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Wireless LANs

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| Proposed Text Changes for SR Fields in HE Trigger-Based PPDU |
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Abstract

This document provide proposed text changes to resolve SR field interpretation ambiguity. Please refer to document “11-16/XXXXr0 Clarification of SR Fields in HE Trigger Based PPDU” for details of the discussion.

This document shows the proposed text changes for resolving SR field ambiguity, which is discussed in document 11-16/XXXXr0.

**To TGax Editor:** Replace the “Spatial reuse field” in Table 26-17 of the secton 26.3.9.7.2 (Content) with four new field entries as shown below. Add a note shown below to the end of the Table 26-17 of section 26.3.9.7.2 (Content).

Details of the proposed changes are shown below.

***----- Start of proposed text changes ------***

|  |
| --- |
| * Fields in the HE-SIG-A for an HE trigger-based PPDU
 |
| Two Parts of HE-SIG-A | Bit | Field | Number of bits | Description |
|  | TBD | Spatial Reuse 1 | TBD | If Bandwidth is set to 20 MHz* Spatial Reuse field for the 20MHz bandwidth

If Bandwidth is set to 40 MHz* Spatial Reuse field for the first 20 MHz of the 40 MHz operating band. (See Note 1)

If Bandwidth is set to 80 MHz* Spatial Reuse field for the first 20 MHz of the 80 MHz operating band. (See Note 1)

If Bandwidth is set to 160/80+80 MHz* Spatial Reuse field for first 40 MHz of the 160 MHz operating band. (See Note 1)

“SR\_allowed” signaling indicates whether SR operation is allowed or not. A value of Spatial Reuse field is used to indicate SR is disallowed. The conditions to disallow SR are TBD. Multiple SR fields (>=2) are signaled, where each SR field corresponds to a different subband of the PPDU. Other details are TBD.Notes: this part needs further development.(#2169) |
|   | TBD | Spatial Reuse 2 | TBD | If Bandwidth is set to 20 MHz* Spatial Reuse field for the 20MHz bandwidth.
* This field is set to same value as Spatial Reuse 1 field.

If Bandwidth is set to 40 MHz* Spatial Reuse field for the second 20 MHz of the 40 MHz operating band. (See Note 1).
* This field is set to same value as Spatial Reuse 1 field when operating in 2.4 GHz band.

If Bandwidth is set to 80 MHz* Spatial Reuse field for the second 20 MHz of the 80 MHz operating band. (See Note 1)

If Bandwidth is set to 160/80+80 MHz* Spatial Reuse field for second 40 MHz of the 160 MHz operating band. (See Note 1)
 |
|  | TBD | Spatial Reuse 3 | TBD | If Bandwidth is set to 20 MHz* Spatial Reuse field for the 20MHz bandwidth.
* This field is set to same value as Spatial Reuse 1 field.

If Bandwidth is set to 40 MHz* Spatial Reuse field for the first 20 MHz of the 40 MHz operating band. (See Note 1).
* This field is set to same value as Spatial Reuse 1 field.

If Bandwidth is set to 80 MHz* Spatial Reuse field for the third 20 MHz of the 80 MHz operating band. (See Note 1)

If Bandwidth is set to 160/80+80 MHz* Spatial Reuse field for third 40 MHz of the 160 MHz operating band. (See Note 1).
* This field is set to same value as Spatial Reuse 1 field when bandwidth of the HE PPDU is 80+80 MHz.
 |
|  | TBD | Spatial Reuse 4 | TBD | If Bandwidth is set to 20 MHz* Spatial Reuse field for the 20MHz bandwidth.
* This field is set to same value as Spatial Reuse 1 field.

If Bandwidth is set to 40 MHz* Spatial Reuse field for the second 20 MHz of the 40 MHz operating band. (See Note 1).
* This field is set to same value as Spatial Reuse 2 field.

If Bandwidth is set to 80 MHz* Spatial Reuse field for the fourth 20 MHz of the 80 MHz operating band. (See Note 1)

If Bandwidth is set to 160/80+80 MHz* Spatial Reuse field for fourth 40 MHz of the 160 MHz operating band. (See Note 1).
* This field is set to same value as Spatial Reuse 2 field when bandwidth of the HE PPDU is 80+80 MHz.
 |
| Note 1: First, second, third, and fourth 20 or 40MHz band is enumerated from the lowest frequency to highest frequency. |

***----- End of proposed text changes ------***