IEEE P802.11
Wireless LANs

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| CR for CID 16206 |
| Date: 2023-06-23 |
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Abstract

This submission proposes comment resolution(s) for the following 1 CID(s) received in LB271 on TGbe D3.2

CIDs: 16206

Revisions:

* Rev 0: Initial version of the document.

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| **CID** | **Commenter** | **Clause**  | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 16206 | Ming Gan | 　 | 0.00 | it is too broad to say after the end of the current TXOP, should discard the record immediately or at a later time? | if BA is not transmitted in current TXOP, the discard will happen at a later time. Please specify when to discard at a later time. | RevisedAgree with the commenter.TGbe editor to make the changes with the CID tag 16206 in doc 11-23/1409r0 |

Discussion:

From originator MLD side:

An originator is unaware of the recipient’s choice of full-state or partial-state operation.--

NOTE 5—An originator MLD is expected to solicit an immediate BA within the TXOP by following 10.25.6.9 (Originator’s support of recipient’s partial state) to reduce the probability that MPDUs are unnecessarily retransmitted.

From recipient MLD side:

If a recipient MLD has independent scoreboard context control at an affiliated STA (i.e., the STA is not able to be in sync with the information at the common reordering buffer or the information at another STA affiliated (#15825)with the same MLD to update its local scoreboard context), then the affiliated STA shall implement partial state operation and should discard the temporary record after the end of the current TXOP.

The originator MLD may or may not solicited solicite immediate BA within current TXOP. If no BA is transmitted within current TXOP, the originator may send BAR in following TXOP. Under this case, the STA affiliated with recipient MLD discard the temporary record right after current TXOP will cause unnecessary retransmission. A better choice is discard the temporary record at a later time. A safe way is to discard the record before processing the scoreboard context of next received QoS Data frame of same TID. It will allow the originator STA to transmit a BAR to solicite BA after current TXOP, while the recipient STA does not have any risk to feedback the receive status incorrectly.

1. **Proposed spec text**

***TGbe editor: Please make the following changes in subclause 35.3.8 (Block ack procedures in Multi-link operation) :***

**35.3.8 Block ack procedures in Multi-link operation**

If a recipient MLD has independent scoreboard context control at an affiliated STA (i.e., the STA is not able to be in sync with the information at the common reordering buffer or the information at another STA affiliated (#15825)with the same MLD to update its local scoreboard context), then the affiliated STA shall implement partial state operation and should discard the temporary record after the end of the current TXOP. If BA is not transmitted before the end of the current TXOP, the affiliated STA should discard the temporary record right before processing the scoreboard context of the next received the QoS Data frame of the TID from the initiator MLD in the link.(#16206)

NOTE 4—If a recipient MLD has independent scoreboard context control at an affiliated STA (STA 1), then STA 1’s *WinStart*R might not be within 211 of the *WinStart*R at another affiliated STA (STA 2) of the same MLD. As a result, STA 1 can fail to accurately update the scoreboard context and hence, might provide an incorrect reception status for an MPDU received in (#16805)a subsequent TXOP. Therefore, it is recommended that STA 1 discards its temporary record in a timely manner. If the affiliated STA can be in sync with the latest information at another STA affiliated with the same MLD, then it does not have to discard the temporary record at the end of the current TXOP.

(#17831)NOTE 5—An originator MLD is expected to solicit an immediate BA within the TXOP by following 10.25.6.9 (Originator’s support of recipient’s partial state) to reduce the probability that MPDUs are unnecessarily retransmitted.