IEEE P802.11  
Wireless LANs

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| **SA D6 resolution of CIDs 7025, 7044** | | | | |
| Date: 2020-10-25 | | | | |
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Abstract

Resolution of SA D6 ballot comments CIDs 7025, 7044

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| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 7025 | 383 | 32 | 11.30.5 | The text in lines 32-44 clearly states that adding TRNs to the "DMG STA Directional Transmit Activity Report frame" is optional. The text and several other submissions and discussions on this topic made it very clear why the TRNs are necessary. Hence the text in these lines and maybe other parts in the spec should mandate the inclusion on TRNs and the minimum number of them, and not leave this as an optional feature. | The text in these lines and maybe other parts in the spec should mandate the inclusion on TRNs and the minimum number of them, and not leave this as an optional feature. | **Revised**  See below in the document |
| 7044 | 383.00 | 17 | 11.30.5 | "… provided that the STA has a transmit opportunity longer than SIFS plus the duration of a PPDU that only includes one activity report frame and no training subfields." There is no reason not to transmits the TRN fields - the STA that transmits the activity report PPDU has no idea how the TRN field are useful for the STAs that can receive the activity report PPDUs. Keep sending the TRN fields mandatory. | Remove "and no training subfields". Remove the NOTE at P383L41 that starts with "Even if the transmitting STA is capable of including TRN-R subfields…" | **Revised**  See below in the document |

**CID 7025, 7044**

Discussion

The Receive TRNs as part of the Directional transmit activity report PPDU are very important to provide the third-party SRD STA with the information that helps the SRD STA to mitigate the potential interference with the TDD STA. Once the SRD STA makes the wrong decision it may impact the TDD STAs as well. The TDD STA that transmits the activity report PPDU has no idea how the TRN fields are useful for the STAs that can receive the activity report PPDUs. Define the rule that the DMG STA that indicates the EDMG support shall transmit the TRN\_R as part of the Directional transmit activity report PPDU.

For reference:

Directional transmit activity report frame. BC = 28 (frame) + 59 (body) = 87 bytes

Directional transmit activity report frame body. BC = 10 (action frame) + 8 (country IE) +18 (Dir TX activity IE) + 19 (TX activity subE) + 4 (Tx param subE) = 59

Tx Time = 32.945us

TRN-unit time – 2.8us/unit (4992 samples by 1.76Gsample/s)

***TGay editor, change as instructed in the following***

P393L17

Remove "and no training subfields".

P383L41

Remove the NOTE that that starts with "Even if the transmitting STA is capable of including TRN-R subfields…"

P383L32

A DMG STA that indicates EDMG Supported subfield set to 1 in the transmitted DMG Parameters field shall include DMG TRN-R subfields within its TRN field of the PPDU containing an activity report frame to enable receive training. Specifically, the STA transmitting such PPDU shall set the TRN-LEN parameter of the TXVECTOR of the PPDU to a value not less than 2 and shall set the PPDU\_TYPE parameter of the TXVECTOR to TRN-R. The PPDU\_TYPE parameter of the TXVECTOR of such PPDU shall not be set to TRN-T.

**References:**

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