**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |
| --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **Resolution of CIDs 10 and 23** |
| Date Submitted | April 2011 |
| Source | [][][address] | Voice: [ ]Fax: [ ]E-mail: [ ] |
| Re: | [If this is a proposed revision, cite the original document.][If this is a response to a Call for Contributions, cite the name and date of the Call for Contributions to which this document responds, as well as the relevant item number in the Call for Contributions.][Note: Contributions that are not responsive to this section of the template, and contributions which do not address the topic under which they are submitted, may be refused or consigned to the “General Contributions” area.] |
| Abstract | [Description of document contents.] |
| Purpose | [Description of what the author wants P802.15 to do with the information in the document.] |
| 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. |

***CID 10:*** If "short sync field" in Figures 7 and 8 is different from "Resync length field" in Table 81, Figure 122 and subclause 8.6.4.3, add the description of short sync field to this standard. If they are the same, change "short sync field" in Figures 7 and 8 to "resync field".

Resolution: Principle … change the terminology in clause 4 (i.e. Figures 7 and 8) to match the terminology used in clause 8 (i.e. Table 81, Figure 122 and subclause 8.6.4.3).

***CID 23:*** Add the descriptions for the method to achieve 0.1% dimming resolution to 8.5.2.2.

Resolution: Principle … replace the current text in 8.5.2.2 with the following text.

*The OOK-mode dimming is described in 4.4.3.1.4. The OOK-mode dimming is supported by using the dimmed OOK bit field set in the PHY header as explained in Table 81 in 8.6.2.5. An arbitrary dimming level accuracy can be achieved by the combined use of the compensation length (described in 8.6.4.2), and optical mapping and extinction ratio (described in 8.3.2). If any requested dimming results in unsatisfactory performance (i.e. flicker generation or color shifting) while trying to maintain compliance to this standard, then the device shall disassociate from the network. The dimming method used by an unassociated device is out-of-scope of this standard.*

Also, replace the text in 8.6.4.3 with the following.

*The resync length has a 4 bit value which indicates the number of resync symbols at the optical clock rate. The resync pattern used is the same as the FLP. When used, this field shall be set to a value from 0 to 15, with a default value of 15.*