IEEE P802.11  
Wireless LANs

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| Delete HT-Delayed Block Ack | | | | |
| Date: July 10, 2020 | | | | |
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**Abstract**

CIDs 4438 and 4439 propose deletion of HT-Delayed Block Ack.

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

**RESOLUTION**

**REVISED**

The following are the instructions for removal of HT-Delayed Block Ack from 11md D3.0.

185.52 delete

“**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.”

250.37 edit as shown

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

829.28

In Figure 9-36 (BAR Control field format), Replace “BAR Ack Policy” in B0 with “Reserved”

829.37 delete

“For BlockAckReq frames sent under 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.”

829.42 delete Table 9-27 (BAR Ack Policy subfield)

833.11 edit as shown

“The TA field value is the address of the STA transmitting the BlockAck frame. In a BlockAck frame transmitted in the context of 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.”

833.22 in Figure 9-42 (BA Control field format), replace “BAR Ack Policy” in B0 with “Reserved”

833.31 delete

“For BlockAck frames sent under 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.”

833.38 delete Table 9-29 (BA Ack Policy subfield)

917.1 change as shown

“The Block Ack Policy subfield is set to 1 for immediate block ack”

1173.44 in Figure 2-375 (HT Capability Information field format), change B10 from “HT-Delayed Block Ack“ to “Reserved”

1175.6 in Table 9-184 (Subfields of the HT Capability Information field), delete entire row “HT-delayed block ack”

1400.27 in Figure 9-692 (S1G Capabilities Information field format), change change B25 from “HT-Delayed Block Ack“ to “Reserved”

1403.49 in Table 9-300 (Subfields of the S1G Capabilities Information field), delete entire row “HT-delayed block ack”

1685.57 Change NOTE as follows

“NOTE—This context includes cases when no response is generated.

1686.32 in Table 9-529 (A-MPDU contents in the data enabled immediate response context), delete entire row “HT-delayed block ack”

1686.35 in Table 9-529 (A-MPDU contents in the data enabled immediate response context), delete entire row “HT-delayed block ack data”

1686.40 in Table 9-529 (A-MPDU contents in the data enabled immediate response context), delete entire row “HT-delayed BlockAckReqs”

1687.7 in Table 9-530 (A-MPDU contents in the data enabled no immediate response context) delete entire row “DelayedBlockAcks”

1687.9 in Table 9-530 (A-MPDU contents in the data enabled no immediate response context) delete entire row “Delayed Block Ack data”

1687.18 in Table 9-530 (A-MPDU contents in the data enabled no immediate response context) delete entire row HT-delayed BlockAckReqs”

**------------ End of June 5 review**

1687.35 in Table 9-531 (A-MPDU contents in the PSMP context), delete the second row "Delayed BlockAcks" entirely

1687.43 in Table 9-531 (A-MPDU contents in the PSMP context), delete the fourth row "Delayed Block Ack data" entirely (which implies deleting the first and second entry of that row)

1687.56 in Table 9-531 (A-MPDU contents in the PSMP context), delete the seventh row "HT-delayed BlockAckReqs" entirely

1691.28 in Table 9-536 (Ack Policy Indicator subfield in the Frame Control field for PV1 frames), in the "Meaning" column of the "Implicit BAR" row, change as shown:

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).

1721.62 delete ”or HT-delayed block ack” and insert "an" before "HT-immediate".

1722.17 delete ”or HT-delayed”

1750.27 change as shown

NOTE 1—A BlockAck frame is sent in immediate response to the BlockAckReq frame for HT-immediate block ack. An Ack frame might be sent in immediate response to an S-MPDU in the VHT MU PPDU.

1750.30 correct font size on "immediate acknowledgement"

1786.34 delete ", BlockAck frames in the context of HT-delayed block ack"

1874.56 change as shown

The block ack mechanism improves channel efficiency by aggregating several acknowledgments into one frame. In this subclause, the STA with data to send using the block ack mechanism is referred to as the *originator*, and the receiver of that data as the *recipient*.

1875.41 delete

An S1G STA that sets the HT-delayed Block Ack field in the S1G Capabilities element to 1 shall support the HT-delayed block ack extension.

1877.59 delete from Title 10.25.3

“and HT-delayed block ack policy”

1878.61 delete “and 10.25.7 (HT-delayed block ack extensions)”

1886.44 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.

1888.17 delete entire Clause 10.25.7 (HT-delayed block ack extensions)

1916.40 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)

1918.55 delete

— A QoS Data frame transmitted under an HT-delayed block ack agreement during either a PSMP-DTT or a PSMP-UTT shall have Block Ack ack policy.

1919.48 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.

2268.36 in Table 11-5, 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.”

2268.47 delete entire row "Both STAs are S1G STAs and support HT-delayed Block Ack"

2268.49 delete “NOTE—HT-delayed block ack agreement is obsolete. Support for this mechanism might be removed in a later revision of the standard.”

<What about the now vestigial NOTE at 2268.54: "NOTE—If the BlockAckReq and BlockAck variant is Extended Compressed and the Type of block ack agreement is HTimmediate, use of the RBUFCAP field is implementation dependent.">

3698.53 at HTM5.4 change the 2nd column to “*Reserved*” and delete the items in columns 3, 4 and 5 (as in PICS item ERP44 at 3667.14.

4013.14 deprecate dot11RMNeighborReportHTDelayedBlockAck using the common procedure to deprecate MIB variables.

4152.31 Delete "or HT-delayed"

4404.23 delete "-delayed or " so that the item becomes "HT-immediate block ack policy".

4404.30 delete

**BlockAck** | (\*HT-delayed\*)

**BlockAckReq** | (\*HT-delayed\*)