**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 CID3109 from LB116** | |
| Date Submitted | 17 March 2016 | |
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| Re: | 802.15.10 Consolidated Comment Entry Form, CID3109 | |
| Abstract | Provides a proposed resolution to CID3109 | |
| Purpose | To be used by the technical editor to apply the necessary changes to the draft to resolve CID3109 | |
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**Comment**

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| --- | --- | --- | --- | --- | --- |
| **Commenter** | **Page** | **Clause** | **Line** | **Comment** | **Proposed change** |
| Don Sturek | 62 | 6.1.2 | 8 | What value does a service of "Data Collection" provide? I would have imagined that a device cares about what type of data is being collected. I would think every application would be looking for a specific data collection site and not a generic one. What if my device finds several meshes each advertising "data collection". How would it choose? | Is "data collection" adctually a viable service stand alone? |

**Resolution: Revise**

As discussed, we need a way to uniquely identify a mesh, to ensure that a device joins the appropriate mesh, especially if multiple meshes provide the same services. The services available are specific to the mesh and known to the higher layer of the joining device.

* ***Add new field "Mesh ID" in the L2R-D IE formatted as:***

|  |  |  |
| --- | --- | --- |
| **Bits: 0-3** | **4-7** | **Octets: Variable** |
| Length | Reserved | ID |

The Length field indicates the length of the ID field in octets and is encoded as an unsigned integer.

The ID field is a string identifying the L2R mesh and is encoded in UTF-8.

* ***Remove*** MeshRootAddress ***and*** MeshAddressMode ***from L2RLME-PAN-SCAN.request.***
* ***Insert a new parameter in the semantics of the L2RLME-PAN-SCAN.request defined as follows:***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| MeshID | String | Any string | Identifies the mesh to discover |

If the MeshID is a NULL string, the device should discover and return all the existing meshes in the ScanResultList.

* Otherwise, the device returns either a Status SUCCESS or MESH\_NOT\_FOUND and the ScanResultList with one entry corresponding to the mesh of interest. ***In Table 20, replace “NO\_DESIGNATED\_MESH” with “MESH\_NOT\_FOUND”***
* ***Modify the second paragraph of p.85 as follows:***

If the L2R mesh indicated in the request primitive is not found, a MESH\_NOT\_FOUND Status is returned. A MESH\_NOT\_FOUND Status means that the mesh identified by MeshID was not found, but does not necessarily mean that there is no other mesh.

* ***Insert a new parameter in the scan result in Table 21 as follows:***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| MeshID | String | Any string | Identifies the mesh from which the L2R-D IE was received |

* Modify the discovery process based on the use of MeshID instead of MeshRootAdress.