IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comment Resolution on P2P | | | | |
| Date: July 1, 2024 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | Email |
| Rubayet Shafin | Samsung Electronics | 6105 Tennyson Pkwy, Plano, TX, 75024 |  | [r.shafin@samsung.com](mailto:r.shafin@samsung.com) |
| Boon Loong Ng |  |  |
| Peshal Nayak |  |  |
| Vishnu Ratnam |  |  |
| Yue Qi |  |  |
| Bilal Sadiq |  |  |

Abstract

This submission proposes resolutions for the following 4 comments received for TGbe Recirculation SA Ballot:

4 CID: 23026, 23027, 23042, 23085

SP: Do you agree to the resolutions provided in doc 11-24/1061r1 for the following 4 CIDs for inclusion in the latest 11be draft?

23026, 23027, 23042, 23085

Revisions:

* Rev 0: Initial version.
* Rev 1: Revised the resolution for CID 23085 based on further discussions with the commenter.

***TGbe editor: Please note Baseline is 11be D6.0***

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. This introduction is not part of the adopted material.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 23026 | 607.49 | (Resubmission:CID #22116) Currently there is no mechanism in the spec that enables to request for TXOP from an AP by a non-AP STA. However, such capability would be essential for efficient operation, especially for P2P communication. | Please provide mechanisms and frameworks for requesting TXOP from the AP or AP MLD by an STA or non-AP MLD and describe AP MLD's behavior upon receiving such request. | **Rejected**  The issue regarding the lack of a mechanism to solicit TXOP from the AP for P2P communication was discussed in the past but no consensus could be reached. See doc 11-23/1780r3 for prior discussion on this. |
| 23027 | 608.06 | (Resubmission: CID #22114) There needs to be a mechanism in the spec that would enable a non-AP STA to indicate its associated AP its channel resource requirement for peer-to-peer communication. | Please add the missing procedure to inform the AP about the non-AP STA's P2P requirement. | **Rejected**  The issue regarding the lack of a mechanism to solicit TXOP from the AP for P2P communication was discussed in the past but no consensus could be reached. See doc 11-23/1780r3 for prior discussion on this. |
| 23042 | 223.21 | Mention that the TDLS Broadcast TWT Support field is reserved for an AP (see bits 29, 30, 37 of Extended Capabilities element as examples). Also state that the TDLS Broadcast TWT Support field only applies if the non-AP STA has set bit 37 (TDLS Support) to 1. Update the description to replace 'STA' with 'non-AP STA'. | As in comment. | **Revised**  Agree in principle. The TDLS Broadcast TWT Support field can be reserved for the AP.  **TGbe editor, please make changes as shown in this doc 11-24/1061r1 tagged by #23042.** |
| 23085 | 608.06 | Is it assumed that a B-TWT identified via the procedure in this paragraph is valid throughout the duration of the p2p link? If not, how does a peer STA know when to stop waking up during the broadcast TWT SPs? | As in comment | **Revised**  Agree in principle. A mechanism to indicate the end of a TDLS Broadcast TWT between two TDLS peer STAs is needed.  **TGbe editor, please make changes as shown in this doc 11-24/1061r1 tagged by #23085.** |

***TGbe Editor: Please revise the last row (Bit 109) of Table 9-192 (Extended Capabilities field) as shown below (#23042) :***

**Table 9-192—Extended Capabilities field *(continued)***

|  |  |  |
| --- | --- | --- |
| **Bit** | **Information** | **Notes** |
| … | … | … |
| 109 | TDLS Broadcast TWT Support | The non-AP STA sets the TDLS Broadcast TWT Support field to 1 when the non-AP STA sets the Broadcast TWT Support field in the HE Capabilities element it transmits to 1, sets the TDLS Support field in the Extended Capabilities element to 1, and supports TDLS operation with broadcast TWT as specified in 35.3.21.1 (General). (#23042)  The subfield is reserved for an AP. (#23042) |

***TGbe Editor: Please revise the last the last paragraph of clause 35.3.21.1 (General) as follows*** ***(#23085) :***

If a TDLS peer STA that is a member of a broadcast TWT schedule intends to transmit frames to another TDLS peer STA over a TDLS direct link during the TWT SP corresponding to the broadcast TWT schedule, then the TDLS peer STA may send a TDLS Broadcast TWT Request frame to the other TDLS peer STA if both of the TDLS peer STAs set the TDLS Broadcast TWT Support field in the Extended Capabilities element they transmit to 1, where the broadcast TWT schedule is identified by the Broadcast TWT ID subfield in the TWT Information Extension element in the TDLS Broadcast TWT Request frame. If the other TDLS peer STA, upon reception of the TDLS Broadcast TWT Request frame, responds by transmitting a TDLS Broadcast TWT Response frame with the status code SUCCESS, then the other TDLS peer STA is expected to be in the awake state during the TWT SPs corresponding to the broadcast TWT schedule until the number of TBTTs indicated by the associated AP in the Broadcast TWT Persistence subfield of the Broadcast TWT Parameter Set field corresponding to the broadcast TWT schedule in the Beacon and Probe Response frames. The number of beacon intervals during which the other TWT peer STA is expected to be in the awake state during the broadcast TWT SPs is equal to the value in the Broadcast TWT Persistence subfield plus 1. In the TDLS Broadcast TWT Response frame, the Broadcast TWT ID subfieldvalue in the TWT Information Extension element shall be the same as that in the TDLS Broadcast TWT Request frame. (#23085)