**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **Additional information on CID i-57** | |
| Date Submitted | 26 June 2015 | |
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| Re: | SCM call minutes of June 24, 2015 regarding the CID i-57 resolution | |
| Abstract | Provides additional information regarding CID i-57 | |
| Purpose | Help in the resolution of CID i-57 | |
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**Comment CID i-57**

The AckTx parameter should be included in the MCPS-DATA.indication based on the AR flag of the MHR. This information may be needed if the frame requires forwarding by an upper layer protocol using the same parameters sent in the original MCPS-DATA.request

**Motivation**

The idea behind this comment is to provide a way to the next higher layer to know whether a data frame required an acknowledgement.

In particular, regarding the ongoing effort on P802.15.10, when a device receives a frame and needs to route it through another device, it would be helpful to the L2R sublayer to know whether a data frame required a MAC acknowledgement, so that it can forward the frame with the same AR setting as intended by the original source.

The message sequence chart below shows an example of a higher layer, here the L2R sublayer, using the AckTx field in the MCPS-DATA.indication when a data frame requires an acknowledgement.



**Proposed resolution**

***Modify the semantics of the MCPS-DATA.indication as follows:***

MCPS-DATA.indication (

SrcAddrMode,

SrcPanId,

SrcAddr,

DstAddrMode,

DstPanId

DstAddr,

Msdu,

HeaderIeList,

PayloadIeList,

**AckTX,**

MpduLinkQuality,

Dsn,

Timestamp,

SecurityLevel,

KeyIdMode,

KeySource,

KeyIndex,

RangingReceived,

RangingCounterStart,

RangingCounterStop,

RangingTrackingInterval,

RangingOffset,

RangingFom,

AngleOfArrivalAzimuth,

AngleOfArrivalElevation,

AngleOfArrivalSupported,

Rssi,

)

***Insert the following entry in Table 129 after the PayloadIeList entry:***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| AckTx | Boolean | TRUE, FALSE | TRUE if acknowledged transmission was used, FALSE otherwise. |