**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **Resolution to CIDs 82, 83, 84, 270, 896, 897 for 15.4ab Draft 1.0** |
| Date Submitted | February 2025 |
| Sources | Pooria Pakrooh (Qualcomm)  |  |
| Abstract | Resolution to comments: 82, 83, 84, 270, 896, 897 |
| Purpose | To propose comments resolution for “P802.15.4ab™/D (pre-ballot) C 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. |

***Comment Indices 82, 83 and 84 in 15-24-0371-13-04ab-consolidated-comments\_draft\_1.0***

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| **CID** | **Name** | **Sub-Clause** | **Page** | **Line** | **Comment** | **Proposed Change** |
| 82 | Mickael Maman | 10.39.6.1 | 137 | 23 | the default duration of ranging block shall be aligned with MAC PIB in Table 20. (i.e. 1209600 RTSU/16800 RSTU = 72 rounds per block) | When the Block Duration field is not present, the ranging block shall have a default duration of 72 ranging rounds. |
| 83 | Mickael Maman | 10.39.6.1 | 137 | 26 | the default duration of ranging round shall be aligned with MAC PIB in Table 20. (i.e. 16800 RTSU/ 600 RSTU = 28 slots per round) | When the Round Duration field is not present, the ranging round shall have a default duration of 28 ranging slots. |
| 84 | Mickael Maman | 10.39.6.1 | 137 | 28 | the default duration ofranging slot shall be aligned with MAC PIB in Table 20. (i.e. 600 RTSU) | When the Slot Duration field is not present, the default ranging slot duration shall be600 RSTU. |

**Discussion:** The default PIB values for the number of rounds in a block, and number of slots in a round in Table 20 seem rather arbitrary. But I agree with the commenter that the values specified here should not be different from the default values for the PIB attributes.

**Resolution: Accepted**

***Comment Indices #270 in 15-24-0371-13-04ab-consolidated-comments\_draft\_1.0***

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| 270 | Li-Hsiang Sun | 10.39.6.2 | 154 | 28 | How RSSI value for an aggregated report is acquired/claculated?  | Please clarify |

**Discussion:** For the frequency stitching feature, when an aggregated CIR report is generated, the draft does not specify how the value of RSSI field is determined. A natural way for this scenario is to report the average RSSI value, so that the length of the CIR report is not extended and still providing a reasonable estimate of the signal strength at different channels.

**Resolution: Revised**

**Notes to the Editor:**

Change page 55 line 11 as below:

“The RSSI field is a measure of the received signal strength at the antenna for the received sequence used to generate this Receive Report field, e.g., for a SENS segment being received via a particular antenna. RSSI is represented as one octet integer. The RSSI minimum and maximum values are 0 (-174 dBm) and 254(80 dBm), respectively. 255 is reserved. If any measured value is less than -174 dBm, the reported value shall be rounded up to -174 dBm. In the case of frequency stitching where an aggregated channel report is generated, the RSSI field represents the average of received signal strength values for the channels.”

***Comment Indices #896 in 15-24-0371-13-04ab-consolidated-comments\_draft\_1.0***

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| 896 | Carl Murray | 10.39.6.1 | 141 | 3 | Since there was some interest in smaller MSR values, and none in larger ones, the values reserved for future use should be 0 and 1, rather than 6 and 7, to make any future use of these more logical. | In Table 27 make field values 2 to 7 cover the range 32 to 256, and field values 0 and 1 be the reserved ones. |

**Resolution: Accepted**

***Comment Indices #897 in 15-24-0371-13-04ab-consolidated-comments\_draft\_1.0***

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| 897 | Carl Murray | 10.39.6.1 | 141 | 7 | To allow for potential future use cases the STS SegmentLength field, should be a 3-bit field. Taking the Reserved bit shown in Figure 149. | In Figure 149, make the STS Segment Length field ocupy bits 22 to 24, renumbering following next fields as appropriate, and removing the reserved bit). And, update Table 28 so valies with 0 and 1 reserved, values 2 to 5 mapping to fragment lengths 32, 64, 128, 256, and vaues 6 and 7 reserved. |

**Resolution: Rejected**

There are no other accepted proposals in 4ab for the STS segment length field, other than 4 values specified in Figure 149. Therefore, at this moment, it is sufficient to allocate two bits to a field with 4 possible values.