**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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**Comment**

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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.

Also remove all the parameters of the MAC layer primitives from the L2R-DATA primitives

* ***Delete PayloadIeList from the L2R-DATA.indication primitive***
* ***Delete HeaderIeList, PayloadIeList, HeaderIeIdList, NestedIeSubIdList, SendMultipurpose from the L2R-DATA.request primitive***
* ***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.

* ***Move DCat after MPO in Figure 35***
* ***Insert new parameters in the L2R-DATA.indication as follows before L2rPayload:***

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| **Name** | **Type** | **Valid range** | **Description** |
| DCat | Boolean | TRUE, FALSE | Indicates whether the received frame is the concatenation of several frames, as indicated by the presence of the DCat IE. |
| NbOfDcatFrames | Integer | 1-15 | Number of concatenated frames. Ignored if DCat is FALSE. |
| SaList | List of addresses | Short addresses or extended addresses as specified by MeshAddressMode | List of the addresses retrieved from the Source Address fields of the DCat IE. Ignored if DCat is FALSE. |
| LengthList | List of integers | 0-255 | List of the length of each concatenated frame. Ignored if DCat is FALSE. |

* ***Insert the following text at the description of L2rPayload with:***

, concatenation of several payloads is DCat is TRUE.

* ***Modify the last paragraph of p.63 as follows:***

If a device is the final destination of a concatenated frame, as indicated by its address matching the address found in the Destination Address field of the L2R Routing IE, the L2R sublayer delivers the frame to the next higher layer with an L2R-DATA.indication primitive where DCat is set to TRUE. NbOfDcatFrames, SaList and LengthList are set based on the information contained in the DCat IE. L2rPayload is set to the payload of the received frame.

* ***Specify in the document that DCat is allowed only if the size of the frame is less than or equal to 255 since it is the maximum length allowed by the Length field in the DCat IE.***
* ***In the second paragraph of 5.4.1.6, replace:***

This field should be set to 0, if the data frame requires urgent transmission without the delay incurred by the DCat buffering.

***With***

This field should be set to 0, if the data frame requires urgent transmission without the delay incurred by the DCat buffering or if the length of the payload of the frame exceeds 255 which is the maximum value of the Length field of the DCat IE.