IEEE P802.11
Wireless LANs

|  |
| --- |
| Resolutions for OST CIDs for LB281 |
| Date: 2024-01-14 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Cheng Chen | Intel |  |  | cheng.chen@intel.com |

Abstract

This submission proposes resolutions to the following comments submitted in LB281 under OST topic. The CIDs are referring to D3.0. The text used as reference is D3.0.

CIDs: 4197 4250 ~~4298~~ 4299

Revision history:

R0: Original version

R1: Removed CID 4298 from the document. Updated the discussion of CID 4250. Corrected a few typos.

R2: Corrected a typo in the discussion for CID 4298.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 4197 | Rui Du | 72.14 | It should be 'Sensing Subelements' in stead of 'Sensing subelements', i.e. Subelement should be started with a uppecase S. | As in comment. | Accepted. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 4250 | Dong Wei | 136.56 | For EHT, N\_{SS} is used instead of N\_{STS}. | Add "N\_{SS}=N{TX}" and "N\_{SS}<N{TX}" at the appropriate places | Rejected. See rejection reason below in <DCN0111r2>. |

**Discussion:** The contributor reviews 11be spec draft D5.0 and can only find instances of NUM\_STS or N\_SS. For example:

1. 35.5.2.3.2 The NUM\_STS parameter is set to the number of spatial streams indicated by the Number Of Spatial Streams subfield of the SS Allocation field of the EHT variant User Info field
2. 35.7.2 An EHT beamformer shall not transmit a 20 MHz, 40 MHz, or 80 MHz EHT sounding NDP with a TXVECTOR parameter NUM\_STS that is greater than the maximum number of spatial streams indicated in the Beamformee SS (≤ 80 MHz) subfield of any STA identified by a STA Info field in the preceding EHT NDP Announcement frame.



So, the contributor believes both are fine.

After discussions in 11bf, even though STS and SS are essentially the same for 11be and 11bf because STBC is not used, members prefer to keep STS here.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **~~CID~~** | **~~Commenter~~** | **~~Page~~** | **~~Comment~~** | **~~Proposed change~~** | **~~Proposed resolution~~** |
| ~~4298~~ | ~~Liuming Lu~~ | ~~20.20~~ | ~~The descrption is confusing. For performing sensing a sensing receiver and sensing responder are needed.~~ | ~~Suggest to change "The sensing procedure allows an HE STA or EHT STA to perform sensing" to "The sensing procedure allows HE STAs or EHT STAs to perform sensing" or "The sensing procedure allows an HE STA or EHT STA to initiate sensing"~~ | ~~Revised. See proposed resolution in DCN0111r0.~~ |

**~~Discussion:~~** ~~An HE STA or EHT STA performs sensing as either a sensing initiator or a sensing responder. So, we can clarify this point in the text.~~

***~~TGbf editor, revise the sentence at P20L20 as follows:~~***

~~The sensing procedure allows an HE STA or EHT STA to perform sensing as either a sensing initiator or a sensing responder.~~

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 4299 | Liuming Lu | 20.20 | The descrption is confusing. For example the SBP procedure cannot enable a non-AP EHT STA to request an HE AP to perform sensing on its behalf as some features may be not supported . | Suggest to change "The SBP procedure enables a non-AP HE STA or non-AP EHT STA to request an HE AP or EHT AP to perform sensing on its behalf." to "The SBP procedure enables anon-AP HE STA or non-AP EHT STA to request an HE AP or EHT AP respectively to perform sensing on its behalf." | Rejected. See rejection reason below in <DCN0111r2>. |

**Discussion:** The contributor does not agree with the commenter’s statement saying “the SBP procedure cannot enable a non-AP EHT STA to request an HE AP to perform sensing on its behalf as some features may be not supported”. While it is true that an HE AP does not support EHT features, it does not necessarily mean a non-AP EHT STA cannot request an HE AP to perform the SBP procedure. A non-AP EHT STA is also a non-AP HE STA in the first place. As long as the non-AP EHT STA does not request to use any EHT features, like 320 MHz bandwidth, it is totally feasible for the HE AP to accept the SBP request using HE features. On the other hand, if the non-AP EHT STA requests to use any EHT feature in the SBP request, the HE AP can always simply reject it.

## SP

Do you support the proposed resolutions to the CIDs and incorporate the text changes into the latest TGbf draft?

Y/N/A