**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 r01-48 from the sponsor ballot recirculation** | |
| Date Submitted | 17 September 2016 | |
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| Re: | 802.15.10 Consolidated Sponsor Ballot Comments, CID r01-48 | |
| Abstract | Provides a proposed resolution to CID r01-48 | |
| Purpose | To be used by the technical editor to apply the necessary changes to the draft to resolve CID r01-48 | |
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**Comments**

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| **Commenter** | **Page** | **Clause** | **Line** | **Comment** | **Proposed change** |
| Tero Kivinen |  | 5.2.1 |  | table 5, it would make it much easier to understand where things come out if there would be column telling which IE contains the information. Also the spellings are inconsistent with the normal CamelCase, here you have spaces and more uppercase letters:  Mesh Id Encoding -> MeshIdEncoding L2R-D IE Mesh Id -> MeshId L2R-D IE Mesh address mode -> MeshAddressMode L2R-D IE, TC IE Mesh root address -> MeshRootAddress L2R-D IE, TC IE MSN -> Msn TC IE SSPAN -> Sspan L2R-D IE Local NT -> LocalNT - PanC DC -> PanCDc L2R-D IE Metric ID -> MetricId TC IE LQT -> Lqt TC IE My PQM -> MyPqm TC IE L2R max depth -> L2rMaxDepth TC IE My depth -> MyDepth TC IE Key exchange mode -> KeyExchangeMode L2R-D IE DCat -> Dcat L2R-D IE DCat buffering unit -> DcatBufferingUnit TC IE DCat buffering time -> DcatBufferingTime TC IE MultiPAN operation -> MultiPanOperation L2R-D IE RA IE Required -> RaIeRequired L2R-D IE Storing mode -> StoringMode L2R-D IE L2R multicast -> L2rMulticast L2R-D IE On-demand P2P route discovery ->OnDemandP2pRouteDiscovery L2R-D IE P2P path list -> P2pPathList -  This would also make the entries to have same names as parameteris to the L2RLME-MESH-START.request. |  |

**Resolution: Revise**

* ***Modify table 5 as follows:***

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| --- | --- | --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** | **IE** | **Condition to record** |
| Mesh ID encoding | ENUMERATION | UTF-8, UNSPECIFIED | Specifies the encoding of Mesh ID. | L2R-D IE | M |
| Mesh ID | String | Any string | L2R mesh identifier. | L2R-D IE | M |
| Mesh address mode | Enumeration | SHORT, EXTENDED | Indicates the address mode used in the mesh. If SHORT, short addresses are used. If EXTENDED, extended addresses are used. | L2R-D IE, TC IE | M |
| Mesh root address | Address | Short or extended address as specified by Mesh address mode | Address of the mesh root of the L2R mesh | L2R-D IE, TC IE | M |
| MSN | Integer | 0x00 - 0xff | Identifies the latest TC IE, used as described in 5.2.1. | TC IE | M |
| SSPAN | Boolean | TRUE, FALSE | Indicates whether the L2R mesh is an SL2R mesh. | L2R-D IE | M |
| Local NT | — | As specified in Table 6 | Table of neighbors belonging to the mesh indicated by Mesh root address. | — | M |
| PanC DC | Boolean | TRUE, FALSE | Indicates whether the mesh root has a direct connection to the PAN coordinator. (See example in Figure 1 or Figure 2). | L2R-D IE, TC IE | M |
| Metric ID | Integer | 0x0 - 0xf | Identifies the metric in use in the mesh. The metric identifier values are listed in Table 15 in 6.1.2.11. | TC IE | J |
| LQT | Depends on the metric ID | Depends on the metric ID | Indicates the threshold of the metric that a link shared with a next hop should satisfy. | TC IE | J |
| My PQM | Depends on the metric ID | Depends on the metric ID | Value of the metric of the current device. | — | J |
| L2R max depth | Integer | 0x00 - 0xff | Indicates the maximum depth allowed in an L2R mesh. | TC IE | M |
| My depth | Integer | 0x00 - 0xfe | Depth of the current device. | — | J |
| Key exchange mode | Integer | 0x00 - 0x02 | As described in Table 12 in 6.1.1.1. | L2R-D IE | M |
| DCat | Boolean | TRUE, FALSE | Indicates whether DCat is allowed in the L2R mesh. | L2R-D IE | J |
| DCat buffering unit | Enumeration | 20 MILLISECONDS, SECOND, MINUTE, HOUR | Indicates the unit of the DCat Buffering time. | TC IE | J |
| DCat buffering time | Integer | 0x00-0x3f | Duration a frame may be buffered for DCat in the unit indicated by DCat buffering time. | TC IE | J |
| Multi-PAN operation | Boolean | TRUE, FALSE | Indicates whether MPO is used. | L2R-D IE | M |
| RA IE Required | Boolean | TRUE, FALSE | Indicates whether all devices are required to send a Route Announcement (RA) IE to build downstream routes. | L2R-D IE | M |
| Storing mode | Boolean | TRUE, FALSE | Indicates whether the L2R mesh is in storing mode. | L2R-D IE |  |
| L2R multicast | Boolean | TRUE, FALSE | Indicates whether multicast routing is handled by the L2R sublayer and RA IEs may optionally contain a Multicast Subscription field. | L2R-D IE | M |
| On-demand P2P route discovery | Boolean | TRUE, FALSE | Indicates whether on-demand P2P discovery is allowed in the L2R mesh. | L2R-D IE | M |
| P2P path list | List of P2P paths | List of the elements of a P2P path defined in Table 7 | List of P2P paths available through the current neighbor. Omitted if on-demand P2P route discovery or storing mode are disabled. | P2P-RQ IE, P2P-RP IE | P |