**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 CID #180 of LB104** |
| Date Submitted | 25 May 2015 |
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| Re: | 802.15.10 Consolidated Comment Entry Form, CID #180 |
| Abstract | Provides a proposed resolution to CID #180 |
| Purpose | To be used by the technical editor to apply the necessary changes to the draft to resolve CID #180 |
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**Comment #180**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Commenter** | **Page** | **Clause** | **Line** | **Comment** | **Proposed change** |
| Tero Kivinien | 23 | 5.2.1 | 5 | As neighbor can have both short and extended address, it would be better to store both. i.e. it might send some packets using short address, and might also send some other packets using extended address. Split the Neighbor address fields to two entries, Neighbor short address and Neighbor extended address. Also in normal case we do have separate entry telling the type of the address if only one of them is present. |  |

**Resolution: AiP**

* ***Modify the semantics of the L2RLME-TREE-START.request primitive as follows:***

L2RLME-TREE-START.r.equest (

AddressingMode,

DSRouteRequired,

StoringMode,

OnDemandP2PRouteDiscovery,

PathToRoot,

SecurityMode,

MCO,

DataAggregation,

DAggBufferingTime,

MulticastSubscriptionInRAIE,

BrotherRouting,

NLEOperation,

AddrMode,

PANCoordConnection

)

* ***Insert the following row as the first row of Table 18:***

|  |  |  |  |
| --- | --- | --- | --- |
| AddressingMode | Enumeration | SHORT, EXTENDED | The address mode to be used in the L2R mesh tree |

* ***Modify the semantics of the L2RLME-JOIN-TREE.confirm primitive as follows:***

L2RLME-JOIN-TREE.confirm (

 AddressingMode,

Status

)

* ***Insert the following row as the first row of Table 23:***

|  |  |  |  |
| --- | --- | --- | --- |
| AddressingMode | Enumeration | SHORT, EXTENDED | The address mode used in the L2R mesh tree |

* ***Modify the semantics of the L2R-DATA.request primitive as follows:***

L2R-DATA.request (

~~OrgnSrcAddrMode,~~

OrgnSrcPanId,

~~FnlDestAddrMode,~~

FnlDestPanId,

FnlDestAddr,

PANBroadcast,

L2RData,

L2RDataHandle,

SecurityLevel,

KeyIdMode,

KeySource,

KeyIndex,

EntityID,

L2RReTx,

DelayCritical,

GuaranteedTx,

DataAgg,

TTL,

RL,

E2E AR

)

* ***Remove the OrgnSrcAddrMode and FnlDestAddrMode rows from Table 31.***
* ***Insert the following text at the end of the clause 5.1.1.1***

A unique address mode should be used in the L2R mesh tree, set by the L2R mesh root as indicated by the AddressingMode in the L2RLME-TREE-START.request primitive. If short addressing is to be used in a L2R mesh tree and is not managed by a higher layer, the short addresses should be managed according to the process described in 5.1.2.,5 and the corresponding L2R mesh root should have a direct connection with the PAN coordinator.

The use of two addressing modes within the same L2R mesh tree may require a mapping between the short addresses and the EUI-64 that is out of the scope of this document.

* ***Insert the following text at the end of the clause 5.1.2.1***

If short addressing is used in the L2R mesh tree found and the device does not have a short address assigned yet and short address assignment is not managed by a higher layer, the device should perform to the short address assignment procedure described in 5.1.2.5.