**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **Comment resolution for CID #192, 332, R62, R174, R211 of LB104** | |
| Date Submitted | 1 June 2015 | |
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| Re: | 802.15.10 Consolidated Comment Entry Form, CID #192, 332, R62, R174, R211 | |
| Abstract | Provides a proposed resolution to CID #192, 332, R62, R174, R211 | |
| Purpose | To be used by the technical editor to apply the necessary changes to the draft to resolve CID #192, 332, R62, R174, R211 | |
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**Comment #192, 332, R62, R174, R211**

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Clause** | **Line** | **Comment** | **Proposed change** |
| 190 | Don Sturek | 23 | 5.2.1 | 40 | "List of reachable destinations" - For the mesh root, is this a description for every device in the network? Simiarly, for any router in the L2 mesh, isn't this every Entity ID in the network? Potentially, this is a very large list in every router. | Describe how this is not an "order n" list for every router in the network (where n is the number of routable destinations). For example, in a smart metering applications, wouldn't this be every meter in the network? |
| 332 | Don Sturek | 54 | 6.2.1.2 | 25 | The Entity ID List field only permits up to 8 values. Earlier in the document, applications like smart metering and smart cities are listed. Many of these applications will have up to 10,000 devices in a single PAN with 50 or so neighbors per device. Limiting the Entity ID List to just 8 seems confining. | Either expand the Entity ID List or explain how this allows for scaling to 10 of thousands of devices with 50 or so neighbors without limiting the route destination to just 8 devices in the network |
| R62 | Charlie Perkins | 17 | 5.1.2.2 | 28 | EntityID is undefined | define term |
| R174 | Charlie Perkins | 54 | 6.2.1.2 | 22 | identifier space needs more description and specification | Provide text about ID space. Is it a registry? |
| R211 | Charlie Perkins | 62 | 6.2.6.2 | 49 | "Entity ID field identifies an entity" | This might require a registry of EntityIDs |

**Resolution: AiP**

There seems to be confusion other the term “Entity”. Modify the draft based on the instructions below:

* ***Replace all occurrences of “Entity” or “external entity” with “Service”***
* ***Replace all occurrences of “EntityID” with “ServiceID”***
* ***Insert the following definition in clause 3.1 after the definition of “path quality metric”:***

**service:** system addressing a requirement or a demand of a PAN or of an application such as an internet gateway service, a data collection service, a control service, etc.

* ***Modify the mesh root definition as follows:***

**mesh root**: Device with the depth 0 in a L2R mesh tree providing connectivity that may enable access to a service. ~~It may act as a gateway connecting to an external entity or service.~~

* ***Modify the first paragraph of clause 4.2 as follows:***

A L2R mesh tree operates within a PAN in a mesh tree topology. A L2R mesh tree has a mesh root which may enable access to a service such as a data collection service or a control and monitoring service. The mesh root acts as the controller of the L2R mesh tree, defines the functionalities and the metrics in use in the L2R mesh tree, and may be located in the PAN coordinator or in a full-function device (FFD).

* ***Insert the following text at the end of clause 6.2.1.2:***

The Service ID field may take one of the values listed in Table xxx.

**Table xxx: Service identifier values**

|  |  |
| --- | --- |
| **Service ID** | **Service name** |
| 0x00 | Connectivity |
| 0x01 | Internet |
| 0x02 | Data collection |
| 0x03 | Control and monitoring |
| 0x04~0x05 | Vendor specific |
| 0x06~0xff | Reserved |