IEEE P802.11
Wireless LANs

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| 11ba D2.0 Comment Resolution for Group ID |
| Date: 2019-3-6 |
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Abstract

This submission proposes resolutions for the following comments from the letter ballot on P802.11ba D2.0:

7 CIDs: 2044, 2166, 2205, 2465, 2743, 2744, 2818

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 D2.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGba D2.0 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** |
| 2166 | 9.4.2.292 | 48.45 | The first bit of WUR Group ID field is the starting WUR Group ID (SGID). For clarification, change the related text as follows: " The first bit of the WUR Group ID Bitmap field corresponds to bit position 0 and indicates the starting WUR Group ID (SGID)." | as per comment | Rejected – It is mentioned in D2.0 that bit position n of the WUR Group ID Bitmap field indicates whether the WUR group ID with a value equal to (SGID + n) mod 4096 is assigned to the WUR non-AP STA. Based on the above, it is clear in D2.0 that bit position 0 corresponds to the SGID. As a result, the proposed clarification by the commenter is not necessary. |
| 2744 | 30.4.3 | 64.7 | Should STAs that support VL wake up frames also obtain the group ID from the WUR Group ID List? | please clarify whether STAs supporting VL wake up frame should also obtain the group ID from the WUR group ID list? | Revised - Agreed in principle with the commenter.TGba editor, please make changes as shown in doc 11-19/0330r0 under all headings that include CID 2744. |
| 2818 | 30.4.3 | 64.10 | The most recent WUR Mode element received from the AP may not include the WUR group ID assignment. Only when the Action Type field is set to "Enter WUR Mode Response" or "Enter WUR Mode Suspend Response" and the WUR Mode Response Status field is set to "Accept", the WUR Mode element may include the WUR group ID assignment. It is better to add this condition to the "shall" statement. Otherwise, an STA may react to the reserved WUR Parameters field value by flushing its previosuly assigned WUR group ID(s). | Add the following at the end of the sentence and the full stop: ", when the Action Type field is set to "Enter WUR Mode Response" or "Enter WUR Mode Suspend Response" and the WUR Mode Response Status field is set to "Accept"". | Revised - Agreed in principle with the commenter.TGba editor, please make changes as shown in doc 11-19/0330r0 under all headings that include CID 2818. |
| 2205 | 30.4.3 | 64.43 | Clause 30.4.3 contains both the definition of WUR Group ID and some discussion of the use of the WUR Group ID. This clause should only contain the definition of the WUR Group ID. The use of the WUR Group ID should be provided elsewhere in clause 30. | As in comment. This clause should only provide the definition of the WUR Group ID. Any discussion of where the WUR Group ID is used should be provided elsewhere in clause 30. | Rejected – Clause 30.4.3 only briefly mentions how WUR group ID is used in FL WUR Wake-up frame and VL WUR Wake-up frame, which is necessary for the subsequent introduction on WUR group ID assignment in the same clause. In addition, please notice that the usage of WUR group ID is actually detailed in 9.10 (MAC frame format for WUR frames) and 30.8 (Wake-up Operation).  |
| 2743 | 30.4.3 | 64.51 | The phrase "The WUR AP shall randomly select the lowest WUR group ID of the WUR group ID space from the identifier's space" is confusing and should be rephrased. | change the phrase "The WUR AP shall randomly select the lowest WUR group ID of the WUR group ID space from the identifier's space" into "The WUR AP shall randomly select the starting value of the WUR group ID space from the identifier's space" | Accepted - TGba editor, please make changes as shown in doc 11-19/0330r0 under all headings that include CID 2743. |
| 2465 | 30.4.3 | 64.5 | The note seems to be obvious and doesn't add any useful information. | Delete the following note "NOTE--The WUR AP might assign different WUR group IDs to different WUR non-AP STAs" | Accepted - TGba editor, please make changes as shown in doc 11-19/0330r0 under all headings that include CID 2465. |
| 2044 | 30.4.3 | 64.65 | There is something missing here. The AP needs to also ensure that the group IDs assigned to the STA are consecutive. Somehow during the comment resolution this part is lost (unless it was added somewhere else). | As in comment. | Rejected-This comment seems related to the statement in D1.1 (see P50L17) that the WUR AP shall ensure that the difference between the largest group ID and the lowest group ID assigned to the WUR non-AP STA does not exceed the value indicated in the Group IDs Support field of the WUR Capabilities element sent by the WUR non-AP STA, where the comparison performed between the two identifiers is circular modulo 212*.*The above statement in D1.1 actually says the same thing as the following two statement in D2.0 (see P64L65 and P48L46): 1) The number of WUR group IDs assigned by the WUR AP to a WUR non-AP STA shall not exceed the value indicated in the WUR Group IDs Support field of the WUR Capabilities element sent by the WUR non-AP STA. 2) Bit position n of the WUR Group ID Bitmap field indicates whether the WUR group ID with a value equal to (SGID + n) mod 4096 is assigned to the WUR non-AP STA. As a result, no further action is needed. |

**Discussion:** *None.*

**Propose:** Revised for CID 2465, 2743, 2744, 2818 per discussion and editing instructions in 11-19/0330r0.

***TGba editor: Change clause 30.4.3 on P64L43 as follows***

**30.4.3 WUR Group ID**

A WUR group ID identifies a group of one or more WUR non-AP STAs and is selected from a WUR group ID space which is a subset of consecutive values obtained from the identifier’s space. A FL WUR Wake-up frame with WUR group ID in the ID field is defined as a group addressed WUR frame that is addressed to all the WUR non-AP STAs identified by that WUR group ID. A VL WUR Wake-up frame with WUR group ID in the ID field is a group addressed WUR frame that is addressed to all the WUR non-AP STAs identified by the WUR IDs included in the Frame Body field.

The WUR AP shall randomly select the starting value of the WUR group ID space from the identifier’s space and shall ensure that none of the WUR group IDs coincide with any of the WUR IDs, transmitter ID, and nontransmitter IDs (if any).(#2743)

A WUR AP may assign one or more WUR group IDs to a WUR non-AP STA if the STA has set the WUR Group IDs Support field of the WUR Capabilities element it transmits to a nonzero value and may assign a single WUR group ID to the WUR non-AP STA if the STA has set the WUR Group IDs Support subfield of the WUR Capabilities element to 0 and has set VL WUR Frame Support subfield of the WUR Capabilities element to 1; otherwise the WUR AP shall not assign a WUR group ID to the STA.

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

 (#2465)

A WUR non-AP STA that has indicated support for WUR group IDs or VL WUR frames shall obtain the assigned WUR group IDs from the WUR Group ID List subfield of the WUR Parameters field in the most recent WUR Mode element received from the WUR AP only when the Action Type field in the most recently received WUR Mode element is set to "Enter WUR Mode Response" or "Enter WUR Mode Suspend Response" and the WUR Mode Response Status field is set to "Accept". (#2744, #2818)

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