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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Re: []

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

Purpose: Contribution to IEEE 802.15.7 TG-VLC

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 text.

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. Need to have a compensation scheme for these color changes due to dimming.

Suggested Remedy

- Need to have compensation schemes for color changes.

Resolution/instruction to editor

- My suggestion is Accept.

- Accept. color stabilization for CSK links(see 262/r3) is compensation method.

- Instruction to editor: Replace 6.9.6.3 CSK Dimming with slide 6 in this contribution.

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 CSK but does not make this clear

Suggested Remedy

- Replace the paragraph with "In CSK, amplitude dimming as per Clause 5.5.3.2.3 is used.CSK keeps the center color of the color constellation 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 in this contribution.

❖ In CSK, amplitude dimming as per Clause 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 and color stabilization for CSK links(see 6.9.6.4) is used for color shift compensation in CSK.