 | During the BF procedure the responder collects the information that can be used to choose the best antenna sectors and the initiator decides what is the antenna configuration to use after if gets the information from the responder. So the Association Request shall deliver the information and the Association response may indicate the antenna sectors to use. | If present, the element specifies the TDD beamforming results and sector switch configuration. | **Revised**  See below in the document |
| 7053 | 106.00 | 18 | 9.3.3.6 | During the BF procedure the responder collects the information that can be used to choose the best antenna sectors and the initiator decides what is the antenna configuration to use after if gets the information from the responder. So the Association Request shall deliver the information and the Association response may indicate the antenna sectors to use. | If present, the element specifies the TDD beamforming results and sector switch configuration. | **Revised**  See below in the document |
| 7054 | 107.00 | 1 | 9.3.3.7 | During the BF procedure the responder collects the information that can be used to choose the best antenna sectors and the initiator decides what is the antenna configuration to use after it gets the information from the responder. So, the Reassociation Request shall deliver the information and the Reassociation response may indicate the antenna sectors to use. | If present, the element specifies the TDD beamforming results and sector switch configuration. | **Revised**  See below in the document |
| 7055 | 107.00 | 4 | 9.3.3.8 | During the BF procedure the responder collects the information that can be used to choose the best antenna sectors and the initiator decides what is the antenna configuration to use after if gets the information from the responder. So the Reassociation Request shall deliver the information and the Reassociation response may indicate the antenna sectors to use. | If present, the element specifies the TDD beamforming results and sector switch configuration. | **Revised**  See below in the document |

CID7049

Discussion

In the text that describes the group BF, the Responder Feedback Offset is indicated with the indexed ResponderOffsetn and Initiator Ack Offset is indicated with the indexed InitiatorAckOffsetn that makes clear the difference between the individual BF and the group BF. In many other places the subfields Responder Feedback Offset, Initiator Ack Offset, and End of Training are referred to the Responder Info subfield that clearly identifies their belonging to the group BF TDD SSW frame.

Propose to append reference to the Responder Info subfield where it does not appear, instead of changing the names.

**10.42.11.4 Initiator operation for TDD group beamforming**

P351L35

***TGay editor change as follows***

In order to avoid collision of TDD SSW Feedback frames, different Responder Feedback Offset subfield values in the Responder Info subfield of the TDD SSW frame should be used for different responders.

CID7052, CID7053, CID7054, and CID7055

Discussion

During the BF procedure the responder collects the TDD beamforming results that can be used to choose the best antenna sectors, and the initiator decides what is the antenna configuration to be used after it gets the information from the responder. So, the responder shall deliver the information to the initiator at the first opportunity and the initiator shall decide and instruct the responder what the antenna configuration to use. The (Re)Association request sent by the responder may be used to deliver the TDD beamforming results and the (Re)Association response may be used to provide the sector switch configuration.

Due to the strikethroughs are not retained when importing the comments through the comment database the proposed changes are not presented as the commenter intended. The text shall be changed as follows.

***TGay editor change as follows***

*P106 Table 9-36 (Association Request frame body)*

If present, the element specifies the TDD beamforming results.

*P106 Table 9-37 (Association Response frame body)*

If present, the element specifies the TDD sector switch configuration.

*P107 Table 9-38 (Reassociation Request frame body)*

If present, the element specifies the TDD beamforming results.

*P107 Table 9-39 (Reassociation Response frame body)*

If present, the element specifies the TDD sector switch configuration.

**References:**

1. IEEE P802.11ay/D6.0, September 2020
2. IEEE P802.11-REVmd/D5.0, September 2020