### IEEE P802.11Wireless LANs

|  |
| --- |
| 11ax Comment Resolution Misc.  |
| Date: 2019-09-16 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Zhou Lan | Broadcom | 250 Innovation Dr, San Jose, CA 95134 | (+1) 408 543 3450 | zhou.lan@broadcom.com |
| Chunyu Hu | Broadcom | 250 Innovation Dr, San Jose, CA 95134 |  | Chunyu.hu@broadcom.com |
| Matthew Fischer | Broadcom | 250 Innovation Dr, San Jose, CA 95134 |  | matthew.fischer@broadcom.com |

Abstract

This submission proposes resolutions for comments of TGax Draft D4.3 with the following CID 20187, 20236, 21598, 21611, 21616

Revisions:

* Rev 0: Initial version of the document.

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 TGax D3.2 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax D3.0 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 20187 | 337.24 | 26.5.3.4 | In the scenario described in "If the associated non-AP STA has no frames pending or is unable to include pending frames in response to aBasic Trigger frame because the allocated resource is insufficient, then the associated non-AP STA shallinclude in the A-MPDU at least one QoS Null frame.", AP is lack of information to figure out minimum resource. AP can guess or allocate maximum resource but it incurrs overhead/delay to do it heuristically. | Introduce an explicit signaling mechanism to tell AP minimum resource, e.g. add an A-control field to specify current minimum buffer size. The non-AP STA can respond with this info in the QoS-null frame. AP would adjust resource allocation in next trigger frame immediately. | -RejectedAgree with the commenter on the scenario. The proposed resolution is on the right direction however requires more details. Reject this comment at this moment to catch up with the TG timeline.  |
| 20236 | 386.39 | 26.8.7.2 | Allow SST STAs To Receive Beacons & Broadcast/mcast frames while stay in the secondary channel | Add optional rules:1. AP sends beacons and broadcast/mcast frames using non-HT-dup PPDU with non-HT-dup BW covers the secondary channels where SST STAs are scheduled. | -RejectedSending beacons and broadcast frames using non-HT dup PPDU reduces the BSS coverage. Assuming 160 MHz operation, the range is reduced by 9dB.  |
| 21598 | 337.24 | 26.5.3.4 | In the scenario described in "If the associated non-AP STA has no frames pending or is unable to include pending frames in response to aBasic Trigger frame because the allocated resource is insufficient, then the associated non-AP STA shallinclude in the A-MPDU at least one QoS Null frame.", AP is lack of information to figure out minimum resource. AP can guess or allocate maximum resource but it incurrs overhead/delay to do it heuristically. | Introduce an explicit signaling mechanism to tell AP minimum resource, e.g. add an A-control field to specify current minimum buffer size. The non-AP STA can respond with this info in the QoS-null frame. AP would adjust resource allocation in next trigger frame immediately. | -RejectedAgree with the commenter on the scenario. The proposed resolution is on the right direction however requires more details. Reject this comment at this moment to catch up with the TG timeline. |
| 21611 | 75.53 | 9.2.4.6a | When AP transmits basic trigger frame to non-AP STA, if the RU size (considering HE TB PPDU length )is not sufficient for the STA to transmit the head of fifo frame, then the frame will be blocked and there is no way for the STA to inform the AP this siuation is happening. The current BSR only inform the Queue size. i.e. the accumulated frame size. Need a mechanism to address the above mentioned issue. | As stated in the comment. | -RejectedAgree with the commenter on the scenario. The proposed resolution is on the right direction however requires more details. Reject this comment at this moment to catch up with the TG timeline. |
| 21616 | 525.01 | 27.3.10.7 | Draft 4.0 already supports AP schedule two or more 80MHz STA to receive 160 MHz PPDU during a TWT session. Adding PHY details for SIG A and SIG B design. | As stated in the comment. | -RejectedWhen AP transmits 160 MHz PPDU, if a 80MHz non-AP STA claims it is capable of receiving the 160MHz PPDU, it is up to the non-AP STA’s implementation to decode the PPDU, so no SIG A or SIG B changes are required.  |

**Discussion:** *None.*

***TGax editor: no changes are required for the spec text .***

**End of proposed changes.**