802.11ba Draft Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 11ba MAC Comment Resolution on WUR ID | | | | |
| Date: 2018-11-07 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Jeongki Kim | LG Electronics |  |  | jeongki.kim@lge.com |

Abstract

This submission proposes resolutions for comments of TGba Draft D1.0 with the following CIDs:

435,436, 799

Revision History:

* Rev 0: Initial version of the document

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 TGba D1.0 Draft. This introduction is not part of the adopted material.

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 435 | 50.31 | 31.3.4 | GIDs and WIDs share an ID space. Therefore, values of GIDs should not be used as a value of a WID and AP should not select the WUR ID randomly in whole ID space.  Insert the texts for clarification in either 31.3.4 WID. | Change the "The AP shall either select the WUR ID randomly from the identifier's space" to "The AP shall either select the WUR ID randomly from the identifier's space where the GIDs and Transmit ID are excluded" | Revised –  Agree in principle with the commenter.  AP should select the individual WUR ID randomly in the ID space in which 0, its TXID, and Group IDs are excluded.  TGba editor, please make changes as shown in doc 11-18/1869r1 under all headings that include CID 435. |
| 436 | 50.32 | 31.3.4 | When an AP assigns a WID using AID+TxID to a STA, if the cacluated WID is the same as the values of GIDs, the AP should not assign the calculated WID to the STA.In that case, the AP should assigns to the STA the WID which AP randomly selects in ID space which excludes GIDs and TXID. | Add the following text at the end of the second paragraph:  When an AP assigns a WID using AID+Transmit ID to a STA, if the cacluated WID is the same as one of GIDs, the AP shall select the WUR ID for the STA randomly from identifier's space where the GIDs and TXID are excluded. | Revised –  Agree in principle with the commenter.  Similar comment to CID 799.  When an AP assigns a WID using AID+Transmit ID to a STA, if the calculated WID is the same as one of GIDs, the AP should reselect the WUR ID for the STA randomly from identifier’s space where 0, GIDs and its TXID are excluded.  TGba editor, please make changes as shown in doc 11-18/1869r1 under all headings that include CID 436. |
| 799 | 57.30 | 31.3.4 | "WUR AP shall assign to each WUR STA a WUR ID that uniquely identifies the WUR STA within the  BSS of the AP. The AP shall either select the WUR ID randomly from the identifier's space or calculate the  WUR ID as AID + transmit ID, where the AID is the association identifier of the STA, the transmit ID is  defined in 31.3.2 (Transmit ID) and the addition performed between the two identifiers is circular modulo  212."  The AID of a STA and the transmit ID of an AP are not unique. So there may be some overlappings that create collisions and wake up WUR STAs for nothing. | please define a procedure to reallocate a WUR ID to a WUR STA if some collisions are detected | Revised –  Agree in principle with the commenter.  Similar comment to CID 436.  When an AP assigns a WID using AID+Transmit ID to a STA, if the calculated WID is the same as TXID, the AP should reselect the WUR ID for the STA randomly from identifier’s space where 0, GIDs and its TXID are excluded.  TGba editor, please make changes as shown in doc 11-18/1869r1 under all headings that include CID 799. |

***TGba Editor: Modify the text of subclause 31.3.4 (WUR ID) as follows (Track change on) :***

31.3.4 WUR ID

A wake-up radio (WUR) ID identifies the WUR STA that is the intended recipient of the WUR frame. A WUR frame with WUR ID in the Address field is an individually addressed WUR frame that is addressed to the WUR STA identified by that WUR ID.

A WUR AP shall assign to each WUR STA a WUR ID that uniquely identifies the WUR STA within the BSS of the AP. The AP shall either select the WUR ID randomly from the identifier’s space or calculate the WUR ID as *AID* + *transmit ID*, where the *AID* is the association identifier of the STA, the *transmit ID* is defined in 31.3.2 (Transmit ID) and the addition performed between the two identifiers is circular modulo *212*. The AP shall ensure that the selected or calculated WUR ID is not any of 0, any *Group ID,* or the *transmit ID* of the AP. (#435, 436, 799) The AP shall indicate the WUR ID assigned to a WUR STA in the WUR ID field of the WUR Mode element it sends to the STA.