**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 CID i-0518** |
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| Abstract | [Resolution to 802.15.4z comment CID i-0518] |
| Purpose | [Resolve 802.15.4z comment CID i-0518] |
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**This document provides a resolution to comment i-0518.**

**The resolution in this document depends on resolutions provided by
15-19-0262-01-004z-further-hrp-comment-resolutions.docx.**

***Modify rows in Table 11-2 “PHY PIB attributes” as follows:***

**Table 11-2 — PHY PIB attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Range** | **Description** |
| *phyHrpUwbPhrDataRate* | Enumeration | DRMDR, DRBM\_LP,DRBM\_HP,DRHM\_LR, DRHM\_HR | When equal to DRMDR, the data rate is specified by the DataRate parameter of the MCPS-DATA.request primitive.Otherwise the transmit and receive data rates are selected by this attribute as specified in Table AD1 and Table AD2. |

***Modify 16.2.6 as follows:***

In the BPRF mode, the HRP-~~S~~ERDEV shall use the PHR as specified above3. Optionally, this PHR may be sent and received at the same symbol rate as the data~~.~~ , This is controlled by the phyHrpUwbPhrDataRate attribute, as per table AD1.

**Table AD1 — PHR and PSDU data rates for the HRP-ERDEV in BPRF mode**

|  |  |  |
| --- | --- | --- |
| **Value of the *phyHrpUwbPhrDataRate* attribute** | **PHR data rate** | **PSDU data rate**  |
| DRBM\_LP | 975 kb/s (850 kb/s nominal) | 6.8 Mb/s |
| DRBM\_HP | 7.8 Mb/s (6.8 Mb/s nominal) | 6.8 Mb/s |

In the HPRF mode, the HRP-~~S~~ERDEV shall use the PHR as specified in 16.2.6.1. where the data rates of PHR and PSDU are set using the PHY PIB attributes *phyHrpUwbPhrDataRate* and *phyHrpUwbCcConstraintLength*, as specified in Table AD2.

**Table AD2 — PHR and PSDU data rates for the HRP-ERDEV in HPRF mode**

|  |  |  |  |
| --- | --- | --- | --- |
| **Value of the *phyHrpUwbPhrDataRate* attribute** | **Value of the *phyHrpUwbCcConstraintLength* attribute** | **PHR data rate (Mbit/s)** | **PSDU data rate (Mbit/s)** |
| DRHM\_LR | CL3 | 3.9 | 6.8 |
| DRHM\_LR | CL7 | 7.8 | 7.8 |
| DRHM\_HR | CL3 | 15.6 | 27.2 |
| DRHM\_HR | CL7 | 31.2 | 31.2 |

***Insert at the end of 16.3.4 (after Table 33):***

The choice of Data (Symbol) Rate is determined by the *phyHrpUwbPhrDataRate* attribute as specified in Table AD2.