IEEE P802.11
Wireless LANs

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| Resolution for LB266 CID 11676  |
| Date: 2022-10-04 |
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Abstract

##### This submission present proposed resolutions for the following CID: 11676

##### The proposed changes are based on 802.11be/D2.2.

##### Revision history:

##### r0 – initial version

r1 – Add reasons for the resolution in discussion

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| **CID** | **Clause** | **Page.Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 11676 | 35.11.3(D2.0)35.10.3 (D2.2) | 515.21(D2.0)554.62 (D2.2) | Since EHT STA has the EHT Spatial Reuse subfields in the Special user Info field, there is a need to add a subclause to clarify the definition of UL Spatial Reuse subfield in the Special User field of Trigger frame | Add a subclause to clarify the definition of UL Spatial Reuse subfield in the Special user field Trigger frame | **Accepted** |

**Discussion**

There at least three reasons for accepting the proposed change:

1. In 11be the values in the UL Spatial Reuse subfields of trigger frame are determined by EHT Spatial Reuse subfields (see P162, L54, D2.2). So, the subclause 26.10.3.4 (UL Spatial Reuse subfield of trigger frame) cannot be applied to EHT when the Trigger frame solicits an EHT TB PPDU.



1. In 11be, 80+80 MHz PPDU is not defined. 320 MHz PPDU is newly defined in 11be.
2. In 11be, PSR values are all set per 20 MHz basis, regardless the bandwidth of the PPDU.

Therefore, a subclause should be added to describe how to determine the values in EHT Spatial Reuse subfield.

**End of discussion**

***TGbe editor: please add the following subclause after the subclause 35.10.3.1 in 802.1be/D2.2***

**35.10.3.4 EHT Spatial Reuse subfields of Trigger frame**

An AP with dot11HEPSROptionImplemented set to true that transmits a Trigger frame may determine the value of the EHT Spatial Reuse subfield of the Special User Info field of the Trigger frame for each 20 MHz subchannel for a 20 MHz, 40 MHz, 80 MHz, 160MHz or 320MHz PPDU by selecting the row in Table 27-23 (Spatial Reuse field encoding for an HE TB PPDU) that has a numerical value in the “Meaning” column that is the highest value that is less than or equal to the value of the computed MAC parameter PSR\_INPUT as follows:

PSR\_INPUT = TX\_PWRAP+ Acceptable Receiver Interference LevelAP

where

TX\_PWRAPis the total power at the antenna connector, in dBm, for that 20 MHz subchannel for a 20 MHz, 40 MHz, 80 MHz, 160MHz or 320MHz PPDU, over all antennas used to transmit the PSRR PPDU containing the Trigger frame

Acceptable Receiver Interference LevelAP is a value in dBm for that 20 MHz subchannel for a 20 MHz, 40 MHz, 80 MHz, 160MHz or 320MHz PPDU and should be set to the expected receive signal power indicated by the UL Target Receive Power subfield in the Trigger frame for the highest EHT-MCS of the ensuing EHT TB PPDUs minus the minimum SNR value that yields ≤ 10% PER for that MCS minus a safety margin value not to exceed 5 dB as determined by the AP

An AP with dot11HEPSROptionImplemented set to true that transmits a Trigger frame may set the value of the EHT Spatial Reuse subfield of the Special User Info field of the Trigger frame in each 20 MHz bandwidth for a 20 MHz, 40 MHz, 80 MHz, 160MHz or 320MHz PPDU to PSR\_DISALLOW.

An AP with dot11HEPSROptionImplemented set to false that transmits a Trigger frame shall set the value of the EHT Spatial Reuse subfield of the Special User Info field of the Trigger frame in each 20 MHz bandwidth for a 20 MHz, 40 MHz, 80 MHz, 160MHz or 320MHz to PSR\_DISALLOW.