IEEE P802.11
Wireless LANs

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| Comment resolutions for clause 4 |
| Date: 2019-06-27 |
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Abstract

This submission proposes resolutions for multiple comments related to TGba D2.0 with the following CIDs (4 CIDs):

* 3036, 3092, 3137, 3140

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 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 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** | **Comment** | **Proposed Change** | **Resolution** |
| 3036 | Gaurav Patwardhan | 30.50 | Since this amendment is being shown to provide a extreme and robust power saving mechanism for 802.11 STAs, an extra clause in 4.5 is required for the power saving capabilities providied by the WUR AP in the BSS. | As in comment | Revised –Agree in principle with the comment. Proposed resolution adds a subclause as suggested.TGba editor to make the changes shown in 11-19/1057r0 under all headings that include CID 3036. |
| 3092 | James Lepp | 28.29 | Explain "just as in the AS case" | 6 instances of "just as in the AS case" | Rejected –Agree in principle with the comment. The text has been inherited from baseline, as such it impacts specification text that is out of scope of the IEEE802.11ba amendment. The commenter is invited to submit this comment to REVmd. |
| 3137 | Joseph Levy | 25.65 | 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 –Disagree with the comment that there is inconsistency with the way abbrev. and acronyms are used in 802.11 specification. Please refer to “SPP A-MSDU” as an example of an acronym that does contain spaces. Checked REVmd and did not find any occurrence of FL as an acronym so proposed resolution is to simply define an acronym for FL. TGba editor: Please replace “FL WUR fixed-length wake-up radio” with “FL fixed-length”. |
| 3140 | Joseph Levy | 25.65 | 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 –Disagree with the comment that there is inconsistency with the way abbrev. and acronyms are used in 802.11 specification. Please refer to “SPP A-MSDU” as an example of an acronym that does contain spaces. Checked REVmd and did not find any occurrence of VL as an acronym so proposed resolution is to simply define an acronym for VL. TGba editor: Please replace “VL WUR variable-length wake-up radio” with “VL variable-length”. |

**Discussion: *None.***

**TGba Editor: *Insert the subclause below as follows (#CID 3036):***

4.5.11 Wake up radio (WUR) services

The WUR service allows non-AP STAs to have access to basic services provided by a BSS while operating at very low power. The basic WUR services that the BSS can provide to non-AP STAs include discovery, synchronization, and wake up instructions (scheduled or unscheduled).*(#3036)*

* AKM operations with a password or PSK(#2318, #2334, #2421, #2333, #2335, #2336, #2578)

***Change the 1st paragraphs as follows:***

The following AKM operations are carried out when authentication is accomplished using a Password or PSK:

* A STA discovers the AP’s security policy through passively monitoring the Beacon frames or through active probing. After discovery the STA performs SAE authentication using Authentication frames with the AP (see Figure 4-34 (Example using SAE authentication)).
* Upon the successful conclusion of SAE, both the STA and AP generate a PMK. The STA then associates to an AP and negotiates security policy. The AKM in the Association Request and Response frames is confirmed to be the AKM of SAE or of fast BSS transition.
* Thee PMK generated by SAE is used in a 4-way handshake using EAPOL-Key frames, just as with IEEE 802.1X authentication when an AS is present. See Figure 4-32 (Establishing pairwise and group keys).
* The GTK and GTK sequence number are sent from the Authenticator to the Supplicant just as in the AS case. See Figure 4-32 (Establishing pairwise and group keys) and Figure 4-33 (Delivery of subsequent group keys).

If WUR frame protection is negotiated, the WIGTK and WIPN are sent from the Authenticator to the Supplicant just as in the AS case. See Figure 4-32 (Establishing pairwise and group keys) and Figure 4-33 (Delivery of subsequent group keys).