**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 resolution for i-107 from the sponsor ballot** | |
| Date Submitted | 8 August 2016 | |
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| Re: | 802.15.10 Consolidated Sponsor Ballot Comments, CID i-107 | |
| Abstract | Provides a proposed resolution to CID i-107 | |
| Purpose | To be used by the technical editor to apply the necessary changes to the draft to resolve CID i-107 | |
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**Comments**

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| **Commenter** | **Page** | **Clause** | **Line** | **Comment** | **Proposed change** |
| Tero Kivinen | 122 | 7.2.3 | 32 | When Dcat frame is received, I assume the L2R layer will split the frame to separate frames and will call this L2R-DATA.indication call multiple times, i.e., once for each concatenated frame. In that case some of the parameters are same for all of them and do not really relate to the only the part we are processing at that time (for example the HeaderIeList etc). | Explain how the concatenated frame receive works. |

**Resolution: Revise**

The HeaderIeList, MpduLinkQuality and Rssi were imported from 15.4. The HeaderIeList, MPDULinkQuality, Rssi are only about the last link and not the entire path. They should be deleted here and in the request primitive. Some Header IEs (Table 7-7) and Payload IEs (Table 7-15) from IEEE 802.15.4-2015 are created and delivered to the upper layers but are not relevant to L2R. There should be a way to deliver these IEs to the higher layers.

* ***Create a new primitive in 7.2 to deliver non-L2R IEs to the next higher layer as follows:***

L2R-UL-IE.indication (

PrevHopPanId,

PrevHopAddrMode,

PrevHopAddr,

HeaderIeList,

PayloadIeList

)

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PrevHopPanId | Enumeration | 0x0000–0xffff | The PAN ID of the previous hop device as found in the MHR Source PAN ID field when present. |
| PrevHopAddrMode | Enumeration | SHORT, EXTENDED | Addressing mode of the previous hop device. |
| PrevHopAddr | Address | Short address or extended address as specified by PrevHopAddrMode | Address of the previous hop as found in the MHR Source Address field. |
| HeaderIeList | - | List of header IEs from Table 7-7 in IEEE Std 802.15.4-2015 | List of header IEs not processed by the L2R sublayer |
| PayloadIeList | - | List of Payload IEs from Table 7-15 in IEEE Std 802.15.4-2015 | List of payload IEs not processed by the L2R sublayer |

* ***Insert the following text after the dashed list of 5.4***

A frame may contain header IEs or payload IEs found in IEEE Std 802.15.4-2015 (Table 7-7 and Table 7-15 respectively) that are not processed by the L2R sublayer. When the L2R sublayer receives an MCPS-DATA.indication from the MAC sublayer with IEs it cannot process, it delivers these IEs to the next higher layer with the L2R-UL-IE.indication primitive.

* ***Delete PayloadIeList from the L2R-DATA.indication primitive***
* ***Insert the following text at the end of the last paragraph on p.63, clause 5.4.1.6:***

An L2R-DATA.indication primitive is issued to the next higher layer for each concatenated frame. MeshAddressMode, MeshRootAddress, DestAddr, SecurityLevel, KeyIdMode, KeySource and KeyIndex are common to all the concatenated frames. SrcAddr in each L2R-DATA.indication primitive is set to the address retrieved from each Source Address field of the DCat IE, respectively.

* ***As there is no PAN ID field in the DCat IE, DCat should not be used with MPO. Insert the following text at the end of the seventh paragraph of 6.1.1.1:***

If MPO is set to 1, this field is set to 0 and ignored by the receiver.

* ***Move DCat after MPO in Figure 35***