**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **Proposed Comment Resolutions for CID 171** | |
| Date Submitted | 16 July 2015 | |
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| Re: | Proposed comment resolutions related to the 802.15.10 Consolidated Comment Entry Form, CID 125, 137, 130, 147, 148 | |
| Abstract | This document provides a proposed comment resolutions for the comments which are related to the security section of D1 of 802.15.10 | |
| Purpose | To propose | |
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**Comment #171**

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| **Commenter** | **Page** | **Clause** | **Line** | **Comment** | **Proposed change** |
| Tero Kivinen | 22 | 5.2.1 | 20 | There is no text how this sequence number is incremented, or whether it can wrap around etc. For the text it looks like it is static number that will never change... I would assume it would be incremented every time something changed in the network, but I have no idea what kind of changes trigger incrementing it, and who updates this. | Specify how sequence number is used. |

**Resolution: AiP**

Modify the description of the sequence number of MTT table and add text to explain how sequence number is used.

* ***Modify the text after table 1 in the clause 5.2.1 as follows:***

The L2R mesh tree formation is achieved through the propagation of the TC IEs initiated by the mesh root. The mesh root broadcast TC IE with the sequence number 0xf0 (or any value from 0xf0 to 0xff) when it starts mesh tree. The sequence number is incremented each time the tree root broadcast TC IE. The sequence number is wrapped around to 0x00 as described below.

* 0x00 – 0xef: normal operation of the sequence number and wrapped around to 0x00 after 0xef is used.
* 0xf0 – 0xff: Special operation of the sequence number to indicate that the tree root is in the initial phase and it wrapped around to 0x00 after 0xff is used.

All of nodes can find that the tree root is in the initializing phase. That is useful to find the tree root restart.

* ***Modify the description of the sequence number in table 1 as follows:***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid Range** | **Description** |
| Sequence number | Integer | 0x00 - 0xff | Set by the mesh root and incremented each sending TC IE by the mesh root. ~~and propagated. Used to know the latest tree information.~~  0xf0 – 0xff: Only used when the mesh tree starts or restarts  0x00 – 0xef: Normal operation of sequence number  Detail usage of the sequence number is described in 5.2.1 |