**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | 802.15 TG10 (L2R) Comment Resolution for CIDs #3145 | |
| Date Submitted | [17 March 2016] | |
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| Re: | [TG10 (L2R) comment resolution.] | |
| Abstract | This document provides comment resolutions for comments CID #3145 related to metric definitions and mesh configuration parameters | |
| Purpose | [TG10 (L2R) comment resolution to produce next draft.] | |
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**Comments #3063, #3064, #3096, #3101, #3102**

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| 3145 | Don Sturek | SSNI | all |  |  | So far, I find US/DS routing, P2P routing, sibling routing, multicast routing, TMCTP and service routing. It would really help to have some explanation at the top as to what works with what. For example see Figure 31. Conceptually, I think some of these fields cant be set with others (eg, mesh address mode must be long for TMCTP, P2P Route Discovery and Storing Mode don't seem to go together). It would be great to see these different routing modes better defined and then a clear picture from Figure 31 as to the allowable operating modes | Help clarify what works with what. Seems like P2P and multicast routing don't have anything to do with one another (is that right?). It seems that P2P and US/DS are orthogonal. Seems like MCO works only with US/DS (right?). Not clear you can use TMCTP with P2P (is that even possible?). |

**CID 3145:**

Discussion about interrelationships between US/DS routing, P2P routing, sibling routing, multicast routing, TMCTP and service routing.

Here, higher-layer operation is not considered.

So, multicast routing means multicast at layer 2.

Sibling routing is a possible feature of US/DS routing, and so is not used for multicast routing or P2P routing.

Multicast routing can use US/DS routing or P2P routing

US/DS routing is always available.

P2P routing can be used in addition to US/DS routing.

P2P routing can be used in storing mode or non-storing mode.

Service routing ... ? If all services are accessible by the mesh root,then service routing is a subset of US routing.

Multicast routing should be allowed for storing-mode P2P. Non-storing?

TMCTP operation is a particular kind of MCO operation. Does it require long address mode?

**Bits: 0 1 2 3 4 5 6 7-8 9 10 11-13 14-15**

* Mesh Address Mode
* Small Scale PAN
* PAN Coord Connection
* Storing Mode
* RA IE Required
* DCat
* L2R Multicast
* Key Exchange Mode
* On-Demand P2P Route Discovery
* MCO
* Number of Services
* Reserved

**Figure 31—Format of the Descriptor field of the L2R-D IE**