IEEE P802.11  
Wireless LANs

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| LB 271 CR for 35.7.3 Part II | | | | |
| Date: 2023-04-05 | | | | |
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Abstract

##### This submission present proposed resolutions for the following 8 CIDs:

##### 17069, 17070, 15766, 15767, 17073, 15579, 15580, 17074

##### The proposed changes are based on 802.11be/D3.2.

##### Revision history:

##### r0 – initial version

r1 – editorial change, add Option 3 in the meeting and show the SP result

## CID 17069, 17070, 15766, 15767, 17073, 15579

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| **CID** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 17069 | 35.7.3 | 614.07 | "The maximum number of supported receive spatial streams according to the Rx NSS indicated in the most recently received Operating Mode Notification frame, Operating Mode Notification element with the Rx NSS Type subfield equal to 0, or OM Control subfield if EHT OM Control subfield is not present in the same A-Control field, or EHT OM Control subfield together with the OM Control subfield sent by the corresponding EHT beamformee (see 35.9 (Operating mode indication))." -- gets confusing | Delete first "or" | Accepted |
| 17070 | 35.7.3 | 614.22 | "The EHT beamformer shall set the TXVECTOR parameter CH\_BANDWIDTH or CH\_BANDWIDTH\_IN\_NON\_HT, the Partial BW Info subfield" -- two items so use "or" not comma | As it says in the comment | Rejected.  The TXVECTOR parameter (CH\_BANDWIDTH or CH\_BANDWIDTH\_IN\_NOT\_HT) and the Partial BW Info subfield of the EHT NDP Announcement frame are in different places. According to the sentence, both two parameters shall be set depending on the multiple parameters listed on the sentence. Therefore, using “or” is not accurate. |
| 15766 | 35.7.3 | 614.62 | To make it clear, add the reference as table 9-45 in 802.11Revme D2.1 | As in comment | Accepted |
| 15767 | 35.7.3 | 615.01 | To make it clear, add the reference as table 9-45 in 802.11Revme D2.1 | As in comment | Rejected.  Table 9-45 does not define the Nc setup value for CQI feedback. It is stated in 9.3.1.19 (P660L13 REVme D3.0) that “In an individually addressed HE NDP Announcement frame with a single STA Info field, the STA  Info field having a value in the AID11 field other than 2047, the Nc subfield is reserved.” Therefore, there is no need to add the reference, Table 9-45. |
| 17073 | 35.7.3 | 615.30 | Haven't we earlier already specified whether the BFer or BFee gets to pick parameters? | Remove duplication | Rejected.  It is defined in P615L1 (802.11be D3.0) that “In an EHT non-TB sounding sequence soliciting CQI feedback, the Nc Index subfield in an EHT NDP Announcement frame is reserved.”, which mentions the Nc Index subfield is reserved in NDP Announcement frame from the beamformer standpoint of view. The sentence mentioned by the commenter is to normalize the behavior of the beamformee side. It is not duplication. |
| 15579 | 35.7.3 | 615.48 | This paragraph is kind of duplicate with P615L36. | Merge the two and remove the redundant part. | Rejected.  802.11be D3.0 P615L36 shows the case where the EHT NDP Announcement frame solicit CQI feedback but P615L48 shows the case where the EHT NDP Announcement frame solicit SU or MU feedback. Therefore, these two parts are not redundant. |

***Tgbe editor: please make the following change in subclause 35.7.3***

***P633L30***

- The maximum number of supported receive spatial streams according to the Rx NSS indicated in the most recently received Operating Mode Notification frame, Operating Mode Notification element with the Rx NSS Type subfield equal to 0, (#17069) OM Control subfield if EHT OM Control subfield is not present in the same A-Control field, or EHT OM Control subfield together with the OM Control subfield sent by the corresponding EHT beamformee (see 35.9 (Operating mode indication)).

***P62062***

In an EHT non-TB sounding sequence soliciting SU feedback, B26 (in the Feedback Type And Ng subfield), the Codebook Size subfield, and the Nc Index subfield in the STA Info field of the EHT NDP Announcement frame are reserved (#15766) (see Table 9-45 (Feedback Type And Ng subfield and Codebook Size subfield encoding for HE non-TB sounding)).

