**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/D02 comment resolution -- CID 16 and 17** |
| Date Submitted | July 28, 2025  |
| Sources | Alex Krebs (Apple)krebs @ apple.com |
| Re: |  |
| Abstract |  |
| Purpose | To propose resolution for MMS related comments 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. |

# CID 16, 17

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| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Index #** | **Page** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** |
| Aldana, Carlos | 16 | 106 | 10.39.11.1.3.10 | 2 | 4 octets seems excessive. Can we make it more compact? | Change resolution to a larger value |
| Aldana, Carlos | 17 | 106 | 10.39.11.1.3.11 | 7 | 4 octets seems excessive. Can we make it more compact? | Change resolution to a larger value |

Discussion: We can reduce the resolution to 1us here and then save one octet. As per Riku's recommendation, the resolution should better be a multiple of the chip rate. Such proposal for the timing offset value step could be 2.5 us (3 RSTU). E.g., with NB chip rate of 2 MHz and UWB chip rate of 499.2 MHz the smallest time duration for chip rates to match is 2.5 µs (5 x 1/2MHz or 1248 x 1/499.2MHz). Text revision below is changed accordingly to 2.5 µs.

Proposed resolution: Revised.

Disposition detail: Instruction to editor: Apply the following changes:

**10.39.11.1.3.10 The Time Offset field**

This is a three-octet field that specifies the time offset in 2.5 µs resolution between the first

symbol of the Start of Ranging Compact frame, or the Public Start of Ranging Compact frame, and the first

symbol of the subsequent poll frame starting the ranging session. A value of 300 ms or less is recommended

for this field to limit packet arrival time uncertainty for the responder device.

**10.39.11.1.3.11 The SOR Time Offset field**

This is a three-octet field that specifies the time offset in 2.5 µs resolution between the start of

the Advertising Confirmation Compact frame, or the Public Advertising Confirmation Compact frame, and

the start of the Start of Ranging Compact frame.

Instruction to editor: Change the number of octets in the table headers from 4 to 3 on page 114 in Figures 78 and 80, on page 115 Figure 82, on page 116 Figure 83, page 117 Figure 84, and page 137 Figure 128.