**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | D02 Miscellaneous Comment Resolutions V | |
| Date Submitted | 11 July 2025 | |
| Source | Billy Verso (Qorvo), | billy dot verso at qorvo dot com |
| Re: | IEEE P802.15.4ab | |
| Abstract | Comment Resolutions for selected comments on the LB213 / P802.15.4ab D02. | |
| Purpose | This document provides text changes intended to be part of the final IEEE Std 802.15.4ab (amendment to IEEE Std 802.15.4), as part of resolving selected comments from the consolidated spreadsheet (DCN 15-25-0174) that have been assigned to the author to resolve. | |
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| Comments addressed here: |

[1 Comment Index #s 266, 267, 268, 269 and 270 2](#_Toc200729251)

1. **Comment Index #s 266, 267, 268, 269 and 270**

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| **Ind** | **Pg** | **clause** | **line** | **Comment** | **Proposed Change** |
| 266 (Riku) | 80 | 10.39.4.1 | 2 | In case of UWB driven MMS, the MMS UWB packet has SYNC+SFD fragment, which can be used to estimate carrier frequency offset. Sending separate Poll and Control packets is not always needed and in that case control phase duration can be set to 0 to indicate that there are no separate physical poll and response frames. | Add text: In case of UWB driven MMS the SYNC+SFD fragment of UWB MMS packet can be used for carrier frequency offset estimation. If there is no other reason to send a dedicated poll and response frame, macMmsRcpPollNSlots and/or macMmsRcpRespNSlots can be set to 0 to indicate zero length control phase and the SYNC+SFD fragment of the UWB MMS packet serves as the poll or the response. |
| 267 (Riku) | 105 | 10.39.11.1.3.9 | 7 | The minimum value for macMmsRcpPollNSlots can be 0 | change the range from 1 - 15 to 0 - 15 |
| 268 (Riku) | 105 | 10.39.11.1.3.9 | 10 | The minimum value for macMmsRcpRespNSlots can be 0 | change the range from 1 - 15 to 0 - 15 |
| 269 (Riku) | 145 | 10.39.12 | 1 | The minimum value for macMmsRcpPollNSlots can be 0 | Change the value range for macMmsRcpPollNSlots to 0 - 15 |
| 270 (Riku) | 145 | 10.39.12 | 1 | The minimum value for macMmsRcpRespNSlots can be 0 | Change the value range for macMmsRcpRespNSlots to 0 - 15 |

**Discussion:**

The MMS ranging protocol specification requires a control phase where poll and response frames are sent, and by definition “UWB Driven” means UWB is used for control phase frames. For the ranging control protocol then, neither *RespNSlots* nor *PollNSlots* values can validly have a value of zero.

The draft does envisage that there could be OOB schemes employed where just the MMS UWB packet specification applies, but for such OOB schemes the protocol and its variables are outside the scope of the standard.

For all five of these comments the same resolution applies as follows:

**Proposed Disposition:** Rejected.

**Disposition Detail:** The control phase is always necessary in both NBA and UWB Driven modes of operation. Zero is not a valid value for parameters defining the control phase duration.

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