### IEEE P802.11 Wireless LANs

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| 11ba D3.1 MAC Comment Resolution for Miscellaneous CIDs | | | | |
| Date: 2019-08-30 | | | | |
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Abstract

This submission proposes resolutions for comments of TGba Draft D3.1 with the following CIDs:

3028, 3138, 3141, 3095, 3174

Revisions:

* 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 D3.1 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGba D3.1 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** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 3028 | Gaurav Patwardhan | 120.27 | 29.9.2 | Consider a WUR non-AP STA operating in duty cycle mode with very small on duration compared to duty cycle period. When that STA, still in power save mode moves out of the BSS range both, the WUR AP as well as the STA preserves the state. Since the duty cycle period can be too large, usage model numbers 2 and 7 from the usage model document (11-17-0029-10-00ba-wur-usage-model-document.pptx) won't work. Timeout interval needs to have an SME-MLME interface to support these use cases. | Add an SME-MLME interface along with corresponding MIB variable for programming this timeout value. | Revised –  Have offline discussion with the commenter and clarify that the main issue from the commenter is the out of range problem between WUR non-AP STA and WUR AP. We summarize the mechanism what is added in 11ba to resolve this issue as follows.  Non-AP STA side:   * We have added recommendation in D3.1 for non-AP STA to scan if it does not receive WUR Beacon frames for a specific amount of time. (See resolution for CID 3029) * A keep alive mechanism from AP in duty cycle is added in 19/1433   AP side:   * Mechanism 11.22.13 BSS max idle period management can be used to disassociate WUR non- AP STA which is already in the spec.   TGba editor does not need to do further change. |
| 3138 | Joseph Levy | 75.10 | 9.10.2 | FL WUR has been defined as an acronym, this is not a valid acronym, and it is not correctly introduced in the draft. The Style guide calls for all acronyms for follow the spelled text. e.g. fixed-length (FL) WUR is incorrect, it should be fixed-length wake up receiver (FL WUR). But, this is incorrect as acronyms should not contain spaces. | Delete: "(FL)" and replace "FL WUR" with "fixed-length WUR" throughout the specification. | Revised –  D3.1 has revised the acronym definition by only defining FL (fixed length) rather than FL WUR.  TGba editor does not need to do further change. |
| 3141 | Joseph Levy | 75.10 | 9.10.2 | VL WUR has been defined as an acronym, this is not a valid acronym, and it is not correctly introduced in the draft. The Style guide calls for all acronyms for follow the spelled text. e.g. variable-length (VL) WUR is incorrect, it should be variable-length wake up receiver (VL WUR). But, this is also incorrect as acronyms should not contain spaces. | Delete: "(VL)" and replace "VL WUR" with "variable-length WUR" throughout the specification. | Revised –  D3.1 has revised the acronym definition by only defining VL (variable length) rather than VL WUR.  TGba editor does not need to do further change. |
| 3095 | James Lepp | 76.20 | 9.10.2.1.1 | In D3.0 the term Broadcast Addressed WUR frame is inconsistently defined. Across different sections of the draft, it is called "broadcast and group addressed WUR frame" sometimes it is "broadcast addressed WUR frame" and elsewhere it is "broadcast FL WUR Wake-up frame". That's an editorial issue that needs some cleanup. The technical issue is that there are several statements about changing counters or not based on whether the frame is broadcast addressed or not. This is not explicit because the determination of whether a WUR frame is not explicitly defined. A WUR frame can have several types of ID in it. 3 of the 4 types of ID seem to indicate that it is "broadcast addressed" but this is not explicitly stated. | Define broadcast and group addressed WUR frame as a type of frame and use that type name consistently. I recommend something like "WUR frame containing broadcast or group IDs", since the WUR system uses identifiers not addresses. | Revised –  Agree in principle with the commenter.  We add the definiftion of group addressed wake-up frame and broadcast addressed wake-up frame in  3.2 Definitions specific to IEEE Std 802.11. We clarify that among the 4 IDs defined in 9.10.2.2 ID field. Only transmitter ID and nontransmitter ID are used for broadcast addressed WUR frame.  TGba editor to make the changes shown in 11-19/1465r0 under all headings that include CID 3095. |
| 3174 | Liwen Chu | 68.11 | 9.4.2.298 | The On Duration, Duty Cycle Period should be decided by AP. | Change the parmaters from AP to include such parameters. | Rejected –  On Duration and Duty Cycle are determined by the WUR non-AP STA based on specific power save requirement.  AP has the tool to control minimum wake up duration and unit of duty cycle period to regulate the schedule of wake-up frame transmission. |

**Discussion:** *None.*

**Propose:** Revised for CID 3095 per discussion and editing instructions in 11-19/1465r0.

***TGba editor: Insert the following definitions in 3.2 Definitions specific to IEEE Std 802.11 as follows (track change on):***

3.2 Definitions specific to IEEE Std 802.11

***Insert the following definitions maintaining alphabetical order:***

**group addressed wake-up radio (WUR) wake-up frame:** A WUR wake-up frame with ID field set to group ID. (#3095)

**broadcast addressed wake-up radio (WUR) wake-up frame:** A WUR wake-up frame with ID field set to transmitter ID or nontransmitter ID.(#3095)

***TGba editor: Replace “broadcast FL” with “broadcast addressed FL” through the spec.*** (#3095)