IEEE P802.11
Wireless LANs

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| 11ba D1.0 Comment Resolution for Group ID: Part III |
| Date: 2018-12-28 |
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Abstract

This submission proposes resolutions for the following comments from the letter ballot on P802.11ba D1.0:

5 CIDs: 642, 1075, 852, 1068, 702

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version.

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 D1.1 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGba D1.1 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 existing 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.***

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 642 | 31.3.3 | 49.60 | There appear to be more ways to address WUR stations and groups of WUR stations than are actually needed. While I have no doubt that use cases exist for each of transmissions addressed to group IDs, individual WUR IDs, and broadcast along with a list of WUR IDs in the frame body, this seems more complex than necessary for a mechanism that is oriented toward very simple, low power implementation. | Either provide guidance as to why both group IDs and wake up frames with lists of WUR IDs in the frame body are needed, or eliminate one of these mechanisms. My preference would be to eliminate the list of WUR IDs, so as to minimize the cases where WUR PPDUs with frame body fields are transmitted. | Rejected – A VL WUR Wake-up frame with a list of WUR IDs provides a simple mechanism for waking up a small group of WUR STAs (up to 8 WUR STAs). On the other hand, group ID-based WUR Wake-up frame provides an efficient mechanism for waking up a large group of WUR STAs. In summary, both mechanisms are necessary and their usage is implementation dependent. |
| 1075 | 31.3.3 | 49.60 | Group IDs can also be used for the address of VL WUR Wake-up frame. It is useful when AP wants to wake-up a part WUR STAs identified by a certain Group ID. In this case, all WUR STAs except the group can discard the group addressed VL WUR Wake-up frame without checking the Frame Body. | Allow Group ID to be used in VL WUR Wake-up frame as described in this comment | Rejected – In order to wake up a group of WUR STAs identified by a certain Group ID, the simplest way is that WUR AP just sends a WUR Wake-up frame with the ID field set to the Group ID. In this case, it does not make sense to send a VL WUR Wake-up frame with the ID field set to the Group ID. |
| 852 | 31.3.3 | 50.12 | It maybe easier to simply say that the number of group IDs assigned by AP shall not be larger than the value indicated in the Supported Group IDs field. | As in comment. | Revised – Agreed in principle with the commenter.TGba editor, please make changes as shown in doc 11-18/2148r0 under all headings that include CID 852. |
| 1068 | 9.4.2.273 | 31.25 | The lowest group ID is selected randomly and the group ID space is subject to circular-modulo operation. Mapping between bit position of the bitmap and group ID should also consider modulo operaton | Bit position n of the Group ID Bitmap field, if equal to 1, indicates the group ID with a value equal to mod((SGID + n),2^12) is assigned to the WUR STA, | Rejected – The group ID space is a subset of consecutive values obtained from the identifier’s space. Since group ID space does not contain value 0, which is used by VL WUR Wake-up frame, SGID+n shall be smaller than 2^12. |
| 702 | 9.4.2.273 | 31.28 | In the following sentence, "Bit position n of the Group ID Bitmap field, if equal to 0, indicates the group ID with a value equal to (SGID + n) is not assigned to the WUR STA. " the starting value of the bit position n of the Group ID Bitmap field is not clear. | Replace P31L28"Bit position n of the Group ID Bitmap field, if equal to 0, indicates the group ID with a value equal to (SGID + n) is not assigned to the WUR STA."as follows:"Bit position n of the Group ID Bitmap field, if equal to 0, indicates the group ID with a value equal to (SGID + n) is not assigned to the WUR STA. For the m-bit Group ID Bitmap, the value of n ranges from 0 to (m-1)." | Revised – Agreed in principle with the commenter. However,It is clarified in D1.1 (see P36L64) that the first bit of the Group ID Bitmap field corresponds to bit position 0. The issue raised by the commenter no longer exists.TGba editor, no further action is required. |

**Discussion:** *None.*

**Propose:** Revised for CID 852 per discussion and editing instructions in 11-18/2148r0.

**31.3.3 Group ID**

***TGba editor: change 31.3.3 on P50L15 of D1.1 as follows:***

The WUR AP shall indicate the group IDs assigned to a WUR non-AP STA in the Group ID List subfield of the WUR Parameters field of the WUR Mode element that is sent to the STA. The number of group IDs assigned by the WUR AP to a WUR non-AP STA shall not exceed the value indicated in the Group IDs Support field of the WUR Capabilities element sent by the WUR non-AP STA. (#852)

***TGba editor: change 31.3.3 on P50L5 of D1.1 as follows:***

The WUR AP shall randomly select the lowest group ID of the group ID space from the identifier’s space,

and shall ensure that none of the group IDs coincide with any of the WUR IDs and transmitter ID. (#791, #1069)

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