IEEE P802.11  
Wireless LANs

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| **SA D6 resolution of CIDs** **7027, 7031, 7045, 7046** | | | | |
| Date: 2020-11-01 | | | | |
| 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 7027, 7031, 7045, 7046

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 7027 | 11.30.5 | 384 | 14 | "...it shall transmit a PPDU … at least once during every dot11DMGSTATxActivityReportInterval time units" As it is defined the time is property of the STA and anyone can set it to any value. Since this message is for coexistence to help others, nothing limits a bad actor to set this to infinity. The maximum time shall be limited to a resonable value e.g. 1 sec. | Limit the maximum report interval time to a reasonable number. I suggest 1 sec. | **Revised**  See below in the document |
| 7031 | 100 | 750 | 1 | Annex B: PICS shall mandate transmission of "DMG STA Directional Transmit Activity Report frame" (9.6.7.48) when STA operated in TDD mode | Add row into the PICS to mandate the transmission of the "DMG STA Directional Transmit Activity Report frame" (according to the rules in this spec) when STA operates in TDD mode. This is crucial for coexistence as it was discussed numerous times. | **Revised**  See below in the document |
| 7045 | 11.30.5 | 383 | 14 | "...it shall transmit a PPDU … at least once during every dot11DMGSTATxActivityReportInterval time units" As it is defined the time is property of the STA and does not have any reference to the common Network parameters, thus completely unpredictable by other devices. Propose to limit the value of the parameter by the common Network parameter. | Append at end of the paragraph: "The duration of dot11DMGSTATxActivityReportInterval time units shall not exceed 4 x BI x dot11MaxLostBeacons." | **Revised**  See below in the document |
| 7046 | 11.30.5 | 383 | 14 | "...it shall transmit a PPDU … at least once during every dot11DMGSTATxActivityReportInterval time units" As it is defined the time is property of the STA and other STAs cannot be sure the activity report will be received during the passive scanning. | Define limitation of the "dot11DMGSTATxActivityReportInterval time units" by the aParameter that fits the STAs expectation during passive scanning. | **Revised**  See below in the document |

**CIDs 7027, 7045, and 7046**

Discussion

As it is defined in the current text, the interval between the DMG STA Directional Transmit Activity Report transmissions is a property of the STA and anyone can set it to any value. Since this message is used for coexistence to help others, nothing currently limits a bad actor to set this length of this interval to infinity. The maximum time shall be limited to a value that keeps backward compatibility with 802.11ad compliant STA. The proposal is to define a new parameter aDMGSTATxActivityReportingLimit of size 1000ms that would serve as the mandatory upper limit of the DMG STA Directional Transmit Activity Report frame transmission period.

***P383***

***TGay editor, append at the end of the third paragraph***

The interval between the start of transmission of consecutive Directional Transmit Activity Report frames shall not exceed aDMGSTATxActivityReportingtLimit.

**11.37 DMG MAC sublayer attributes**

***P395***

***TGay editor insert new row in Table 11-22***

|  |  |
| --- | --- |
| aDMGSTATxActivityReportingtLimit | 1000ms |

***CID7031***

Discussion

Agree with the commenter that support of the Directional Transmit Activity Report shall be presented in PICS.

Propose to add it to the TDD channel access of B.4.35 Time division duplex (TDD) features

***P758***

***TGay editor insert new row after TDD-M.2.4***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TDD-M.2.5 | Directional Transmit Activity Report frames transmission | 11.30.5 | CFTDD:M | Yes No N/A |

**References:**

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