**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 Resolutions for UWB HRP PHY Comments:274 and 275 |
| Date Submitted | May 2024 |
| Sources | Vinod Kristem, Xiliang Luo (Apple) |
| Re: |  |
| Abstract |  |
| Purpose | To propose resolutions to comments for “*P802.15.4ab™/Draft (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. |

# CID #274

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| **Name** | **Idx #** | **Cat.** | **Pg.** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** |
| Vinod Kristem | 274 | Technical | 157 | 16.2.7.4.1 | 20 | The draft text reads "Support for the dynamic data mode PHR is mandatory for devices that support either the LDPC coder specified in 16.3.3.3.1 or the 124.8 Mb/s modulation specified in 16.3.4.2.1."This is no longer needed as the draft added HRP-LLDDEV, for which the dynamic data mode PHR is mandatory. Also, suggest to explicitly indicate that dynamic data mode PHR is optional for HRP-EMDEV, to be aligned with the consensus reached on the device categories, as captured in the DCN 15-23-0308-03-04ab-4ab-device-s-and-feature-sets. | Remove the sentence "Support for the dynamic data mode PHR is mandatory for devices that support either the LDPC coder specified in 16.3.3.3.1 or the 124.8 Mb/s modulation specified in 16.3.4.2.1." Add the sentence "Support for the dynamic data mode PHR is optional for HRP-EMDEV." |

**Discussion:**

Agree with the comment and the proposed change.

This sentence was added during draft B development where there was no separate data device (LLDDEV), and it got carried over to draft C. Since the draft C added LLDDEV for which dynamic data mode PHR is mandatory, this is no longer needed, and it aligns well with the consensus reached on device categories and feature sets, as captured in the DCN 15-23-0308-03-04ab-4ab-device-s-and-feature-sets.

**Disposition Status: Accepted**

**Proposed Resolution:**

Update the Draft-C spec as suggested in the proposed change:

Remove the sentence "Support for the dynamic data mode PHR is mandatory for devices that support either the LDPC coder specified in 16.3.3.3.1 or the 124.8 Mb/s modulation specified in 16.3.4.2.1." Add the sentence "Support for the dynamic data mode PHR is optional for HRP-EMDEV."

# CID #275

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| **Name** | **Idx #** | **Cat.** | **Pg.** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** |
| Vinod Kristem | 275 | Technical | 163 | 16.3.3.3 | 5 | Use 'optional dynamic data mode' to clarify that this mode is optional for HRP-EMDEV. | Update the text as follows: "The HRP-EMDEV shall employ the K = 7 convolutional code for the PHR, or for PHR2 in its optional dynamic data mode, and shall also use this convolutional code for the PHY payload field unless the optional low-density parity-check LDPC encoder ..." |

**Discussion:**

Agree with the comment and the proposed change. It follows from CID 274.

**Disposition Status: Accepted**

**Proposed Resolution:**

Update the Draft-C spec as suggested in the proposed change:

Update the text as follows: "The HRP-EMDEV shall employ the K = 7 convolutional code for the PHR, or for PHR2 in its optional dynamic data mode, and shall also use this convolutional code for the PHY payload field unless the optional low-density parity-check LDPC encoder ..."