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

Submission Title: comment and resolution about CID 75,546 and 548

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Source: Jaeseung Son

Company: Samsung Electronics Co.,LTD

Address: Dong Suwon P.O. Box 105, 416 Maetan-3dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742

Korea

Voice: [82-31-279-5285], FAX: [82-31-279-5130], E-Mail: [js1007.son@samsung.com]

Re: []

Abstract: comment and resolution about CID 75,546 and 548

Purpose: Contribution to IEEE 802.15.7 TG-VLC

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CID 75

546, 548

CID 75 (Subclause 5.5.1, page 8)

Comment

Missing a sub-clause

Suggested Remedy

- Add section 5.5.1.4.2 "Coexistence with CSK"
- CID #8 from draft D0 review indicated this was to be added and referenced doc 15-10-0027-00 but this doc had no proposed te xt.

Resolution/instruction to editor

- My suggestion is Accept.
- Instruction to editor: make subclause 5.5.1.4.2 and please insert doc 539/r0 into 5.5.1.4.2

CID546 (Subclause 6.9.6.3, page 63, line 32)

Comment

 CSK dimming entails color shift because of analog dimming. Nee d to have a compensation scheme for these color changes due t o dimming.

Suggested Remedy

Need to have compensation schemes for color changes.

Resolution/instruction to editor

- My suggestion is Accept.
- Accept. 6.8.6.1 CSK Calibration is compensation method.
- Instruction to editor: Replace 6.9.6.3 CSK Dimming with slide 6 text.

CID 548 (Subclause 6.9.6.3, page 63, line 34-37)

Comment

This Clause advocates amplitude dimming (see Claus 5.5.3.2.3) for C
SK but does not make this clear

Suggested Remedy

 Replace the paragraph with "In CSK, amplitude dimming as per Claus e 5.5.3.2.3 is used.CSK keeps the center color of the color constellat ion with required intensity instead of the idle pattern shown in section 5.9.6.1."

Resolution/instruction to editor

- My suggestion Accept in principle.
- But there is not 5.9.6.1.
- Instruction to editor: Replace 6.9.6.3 CSK Dimming with slide 6 text.

In CSK, amplitude dimming as per Clau se 5.5.3.2.3 is used. Total power of multiple light sources is constant. For dimming control, the total power of the multiple light sources is changed. CSK keeps the center color of the color constellation with required intensity instead of the idle pattern shown in section 5.5.4. Channel estimation sequence is used for color shift in CSK.