IEEE P802.11
Wireless LANs

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| Delete HT-Delayed Block Ack  |
| Date: June 5, 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), change “Conditions” entry as shown

 “BlockAck frames with the BA Ack Policy subfield equal to No Acknowledgment.”

1687.43 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 an HT-delayed block ack agreement. These have Block Ack ack policy."

1687.56 delete entire row "HT-delayed BlockAckReqs"

1691.28 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”

1722.17 delete ”or HT-delayed block ack”

1750.27 change as shown

“NOTE 1—A BlockAck frame or an Ack frame is sent in immediate response to the BlockAckReq frame for HTimmediate block ack. “

1786.34 delete “HT-delayed block ack”

1874.56 change as shown

“The block ack mechanism improves channel efficiency by aggregating several acknowledgments into one frame. There is one type of block ack mechanism: immediate.”

*Aside – Do we want to wordsmith this ?*

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”

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 PSMPDTT 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.”

3698.53 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?*

4013.14 Change Status from “current” to “deprecated”

4152.31 Delete “or HT-delayed block ack”

4404.23 delete “HT-delayed or”

4404.30 delete

“**BlockAck** | (\*HT-delayed\*)

**BlockAckReq** | (\*HT-delayed\*)”