IEEE P802.11
Wireless LANs

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| **Resolutions to LB230 comments submitted to** **subclause 9.3.1.9.1** |
| **Date:** 2018-04-27 |

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Abstract

This submission proposes resolutions for the following CIDs to subclause 9.3.1.9.1 (**3 CIDs**):

* 11745
* 11112, 11113

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

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

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

# 9.3.1.9

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| **CID** | **Commenter** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 11745 | GEORGE CHERIAN | 76.42 | Need a corresponding normative text for the following in clause 27: "An HE STA does not send a Multi-STA BlockAck frame under Delayed and HT-delayed agreements" | As in the comment | Rejected.It is already covered in clause 27. In 27.4.1 Overview, it says “The HE acknowledgment procedure(#13251) builds on the features defined for HT-immediate block ack(see 10.24.7 (HT-immediate block ack extensions))(#11806), with the following extensions: …” This part is saying that the HE block ack agreement is an HT-immediate block ack agreement, which is implicitly saying that it is not done under delayed nor HT-delayed agreements.  |
|  |  |  |  |  |  |
| 11112 | Adrian Stephens | 77.10 | The BA Type is a field that holds an integer. The 802.11 style for the definition of such fields (with the exception of grandfathered fields) is to specify the values with a decimal integer. As this is a new field, it shouldn't be grandfathered. | Remove "(B1 .. B4)". Replace 0000 with 0, Replace 0001 with 8, replace 0010 with 4, and so on.You might also consider reordering the rows to match increasing values of this field. | Revised. Agree in principle with the comment. See the instructions to the TGax editor in doc.s 11-18/0733 and 11-18/0734. The doc. 11-18/0733 changed the Multi-TID, Compressed Bitmap, and GCR Mode subfields in BlockAckReq frame into one subfield, BAR Type, and changed the BlockAckReq frame variant encoding in Table 9-22 to integer expression.  |
| 11113 | Adrian Stephens | 77.51 | "A GCR BlockAck frame is sent in response to a GCR BlockAckReqframe and a GLK-GCR BlockAck frame is sent in response to a GLK-GCR BlockAckReq frame" -- this is clearly description, not frame format | Move to clause 10. | Revised. See the instructions to the TGax editor in doc.11-18/0734. The part being commented on is changed to describe the frame format rule.  |

#### 9.3.1.9 BlockAck frame format

##### 9.3.1.9.1 Overview

Change Figure 9-33 as follows:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 | ~~B1~~ | ~~B2~~ | ~~B3~~ | ~~B4~~ | B1 | B4 | B5 | B11 | B12 | B15 |
|  | BA Ack Policy | ~~Multi-TID~~ | ~~Compressed~~~~Bitmap~~ | ~~GCR~~~~Mode~~ | BA Type | Reserved | TID\_INFO |
| Bits: | 1 | ~~1~~ | ~~1~~ | ~~2~~ | 4 | ~~8~~7 | 4 |

**Figure 9-33—BA Control field**

Change the 3rd paragraph as follows:

The RA field of ~~the BlockAck frame is the address of the recipient STA~~ a BlockAck frame that is not a Multi-STA BlockAck variant is set to the TA field of the soliciting frame or the address of the recipient STA whose data frames are acknowledged.

Change the 4th paragraph as follows:

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. In a BlockAck frame transmitted in the context of HT-delayed Block Ack by a VHT STA or an HE 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.

Change the 6th paragraph of this subclause as follows:

For BlockAck frames sent under Delayed and HT-delayed agreements, the BA Ack Policy subfield of the BA Control field has the meaning shown in Table 9-23 (BA Ack Policy subfield). For BlockAck frames sent under other types of agreement, the BA Ack Policy subfield is reserved. An HE STA does not send a Multi- STA BlockAck frame under Delayed and HT-delayed agreements.

Change the 7th paragraph of this subclause as follows:

The ~~values of the Multi-TID, Compressed Bitmap, and GCR Mode subfields~~ BA Type subfield of the BA Control field determines which of the possible BlockAck frame variants is represented, as indicated in the Table 9-24 (BlockAck frame variant encoding).

Change Table 9-24 as follows:

TGax Editor: Replace Table 9-24 in P802.11ax D2.3 with the following:

**Table 9-24—** **BlockAck frame variant encoding(#11112)**

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| --- | --- |
| **BA Type** | **BlockAck frame variant** |
| 0 | Basic BlockAck |
| 1 | Extended Compressed BlockAck |
| 2 | Compressed BlockAck |
| 3 | Multi-TID BlockAck |
| 4 | Reserved |
| 5 | Reserved |
| 6 | GCR BlockAck |
| 7 | Reserved |
| 8 | Reserved |
| 9 | Reserved |
| 10 | GLK-GCR BlockAck |
| 11 | Multi-STA BlockAck |
| 12 | Reserved |
| 13 | Reserved |
| 14 | Reserved |
| 15 | Reserved |

Change the 8th paragraph as follows:

TGax Editor: Change the paragraph in P802.11ax D2.3 as follows:

~~The GCR Mode subfield indicates whether the BlockAck frame was sent in response to a GCR Mode Block- AckReq or a GLK-GCR BlockAckReq frame. The GCR Mode subfield is 10 when the BlockAck frame is sent in response to a GCR BlockAckReq frame, 01 when the BlockAck frame is sent in response to a GLK-GCR BlockAckReq, and 00 otherwise.~~ The GCR BlockAck variant is used(#11113) in response to a GCR BlockAckReq frame and the GLK-GCR BlockAck variant is used(#11113) in response to a GLK-GCR BlockAckReq frame.