**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 Resolutions for 2346** |
| Date Submitted | 20 Jan 2016 |
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| Re: | Proposed comment resolutions related to the 802.15.10 Consolidated Comment Entry Form, CID #2346 |
| Abstract | This document provides a proposed comment resolutions for the comments which are related to indirect transmission forwarding of D3 of 802.15.10 |
| Purpose | To propose |
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1. **CID#2346**

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| 2346 | Noriyuki Sato | OKI |  |  |  | Clarify indirect tranmission when the broadcast or the multicast is used with non beacon enabled mode in 5.4. In many implementation, the parent performs multiple unicast transmissions for RFD using indirect transmission when it forwards MC or BC frame.  | Add a sub clause to explain how the indirect transmission for the non beacon enabled mode is managed by the L2R layer. |

**AiP**

Add a new section 5.4.3.1 ‘Broadcast routing with indirect mode transmission in non-beacon enabled PAN with following description.

In the IEEE Std 802.15.4-2015, a broadcast transmission with indirect transmission for non-beacon enabled PAN is not specified, therefore L2R broadcast transmission should be diverted to multi-unicast indirect transmission to send an L2R broadcast frame to each RFD. An L2R broadcast frame contains broadcast short address or 64-bit broadcast address as the destination address in MHR However, in the indirect transmission from FFD to RFD a unicast address of RFD is used as a destination address in MHR. That may cause mismatch of address modes between MHR and Routing IE and it requires to change a destination address when SLR IE specified in 6.1.7 is used since SLR IE doesn’t contain address mode and addresses in SLR IE are assumed to use same address modes with ones in MHR (e.g. it happens when EUI64 is used in the mesh routing and broadcast short address is used in MAC layer.). To avoid mismatch of address modes, L2R layer of FFD which performs indirect transmission to RFD should change the address mode of the destination address in SLR IE to match it to the one in MHR by using same broadcast address in MHR. It may be performed by using unicast address of RFD in same address mode in MHR (same destination addresses in MHR and SLR IE) if the NHL has a functionality to know that frame is intended to broadcast even with that change in SLR IE.