IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Originator Block Ack State | | | | | | Date: 2019-08-11 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Matthew Fischer | Broadcom |  |  | [Matthew.fischer@broadcom.com](mailto:Matthew.fischer@broadcom.com) | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |

Abstract

Proposed language to modify some confusing text in the description of the originator behaviour in the BlockAck section.

The proposed changes is based on CID 4155 from LB SA1 of TGmd draft D3.0

Changes are referenced to TGmd D3.1.

**REVISION NOTES:**

**R0**:

initial

**R1**:

Correct a spelling error

Update to D3.1

Change CID of reference

**R2**:

Modify wording for consistent naming of status

Update doc references

**END OF REVISION NOTES**

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 TGmd Draft. This introduction is not part of the adopted material.

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

***TGmd Editor: Editing instructions preceded by “TGmd Editor” are instructions to the TGmd editor to modify existing material in the TGmd draft. As a result of adopting the changes, the TGmd editor will execute the instructions rather than copy them to the TGmd Draft.***

**CIDs**

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| **CID** | **Commenter** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution (Proposed)** |
| 4155 | Fischer, Matthew | 10.25.6.8 | 1887.00 | The text is not straightforwad. | Make changes to clarify the behavior. See, for example, 11-19-1564 | Revise - TGmd editor to make changes as shown in 11-19/1564r2 that are marked with CID 4155 which generally agree with the commenter’s suggestion to clarify some fo the block ack language. |

**Discussion:**

**Proposed Changes to TGmd D3.1:**

***TGmd editor: within TGmd D3.1, in 10.25.6.6.3 Operation for each received BlockAckReq, change the text as shown, noting that the change is to modify the less than operator to a less than or equal to operator:***

**10.25.6.6.3 Operation for each received BlockAckReq**

b) If WinstartB + 2^11  SSN  WinstartB, do not make any changes to the receive reordering buffer record.

***TGmd editor: within TGmd D3.1, in 10.25.6.8 Maintaining block ack state at the originator, change the text as shown:***

**10.25.6.8 Maintaining block ack state at the originator**

For each BlockAck frame corresponding to a block ack agreement that is successfully received by an originator, the originator shall maintain a block ack status for each transmitted MPDU corresponding to that block ack agreement as follows:

— Not update the status of MPDUs with Sequence Number subfield values between *WinStartO* and

*SSN* of the received BlockAck frame, and

* For each MPDU for which the block ack status is not acknowledged, and for which the corresponding bit of the received bitmap contains a value of 1, and for which the Sequence Number subfield value is between SSN of the received BlockAck frame and *WinEndO*, change the block ack status to acknowledged, and

NOTE—It is possible for the Starting Sequence Number subfield value (*SSN*) of the received BlockAck frame

to be greater than *WinStartO* because of the failed reception of a nonzero number of MPDUs beginning with the

MPDU with Sequence Number subfield value equal to *WinStartO* at a recipient that is using partial-state

operation.

— Not update the status of MPDUs that have a block ack status indication of acknowledged.

NOTE—This third rule means that if an originator successfully delivered an MPDU and received the

BlockAck frame in one TXOP and then receives a BlockAck frame in a later TXOP in which the MPDU is not

indicated as received (because the partial state has been reset), the originator knows not to retry the

MPDU.

**End of proposed changes.**