IEEE P802.11  
Wireless LANs

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| LB266 CR Document Resolving Comments related to Annex-B | | | | |
| Date: 2022-07-19 | | | | |
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Abstract

This submission proposes resolutions of comments received from TGbe Letter Ballot 266 (TGbe Draft 2.0).

* CIDs: 11839, 11840, 11841, 11846 and 13532 (5 CIDs)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revised the document based on offline discussion.
* Rev 2: Added definitions of IndepSTA and STAofAP for clarification.
* Rev 3: Added optional support for AP for compressed beamforming.

# Introduction

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. The introduction and the explanation of the proposed changes are 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 802.11be 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** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 11839 | Alfred Asterjadhi | B | 805 | 61 | Duplicate O.11s in this table. BW dependence and MLD dependence are independent. Please use O.12 or smth else for MLD classification. | As in comment. | ***REVISED.***  Agree with the commenter that other identification that O.11 should be used for MLD classification.    TGbe editor to make the changes shown in IEEE 802.11-22/1165r3 under all headings that include CID 11839. |
| 11840 | Alfred Asterjadhi | B | 806 | 22 | CBF is under EHT Action frame. And I think it should be M? PLease double check the classification, and call CBF out here. | As in comment. | ***REVISED.***  Agree with the commenter in principle that The beamformee shall transmit the CBF. Added a new category to support the feature.  TGbe editor to make the changes shown in IEEE 802.11-22/1165r3 under all headings that include CID 11840. |
| 11841 | Alfred Asterjadhi | B | 817 | 55 | What is the difference between STAofAP and IndepSTA? Please use same terminology throughout. | As in comment. | ***REJECTED.***  IndepSTA is anything that is not an AP, which includes a “non-AP STA” operating within an infrastructure BSS, and also an IBSS STA, a PBSS STA, and the non-AP side of an S1G relay.  Whereas the CFSTAofAP is only a “non-AP STA” operating within an infrastructure BSS.  802.11ax uses same terminology ofr cases described here for IndepSTA therefore no changes are required. |
| 11846 | Alfred Asterjadhi | B | 817 | 59 | There are two entries for beamforming under MAC features (MU) and several of them under PHY features. Suggest placing all of them under the same umbrella. | As in comment. | ***REVISED.***  Agree with the commenter in principle. In the base line all SU and MU beamforming capabilities are specified under MAC.  TGbe editor to make the changes shown in IEEE 802.11-22/1165r3 under all headings that include CID11846 |
| 13532 | Mark Hamilton | B.4.3 | 805 | 33 | The PICS' IUT configuration asks if the implementation is an AP, or an independent station (2 of the choices for O.1). It seems that an AP MLD or non-AP MLD are not either of those. | Add a modification to add "or AP MLD" to CFAP and "or independent MLD" to CFIndepSTA. (Spell out acronyms, as required.) | ***REJECTED.***  AP MLD and independent MLD are described as CFEHTMLDAP and CFEHTMLDnonAP, each affiliated AP or STA of which is configured as CFAP or CFSTAofAP respectively. |

The baseline for this document is 11be D2.0.

**Discussion:** None.

**SP:** Do you agree to incorporate the changes provided in IEEE 802.11-22/1165r3 for the below listed CIDs to the next revision of 802.11be draft?

11839, 11840, 11841, 11846 and 13532 (5 CIDs)

**B.4.3 IUT Configuration**

***TGbe editor: Please change the entries in the table as indicated here.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **IUT Configuration** | **References** | **Status** | **Support** |
| CFEHTMLDAP | EHT AP MLD operation | Clause 35 | CFEHTMLD: O.12 (#11839) | Yes No |
| CFEHTMLDnonAP | EHT non-AP MLD operation | Clause 35 | CFEHTMLD: O.12 (#11839) | Yes No |

**B.4.4 MAC protocol**

**B.4.4.2 MAC frames**

***TGbe editor: Please change the entries in the table as indicated here.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **MAC frame** | **References** | **Status** | **Support** |
| FT74.1 | EHT Compressed Beamforming /CQI frame | 9.6.34.2 | CFAP: O  CFSTAofAP: M (#11840) | Yes No N/A |

**B.4.40.2 EHT MAC features**

***TGbe editor: Please change the entries in the table as indicated here. Please remove entries EHTP10.1 to EHTP10.6 from the EHT PHY features table.***

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| **Item** | **Protocol capability** | **References** | **Status** | **Support** |
| **EHTM8 (#11846)** | **Transmit Beamforming** |  |  |  |
| EHTM8.1 (#11846) | SU beamformer capable if the sup-ported maximum number of transmit spatial streams is less than 4 | 36.1.1 | CFEHT: O | Yes No N/A |
| EHTM8.2 (#11846) | SU beamformer capable if the sup-ported maximum number of transmit spatial streams is greater than or equal to 4 | 36.1.1 | CFEHT: M | Yes No N/A |
| EHTM8.3 (#11846) | SU beamformee capable | 36.1.1 | CFEHT AND CFAP: O  CFEHT AND CFSTAofAP: M | Yes No N/A |
| EHTM8.4 (#11846) | MU beamformer capable if the sup-ported maximum number of transmit spatial streams is less than 4 | 36.1.1 | CFAP AND EHTP10.1: O | Yes No N/A |
| EHTM8.5 (#11846) | MU beamformer capable if the sup-ported maximum number of transmit spatial streams is greater than or equal to 4 | 36.1.1 | CFAP AND EHTP10.2: M | Yes No N/A |
| EHTM8.6 (#11846) | MU beamformee capable | 36.1.1 | CFEHT AND CFSTAofAP: M | Yes No N/A |
| EHTM8.7 (#11846) | MU beamformer capable if the MU Beamformer (BW ≤ 80 MHz), MU Beamformer (BW = 160 MHz), and MU Beamformer (BW = 320 MHz), any is at least set to 1 | 35.7.2 | CFEHT AND CFAP: M | Yes No N/A |