IEEE P802.11
Wireless LANs

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| LB 200 comment resolutions for clause 8.4.2.78  |
| Date: 2014-04-03 |
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Abstract

This submission proposes comment resolutions of the CID 1108, 1109, 2083.

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 TGah Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGah Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGah Editor: Editing instructions preceded by “TGah Editor” are instructions to the TGah editor to modify existing material in the TGah draft. As a result of adopting the changes, the TGah editor will execute the instructions rather than copy them to the TGah Draft.***

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1108 | 84.32 | 8.4.2.78 | "the first two MSBs of the Max Idle Period field" --This is contradictory. Fields are shown least significant bit first. | Globally change "first two MSBs" to "two MSBs" (5 instances) | Accepted- TGah editor to make changes shown in 11-14-0575r1 under the heading for CIDs 1108,1109 and 2083 |
| 1109 | 84.37 | 8.4.2.78 | "(kTU)" -- this is not used elsewhere. | Remove cited text. | Accepted-TGah editor to make changes shown in 11-14-0575r1 under the heading for CIDs 1108,1109 and 2083 |
| 2083 | 84.60 | 8.4.2.78 | If I am not mistaken, this means (14 ones) 11111111111111 times 10000 max, in beacon intervals, which represents 54 minutes, forcing a station to wake up at least every 54 minutes. This seems to be short. A passive sensor should be able to stay dormant for days or weeks. | Suggest extending the scaling to more than 2 bits, for example 4 bits (reducing the value to 12 bits). This would allow a station to stay dormant to up to 310 days. The application layer may set a mechanism to have the station report status at regular intervals, but with this larger number the MAC Layer would not force the station to wake up, consumming energy, if it is not needed by the station functions. | Rejected-The time period of the BSSMaxIdlePeriod is specified in units of 1000 TUs which is 1s. Therefore the value of MAX Idle Period can be up to 1896 days which is enough for sensors. |

CIDs 1108,1109, 2083

**8.4.2.78 BSS Max Idle Period element**

***TGah editor: Modify the sub-clause 8.4.2.78 (Page97L48) as follows:***

The parameter BSSMaxIdlePeriod indicates the time period during which a STA can refrain from transmitting frames to its associated AP without being disassociated. When dot11S1GOptionImplemented is false, the Max Idle Period field is a 16-bit unsigned integer that contains the value of the parameter BSSMaxIdlePeriod. When dot11S1GOptionImplemented is true, the ~~first~~ two MSBs of the Max Idle Period field indicate the USF and the remaining 14 bits indicate the unscaled BSSMaxIdlePeriod value. The value of BSSMaxIdlePeriod is calculated as the unscaled BSSMaxIdlePeriod multiplied by Scaling Factor. This bit encoding is illustrated in Figure 8-43a (Bit encoding). The USF is shown in Table 8-36a (Unified scaling factor). The time period of the BSSMaxIdlePeriod is specified in units of 1000 TUs ~~(kTU)~~. The value of 0 is reserved. A non-AP STA is considered inactive if the AP has not received a data frame or management frame of a frame exchange sequence initiated by the STA for a time period equal to or greater than the time specified by the Max Idle Period field value.

***TGah editor: Globally change "first two MSBs" to "two MSBs" (5 instances)***