IEEE P802.11  
Wireless LANs

|  |
| --- |
| **Resolutions for CIDs related to GCR** |
| **Date:** 2018-01-12 |
| **Author(s):** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Affiliation** | **Address** | **Phone** | **Email** |
| Yusuke Tanaka | Sony | Osaki 2-10-1, Shinagawa, Tokyo, Japan |  | Yusuke.YT.Tanaka@sony.com |
| Yuichi Morioka |  | Yuichi.Morioka@sony.com |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes resolutions CID 11092, 11320, 11810, 12852, 13190, 13315 (6 CIDs).

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.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 11092 | Adrian Stephens | 239.06 | "sends a PPDU to an intended recipient"  This is, of course, to distinguish the PPDU from one sent to an unintended recipient.  Also, PPDUs are not addressed, but frames within it are.  Also "transmits" is the preferred verb. | Replace sentence with:  "A STA that transmits a PPDU can solicit different immediate responses to the frames the PPDU contains by using the Ack Policy field of QoS Data or QoS Null frames, the type of the frame (e.g., Action, (multi-TID) BAR, MU-BAR Trigger frame, GCR MU-BAR Trigger frame, etc.) and the EOF field setting" | Revised -  Agree in principle. PPDUs are not addressed but frames whith in the PPDU are addressed. Make changes as outlined in this document in conjuction with other related CIDs (11810, 12852)  TGax editor shall incorporate changes in 11-18-xxxx-00-00ax |
| 11320 | Alfred Asterjadhi | 249.05 | Data frames cannot be aggregated together with BloCkAck frames in resposne to GCR MU BAR. Clarify what this means. Was it intended to the QoS Nulls and Action No Acks? | As in comment. | Revised -  Agree in principle. BloCkAck frames in resposne to GCR MU BAR cannot be aggregated together with Data frame according to Table 9-428 (A-MPDU contents MPDUs in the control response context).  TGax editor shall incorporate changes in 11-18-xxxx-00-00ax |
| 11810 | Graham Smith | 239.06 | A STA that sends a PPDU to an intended recipient can solicit different immediate responses by using the Ack Policy field of QoS Data or QoS Null frames, the type of the frame (e.g., Action, (multi-TID) BAR, Ack Policy field of QoS Data or QoS Null MU-BAR Trigger frame, GCR MU-BAR Trigger frame, etc.) and the EOF field setting." Somehow this does not read right. "the Ack Policy field ...of the type of frame"? Is it only in these frames or is it simply 'use the Ack Policy field in the PPDU"? Clarify | Replace with"A STA that sends a PPDU to an intended recipient can solicit different immediate responses by using the Ack Policy field of the transmitted PPDU." | Revised -  Agree in principle. This part is not clear and need to be clarified. The description “the type of the frame…” is not a part of the description about Ack Policy field but is an independent part. Make changes as outlined in this document in conjuction with other related CIDs (11092, 12852)  TGax editor shall incorporate changes in 11-18-xxxx-00-00ax |
| 12852 | Mark RISON | 239.07 | "(e.g., Action, (multi-TID) BAR,  MU-BAR Trigger frame, GCR MU-BAR Trigger frame, etc.)" is grammatically poor and "BAR" is undefined | Delete the cited text | Revised -  Agree in principle. Delete the part in parentheses and use a formal name of each frame. Make changes as outlined in this document in conjuction with other related CIDs (11092, 11810)  TGax editor shall incorporate changes in 11-18-xxxx-00-00ax |
| 13190 | Rajesh Kumar | 236.01 | Rules for setting the RA when responding to a multi-BSS GCR-MU-BAR are missing. Spec needs to have paragraph similar to the one on P236L1 for GCR-MU-BAR. | As in comment | Revised -  Agree in principle. Rules for setting the RA when responding to a multi-BSS GCR MU-BAR should be defined, and the rules for multi-BSS MU-BAR can be resued with adding condition of RA of a GCR MU-BAR. The additional condition is the RA need to be a GCR Group address of which the non-AP HE STA is a member.  The response behaviour can be realized based on the baseline specification that is an HE AP cpresponding to a BSS that has a transmitted BSSID and a nontransmitted BSSID maintains one sequence number space for group-addressed frames (10.3.2.11.2 Transmitter requirements). It should be better to add notes about it.  It is clear that if the RA is not a GCR Group address of which the non-AP HE STA is a member, the non-AP HE STA does not receive the frame. Therefore, response rules are not needed for that case.  TGax editor shall incorporate changes in 11-18-xxxx-00-00ax |
| 13315 | Roger Marks | 252.53 | "GCR MU BAR Trigger frame" is misspelled, per Table 9-25b | Change "GCR MU BAR Trigger frame" to "GCR MU-BAR Trigger frame" | Accepted -  The proposed change was already reflected in the 11ax D2.1. |

CID 11092, 11810, 12852

***TGax Editor: Please make the following changes in P239L6 of 11ax D2.0***

A STA that transmits a PPDU can solicit different immediate responses to the frames the PPDU contains by the Ack Policy field setting of QoS Data or QoS Null frames, transmitting particular types of frame (e.g., Action frame, BlockAckReq frame, MU-BAR Trigger frame, GCR MU-BAR Trigger frame, etc.) and the EOF field setting.

CID 11320

***TGax Editor: Please make the following changes in P251L1 of 11ax D2.0***

The RA field of the frames sent in response to a MU-RTS Trigger frame is set as defined in 9.3.1.3 (CTS frame format). The RA field of the frames sent in response to a GCR MU-BAR Trigger frame or MU-BAR Trigger frame is set as defined in 9.3.1.9 (BlockAck frame format). BlockAck frames and Data frames whose RAs are different shall not be aggregated in one A-MPDU in responding to a MU-BAR Trigger frame. The RA field of the Data frames and Management frames sent in response to a Trigger frame shall be set to the MAC address of the destination AP.

CID 13190

***TGax Editor: Please add the following paragraph after P236L8 of 11ax D2.0***

A non-AP HE STA that is associated with a BSS corresponding to a nontransmitted BSSID and has indicated support for receiving Control frames with TA set to the Transmitted BSSID (via the Rx Control Frame To MultiBSS subfield set to 1 in HE Capabilities element that it transmits) shall, upon receiving an MU BAR Control frame with TA set to the transmitted BSSID, respond to an MU-BAR Trigger frame with RA set either to the (nontransmitted) BSSID of the BSS it is associated with or the transmitted BSSID (i.e., the TA of the soliciting MU-BAR Trigger frame).

A non-AP HE STA that is associated with a BSS corresponding to a nontransmitted BSSID and that has indicated support for receiving Control frames with TA set to the transmitted BSSID (by setting the Rx Control Frame To MultiBSS subfield to 1 in the HE Capabilities element that it transmits) shall, upon receiving a GCR MU-BAR Trigger frame with TA set to the transmitted BSSID and RA set to the MAC address of the group of which the non-AP HE STA is a member, respond with a BlockAck frame that has RA set either to the nontransmitted BSSID or the transmitted BSSID (i.e., the TA of the soliciting GCR MU-BAR Trigger frame).

NOTE – An HE AP that has a transmitted BSSID and a nontransmitted BSSID maintains one sequence number space for group-addressed frames (see 10.3.2.11.2 (Transmitter requirements)).