IEEE P802.11
Wireless LANs

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| LB 275 CR for 35.7 Part I |
| Date: 2023-04-05 |
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Abstract

##### This submission present proposed resolutions for the following 4 CIDs:

##### 19317, 19351, 19530, 19729

##### The proposed changes are based on 802.11be/D4.1.

##### Revision history:

##### r0 – initial version

## CID 19317, 19351, 19530, 19729

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| **CID** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 19317 | 35.7.3 | 606.15 | align 2nd SIFS on the center and above double-arrow like 1st SIFS for good visibility. | As in comment. | Accepted |
| 19351 | 35.7.2 | 593.37 | In the 802.11 arch, the PHY defines its capabilities via MIB variables, and the MAC learns of them from the MIB and advertises them accordingly, In 11be, we made this explicit via section 35.11.3. However 35.7.2 hasn't caught up, and some of the "shalls" in this clause duplicate PHY shall's. Related, there are "mays" in the MAC clause that properly below in the PHY clause too. | Specifically, make it clear that: a) Partial Bandwidth DL MU-MIMO is really controlled by dot11EHTPartialBWDLMUMIMOImplemented; b) Beamformee SS (â¤ 80 MHz), Beamformee SS (= 160 MHz),Beamformee SS (= 320 MHz) are controlled by dot11EHTBeamformeeSSLessThanOrEqualTo80, dot11EHTBeamformeeSSLessThanOrEqualTo160, dot11EHTBeamformeeSSLessThanOrEqualTo320; c) Beamformee SS (â¤ 80 MHz), Beamformee SS (= 160 MHz), and Beamformee SS (= 320 MHz) are controlled by dot11EHTBeamformeeSSLessThanOrEqualTo80, dot11EHTBeamformeeSSEqualTo160, dot11EHTBeamformeeSSEqualTo320; d) MU beamformer (BW â¤ 80 MHz), MU beamformer (BW = 160 MHz) or MU beamformer (BW = 320 MHz) are controlled by dot11EHTMUBeamformerLessThanOrEqualTo80Implemented, dot11EHTMUBeamformerEqualTo160Implemented, dot11EHTMUBeamformerEqualTo320Implemented; e) Supported EHT-MCS And NSS Set is controlled by dot11EHTSupportedEhtMcsAndNssSetImplemented and this in turn controls dot11EHTMUBeamformerLessThanOrEqualTo80Implemented, dot11EHTMUBeamformerEqualTo160Implemented, dot11EHTMUBeamformerEqualTo320Implemented and thence MU beamformer (BW â¤ 80 MHz), MU beamformer (BW = 160 MHz) or MU beamformer(BW = 320 MHz). More broadly, review the shall's and may's on fields expressed in 35.7.2 then, given the field assignments defined in 35.11.3, determine what constraints apply to the underlying MIB variables, and accordingly express such constraints in the PHY clause where they really belong (often in subsection of 36.3.3). | RejectedThe similar issue exists in the latest 802.11 REVme draft (D4.0). In addition, how to address the issues is not clear in the proposed change, e.g., Partial Bandwidth DL MU-MIMO is not the concept mentioned in 35.7.2 and it is not shown how to address this part.  |
| 19530 | 35.7.4 | 610.24 | "last feedback segment that may be smaller". Use of which is preferred | Change "last feedback segment that may be smaller" to "last feedback segment, which may be smaller" | Accepted |
| 19729 | 35.7.4 | 610.17 | If it is MU feedback, how MU feedback is segmented? In each segment, CSI feedback needs to include EHT Compressed Beamforming Report and EHT MU Exclusive Beamforming Report? Or the first few segments may include the EHT Compressed Beamforming Report only and the EHT MU Exclusive Beamforming Report is included in the segments after all information related to the EHT Compressed Beamforming Report is completed? | Please clarify how the segmentation is performed for MU feedback. | RejectedThe similar issue exists in the latest 802.11 REVme draft (D4.0). After discussion in a group, it was suggested that the issue should be addressed in 802.11REVme first. If it is resolved with a resolution applicable to this CID, the corresponding reference could then to be added in the future 802.11be ballot. |

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

#19317: Align 2nd SIFS on the center and above the double-arrow in Figure 35-9 (P617L20)

EHT beamformer EHT NDP EHT sounding

Announcement SIFS NDP SIFS

EHT beamformee

EHT Compressed

Beamforming/CQI

***TGbe Editor: Please modify Clause 35.7.4 Rules for generating segmented feedback***

**P621L18**

If the EHT compressed beamforming/CQI report solicited by the EHT beamformer would result in an EHT Compressed Beamforming/CQI frame that exceeds 11454 octets in length, then the EHT compressed beamforming/CQI report shall be split into up to eight feedback segments. Each feedback segment shall be included in a separate EHT Compressed Beamforming/CQI frame and shall contain successive portions of the EHT compressed beamforming/CQI report. Each feedback segment shall be of equal length except the last feedback segment (#19530), which may be smaller. Each EHT Compressed Beamforming/CQI frame that includes a feedback segment that is not the last feedback segment shall have a length of 11454 octets.