## CID 15580, 17074

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| **CID** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 15580 | 35.7.3 | 616.10 | If neither the EHT compressed beamforming report information nor the EHT MU exclusive beamforming report information is included, what shall be included in this case? | Add text describing what shall be included or what shall be done in such a case. | Revised. Agree with the comment in principle.  Per group’s discussion, a paragraph from 26.5.2.2.2 (P3862L64) is added to the place to further clarify the action which shall be taken by the AP, the beamformee.  TGbe editor: make change in THIS DOCUMENT with tag 15580 |
| 17074 | 35.7.3 | 616.10 | "An EHT beamformee that transmits EHT compressed beamforming feedback shall include neither the EHT compressed beamforming report information nor the EHT MU exclusive beamforming report information if the transmission duration of the PPDU carrying the EHT compressed beamforming report information and any EHT MU exclusive beamforming report information would exceed the maximum PPDU duration (see Table 9-34 (Maximum data unit sizes (in octets) and durations (in microseconds)))." -- in the baseline the things that are actually frame names are capitalised | Follow baseline | Rejected.  The paragraph is removed based on CID 15580 |

**Discussions:**

It has been discussed in the group and 26.5.2.2.2 (REVme D3.0 P3862L54) states that

**An AP that sends a BFRP Trigger frame shall allocate sufficient resources for the HE TB PPDU response from each HE beamformee to include all the solicited feedback, including feedback that is segmented and including an HT Control field in each frame.**

Per discussions within some TGbe members, the above requirement for a BFRP Trigger frame used in HE can be applied to EHT resource allocation by a BFRP Trigger frame such that the scenario given in P622L10 (802.11be D3.1), i.e., the transmission duration of the PPDU carrying the EHT Compressed Beamforming Report information and any EHT MU Exclusive beamforming Report information would exceed the maximum PPDU Duration, may not exist anymore. Therefore, there are two potential options to resolve CID 15580 and 17074.

**Option 1:** Keep the original paragraph and add the same paragraph from 26.5.2.2.2 (REVme D3.0 P3862L54)

***P635L134***

An EHT beamformee that transmits EHT compressed beamforming feedback shall include neither the EHT ompressed beamforming report information nor the EHT MU exclusive beamforming report information if the transmission duration of the PPDU carrying the EHT compressed beamforming report information and any EHT MU exclusive beamforming report information would exceed the maximum PPDU duration (see Table 9-34 (Maximum data unit sizes (in octets) and durations (in microseconds))).

(#15580) An AP that sends a BFRP Trigger frame shall allocate sufficient resources for the EHT TB PPDU response for each beamformee to include all the solicited feedback, including feedback that is segmented and including an HT Control field in each frame.

**Option 2:** Remove the original paragraph and add the paragraph from 26.5.2.2.2 (REVme D3.0 P3862L54) with specifying the constraint, i.e., include all the solicited feedback without exceeding the maximum PPDU Duration (see Table 9-34 (Maximum data unit sizes (in octets) and durations (in microseconds)))

***P635L34***

(#15580) An AP that sends a BFRP Trigger frame shall allocate sufficient resources for the EHT TB PPDU response for each beamformee to include all the solicited feedback without exceeding the maximum PPDU duration (see Table 9-34 (Maximum data unit sizes (in octets) and durations (in microseconds))), including feedback that is segmented and including an HT Control field in each frame.

**Option 3:** Remove the original paragraph and add the paragraph from 26.5.2.2.2 (REVme D3.0 P3862L54).

***P635L34***

(#15580) An AP that sends a BFRP Trigger frame shall allocate sufficient resources for the EHT TB PPDU response for each beamformee to include all the solicited feedback, including feedback that is segmented and including an HT Control field in each frame.

SP: Which option do you prefer as the resolutions of CID 15580 and CID 17074

1. Option 1
2. Option 2
3. Option 3
4. Abs

Option 3 is adopted by unanimous consensus.

**End of discussion**