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

Submission Title: [LB comment resolution related to 5.5.3.3 and 5.5.3.4]
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Re: [Response to LB comment of TG7]

Abstract: [This document describes LB comment resolution related 5.5.3.3 and 5.5.3.4.]

Purpose: [To resolve LB comments related to 5.5.3.3 and 5.5.3.4]

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LB comment resolution related to 5.5.3.3 and 5.5.3.4

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The Current Status related to 5.5.3.3 and 5.5.3.4

- The technical editor has rewritten the clause 5.5.3 including its subclauses and the clause 5.5.4 to implement the editorial comments.
- We conditionally agreed to reorganize 5.5.3 and 5.5.4 on Beijing F2F meeting. → See the doc.10/351/r0.
- The doc.10/351/r0 recommend that the subclauses
 5.5.3.4 and 5.5.3.3 are deleted.
- However, only the subclause 5.5.3.4 has been deleted in the current D2 draft.

D1 Draft (5.5.3 and 5.5.4)

5.5.3 Cross Layer Consideration 5.5.3.1 Flicker Compensation 5.5.3.1.1 Intra-frame Flicker Compensation 5.5.3.1.2 Inter-frame Flicker Compensation 5.5.3.2 Light Dimming 5.5.3.2.1 VPM Dimming 5.5.3.2.2 Idle Pattern and Adjustment Time Dimming 5.5.3.2.3 Analog Dimming 5.5.3.3 Idle Pattern 5.5.3.4 Idle Pattern

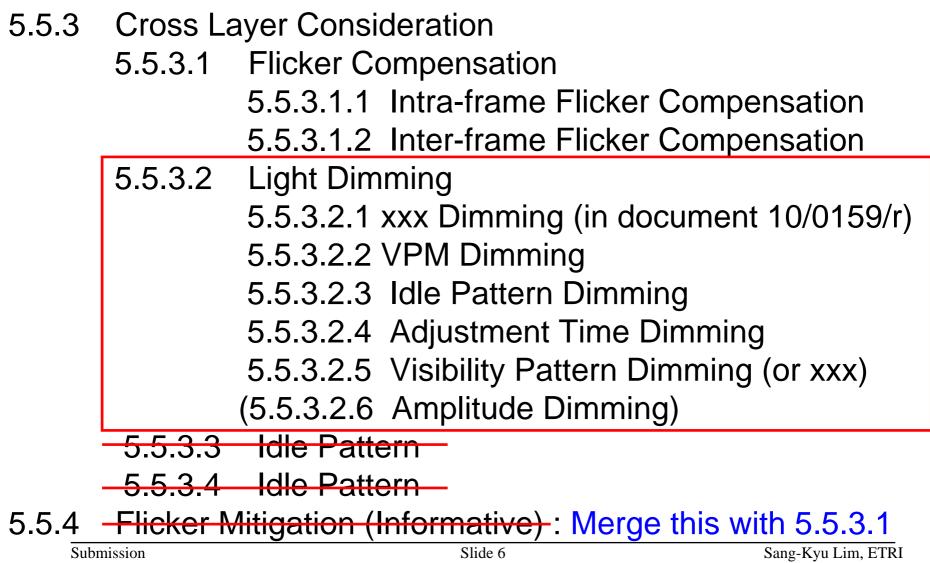
5.5.4 Flicker Mitigation (Informative)

Current D2 Draft (5.5.3 and 5.5.4)

5.5.3 Flicker compensation and dimming 5.5.3.1 Flicker Compensation 5.5.3.1.1 Intra-frame Flicker Compensation 5.5.3.1.2 Inter-frame Flicker Compensation 5.5.3.2 Light Dimming 5.5.3.2.1 VPM Dimming 5.5.3.2.2 Idle Pattern and Adjustment Time Dimming 5.5.3.2.3 Amplitude Dimming 5.5.3.3 Idle Pattern <u>-5.5.3.4 Idle Pattern</u>

5.5.4 Flicker Mitigation (Informative)

Option A (5.5.3 and 5.5.4) - 10/351/r0



CID	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
28	Michael Bahr	5	5.5.3.4	2	46-4	This Clause is pretty much redundant to Clause 5.5.3.2.2 and also contains falsities (see my comment on clause 5.5.3.2.2)	Delete Clause 5.5.3.4

- The clause 5.5.3.4 (Idle pattern) is not in the current D2 draft submitted to letter ballot resolution committee no longer.
- We conditionally agreed to delete the subclause 5.5.3.4 on Beijing F2F meeting. → See the doc.10/351/r0.

