**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |
| --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | Proposed resolution for CID 274 |
| Date Submitted | [19 September 2012] |
| Source | [Wun-Cheol Jeong, Chang-Sub Shin, Yong-Sun Kim, Ho-Yong Kang] | Voice: [ +82.42.860.5104 ]Fax: [ ]E-mail: [wjeong@etri.re.kr] |
| Re: | [LB#83 Comment resolution proposal for CID274] |
| Abstract | Proposed resolution for CID274 LB#83  |
| Purpose | Comment resolution for LB#83 |
| Notice | This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. |
| Release | The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15. |

***CID 274***

In a DSME-enabled PAN, length of a DSME-GTS (determined by superframe order SO) should be set large enough to transmit, at least, one data frame and ACK frame. When MAC fragmentation is applied, any marginal time duration after the transmission of fragments and I-ACK frames in a DSME-GTS can be used for retransmission, if any, of failed fragments. However, if there is not enough time to retransmit fragments in the DSME-GTS, then those failed fragments can be retransmitted either in the next available CAP or next DSME-GTS.

Now, we need an indicator in what time duration is used for the retransmission.

So, what is proposed here is to add an indicator field “FragmentTxOption” to MPDU Fragment Sequence Context Description IE defined in 5.2.4.23.

In specific,

***add 1 bit for “FragmentTxOption” field in the reserved bits at the beginning of Fragment Sequence Context Description IE.***

***And add the following subclause before 5.2.4.23.1 for this field as follows:***

**5.2.4.23.x FragmentTxOption**

The FragementTxOption field shall be used in a DSME-enabled PAN with *macExtendedDSMEenabled* set to TRUE. This field indicates whether subsequent transmissions or retransmissions of fragments occur in the next available CAP or in the next DSME-GTS allocated if the transmission of fragments is not completed in a DSME-GTS. Subsequent fragments shall be transmitted or retransmitted in the next available CAP if the field is set to zero. Subsequent fragments shall be transmitted or retransmitted in the next DSME-GTS allocated if the field is set to one.