IEEE P802.11
Wireless LANs

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| CC36-CR-for-Clause-35.7.2 |
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Abstract

This submission proposes CR for CID 4426, 5802, 4427 (CC36).

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Add resolution to CID 5802

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. This introduction is 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 802.11 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** | **Commenter** | **Pg/Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| 4426 | Arik Klein | 289/30 | 35.5.2 | There is no frame designated as "EHT NDP frame", as defined in the sentence "The bandwidth of the EHT NDP Announcement frame and the EHT NDP frame shall be same." | Please replace "EHT NDP frame" with "EHT sounding NDP" | **Revised**Agree in principle with the comment.All instances of “EHT NDP frame”, “NDP frame” shall be replaced with EHT sounding NDP (which is a PPDU, not a frame) in subclause 35.7.2.**TGbe editor please implement changes as shown in doc 11-22/0683r1 tagged as 4426.** |
| 5802 | Lei Huang | 289/30 | 35.5.2 | EHT NDP frame should be changed to EHT sounding NDP | as in the comment | **Revised**Agree in principle with the comment.All instances of “EHT NDP frame”, “NDP frame” shall be replaced with EHT sounding NDP (which is a PPDU, not a frame) in subclause 35.7.2.**TGbe editor please implement changes as shown in doc 11-22/0683r1 tagged as 4426.** |
| 4427 | Arik Klein | 289/45 | 35.5.2 | The requirement for keeping the same puncturing pattern shall be applied for the TB Sounding sequences (SU,MU) as well | Add the same requirement for keeping the same puncturing pattern both in U-SIG and Partial BW Info subfield of the EHT NDP Announcement for the TB Sounding sequence (SU, MU) as well. | **Rejected**Please note that in 802.11be D1.5 subclause 35.7.2, Note 3 defines that “In the EHT TB sounding sequence, the punctured subchannel(s) indicated by the BW and Puncturing Channel Information fields in the U-SIG field of the NDP might include other punctured subchannel(s) in addition to those indicated in the Disabled Subchannel Bitmap field of the most recent EHT Operation element, following the rules defined in 35.16.2 (Preamble puncturing operation)”.Therefore, only in non-TB sounding it is required that “the punctured subchannel(s) indicated by the BW and Puncturing Channel Information fields in the U-SIG field of the NDP shall not include other punctured subchannel(s) in addition to those indicated in the Disabled Subchannel Bitmap field of the most recent EHT Operation element for non-TB sounding.” |

*TGbe editor: Please note baseline is 11be D1.5 and REVme D1.0*

**35.7.2 EHT sounding protocol**

## *Modify the seventh paragraph as follows:*

The bandwidth (partial or full) of the feedback solicited by an EHT beamformer from an EHT beamformee depends on the Partial BW Info subfield in the STA Info field identifying the EHT beamformee in the EHT NDP Announcement frame(#7919), the bandwidth of the EHT NDP Announcement frame, and the operating bandwidth of the EHT beamformee. (#4426)The bandwidth of the EHT NDP Announcement frame and the EHT sounding NDP shall be the same.

***Modify the eighth paragraph as follows:***

Full bandwidth SU, MU or CQI feedback refers to the feedback mode where the feedback RU/MRU size indicated in the Partial BW Info subfield of the EHT NDP Announcement frame spans all the available bandwidth within an EHT beamformee’s operating bandwidth. Partial bandwidth SU, MU or CQI feedback refers to the feedback mode where the feedback RU/MRU size indicated in the Partial BW Info subfield of the EHT NDP Announcement frame spans part of the available bandwidth within an EHT beamformee’s operating bandwidth.

* If the EHT beamformee’s operating bandwidth is larger than or equal to the bandwidth of (#4426) the EHT sounding NDP, the available bandwidth is the entire PPDU bandwidth of the (#4426) EHT sounding NDP when puncture is not applied and is the entire occupied PPDU bandwidth of the (#4426) EHT sounding NDP when puncture is applied.
* If the EHT beamformee’s operating bandwidth is smaller than the bandwidth of (#4426) the EHT sounding NDP, the available bandwidth is the beamformee’s entire operating bandwidth when preamble puncturing is not applied and is the entire occupied bandwidth within the beamformee’s operating bandwidth when preamble puncturing is applied.

NOTE 2—For example, if a 160 MHz (#4426) EHT sounding NDP has a 20 MHz puncturing

* + The available bandwidth is 140 MHz when the beamformee’s operating bandwidth is 160 MHz or 320 MHz.
	+ The available bandwidth is 80 MHz when the beamformee’s operating bandwidth is 80 MHz and 20 MHz puncturing is not within the beamformee’s operating bandwidth.
	+ The available bandwidth is 60 MHz when the beamformee’s operating bandwidth is 80 MHz and 20 MHz puncturing is within the beamformee’s operating bandwidth.

***Modify the tenth paragraph as follows:***

An EHT NDP Announcement frame shall not request feedback on a 242-tone RU that is signaled as punctured in the U-SIG field(#5657) of the (#4426) EHT Sounding NDP that follows the EHT NDP Announcement frame.

***Modify the twelfth paragraph as follows:***

An SU beamformer may solicit full bandwidth SU feedback from an SU beamformee in an EHT non-TB sounding sequence. An SU beamformer shall not solicit partial bandwidth SU feedback from an SU beamformee in an EHT non-TB sounding sequence. (#7793)In an EHT non-TB sounding sequence case, the occupied subchannel(s) indicated by the BW and Puncturing Channel Information fields in the U-SIG field of the (#4426) EHT sounding NDP shall be the same as the requested subchannel(s) indicated in the Partial BW Info subfield of the immediately preceding EHT NDP Announcement frame. Furthermore, the punctured subchannel(s) indicated by the BW and Puncturing Channel Information fields in the U-SIG field of the (#4426) EHT sounding NDP shall not include other punctured subchannel(s) in addition to those indicated in the Disabled Subchannel Bitmap field of the most recent EHT Operation element for non-TB sounding.

(#7793)NOTE 3—In the EHT TB sounding sequence, the punctured subchannel(s) indicated by the BW and Puncturing Channel Information fields in the U-SIG field of the (#4426) EHT sounding NDP might include other punctured subchannel(s) in addition to those indicated in the Disabled Subchannel Bitmap field of the most recent EHT Operation element, following the rules defined in [35.16.2 (Preamble puncturing operation(#1086)(#1667)(#2148)(#2147))](#bookmark100).

Straw Poll:

Do you support to incorporate the proposed draft text in this document 11-22/0683r1 to the next revision of TGbe Draft 1.5, for addressing the following CIDs: 4426, 4427, 5802?

Result: Yes/No/Abstain