802.11ba Draft Specification

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| 11ba MAC Comment Resolution on WUR STA operation | | | | |
| Date: 2018-11-07 | | | | |
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Abstract

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

437,438

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.***

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| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 437 | 50.31 | 31.3.4 | Need to clarify more the following text:"A non-AP STA .... follow the wake up timing information (e.g., the next service period) that is  provided along with the agreed PS operation". What does that mean? I think it means that the STA can enter the doze state until the wake up timing information. Add the related text at the end of the first paragraph for clarification | Add the following text at the end of the first paragraph:  "In this case the PCR component of the STA may enter the doze state until the wake up timing information(e.g., the next service period)" | Revised –  Agree in principle with the commenter.  The texts for clarification will be added  TGba editor, please make changes as shown in doc 11-18/1872r1 under all headings that include CID 437. |
| 438 | 50.32 | 31.3.4 | Need to clarify more the following text:"A non-AP STA .... follow the wake up timing information (e.g., the next DTIM TBTT) that is  provided along with the agreed PS operation". What does that mean? I think it means that the STA can enter the doze state until the wake up timing information. Add the related text at the end of the indicated paragraph for clarification | Add the following text at the end of the third paragraph:  "In this case the PCR component of the STA may enter the doze state until the wake up timing information(e.g., the next DTIM TBTT)" | Revised –  Agree in principle with the commenter.  The texts for clarification will be added.  TGba editor, please make changes as shown in doc 11-18/1872r1 under all headings that include CID 438. |

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

* non-AP STA Operation

A non-AP STA that receives a WUR Wake-up frame addressed to itself with an indication of individually addressed buffered BU(s) shall follow existing PCR operation, which is any PS operation AP and the non-AP STA has agreed to use (e.g., baseline PM change, U-APSD, TWT, etc.), to retrieve individually addressed buffered BU(s) and follow the wake up timing information (e.g., the next service period) that is provided along with the agreed PS operation. In this case, the PCR component of the STA may be in the doze state until the time indicated by the wake up timing information (e.g., the next service period) that is provided along with the agreed PS operation.(#437)

NOTE—For example, rule b), c), and d) in 11.2.3.7 (Receive operation for STAs in PS mode) describes one operation for a non-AP STA to retrieve individually addressed buffered BU(s) using PS-Poll or U-APSD.

A non-AP STA that receives a WUR Wake-up frame with an indication of buffered group addressed BU(s) shall follow existing PCR operation, which is any PS operation that the AP and the non-AP STA has agreed to use (e.g., DTIM, FMS, etc.) to receive group addressed BU(s) and follow the wake up timing information (e.g., the next DTIM TBTT) that is provided along with the agreed PS operation. In this case, the PCR component of the STA may be in the doze state until the time indicated by the wake up timing information (e.g., the next DTIM TBTT) that is provided along with the agreed PS operation.(#438)

NOTE—For example, rule e) in 11.2.3.7 (Receive operation for STAs in PS mode) describes one operation for a non-AP STA to receive group addressed frame.

A non-AP STA with dot11WUROptionImplemented set to true shall maintain a BSS Parameter Update Counter. The STA shall update the value of its BSS Parameter Update Counter to the value of the Counter subfield contained in the latest WUR Operation element received from the AP with which it is associated. A non-AP STA that receives the Counter subfield of the TD Control field in a WUR Wake-up frame that contains a value that is different from the value of its BSS Parameter Update Counter shall follow the procedure defined in 11.2.3.15 (TIM Broadcast) to attempt to receive the Beacon information.

A non-AP STA should send a frame to the associated AP using its PCR component after receiving a WUR Wake-up frame with Address field set to the WID that identifies the non-AP STA.