IEEE P802.11  
Wireless LANs

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| **SA D6 resolution of CIDs 7028, 7029, 7030, 7040, 7042, 7043, 7038, 7039** | | | | |
| Date: 2020-10-25 | | | | |
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Abstract

Resolution of SA D6 ballot comments CIDs 7028, 7029, 7030, 7040, 7042, 7043, 7038, 7039

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 7028 | 384.00 | 10 | 11.30.5 | The text "….using the reference antenna pattern and using the reference 2.16 GHz channel or a wider channel that includes the reference channel". The term "REFERENCE ANTENNA PATTERN" and "REFERENCE CHANNEL" are not clear. There is no reference here. The intent, as far as I know, is that the same antenna pattern and channels as for the actual transmissions to the STA(s) shall be used. | Rephrase | **Revised**  See below in the document |
| 7029 | 384.00 | 15 | 11.30.5 | The text "….using the reference antenna pattern, and on the 2.16 GHz reference channel". The term "REFERENCE ANTENNA PATTERN" and "REFERENCE CHANNEL" are not clear. There is no reference here. The intent, as far as I know, is that the same antenna pattern and channels as for the actual transmissions to the STA(s) shall be used. | Rephrase | **Revised**  See below in the document |
| 7030 | 384.00 | 28 | 11.30.5 | The text "….using the reference antenna pattern and occupying channels that are the same as, or include the reference channel". The term "REFERENCE ANTENNA PATTERN" and "REFERENCE CHANNEL" are not clear. There is no reference here. The intent, as far as I know, is that the same antenna pattern and channels as for the actual transmissions to the STA(s) shall be used. | Rephrase | **Revised**  See below in the document |
| 7040 | 383.00 | 10 | 11.30.5 | "...using the reference antenna pattern and using the reference 2.16 GHz channel…" In no place is defined what is the antenna pattern and the channel used for the reference. | Define the antenna pattern and the channel that is used for the reference | **Revised**  See below in the document |
| 7042 | 383.00 | 14 | 11.30.5 | "...shall transmit a PPDU containing at least one activity report frame…" The activity report frame is sent by MCS0 there no aggregation is allowed. The sentence is misleading, the PPDU that contains the activity report cannot contain other MAC frames. | Replace by "...shall transmit a PPDU containing one activity report MMPDU…" | **Accept** |
| 7043 | 383.00 | 16 | 11.30.5 | "… it shall transmit a PPDU ... , provided that the STA has a transmit opportunity longer than SIFS plus the duration of a PPDU that only includes one activity report frame ..." The current rule results that if the STA does not have the transmit opportunity during this defined interval it may not transmit this frame at all. We suggest adding an explanation that in this case the station should send the frame as soon as possible. | Append the sentence by: "If the STA does not have the transmit opportunity to transmit the activity report frame during this time, it shall transmit the frame at the first opportunity." | **Accept** |
| 7038 | 383.00 | 36 | 11.30.5 | "The transmitting STA sets the Expect TRN-R subfield…" There is no such subfield. Remove the sentence | Remove the sentence that starts with "The transmitting STA sets the Expect TRN-R subfield…" | **Accept** |
| 7039 | 383.00 | 41 | 11.30.5 | "The Expect TRN-R subfield…" There is no such subfield. Remove the sentence | Remove the sentence that starts with "The Expect TRN-R subfield in …" | **Accept** |

**CID 7028, 7029, 7030, and 7040**

**Discussion**

The term "REFERENCE ANTENNA PATTERN" and "REFERENCE CHANNEL" used in the text are not defined and are not clear. As follows from the rest of the text, the intent is to use the same antenna patterns and channels as for the actual transmissions on the STA. So, it is proposed to change the text to clarify the intent and avoid the use of vague terms.

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For each receiver (or group of receivers always transmitted data through a common transmit antenna pattern and transmit power) and each 2.16 GHz channel that the transmitting STA is using to communicate with the receiver(s), the STA monitors its transmit activity in terms of number of active time units, contiguous or non-contiguous, during a sliding window comprising a given number of time units. An active time unit is a period during which the STA has been in transmit mode for a percentage of the time unit greater than or equal to aDMGActiveThresholdPercentage, excluding any time spent towards transmitting a DMG Beacon frame or a PPDU that contains only activity report frames, using the common antenna pattern and the transmit power, and using the 2.16 GHz channels. The time unit duration, in microseconds, is dot11DMGSTATxActivityReportTimeUnit.

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… using the common antenna pattern, and on each of the 2.16 GHz channels used for the data transmission, at least once during every …

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The PPDUs containing an activity report frame should use the average effective TRP that the transmitting STA expects to apply when it communicates with other STAs using the common antenna pattern and occupying channels that are the same as, or include the channels used for the data transfer.

**References:**

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