Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: [comment CID 308 309 310 312 and proposed resolution]

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Re: []

Abstract: [Proposed resolution about comment CID 308 309 310 312]

Purpose: [Contribution to IEEE 802.15.7 TG-VLC]

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Technical comment CID 308, 312

- * Comment 308, 312
 - About the same philosophy of both Blinking notification and color-function support
- Proposed change
 - **Merge both or at least, reference link**
- disagree
 - 1. Color-function support is the usage of the CVD frame, however the blinking notification is the MAC command frame. Even though it has similar philosophy, they are definitely different.
 - 2. Color-function is need to be supported by several colors, but the blinking notification can be work in single color device.

Technical comment CID 309, 310

- Comment 309
 - **What MAC-PIB attribute (see 6.4.2) represents the blinking- notification command?**
- Proposed change
 - Introduce name of and reference to MAC-PIB attribute.
- Agree
 - **■** Instruction to Editor next page
- Comment 310
 - A blinking frequency of 10 Hz is well within the range of photosensitive epilepsy (see reference [B8]).
- Proposed change
 - Decrease the frequency below 3 Hz. Suggested value: 2 Hz, viz. a counter value of 125
- Principle
 - **Instruction to Editor next page**

- 1. Add the following sentence at page 94, line 49 in subclause 5.3.9
 - The blinking notification bit shall be set when the MAC PIB attribute, macUseBlinkingNotification and macBlinkingNotificationfFrequency, as defined in Table 59. indicates the blinking notification usage.

2. Insert the following table in table 59

Identifier number is depend on the number order of the table 59

Attribute	Identifier	Туре	Range	Description	Default
<i>macUseBlinkingNotific</i> <i>atio</i> n		Boolean	TRUE or FALSE	shall be set to 1 when blinking notification is to be performed	0
macBlinkingNotificatio nfFrequency		Integer	0-10	The frequency of blinking notification 0: 0.25Hz 1: 0.5Hz 2: 0.75Hz 3: 1Hz 4: 1.25Hz 5: 1.5Hz 6: 1.75Hz 7: 2Hz 8: 2.25Hz 9: 2.5Hz 10: 2.75Hz	0

- 1. Add the following sentence at page 94, line 50 in subclause 5.3.9
 - To support the blinking notification, the period shall be chosen from the *phyBlinkingnotificationFrequency* PHY PIB attribute as shown in Table 99, using the MLME-SET.request and PLME-SET.request primitives
- 2. Insert the following table in table 99

Identifier number is depend on the number order of the table 99

Attribute	Identifier	Type	Range	Description
phyBlinkingNotificatio nfFrequency		Integer	0-10	The frequency of blinking notification 0: 0.25Hz 1: 0.5Hz 2: 0.75Hz 3: 1Hz 4: 1.25Hz 5: 1.5Hz 6: 1.75Hz 7: 2Hz 8: 2.25Hz 9: 2.5Hz 10: 2.75Hz

- 3. Delete the following sentence in subclause 5.3.9
 - The blinking period shall be set by an 8-bit timer in multiples of 4 ms and a minimum counter value of 25 shall be used (i.e. minimum blinking period of 100 ms).
- 4. Add following text and figure in subclause 5.3.9.
 - **5.3.9.1 Blinking frequency**

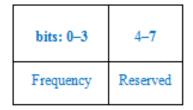


Figure 68—Blinking frequency field format

The frequency subfield shall contain the frequency of blinking.

- Instruction to editor
 - **Change sentence in 5.3.9 with next following sentence.**
 - The blinking notification command is sent by a coordinator when the device is not longer responding. Reasons for this might be a misalignment between the device TX and the coordinator RX (limited FOV of receiver, low deviceTX power, mobility of the device, etc.). In such cases, the device can change the visibility indication from continuous visibility for point-and-shoot to blinking indication. The device can then change from point-and-shoot mode to blinking mode in order to indicate to the user that the uplink to the coordinator is disconnected. This indication can be applied to both P2MP and P2P modes of operation.

This feature can help to align the link and is only intended for mobile devices.