IEEE P802.11
Wireless LANs

|  |
| --- |
| CR for CID 2446 – ICR parameters in Co-TDMA |
| Date: 2025-07-24 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Klaus Doppler | Nokia |  |  | Klaus.doppler@nokia.com |
|  |  |  |  |  |

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.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 | RevisedI 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. |

# 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).

|  |  |  |  |
| --- | --- | --- | --- |
|  | B0 |  | B1    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.

References:

[1] IEEE P802.11bn™/D0.3, May 2025