IEEE P802.11  
Wireless LANs

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| CR for CID 2446 – ICR parameters in Co-TDMA | | | | |
| Date: 2025-07-31 | | | | |
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Abstract

This document addresses the CID 2446.

Rev0: initial version

Rev1: Editorial changes and instructions to TGbn Editor to apply the changes to 9.3.1.8.6 (Multi-STA BlockAck variant) to include the Requested Time Allocation field in the Co-TDMA ICR.

Rev2: Added additional authors

Rev 3: Added DCN in instructions to editor, added a note that on what bandwidth is assumed when calculating the requested time allocation, added that value 0 in the Requested Time Allocation indicates the absence of such a Requested Time Allocation recommendation, clarified that the Requested Time Allocation is for the current TXOP

Rev. 4: Editorial change (added the revision history for Rev 3)

Rev. 5: Added bit numbers to the figure, Converted the note on what bandwidth is assumed when calculating the requested time allocation to be part of the information field description

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 2446 | 37.8.2.3.2 | 73 | Signaling details of Co-TDMA response trame to ICF are not defined | Response frame should contain signaling of traffic details and other useful information that helps the sharing AP to decide which AP(s) to share the TXOP with | Revised  I agree with the need to add an information field containing the Requested Time Allocation to the Co-TDMA ICR to help the coordinating AP to decide on the time allocation to polled AP.  TGbn Editor: Please apply changes as marked as #2446 in DCN 25/1163r3. |

# Discussion:

Based on some offline discussions we sense that there is support to add additional information field(s) to the Initial Control Response frame (ICR) for Co-TDMA. We hope this comment can be resolved soon and if the group decides to add additional information field to the Co-TDMA ICR we will add the proposed changes marked with #2446 as an addition to Draft 0.3 [1].

To get the opinion of TGbn we would like to run the following SPs:

* + SP1: Do you support to include additional information field(s) in the Co-TDMA ICR to what is already present in Draft 0.3 [1].
  + SP2: Do you support to add an information field to the Co-TDMA ICR that the polled AP can use to indicate the time duration it would like to be allocated by the coordinating AP as part of the Co-TDMA TXOP sharing procedure. The coordinating AP can use this information to allocate time to the polled AP(s). Note: The indicated time duration to be allocated is a recommendation to the coordinating AP. The PDT already includes the primary AC as a parameter in the ICF to help the polled AP to decide if it has wants to receive part of the TXOP from the coordinating AP.

# Proposal:

**TGbn Editor: Please apply the changes marked as tracked changes to 9.3.1.8.6 (Multi-STA BlockAck variant) as follows.**

(#684)The Feedback Type field is set to 3 to carry Co-TDMA information as described in 37.8.2.3 (Coordinated time division multiple access (Co-TDMA)).

If the Feedback Type field is set to 3, the Feedback field has the format defined in Figure 9-60c (Feedback field format if the Feedback Type field is set to 3 for Co-TDMA information).

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|  | B0 | B1 B8 | B9    B31 |
|  | TXOP Sharing Solicited | Requested Time Allocation | Reserved |
| Bits: | 1 | 8 | 23 |

**Figure 9-60c Feedback field format if the Feedback Type field is set to 3 for Co-TDMA information**

The TXOP Sharing Solicited field of the Feedback field is set to 1 if the polled AP intends to receive a time allocation from the Co-TDMA coordinating AP during the current TXOP to exchange frames of the same or higher priority ACs compared to the AC indicated in the Primary AC field in the Co-TDMA TB ICF or the Co-TDMA NTB ICF with its associated non-AP STAs, otherwise it is set to 0.

(#2446) The Requested Time Allocation field indicates the time duration in units of 16us the polled AP would like to be allocated from the coordinating AP as part of the Co-TDMA TXOP sharing procedure. The coordinating AP should use this information as a recommendation to allocate time to the polled AP during the current TXOP. A value of 0 indicates the absence of a recommended time duration. The Requested Time Allocation is calculated assuming the same bandwidth as the ICF and does not include any 20MHz subchannel outside the overlapping portion of the BSS bandwidths of the coordinating and the polled AP.

References:

[1] IEEE P802.11bn™/D0.3, May 2025