**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |  |
| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | Proposed Resolution of SB Comment on TRLE – CID i-430 | |
| Date Submitted | [13 May 2015] | |
| Source | Seong-Soon Joo [ETRI] | Voice: [ +82.42.860.6333 ] E-mail: [ ssjoo @ etri.re.kr ] |
| Re: | Response to 802.15.4rev Sponsor Ballot Consolidated Comments | |
| Abstract | Sponsor Ballot Comment Resolution for the Time-slot Relaying based Link Extension | |
| Purpose | Draft standard development | |
| 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 i-430 :

* Comment

TRLE describes activity that, by the IEEE 802 Overview and Architecture standard, occurs at layers above the MAC, either in the LLC sublayer or in the networking layer. The presently described work is out of scope. In addition, 802.15.10 is defining a complete layer 2 routing method compatible with 802.15.4 that superseded TRLE.

* Proposed Change

Delete TRLE and all associated text.

* Response to comment

TRLE is not a network protocol operated over the MAC sublayer. TRLE does not use any of service primitives provided by IEEE 802.15.4 MAC sublayer. The purpose of TRLE is not for providing mesh networking, but for extending the range of a link between PAN coordinator and a device which form a star topology. TRLE provides a MAC sublayer filtering to relay a frame from PAN coordinator to a device or vice versa. TRLE operates in MAC sublayer.

The any combination of the features of IEEE 802.15.5 or TG10 layer 2 routing can’t replace the TRLE functions. By just residing a TRLE PAN relay between the PAN coordinator and devices, transparent link connectivity is supported without additional networking overheads to an end device.

TRLE has enough features just for extending the range of a link in a star network composed of the IEEE 802.15.4 beacon-enabled devices or the IEEE 802.15.4 DSME-enabled devices.

* Resolution

Reject