IEEE P802.11
Wireless LANs

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| CR for OBSS\_PD SR |
| Date: 2017-12-7 |
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Abstract

This document provides revision for CIDs related to OBSS\_PD SR.

12429, 11736

1. **Introduction**

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

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| **CID** | **Commenter** | **Clause Number(C)** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 12429 | Albert Petrick | 9.4.2.243 | 156.43 | The definition of Non-SRG OBSS\_PD SR Disallowed is just used for Tx control. However it seems the field is used for setting HE SIG-A also in clause 27. | make two places consistent. | Revised – agree with the commenter. Modify section 27.9.2.2 to include the condition in the general Non-SRG OBSS\_PD operation and clean typo in section 27.11.6. Apply the changes as defined in 0467r0.  |
| 11736 | Geonjung Ko | 27.9.2.1 | 291.37 | According to the subclass 27.11.6 (SPATIAL\_REUSE), when a STA transmits a Trigger frame, it is recommended to set the TXVECTOR parameter SPATIAL\_REUSE to SR\_DELAY or SR\_RESTRICTED. Since a Trigger frame is allowed to be sent in a HT or VHT PPDU, there may be other frames aggregated to the Trigger frame in the same PPDU. If an inter-BSS STA transmits a frame based on the OBSS\_PD-based SR on the PPDU, STAs solicited by the Trigger frame may not be able to respond to the Trigger frame after the CCA. Therefore, we can define the operation for a STA which received a Trigger frame, for example, the similar operation when the Spatial Reuse field is set to SR\_DELAY or SR\_RESTRICTED. | Add"If the PHY-CCARESET.request primitive is issued before the end of the PPDU, and a TXOP is initiated within the duration of the PPDU, then the TXOP should be limited to the duration of the PPDU if a Trigger frame is in the PPDU." | Revised - Agree with the commenter. For a trigger carried in VHT, it is true that a STA can classify it as inter-BSS PPDU based on the VHT-SIG field, so we could have an issue here. But there does not seem to be any reason why we would use VHT PPDU to send a trigger frame. The proposed resolution is therefore to include a note to recommend the AP not to transmit trigger frames in VHT PPDU format.Apply the changes as in doc 0467r0. |

1. **Discussion**

CID 12429: This CID got resolved with doc 1852r8. During the discussion last meeting, some edition were made on the fly (revision 1 to revision 2) to remove a double negation with an affirmation, assuming this was a simple editorial change. The issue now is that it is ambiguous whether the spatial reuse parameter set element has to be transmitted or not. The specification defines that the spatial reuse parameter set element does not need to be transmitted for non-SRG OBSS\_PD SR to be used. We propose to edit the sentence to ensure that there is no more ambiguity in the new sentence.

CID 11736: This CID got resolved with doc 1852r8. The note mentioned that to get protection equivalent to SR\_DELAY, the AP might transmit the trigger frame in non-HT or HT PPDU. The intention is that if it is transmitted without aggregation, then the 3rd party STA that wants to reuse can only classify the PPDU as inter-BSS PPDU at the end of the PPDU, effectively doing SR with SR\_DELAY protection. However, for HT PPDU, aggregation can be used, which doesn’t provide the protection envisioned. We therefore propose to make the clarify that HT PPDU has to be sent with the aggregation bit set to 0 to get SR\_DELAY protection.

1. **Proposed changes**

***11ax Editor: Modify the following sentence in 27.9.2.2 General operation with Non-SRG OBSS\_PD level as follows***

* The most recently received Spatial Reuse Parameter Set element from its associated AP had the Non-SRG OBSS\_PD SR Disallowed subfield equal to 0 or the STA has not received a Spatial Reuse Parameter Set element from its associated AP or the STA is an AP and its most recently transmitted Spatial Reuse Parameter Set element had the Non-SRG OBSS\_PD SR Disallowed subfield equal to 0 or the STA is an AP and has not transmitted a Spatial Reuse Parameter Set element. (#12429)

***11ax Editor: Modify the following sentence in 27.9.2.2 General operation with Non-SRG OBSS\_PD level as follows***

NOTE - If an AP wants to get the protection equivalent to SR\_DELAY, when transmitting a trigger frame in non-HE format, it might not transmit the trigger frame in a VHT PPDU, but in a non-HT or in an HT PPDU with the TXVECTOR parameter AGGREGATION set to 0. (#11736)

***11ax Editor: Modify the following sentence in 27.9.2.2 General operation with Non-SRG OBSS\_PD level as follows***

NOTE - If an AP wants to get the protection equivalent to SR\_DELAY, when transmitting a trigger frame in non-HE format, it might not transmit the trigger frame in a VHT PPDU, but in a non-HT or in an HT PPDU with the TXVECTOR parameter AGGREGATION set to 0. (#11736)