IEEE P802.11
Wireless LANs

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| LB266 CR for NSS in Nominal Packet Padding |
| Date: 2022.11.04 |
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Abstract

This submission contains the comment resolutions of the remaining 3 CIDs related to the Nominal Packet Padding in 22/0971 IEEE 802.11be LB266 comments. All the comments are related to the topic that the NSS should be smaller than or equal to 8, instead of 16.

CIDs 10811, 10819, 10820

Revision Notes

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| R0 | Initial revision |

## CID 10811

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 247.16 | 9.4.2.313.5 | Max Nss supported by EHT is 8. the bits assigned for the NSS\_PE should be changed with 3bits. | Change the bits for NSS\_PE with 3 in figure 9-1002ak. | REVISED.The group has agreed that 802.11be shall not define operation with more than 8 spatial streams and that the format of all subfields related to spatial streams shall remain unchanged. See https://mentor.ieee.org/802.11/dcn/22/11-22-1238-02-00be-minutes-for-tgbe-phy-ad-hoc-cc-july-to-sept-2022.docx.Thus, the bit size of this field remains unchanged. To make it clear, a sentence is added to show the values greater than or equal to 8 are reserved.***Instructions to the editor:*** **Please make the changes as shown under CID 10811 in 11-22/1797r1.** |

***Instructions to the editor: please make the following changes to Page 260, Line 21 in the subclause 9.4.2.313.5 EHT PPE Thresholds field in D2.2 as shown below:***

The NSS\_PE subfield contains an unsigned integer *NSS\_PE* indicating the scope of NSS*n* for the PPETmax NSS*n* RU*b* subfields and PPET8 NSS*n* RU*b* subfields in the PPE Thresholds Info field ($1\leq n\leq (NSS\\_PE+1)$). The NSS\_PE subfield values shall be less than 8, and the values greater than or equal to 8 are reserved.

## CID 10819

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 525.14 | 35.14.5 | Since EHT supports up to NSS =8 equal to HE, there is no need to describe the case that Nss is larger than 8. | Delete the following text "or more than eight spatial streams are transmitted on the RU or MRU" | ACCEPTED.Note to the Editor: The proposed changes have been reflected in Draft 2.2 (CID 12151).No further changes are needed. |

Discussion:

The nominal packet padding value for a broadcast RU or MRU contained in an EHT PPDU that a STA transmits shall be set to 20 µs if the RU or MRU is modulated with 4096-QAM, or the RU or MRU is greater than 2×996, or more than eight spatial streams are transmitted on the RU or MRU, and shall be set to 16 µs for all other modes.

Discussion ends.

## CID 10820

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 525.29 | 35.14.5 | Since EHT supports up to NSS =8 equal to HE, there is no need to describe the case that Nss is larger than 8. | Delete the following text "or MRU uses more than eight spatial streams" | REVISED.The proposed changes have been reflected in Draft 2.2 (CID 12151). To make it clear, “or” is added in the sentence.***Instructions to the editor:*** **Please make the changes as shown under CID 10820 in 11-22/1797r1.** |

***Instructions to the editor: please make the following changes to Page 565, Line 34 in the subclause 35.13.5 STA behavior related to nominal packet padding in D2.2 as shown below:***

If a STA A is transmitting an EHT MU PPDU to a STA B, where the STA A has not received a frame including the EHT Capabilities element from the STA B, then the STA A shall set the value of the TXVECTOR parameter NOMINAL\_PACKET\_PADDING to:

— 20 µs if the RU or MRU is modulated with 4096-QAM, or the RU or MRU size is greater than 2×996- tone.

— 16 µs otherwise.

Discussion:

**The text in D2.0**

If a STA A is transmitting an EHT MU PPDU to a STA B, where the STA A has not received a frame including the EHT Capabilities element from the STA B, then the STA A shall set the value of the TXVECTOR parameter NOMINAL\_PACKET\_PADDING to:

— 20 µs if the RU or MRU is modulated with 4096-QAM, the RU or MRU size is greater than 2×996- tone, or the RU or MRU uses more than eight spatial streams.

— 16 µs otherwise.

Discussion ends.