IEEE P802.11
Wireless LANs

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| LB266 CR for subclause 35.12 and 35.2.2.1 |
| Date: 2022-09-30 |
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Abstract

This submission proposes resolutions of comments received from TGbe comment collection LB266 based on TGbe D2.2.

11002 11003 11004 11005 12011 11097 12352 10948 11869 11870 11961 (11 CIDs)

Revisions:

* Rev 0: Initial version of the document.
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 TGbe 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 TGbe Draft (i.e. they are instructions to the 802.11be editor on how to merge the text with the baseline documents).***

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

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 11002 | 35.12.1.4 | 515.60 | There are some rules in 26.11.4 are for HE SU PPDU that could be applicable to EHT MU PPDU. Please generalize the text to cover that as well. | As in comment | Revised-Agree with the comment in principle. Apply the changes marked as #11002 in this document.  |
| 11003 | 35.12.1.5 | 516.06 | There are some rules in 26.11.5 are for HE SU PPDU that could be applicable to EHT MU PPDU. Please generalize the text to cover that as well. | As in comment | Revised-Agree with the comment in principle. Apply the changes marked as #11003 in this document.  |
| 11004 | 35.12.1.6 | 516.14 | The rule in 26.11.8 seems to be applicable to non-HT (dup) PPDU only, so this bullet can be deleted. | As in comment | Accepted- |
| 11005 | 35.12.2 | 516.22 | 35.11 seems to be a better subclause to refer to instead of 35.11.3 to also cover the OBSS-PD based spatial reuse. | As in comment | Revised-Agree with the comment in principle. Apply the changes marked as #11005 in this document.  |
| 12011 | 35.12.2 | 516.28 | Remove the space between "PSR\_AND\_NON\_SRG\_" and "OBSS\_PD\_PROHIBITED". | As in comment. | Accepted- |
| 11097 | 32.2.2.1 | 404.10 | Trying to cover the singular and plural using this bracketing technique is cumbersome. For example, in this case, you would need to change "are" to "is(are)". Just use the plural -- for the purpose of a requirement, the signalar is always covered as a special case of the plural. In this case it looks like there is an abiguity; must all the recipients be EHT? Note that the "non-AP" aspect of the recipient is irrelavant (even thought it is always true). | Change to "An MU-RTS Trigger frame may be carried in an EHT MU PPDU if all the intended recipients are EHT STAs." | Revised-Agree with the commenter partially, it is true that the singular is always covered as a special case of the plural. Apply the changes marked as #11097 in this document.  |
| 12352 | 35.12.2 | 516.28 | Unnecessary space after SRG\_ in PSR\_AND\_NON\_SRG\_OBSS\_PD\_PROHIBITED | As in the comment | Revised-Agree with the comment in principle. Apply the changes marked as #12352 in this document.  |
| 10948 | 35.12.2 | 516.59 | It is not clear what are "other conditions" are in the sentence: "when permitted by other conditions". Other conditions should be spelt out. | Describe the "other conditions". | Revised-According to the subclause 26.10.3 (PSR-based spatial reuse operation) of IEEE 802.11ax-2021, the “other conditions” are clarified. Apply the changes marked as #10948 in this document. |
| 11869 | 35.12.5 | 520.28 | The parameter INACTIVE\_SUBCHANNELS may be present...? May be present or shall be present subject to certain requirements (e.g., EHT Operation contains the disabled subchannel bitmap and the PPDU's BW covers at least one punctured subchannel and so on). | As in comment. | Revised-Regarding the condition of presence, it is in 35.16.2 Preamble puncturing operation. A reference is added to the cited text. Apply the changes marked as #11869 in this document. |
| 11870 | 35.12.5 | 520.28 | "An EHT STA sets dot11EHTBaseLineFeaturesImplementedOnly to true." What STA sets dot11EHTBaselinefeaturesimplementedonly to false? Please clarify | As in comment. | Rejected-After checking the subclause 35.12.5, there is no such sentence, so no extra clarification is needed. |
| 11961 | 35.31 | 434.36 | There is no need to initialize BSS Critical Update Flag to value 0. It is better to randomize the initial value to ensure that all BSSs look similar. Attackers can use value 0 to detect BSSs that are recently generated. | please change the text: "is initialized to 0" to "is initialized to a random value". | Rejected-There is no benefit to let BPCC start with a random value. The attack model is not clear. To make it consistent with the baseline, no changes are required. |

**Discussion:** None.

***TGbe editor: Please modify the subclause as follows***

**35.12.1.4 BSS\_COLOR**

An EHT STA shall set the parameter BSS\_COLOR in the TXVECTOR following the rules defined in 26.11.4 (BSS\_COLOR) and with the following additions:

