IEEE P802.11
Wireless LANs

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| Comment Resolution: CID 3085, 3221, 3310, 3505, 3506, 3549 |
| Date: 2018-11-12 |
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## Abstract

This submission proposes resolutions of comments received from TGay comment collection (TGay Draft 2.0).

* 6 CIDs: 3085, 3221, 3310, 3505, 3506, 3549

### 1. Introduction

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGay Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGay Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGay Editor: Editing instructions preceded by “TGay Editor” are instructions to the TGay editor to modify existing material in the TGay draft. As a result of adopting the changes, the TGay editor will execute the instructions rather than copy them to the TGay Draft.***

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| **CID** | **Page Number** | **Line Number** | **Comment** | **Proposed Change** | **Resolution** |
| 3058 | 299 | 27 | Please resolve the Editor's Note regarding the question of "what is: during the respective TDD beamforming training..." | Please resolve the Editor's Note regarding the question of "what is: during the respective TDD beamforming training..." | Revised-TGay editor to make the changes shown in 11-18/1890r0 under all headings that include CID 3058. |

***Proposed text changes to D2.0:***

***#1: Change the text as below, paragraph from page 299, line 17 to line 28 (CID #3058)***

For TDD group BF, an initiator may request one or more responders to stop its receive sector sweeping by setting the End of Training subfield to 1 in the corresponding Responder Info subfield of a transmitted TDD SSW frame. Upon reception of TDD SSW Feedback frame with End of Training subfield equal to 1, the initiator sends a TDD SSW Ack frame to the corresponding responder with End of Training subfield set to 1 at the time offset indicated by equation (8). After sending a TDD SSW Ack frame with End of Training subfield equal to 1, the initiator shall configure its DMG antenna to the sector index as indicated in the Decoded TX Sector ID subfield of the TDD SSW Feedback frame received from the corresponding responder ~~during the respective TDD beamforming training~~ in which its End of Training subfield was set to 1. The initiator shall use this sector for its subsequent transmissions and receptions with the corresponding responder, until another sector is negotiated.

***~~Editor Note: what is “during the respective TDD beamforming training in which its End of Training~~******~~subfield was set to 1”?~~***

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| **CID** | **Page Number** | **Line Number** | **Comment** | **Proposed Change** | **Resolution** |
| 3221 | 292 | 5 | "During TDD group beamforming training, a STA that has not established a DMG control mode connection" - If it is group beamforming - is it several STAs? | Replace "a STA that has" by "STAs that have" | Accepted-TGay editor to make the changes shown in 11-18/1890r0 under all headings that include CID 3221.  |

***Proposed text changes to D2.0:***

***#2: Change the text as below, paragraph from page 292, line 5 to line 13 (CID #3221)***

During TDD group beamforming training, ~~a STA~~ STAs that ~~has~~ have not established a DMG control mode connection with an intended peer, switches its antenna configuration through all its receive sectors. In order to establish a DMG control mode connection, an initiator sends multiple TDD SSW frames during its assigned TDD slots. A TDD SSW frame indicates to the responders the TX Sector ID used by the initiator for the transmission of the TDD SSW frames, the time offset for which each responder should send its TDD SSW Feedback frame as response and the time offset each responder shall be ready to receive a TDD SSW Ack frame. Each responder sends its TDD SSW Feedback frame with the same sector it received the TDD SSW frame with the best quality. Following the reception of a TDD SSW Feedback frame, the initiator sends a TDD SSW Ack frame to each responder that acknowledges the received configuration.

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| **CID** | **Page Number** | **Line Number** | **Comment** | **Proposed Change** | **Resolution** |
| 3310 | 298 | 18 | Figure 145 --"TDD SSW Feedback frame transmit time for TDD group BF" uses the word "cound" instead of "count" in a number of ACK index examples. | Correct spelling of "cound" to "count". | Accepted-TGay editor to make the changes shown in 11-18/1890r0 under all headings that include CID 3310. |

***Proposed changes to D2.0:***

***#3: Change the figure 145 as below, from page 298, line 18 (CID #3310)***



**Figure 145 —TDD SSW Feedback frame transmit time for TDD group BF**

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| **CID** | **Page Number** | **Line Number** | **Comment** | **Proposed Change** | **Resolution** |
| 3505 | 297 | 1 | TDD group beamforming is assuming that the initiator knows the mac address and the responder IDs of the responders. The TDD group beamforming should enable beamforming multiple responders not known to the initiator before hand | The TDD group beamforming should be modified to enable deployment of group of responders that are not known to the initiator. This can be used for initial deployment of multiple devices. | Rejected-Changes required may not be trivial, and the commentor does not specific about this alternatives to consider.Individual proposal should be provided. |
| 3506 | 300 | 32 | The figure shows that the Responder stops sweeping its sectors after receiving the TDD SSW frame till the next TX TDD interval and the start of the new TX sector ID SSW frames transmission. The responder should keep sweeping its sectors though and do not stop as stated in the text | Extend the brackets after the TDD SSW frame reception to include the TDD interval after the TDD SSW reception for Responder 1 and Responder N | Revised-TGay editor to make the changes shown in 11-18/1890r0 under all headings that include CID 3506. |

***Proposed changes to D2.0:***

***#4: Change the figure146 from page 300, line 32 as below (CID #3506)***



**Figure 146 —Responder’s receiver sweeping for TDD group BF**

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| **CID** | **Page Number** | **Line Number** | **Comment** | **Proposed Change** | **Resolution** |
| 3549 | 76 | 3 | Need to define the TDD Beamforming fields values should be inserted in case BF was completed for the specific STA while it is continued for other STA. | The length of TDD Beamforming Information field does not change during TDD group BF, even after beamforming training with one or more of target responders has completed. The value of the added TDD Beamforming Information fields shall be ....... | RevisedTGay editor to make the changes shown in 11-18/1890r0 under all headings that include CID 3549. |

***Proposed changes to D2.0:***

***#5: Change the text as below, paragraph from page 75, line 16 to page 76 line 4 (CID #3549)***

The definition of the TDD Beamforming Information field depends on the type of frame indicated by the TDD Beamforming Frame Type subfield and is specified in subclauses 9.3.1.24.2, 9.3.1.24.3 and 9.3.1.24.4. The length of the TDD Beamforming Information field is 6 octets when the TDD Group Beamforming subfield is zero and is 5 + 4×*R* octets otherwise, where *R* is the number of target responders. The length of TDD Beamforming Information field does not change during TDD group BF, even after beamforming training with one or more of target responders has completed. For the target responder, which has completed beamforming training, the corresponding Responder Info subfield should be reserved.

**SP**

Do you agree to adopt the comment resolutions to CIDs: 3085, 3221, 3310, 3505, 3506, 3549 as proposed in IEEE 802.11-18/1890r0?