**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **LB D0 Comment Resolution based Changes on Dimming and Flicker Mitigation Section** |
| Date Submitted | January 2017 |
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| Re: | LB1 D0 Comment Resolution supportive documents for Dimming and Flicker Mitigation Revision  |
| Abstract | Details of Resolutions regarding to the submitted Comments on LB D0 are suggested for Dimming and Flicker Mitigation. The Dimming and Flicker Mitigation Revision based on Modulation Schemes is provides the specification to design of LED ID / OCC based application services like IoT/IoL, LED ID, Digital Signage with Advertisement Information, LBS, Emergency EXIT Signage, etc. |
| Purpose | LB D0 Comments Resolutions and Editorial Revision. |
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# Comment 152 and 153



# 152 Comment Resolution Based Change

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# [RESOLUTION NOTE:

#  1-Change the text to "Offset VPWM causes flicker and dimming is supported by pulse width dimming."

# 2-Change the dimming method for offset-VPWM in table 83]

**8.5.2.4.3 Offset-VPWM dimming**

Offset VPWM causes flicker and dimming is supported by pulse width dimming.

# 153 Comment Resolution Based Change

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# [RESOLUTION NOTE:

1- Change to "PHY VI modes operate with flicker and dimming is supported by analog dimming but not during data transmission."

2-Change the dimming method for PHY VI accordingly in table 83]

**8.5.2.6 PHY VI dimming**

PHY VI modes operate with flicker and dimming is supported by analog dimming but not during data transmission.

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Table 83—Choice of dimming methods for PHY operating modes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Mode** | **Compensation symbol insertion dimming** | **Pulse width dimming** | **Amplitude dimming** | **out-of-band dimming** |
| **PHY I, II, III** |
| OOK | x |  | x | x |
| VPPM |  | x | x | x |
| CSK |  |  | x | x |
| **PHY IV** |
| UFSOOK |  | x | x | x |
| S2-PSK |  |  | x | x |
| Twinkle VPPM |  | x | x | x |
| HS-PSK |  | x | x | x |
| Offset-VPPM |  | x |  |  |
| **PHY V** |
| RS-FSK |  | x | x | x |
| CM-FSK |  | x | x | x |
| C-OOK |  |  | x | x |
| MPM | x | x | x | x |
| **PHY VI** |
| A-QL |  |  | x |  |
| VTASC |  |  | x |  |
| SS2DC |  |  | x |  |
| IDE |  |  | x |  |
| HA-QL |  |  | x |  |