—The rules that apply to an HE MU PPDU shall also apply to an EHT MU PPDU

An EHT non-AP STA that transmits an EHT MU PPDU addressed to a STA that is not a member of the transmitting STA’s EHT BSS, shall set the TXVECTOR parameter BSS\_COLOR to 0. (#11002)

**35.12.1.5 TXOP\_DURATION**

An EHT STA shall set the parameter TXOP\_DURATION in the TXVECTOR following the rules defined in 26.11.5 (TXOP\_DURATION) and with the following additions:

—The rules that apply to an HE MU PPDU shall also apply to an EHT MU PPDU

An EHT STA that is a TXOP responder that transmits an EHT MU PPDU addressed to a single STA shall set the TXVECTOR parameter TXOP\_DURATION to UNSPECIFIED, if the RXVECTOR parameter TXOP\_DURATION of the EHT PPDU that solicits a response from the STA, is UNSPECIFIED. (#11003)

**35.12.1.6 TRIGGER\_RESPONDING**

An EHT STA shall set the parameter TRIGGER\_RESPONDING in the TXVECTOR following the rules defined in 26.11.8 (TRIGGER\_RESPONDING) (#11004)

**35.12.2 SPATIAL\_REUSE**

The contents of the Spatial Reuse fields are carried in the TXVECTOR parameter SPATIAL\_REUSE for an EHT PPDU indicating spatial reuse information. The behavior of STAs upon reception of an EHT PPDU with different SPATIAL\_REUSE values is described in 26.10.2 (OBSS PD-based spatial reuse operation) and 35.11 (EHT Spatial reuse operation) (#11005). The different values that may be indicated in the SPATIAL\_ REUSE parameter of the TXVECTOR are listed in Table 27-22 (Spatial Reuse field encoding for an HE SU PPDU, HE ER SU PPDU, and HE MU PPDU) that is applied to EHT MU PPDU and Table 27-23 (Spatial Reuse field encoding for an HE TB PPDU) that is applied to EHT TB PPDU. The value PSR\_DISALLOW is used to prohibit PSR-based spatial reuse during the transmission of the corresponding PPDU. The value PSR\_AND\_NON\_SRG\_OBSS\_PD\_PROHIBITED (#12011, 12352) is used to prohibit both PSR-based spatial reuse and non-SRG OBSS PD-based spatial reuse during the transmission of the corresponding PPDU. The interpretation of other values are described in this subclause and in 35.11 (EHT Spatial reuse operation) and 26.10 (Spatial reuse operation). The conditions for a STA to set the SPATIAL\_REUSE parameter to its different values are described in this subclause.

…

A non-AP STA with dot11HEPSROptionImplemented set to true that transmits an EHT MU PPDU may set the TXVECTOR parameter SPATIAL\_REUSE, when permitted by the rules defined in 26.11.6 (SPATIAL\_REUSE) (#10948), to PSR\_AND\_NON\_SRG\_OBSS\_PD\_PROHIBITED if the HESIGA\_Spatial\_reuse\_value15\_allowed subfield of the SR Control field of the most recently received Spatial Reuse Parameter Set element from its associated AP is equal to 1. Otherwise, the non-AP STA shall set it to PSR\_DISALLOW.

**35.12.5 INACTIVE\_SUBCHANNELS**

An EHT STA shall not transmit on any 20 MHz subchannel that is punctured as indicated in the TXVECTOR parameter INACTIVE\_SUBCHANNELS (see Table 36-1 (TXVECTOR and RXVECTOR parameters)).

The indication of which subchannels are punctured in a non-HT duplicate PPDU or EHT PPDU is conveyed from the MAC to the PHY through the TXVECTOR parameter INACTIVE\_SUBCHANNELS (see Table 36-1 (TXVECTOR and RXVECTOR parameters)). The parameter INACTIVE\_SUBCHANNELS is present in the TXVECTOR of a non-HT duplicate PPDU or EHT PPDU when the conditions defined in 35.16.2 (Preamble puncturing operation)are satisfied. (#11869)

**35.2.2.1 MU-RTS Trigger frame transmission**

…

An MU-RTS Trigger frame may be carried in an EHT MU PPDU if the intended recipients are non-AP EHT STAs (#11097). If the MU-RTS Trigger frame is carried in an EHT MU PPDU, then the EHT AP shall set the TXVECTOR parameter EHT\_PPDU\_TYPE of the EHT MU PPDU to 1.