**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 Resolution for Comments #52,54,228** |
| Date Submitted | October 26, 2023 |
| Sources | Carlos Aldana (Meta)  |  |
| Re: |   |
| Abstract |  |
| Purpose | To propose resolution to some comments for “P802.15.4ab™/D (pre-ballot) B 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 Index #52 15-23-0475-22-04ab-cc-consolidated-comments***



**Discussion**: If two or more devices associate with the same short address in the same round, controller should let them retry with different short addresses. A cause can be specified in the Association Response so that the controlee can know to generate another short address and retry.

**Resolution:**

Note to Editor : In Section 10.37.3, please add the following text in green and remove the text shown in red:

When the controller sends the HRP UWB Association Response command with the Association Status field set to 0x00 or 0x02, the Association Response command from the controller shall contain the Session Configuration field. When the ~~same short address with the~~ short address chosen by the controlee already exists, the controller may send Association Response command with the Association Status field set to 0x02 to update the short address for the controlee. When the Association Status field is set to 0x02, the Association Response command shall contain the Updated Short Address field whose value is unique in the session. When two or more controlees send an Association Request with the same short address in the same round, the controller should send an Association Response command with the Association Status field set to 0x04 to inform the controlees to try again with a different short address.

Add a row with Association Status = 4 to Table 19 that says “Association denied because duplicate short addresses requested. Try again with a different short address.” and change the Reserved values to 5-255.



Note to Editor: Please modify the sentence in the draft as shown below

The controller may deny the association request based on capability information, already used short address, or another reason.

***Comment Index #54 15-23-0475-22-04ab-cc-consolidated-comments***



**Discussion**: Just as in 802.15.4-2020, the intent of 802.15.4ab is to keep same functionality of Association Request and Association Response.

**Resolution:** Revise. Modify the text in 6.6.3.3 to include the green text below:

When Acknowledgment is requested for HRP UWB PHY, Imm-Ack shall commence AIFS after the reception of the last symbol of Data frame or MAC command.

***Comment Index #228 15-23-0475-22-04ab-cc-consolidated-comments***



**Discussion**: Agree with commenter.

**Resolution:** Revise. Modify the text in 16.3.3.4 so that the following sentence is added:

For all values of *Nshrt*, encode each of the *NCW* codewords using the LDPC encoding technique described above. When *Nshrt* > 0, the shortened bits shall be discarded after encoding. For each LDPC codeword with length 648, 1296, or 1944, the full set of parity bits with length 324, 648, or 972, respectively, shall be transmitted.