**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **LB213 - CRs for Miscellaneous MMS Comments** | |
| Date Submitted | May 2025 | |
| Sources | Rojan Chitrakar, Lei Huang (Huawei)  [rojan.chitrakar@huawei.com](mailto:rojan.chitrakar@huawei.com) |  |
| Re: |  | |
| Abstract |  | |
| Purpose | To propose resolution for “P802.15.4ab™/D02 Draft Standard for Low-Rate Wireless Networks” | |
| Notice | This document does not represent the agreed views of the IEEE 802.15 Working Group or IEEE 802.15.4ab Task Group. It represents only the views of the participants listed in the “Sources” field above.It is offered as a basis for discussion and is not binding on the contributing individuals. The material in this document is subject to change in form and content after further study. The contributors reserve the right to add, amend or withdraw material contained herein. | |

Rev 0: Initial version: 4 CIDs

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| **Name** | **Index#** | **Pg** | **Sub-Clause** | **Ln** | **Comment** | **Proposed Change** | **Disposition** |
| VERSO, BILLY | 422 | 71 | 10.39.3.6 | 49 | Says "listen … in the initialization slot at the end of the CAP", which could mean the the final slot of the cap, but figures show this coming after the CAP, . | Change to say "slot immediately following the CAP" | Revise |

**Proposed text changes on P802.15.4ab™/D02:**

**10.39.3.6 Contention-based initialization setup handshake**

***Modify the subclause as follows (Track changes ON)***

…

Upon the reception of the Advertising Poll Compact frame any intended responder with the intention to start a ranging session with the initiator shall randomly select one of the initialization slots in the CAP and transmit an Advertising Response Compact frame at the beginning of the selected initialization slot. The responder may request a specific ranging mode by including the MMS Ranging Mode field in the Advertising Response Compact frame. Each responder that has transmitted an Advertising Response Compact frame shall listen for an Advertising Confirmation Compact frame or a Start of Ranging Compact frame in the initialization slot immediately following the CAP.

…

Page 72 Line 10

If only a single responder is selected for one-to-one ranging and coordination is inactive, the initiator shall send a Start of Ranging Compact frame to the selected responder in the initialization slot immediately following the CAP with the RPA Hash field of the Start of Ranging Compact frame calculated as specified in 10.39.11.1.2.1 12 using the responder's IRK.

…

Page 73 Line 4

If only a single responder is selected for one-to-one ranging and coordination is active, the initiator should send an Advertising Confirmation Compact frame to the selected responder in the initialization slot immediately following the CAP to indicate the time offset between the start of the Advertising Confirmation Compact frame and the start of a following Start of Ranging Compact frame, during which the initiator may attempt to capture the…

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| **Name** | **Index#** | **Pg** | **Sub-Clause** | **Ln** | **Comment** | **Proposed Change** | **Disposition** |
| VERSO, BILLY | 544 | 114 | 10.39.11.3.3 | 3 | the term "eligible responder" is used here (also appears later in te std in 6 places), but it is not really explained. Maybe we don't need the word "eligible" here at all. | Explain what it is or delete word "eligible", in ALL SIX places that "eligible responder" is used, i.e., change all six to simple "responder". | Revise |

**10.39.11.3.3 Advertising Confirmation Compact frame**

***Modify the subclause as follows (Track changes ON)***

…

The Initiator RPA Hash field shall be calculated as specified in 10.39.11.1.2.1 using IRK of the initiator. Note that if the Message Content field contains one or more Responder Address fields, each Responder Address in the Message Content field shall represent a responder's RPA Hash field value generated using the initiator's RPA Prand field value from the preceding Advertising Poll Compact frame along with the IRK of the responder.

**10.39.11.3.9 One-to-many Poll Compact frame**

***Replace “an eligible responder's” with “a responder's” at the following 5 locations:***

***Page125Line3, Page 126Line9, Page 128Line3, Page129Line13, Page130Line10***

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| **Name** | **Index#** | **Pg** | **Sub-Clause** | **Ln** | **Comment** | **Proposed Change** | **Disposition** |
| PAKROOH, POORIA | 244 | 145 | 10.39.11.3.22 | 1 | Please clarify that round needs to be interger multiplication of slot duration. | Add this sentence in the description of Round duration: "This needs to be an integer multiple of slot duration." | Reject  It is stated in 10.39.11.1.3.9 that round duration is encoded in units of ranging slots. |
| PAKROOH, POORIA | 245 | 146 | 10.39.11.3.22 | 1 | Please clarify that this needs to be interger multiplication of round duration. | Add this sentence in the description of Block duration: "This needs to be an integer multiple of Round duration." | Reject  It is stated in 10.39.11.1.3.9 that block duration is encoded in units of ranging rounds. |

Discussion:

Cited sub-clause is wrong, the comment is for below entries of Table 31—MMS related MAC PIB attributes





