IEEE P802.11
Wireless LANs

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| CR for CID 22204 |
| Date: 2024-03-05 |
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Abstract

This submission proposes comments resolution of the following 3 CIDs received for TGbe Draft 5.0:

CIDs:

22204

Revisions:

* Rev 0: Initial version of the document.

***TGbe editor: The baseline for this document is IEEE 802.11be D5.0***

1. **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.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause**  | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 22204 | Osama Aboulmagd | 35.2.1.2.3 | 494.29 | On behalf of Yunbo Li P2P buffer report is still missing for now. Without a P2P buffer report mechanism, an AP will hard to determine how much resource will be allocated to a P2P transmission through MU-RTS TXS TF with Triggered TXOP Sharing Mode 2. | add the P2P buffer report mechanism | RevisedAgree with the commenter, and a P2P buffer report mechanism is introduced.TGbe editor to make changes in 11-24/0359r0 under CID 22204 |

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

1. **Proposed spec text**

9.2.4.6 HT Control field

9.2.4.6.4 HE variant

***TGbe editor: Please make the following changes in Table 9-25 (Control ID subfield values) : (#22204)***

Table 9-25—Control ID subfield values

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
| Control ID value |

 |

|  |
| --- |
| Meaning |

 |

|  |
| --- |
| Length of the Control Information subfield (bits) |

 |

|  |
| --- |
| Content of the Control Information subfield |

 |
| … | … | … | … |
| 10 | P2P Buffer Status Report (P2P BSR) | 16 | See 9.2.4.7.12 (P2P BSR Control) |
| 11-14 | Reserved |  |  |
| 15 |

|  |
| --- |
| Ones need expansion surely (ONES) |

 | 26 |

|  |
| --- |
| Set to all 1s |

 |

***TGbe editor: add the following subclause in subcaluse 9.2.4.7 (Control subfield variants of an A-Control subfield) (#22204)***

9.2.4.7.12 P2P BSR Control

The Control Information subfield in a P2P BSR Control subfield contains information related to the required medium time for TXOP sharing for the STA transmitting the frames to its P2P peer STA (see 35.2.1.3 Triggered TXOP sharing procedure). The format of the subfield is shown in [Figure 9-x (Control Information subfield format in a P2P BSR Control subfield)](#bookmark2)

 B0 B3 B4 B6 B7 B13 B14 B15

|  |  |  |  |
| --- | --- | --- | --- |
| TID | Channel Width | Required Medium Time | Reserved |

 Bits: 4 3 7 2

 [Figure 9-x Control Information subfield format in a P2P BSR Control subfield](#bookmark2)

The TID subfield indicates the TID whose medium time is requested.

The Channel Width subfield as defined in Table 9-y (Channel Width subfield) indicates the maximal bandwidth of the P2P link that corresponds to the link on which the P2P BSR Control subfield is transmitted.

The Required Medium Time subfield indicates the required medium time in unit of 256 microseconds, requested for TXOP sharing on the link on which the P2P BSR Control subfield is transmitted based on the channel width specified in by the Channel Width subfield.

Table 9-y — Channel Width subfield

|  |  |
| --- | --- |
| Value | Meaning |
| 0 | 20 MHz |
| 1 | 40 MHz |
| 2 | 80 MHz |
| 3 | 160 MHz |
| 4 | 320 MHz |
| 5 to 7 | Reserved |

***TGbe editor: add the following paragraphs at the end of 35.2.1.2.3 (Non-AP STA behaviour):*** ***(#22204)***

35.2.1.2.3 Non-AP STA behavior

If a non-AP STA with dot11EHTTXOPSharingTFOptionImplemented equal to true received the EHT Capabilities element with the Triggered TXOP Sharing Mode 2 Support subfield in the EHT Capabilities element equal to 1 from its associated AP, the non-AP STA may deliver a P2P BSR Control subfield to its associated AP to assist the AP in allocating resources for TXOP sharing operation.

After receiving the soliciting BSRP Trigger frame, a non-AP STA with dot11EHTTXOPSharingTFOptionImplemented equal to true may transmit a QoS Null frame with P2P BSR Control subfield as defined in 9.2.4.7.12 (P2P BSR Control).

When associated with an AP from which the EHT Capabilities element with the Triggered TXOP Sharing Mode 2 Support subfield in the EHT Capabilities element equal to 1 is received, a non-AP STA with dot11EHTTXOPSharingTFOptionImplemented equal to true, may deliver QoS Null/Data frame with P2P BSR Control subfield as defined in 9.2.4.7.12 (P2P BSR Control) that is not carried in EHT TB PPDU or HE TB PPDU.

The required time duration in a P2P BSR Control subfield applies on the link that the P2P BSR Control subfield is transmitted.

NOTE 3 — When a non-AP STA reports a P2P BSR Control subfield to its associated AP, if the value of TID subfiled in the P2P BSR Control subfield matches the TID of an established SCS stream, the report of P2P BSR Control subfield doesn’t changes the parameters of the SCS stream.