**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **Draft D0 Related Offset-VPWM Comments Resolutions on MAC Frame Format and MAC PIB Attributes** |
| Date Submitted | September, 2016 |
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| Re: | Draft D0 Comment Resolution for Offset-VPWM |
| Abstract | Details of Resolutions regarding to the submitted Comments on D0 are suggested for Offset-VPWM MAC Frame Format and MAC PIB Attributes. The Flash Light designed to support LBS, Authentication, IoT/IoL, etc. |
| Purpose | D0 Comments Resolutions and Editorial Revision. |
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# MAC FRAME FORMARTS FOR Offset-VPWM

# **Offset-VPWM MAC Frame Formats**

The MAC frame structure is formatted as illustrated in Figure 7-1 for Offset Variable Pulse Width Modulation for Smart Device Flash Light.

 

**Figure 7-1 –MAC Frame Format**

**6.4.5.1 Frame Payload Field**

The Frame Payload field has a variable length and contains information specific to individual frame types. If the Security Enabled subfield is set to one in the frame control field, the frame payload is protected as defined by the security suite selected for that frame.

**6.4.5.2 FCS Field**

The FCS field is 2 octets in length and the FCS is calculated over the MHR and MSDU parts of the frame. The FCS shall be only generated for payloads greater than zero bytes.

The FCS is option is given as an optional option, it is adaptive to RS/CRC/NONE.

# MAC PIP ATTRIBUTES FOR Offset-VPWM

# **MAC PIB Attributes**

The MAC PIB comprises the attributes required to manage the MAC sublayer of a device. The attributes contained in the IEEE802.15.7-2011 MAC PIB are presented in Table 62 - MAC PIB Attributes.

The additional MAC PIB attributes added for Offset Variable Pulse Width Modulation for Smart Device Flash Light is presented the Table 62—MAC PIB attributes (continued).

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| **MAC PIB Attributes Table 60 Additions** |
| **Attribute** | **Identifier** | **Type** | **Range** | **Description** | **Default** |
| macLEDIDusage | 0x81 | Unsigned | 0-255 | This attribute indicates the type of data transmitted using Flash Light Transmitter.0 : LED IT1 : With or Without LED ID and IP address  | 0 |

**Table 62—MAC PIB attributes (continued)**