**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **Contribution to the comment resolution for CID 3145 from LB116** | |
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| Re: | Document 15-16-0299-02 | |
| Abstract | Contributes to the resolution to CID 3145 | |
| Purpose | To be used by the technical editor to apply the necessary changes to the draft to resolve CID 3145 | |
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* ***Insert the following new table in 4.4.***

**Table xx: Routing and features interdependencies?? (caption needs to be refined depending on the text to be** added in 4.4.2)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Routing | | | | |
| Unicast | | | Multicast | Broadcast |
| US (Y) | DS (Y) | P2P (O) |
| RE1 | TC IE based route establishment | Y | N | N | N | N/A |
| RE2 | RA IE based route establishment | N/A | SM1: O  5.2.4  SM2: Y | N/A | Y  5.2.6 | N/A |
| RE3 | L2R Routing IE based route establishment | N/A | SM1: N  SM2: Y  5.2.4 | N | N | N/A |
| SM1 | Storing mode | N/A | O.1  5.2.4.1 | O.2  5.2.7.1 | O | N/A |
| SM2 | Non-storing mode | N/A | O.1  5.2.4.2 | O.2  5.2.7.2 | N | N/A |
| R1 | Source routing | N/A | SM1: N  SM2: Y, 5.4.1.1 | SM1: N  SM2: Y, 5.4.1.1 | N/A | N/A |
| R2 | Hop-by-hop routing | Y  5.4.1.2 | SM1: Y, 5.4.1.2  SM2: N | SM1: Y, 5.4.1.2  SM2: N | SM1:Y  5.4.2  SM2: N | Y  5.4.3 |
| RvS | Routing via Sibling (RvS?) | O  5.4.1.2 | O.u  5.4.1.2 | N | N | N/A |
| MPO | Multi PAN operation (TMCTP) | O  5.4.1.3 | | | N | Y |
| E2EA | End to end acknowledgment | O  5.4.1.5 | | | N | N |
| DCat | Data concatenation | O  5.4.1.6 | | | N | N |
| HbHR | Hop-by-hop retransmission | O  5.4.1.4 | O  5.4.1.4 | O  5.4.1.4 | N | N |

Y: the feature should be used with the routing mode

N: the feature should not be used with the routing mode

N/A: the feature is not relevant to the routing mode

O: the feature is optional with the routing mode

O.1, O.2: either one of these features should be used with the routing mode

O.u: the feature is used with the routing mode if it is used for US routing

Feature: Y/N: usage depending on whether Feature is implemented

* ***Create a new subclause “5.4.3.1 General case” with the first 3 paragraphs of 5.4.3***
* ***Insert a new subclause as follows:***

**5.4.3.3 Broadcast routing with MPO**

Broadcast routing in an MPO environment is performed as described in 5.4.3.1 or 5.4.3.2 if indirect transmission is enabled by all devices. In addition, each PAN coordinators, with the exception of the SPC, should broadcast a frame on its own channel and on the channel of its parent PAN.

* ***Add a new acronym RvS: Routing via Sibling***
* ***Replace Sibling routing with RvS throughout the document***