IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LB 271 CR for 35.7.1 | | | | |
| Date: 2023-04-05 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Zinan Lin | InterDigital |  |  | [zinan.lin@interdigital.com](mailto:zinan.lin@interdigital.com) |
| Rui Yang |  |  |  |
| Mahmoud Kamel |  |  |  |  |
|  |  |  |  |  |

Abstract

##### This submission present proposed resolutions for the following 5 CIDs:

##### 17041, 17271, 17980, 17042, 17272

##### The proposed changes are based on 802.11be/D3.1.

##### Revision history:

##### r0 – initial version

r1 – editorial changes

r2 – editorial changes

## CID 17041, 17271, 17980

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 17041 | 35.7.1 | 598.08 | "The EHT sounding protocol provides explicit feedback mechanisms, defined as EHT non-trigger-based (non-TB) sounding (see 35.7.3 (Rules for EHT sounding protocol sequences)) and EHT trigger-based (TB) sounding, where the EHT beamformee measures the channel using a training signal (i.e., an EHT sounding NDP) transmitted by the EHT beamformer and sends back a transformed estimate of the channel state (see 35.7.3 (Rules for EHT sounding protocol sequences))." -- it's weird to refer to the same subclause twice | Delete the first "(see 35.7.3)" | Accepted |
| 17271 | 35.7.1 | 598.10 | 35.7.3 defines the rules for EHT TB sounding and EHT non-TB sounding. No need to add reference of 35.7.3 here. | delete "(see 35.7.3 (Rules for EHT sounding protocol sequences))" | Accepted |
| 17980 | 35.7.1 | 598.11 | "(...) and EHT trigger-based (TB) sounding, where the EHT beamformee measures the channel using a training signal (...)". As currently written, the sentence "where the EHT beamformee measures the channel using a training signal (...)" could be seen as applying only to the EHT trigger-based sounding. | Rewrite. E.g.: "(...) and EHT trigger-based (TB) sounding. In bot sounding protocols, the EHT beamformee measures the channel using a training signal (...)". | Revised.  It follows the suggestions which divides one sentence into two. Protocol is used in the beginning of the sentence. To avoid confusion and be consistent with the first sentence, it is changed to “in both sounding mechanisms”  TGbe editor: please incorporate changes shown in 11-22/0558r2 under the tag 17980 |

***TGbe editor: please make the following change in subclause 35.7.1***

***P604L31***

The EHT sounding protocol provides explicit feedback mechanisms, defined as EHT non-trigger-based (non-TB) sounding (#17041, #17271) and EHT trigger-based (TB) sounding. (#17980) In both sounding mechanisms, the EHT beamformee measures the channel using a training signal (i.e., an EHT sounding NDP) transmitted by the EHT beamformer and sends back a transformed estimate of the channel state (see 35.7.3 (Rules for EHT sounding protocol sequences)). The EHT beamformer uses this estimate to derive the steering matrix.

## CID 17042, 17272

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 17042 | 35.7.1 | 598.39 | "the EHT beamformer intends to solicit from its EHT beamformees" -- there might be only one BFee | Change to "the EHT beamformer intends to solicit from its EHT beamformee(s)" | Accepted |
| 17272 | 35.7.1 | 598.28 | EHT TB sounding might also be used to obtain SU or CQI feedback. | Suggest to "or": EHT TB sounding might also be used to obtain SU feedback and/or CQI feedback | Accepted |

***Tgbe editor: please make the following change in subclause 35.7. 1***

***P604L50***

NOTE—Use of EHT TB sounding does not necessarily imply MU feedback. EHT TB sounding might also be used to obtain SU feedback (#17272) and/or CQI feedback.

***P604L60***

An EHT beamformer shall support a maximum MPDU length for the EHT compressed beamforming/CQI report that is the minimum of 11454 octets and the maximum length of the EHT compressed‌ﾠbeamforming/CQI report that the EHT beamformer intends to solicit from its EHT (#17042) beamformee(s).