Recommendation/Instruction to editor

- CID 28 : Automatically resolved as per the current D2 draft and the doc.10/351/r0.

CID 100c

CID	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
100c	Clint Chaplin	5	5.5.3.4	10	48	(SY) Clause is redundant	delete this redundant sub- clause

- The clause 5.5.3.4 (Idle pattern) is not in the current D2 draft no longer.
- We conditionally agreed to delete the subclause 5.5.3.4 on Beijing F2F meeting. → See the doc.10/351/r0.

Recommendation/Instruction to editor

- CID 100c : Automatically resolved as per the current D2 draft the doc.10/351/r0.

CID 100d

CID	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
100d	James Gilb	5	5.5.3.4	10			Delete subclause 5.5.3.4 except for the last sentence, which probably belongs in 5.5.3.1.

- The clause 5.5.3.4 (Idle pattern) is not in the current D2 draft no longer.
- We conditionally agreed to delete the subclause 5.5.3.4 on Beijing F2F meeting. → See the doc.10/351/r0.

Recommendation/Instruction to editor

 CID 100d : Automatically resolved as per the current D2 draft the doc.10/351/r0

CID 100f

CID	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
100	fETRI	5	5.5.3.4	10	46	The title of 5.5.3.3, idle pattern, is the same with the title of 5.5.3.4	Remove the subclause 5.5.3.4

- The clause 5.5.3.4 (Idle pattern) is not in the current D2 draft no longer.
- We conditionally agreed to delete the subclause 5.5.3.4 on Beijing F2F meeting. → See the doc.10/351/r0.

Recommendation/Instruction to editor

 CID 100f : Automatically resolved as per the current D2 draft the doc.10/351/r0.

CI	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
10	3 Sridhar Rajagopal	5.5.3.4		10		idle pattern section	delete entire section

- The clause 5.5.3.4 (Idle pattern) is not in the current D2 draft no longer.
- We conditionally agreed to delete the subclause 5.5.3.4 on Beijing F2F meeting. → See the doc.10/351/r0.

Recommendation/Instruction to editor

- CID 108 : Automatically resolved as per the current D2 draft the doc.10/351/r0.

СІ	D	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
11	3	R. Roberts	5.5.3.4		10		Redundant material	Delete this section

- The clause 5.5.3.4 (Idle pattern) is not in the current D2 draft no longer.
- We conditionally agreed to delete the subclause 5.5.3.4 on Beijing F2F meeting. → See the doc.10/351/r0.

Recommendation/Instruction to editor

- CID 113 : Automatically resolved as per the current D2 draft the doc.10/351/r0.

CID 113b

C	D	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
11	I3b	Soo- Young Chang	5	5.5.3.4	10	46	This section is almost a duplicate of the second paragraph of the previous section, 5.5.3.2.2.	Need to remove this section.

- The clause 5.5.3.4 (Idle pattern) is not in the current D2 draft no longer.
- We conditionally agreed to delete the subclause 5.5.3.4 on Beijing F2F meeting. → See the doc.10/351/r0.

Recommendation/Instruction to editor

CID 113b : Automatically resolved as per the current D2 draft the doc.10/351/r0.

CID 100a

CID	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
100a	Clint Chaplin	5	5.5.3.3	10	30	(JS) there are two idle pattern subclause	combine or distinguish it.

- The current D2 draft (5.5.3.3 Idle pattern)
 - "The idle pattern can be used to compensate for inter-frame flicker and to allow a light source to support dimming. However, the use of idle pattern
 - for light dimming is in conflict with the inter frame flicker compensation
 - -because that can be resulted in the inter-frame flicker. The on and off times-
 - of light source are essential to the dimming through the use of idle pattern,
 - but they decrease the communication efficiency extremely. Therefore, the
 - standard supports that the idle pattern is used only on the applications
 - such as P2P communication which are independent of flicker and it allows
 - to be used only for the inter-frame flicker compensation on the applications
 which need the non flicker."
 - We'd like to recommend that 5.5.3.3 Idle pattern will be also deleted because the first sentence are already shown in inter-frame flicker compensation subclause (5.5.3.1.2 in the current D2) and idle pattern and adjustment time dimming subclause (5.5.3.2.2 in th current D2).

