**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |
| --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | OOK PHY Text Changes related to CID i-17 and i-23 |
| Date Submitted | 21, September, 2016 |
| Source | Jae Seung LeeETRI218 Gajeong-ro, Yuseong-gu, Daejeon, 305-700, Korea | Voice: +82 42 860 1326Fax: +82 42 860 1326E-mail: jasonlee@etri.re.kr |
| Re: | Sponsor\_Ballot\_Consolidated\_Comments |
| Abstract | This document proposes OOK PHY Text changes related to CID i-17 (channel expansion) and i-23 (beacon generation) for TG3e Sponsor Ballot.  |
| Purpose | To be used by the technical editor to apply the necessary changes to the draft. |
| Notice | This document has been prepared to assist the IEEE P802.15. 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. |
| Release | The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15. |

**List of contributors**

|  |  |
| --- | --- |
| **Name** | **Affiliation** |
| Jae Seung Lee | ETRI |
| Jaewoo Park | ETRI |
| Jeeyon Choi | ETRI |
| Moon-Sik Lee | ETRI |
| Yeong Jin Kim | ETRI |

**(1) Required OOK PHY text change related to CID i-17:**

CHNL\_IDs have been changed by Doc.626r1 (resolution to CID i-17). Therefore, CHNL\_IDs referenced by OOK PHY part should be updated.

**Proposed Text Change (based on 802.15.3e D04)**

***Change the following two paragraphs in clause 11.3.1.1 of 802.15.3e D04 as follows:***

**11a.3.1.1 Channelization for HRCP-OOK PHY**

…..

HRCP-OOK PHY uses the channels defined as CHNL\_ID 2, 8, 12, and 15 in Table 11a-1. A compliant IEEEStd 802.15.3e implementation that implements the HRCP-OOK PHY shall support at least channel 2 (CHNL\_ID 2), which is the default channel for IEEE Std 802.15.3e. When channel bonding is used, contiguous two or three or four channels are used. The PHYPIB\_CurrentChannel is the CHNL\_ID of the current channel.

When the channel bonding is not used, only channel 2 (CHNL\_ID 2) shall be used. When two channels are bonded together, channel 2 and 3 (CHNL\_ID 8) shall be used. When three channels are bonded together, channel 1, 2 and channel 3 (CHNL\_ID 12) shall be used. When four channels are bonded together, channel 1, 2, 3 and 4 (CHNL\_ID 15) shall be used.

**(2) Required OOK PHY text change related to CID i-23:**

Text on synchronization has been accepted by Doc.628r0 (resolution to CID i-23). In the proposed text by Doc.628r0, *pClockAccuracy* is used, but this parameter is not defined in OOK PHY Clause. *pClockAccuracy* and related text should be added to OOK PHY clause.

**Proposed Text Change (based on 802.15.3e D04)**

***Add new subclauses 11a.3.4.2 and 11a.3.4.3 as follows:***

**11a.3.4.2 Transmit center frequency tolerance**

The transmitted center frequency tolerance shall be ±30 × 10-6 maximum.

**11a.3.4.3 Symbol rate**

The OOK PHY shall be capable of transmitting at the chip rate, as defined in Table 11a-25, to within ±30 × 10-6.

The MAC parameter, *pClockAccuracy*, shall be ±30 × 10-6.