**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |
| --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **Text for CIR report for non-sensing transmissions (Based on UWB sensing TFD)** |
| Date Submitted |  August 3, 2023 |
| Source | Aniruddh Rao Kabbinale, Ankur Bansal, Karthik Srinivasa Gopalan, Mingyu Lee (Samsung Electronics) |
| Re: | Contribution to IEEE 802.15.4ab  |
| Abstract |  |
| Purpose | This submission proposes text to for the IEEE Std 802.15.4ab specification framework document. |
| 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 “Source(s)” field above. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. |

*The baseline for this TFD is 15-22-0538-07-04ab-proposal-of-sensing-framework.*

*Update Table 2 in 2.7.2 as follows*

2.7.2

Table 2: Sensing Control field of the AC IE

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Bits: 0 | 1 | 2 | 3 | variable | variable | variable | Variable |
| Common Sensing Control Present | CIR Report Parameters Present | Frequency Stitching Parameters Present | CIR Report for non-sensing transmission | Common Sensing Control Config | CIR Report Parameters Config | Frequency Stitching Parameters Config | Parameters for CIR\_report for non-sensing transmission |

*Insert the following at the end of 2.7.2 as follows*

Parameters for CIR report for non-sensing transmission are listed in the following Table 9

**Table 9: Parameters for CIR report for non-sensing transmission**

|  |  |  |
| --- | --- | --- |
| 0-1 | 2 | 3-7 |
| Transmission Packet Format Identifier | Source of CIR report | reserved |

Transmission Packet format identifier indicates the packet format of non-sensing transmission for which CIR report is also requested. Table 10 defines the Transmission Packet Format Identifier.

**Table 10: Transmission packet format Identifier**

|  |  |
| --- | --- |
| Transmission Packet format Identifier | Transmission packet format |
| 0 | Ranging  |
| 1 | Data communication  |
| 2 | MMS Ranging |

Source of CIR report indicates the parts of the packet from which the CIR report is generated. Table 11 defines the Source of CIR report

**Table 11: Source of CIR Report**

|  |  |
| --- | --- |
| Source of CIR Report | Definition |
| 0 | CIR report is generated from SYNC field only (RSF in case of MMS ranging)  |
| 1 | CIR report is generated from SYNC field and other parts of the packet – STS, PHY Payload (RSF and RIF in case of MMS ranging) |