CID 100a (cont.)

Recommendation/Instruction to editor

- We conditionally agreed to delete the subclause 5.5.3.3 on Beijing F2F meeting.
- Delete the subclause 5.5.3.3 in the current D2 draft as per doc. 10/351/r0.
- CID 100a will be automatically resolved if we delete the subclause 5.5.3.3 in the current D2 draft.

CID 100b

CID	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
100Ь	Clint Chaplin	5	5.5.3.3	10	38	(SY) "As described in 5.5.3.1.2 and 5.5.3.2.2, the idle pattern can be used to compensate the inter-frame flicker and to allow a light source to have the dimming function. However, the use of idle pattern for light dimming is in conflict with the inter-frame flicker compensation because that can be resulted in the inter-frame flicker. "ON" and "OFF" times of light source are essential to the dimming through the use of idle pattern, but they decrease the communication efficiency extremely. Therefore, the standard supports that the idle pattern is used only on the applications such as P2P communication which are independent of flicker and it allows to be used only for the inter-frame flicker compensation on the applications which need the non-flicker."	of idle pattern for light dimming is in conflict with inter-frame flicker compensation because idle patterns used for light dimming will cause inter-frame flicker. "ON" and "OFF" times of the light source are essential to dimming through the use of idle pattern, but the "ON" and "OFF" times decrease the communication efficiency. Therefore, this standard supports using idle pattern for dimming function only on the

CID 100b (cont.)

- Recommendation/Instruction to editor
 - These sentences are not in the current D2 draft no longer.
 - CID 100b will be automatically resolved if we delete the subclause 5.5.3.3 in the current D2 draft as we resolved CID 100a.

CID	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
101	David Cypher	5	5.5.3.3	10	36	Both this subclause and the next have the same heading. If so, then there is not need for separate subclauses.	remove heading 5.5.3.4

Recommendation/Instruction to editor

- CID 101 will be automatically resolved if we delete the subclauses 5.5.3.3 and 5.5.3.4 in the current D2 draft.

CID	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
105	Michael Bahr	5	5.5.3.3	10	36-45	This Clause is pretty much redundant to Clause 5.5.3.2.2 and also contains falsities (see my comment on Clause 5.5.3.2.2)	Delete Clause 5.5.3.3

Recommendation/Instruction to editor

- CID 105 will be automatically resolved if we delete the subclause 5.5.3.3 in the current D2 draft.

CIE	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
107	Sridhar Rajagopal	5.5.3.3		10		idle pattern section	delete entire section

Recommendation/Instruction to editor

- CID 107 will be automatically resolved if we delete the subclause 5.5.3.3 in the current D2 draft.

CID	Name	Clause	Subclause	Page	Line	Comment	SuggestedRemedy
112	R. Roberts	5.5.3.3		10		Remove text	"In section 5.5.3.3 keep the first sentence and delete everything after the first sentence. That is, delete the followingHowever, the use of idle pattern for light dimming is in conflict with the inter frame flicker compensation because that can be resulted in the inter-frame flicker. ""ON"" and ""OFF"" times of light source are essential to the dimming through the use of idle pattern, but they decrease the communication efficiency extremely. Therefore, the standard supports that the idle pattern is used only on the applications such as P2P communication which are independent of flicker and it allows to be used only for the inter-frame flicker compensation on the applications which need the non- flicker."

Recommendation/Instruction to editor

- CID 112 will be automatically resolved if we delete the subclause 5.5.3.3 in the current D2 draft.

Summary

- 13 CIDs related to 5.5.3.3 and 5.5.3.4 have been resolved.
- 7 CIDs (28, 100c, 100d, 100f, 108, 113, and 113a) are associated with the clause 5.5.3.4.
- 6 CIDs (100a, 100b, 101, 105, 107, and 112) are associated with the clause 5.5.3.4.