IEEE P802.11  
Wireless LANs

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| Delete HT-Delayed Block Ack | | | | |
| Date: 2020-4-23 | | | | |
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Abstract

CIDs 4438 and 4439

Both CIDs Propose deletion of HT-Delayed Block Ack

This document provides the instruction for the deletion from 11md based on D3.0

**CID 166**

**RESOLUTION**

**REVISED**

Instructions for Removal of “HT-Delayed Block Ack” from 11md D3.0

P185L52 delete entire entry:

“**high-throughput (HT) delayed (HT-delayed) block acknowledgment (Ack):** A delayed block ack mechanism that requires the use of the compressed BlockAck frame and the No Acknowledgment ack policy setting within both BlockAckReq and BlockAck frames. This block ack scheme is negotiated between two HT stations (STAs) that both support HT-delayed block ack.”

P250L37, Clause 4.3.22,

Delete “HT-Delayed block ack”

(Context “A DMG STA does not use any of the following: HCCA, power save multi-poll (PSMP), TDLS, ~~HT-delayed block ack~~, GCR.”)

P829L28 In Figure 9-36, Replace “BAR Ack Policy” in B0 with “Reserved”

P829L37 Delete:

“For BlockAckReq frames sent under (#2289)HT-delayed agreements, the BAR Ack Policy subfield of the BAR Control field has the meaning shown in Table 9-27 (BAR Ack Policy subfield). For BlockAckReq frames sent under other types of agreement, the BAR Ack Policy subfield is reserved.”

P829L42 Delete Table 9-27

P833L11 Edit as shown

“The TA field value is the address of the STA transmitting the BlockAck frame ~~or a bandwidth signaling TA in the context of HT-delayed block ack(#1512)~~. In a BlockAck frame transmitted in the context of ~~HTdelayed block ack(#1512) by a VHT STA in a non-HT or~~ non-HT duplicate format and where the scrambling sequence carries the TXVECTOR parameter CH\_BANDWIDTH\_IN\_NON\_HT, the TA field value is a bandwidth signaling TA.”

P833L22 In Figure 9-41, Replace “BAR Ack Policy” in B0 with “Reserved”

P833 L31

Delete

“For BlockAck frames sent under (#2289)HT-delayed agreements, the BA Ack Policy subfield of the BA Control field has the meaning shown in Table 9-29 (BA Ack Policy subfield). For BlockAck frames sent under other types of agreement, the BA Ack Policy subfield is reserved.”

P833L38 Delete Table 9-29

P917L1 Change as follows:

“The Block Ack Policy subfield is set to 1 for immediate block ack ~~and 0 for (#2289)HT-delayed block ack.(#1512).~~”

Aside – Would it be OK to delete “for immediate block ack”? We only have one type now?

P1173L44 In Figure 2-375 Change text for B10 from “HT-Delayed Block Ack “ to “Reserved”

P1175L6 In Table 9-184 delete entire Row “HT-delayed block ack”

P1403L49 In Table 9-300 delete entire Row “HT-delayed block ack”

P1685L57 Change NOTE as follows

“NOTE—This context includes cases when no response is generated ~~or when a response is generated later by the operation of the (#2289)HT-delayed block ack rules~~.

In Table 9-529

P1686L32 Delete entire Row “HT-delayed block ack”

P1686L35 Delete entire Row “HT-delayed block ack data”

P1686L40 Delete entire Row “HT-delayed BlockAckReqs”

In Table 9-530

P1687L7 Delete entire row “DelayedBlockAcks”

P1687L9 Delete entire row “Delayed Block Ack data”

P1687L18 Delete entire row HT-delayed BlockAckReqs”

In Table 9-531

P1687L35 Change “Conditions” entry as follows

“BlockAck frames with the BA Ack Policy subfield equal to No Acknowledgment ~~and with a TID for which an HT-delayed block ack agreement exists~~.”

P1687L43 Delete entry in first column, “Delayed Block Ack data” and

delete corresponding entry in second column:

“QoS Data frames with a TID that corresponds to (#57)an HT-delayed block ack agreement. These have Block Ack ack policy.(#1415)”

P1687L56 Delete entire row HT-delayed BlockAckReqs”

P1691L28 Change as follows

The addressed recipient returns a BlockAck or BAT frame, either individually or as part of an A-MPDU starting a SIFS after the PPDU carrying the frame, according to the procedures defined in

10.3.2.11 (Acknowledgment procedure), and 10.47.2 (TWT acknowledgment procedure~~) and 10.25.7.3 (Operation of HT-delayed block ack)~~.(M86)

P1721L62, delete ”or HT-delayed block ack”

P1722L17, delete ”or HT-delayed block ack”

P1750L27, Change as follows:

“NOTE 1—A BlockAck frame or an Ack frame is sent in immediate response to the BlockAckReq frame for HTimmediate ~~or HT-delayed~~ block ack(#1512)~~, respectively~~. “

P1786L34 Delete “HT-delayed block ack”

P1874L56 Change as follows:

“The block ack mechanism improves channel efficiency by aggregating several acknowledgments into one frame. There ~~are two~~ is one type~~s~~ of block ack mechanism~~s~~: immediate. ~~and (#2289)HT-delayed~~. ~~Immediate block ack is suitable for high-bandwidth, low-latency traffic while the (#2289)HT-delayed block ack is suitable for applications that tolerate moderate latency.~~”

*Aside – Do we want to wordsmith this ?*

P1875L41 Delete

“An S1G STA that sets the HT-delayed Block Ack field(#2593) in the S1G Capabilities element to 1 shall support the HT-delayed block ack extension(#57).”

P1877L59 Delete from Title 10.25.3

“and HT-delayed block ack policy”

P1878L61 Delete “and 10.25.7”

P1886L44 Delete

“A BlockAckReq frame sent using HT-delayed operation may be transmitted within an A-MPDU provided that its BAR Ack Policy subfield is set to No Acknowledgment. “

P1888L17 Delete Entire Clause 10.25.7 “HT-delayed block ack extensions”

P1916L40 Delete

“— BlockAckReq under HT-delayed policy with the BAR Ack Policy subfield set to 1 (representing

No Acknowledgment)

— BlockAck under HT-delayed policy with the BA Ack Policy subfield set to 1 (representing

No Acknowledgment)”

P1918L55 Delete  
“— A QoS Data frame transmitted under an HT-delayed block ack agreement during either a PSMPDTT or a PSMP-UTT shall have Block Ack ack policy(#1415).”

P1919L48 Delete

“If a BlockAckReq frame for an HT-delayed block ack agreement is transmitted during a PSMP sequence, the BAR Ack Policy subfield of the BlockAckReq frame shall be set to the value representing No Acknowledgment.”

Table 11-5

P2268L36 Delete entire row “Both STAs are HT STAs, and both of the STAs set the HT-delayed Block Ack subfield of the HT Capabilities element to 1.”

P2268L47 Delete entire row “(11ah)Both STAs are S1G STAs and support HT-delayed Block Ack(#2593)”

P2268L49 Delete “NOTE—HT-delayed block ack agreement is obsolete. Support for this mechanism might be removed in a later revision of the standard.”

P3698L53 Change entries for HTM5.4 to “Reserved” in column 2 and delete entries in columns 3, 4 and 5.

*Aside- Is this right for the PICS?*

P4013L14 Change Status from “current” to “deprecated”

P4152L31 Delete “or HT-delayed block ack”

P4404L23 Delete “HT-delayed or”

P4404L30 Delete

“**BlockAck** | (\*HT-delayed (#57)\*)

**BlockAckReq** | (\*HT-delayed (#57)\*)”