

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

**Submission Title:** [comment and proposed resolution]

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**Re:** []

**Abstract:** [Proposed resolution about comment T-CID]

**Purpose:** [Contribution to IEEE 802.15.7 TG-VLC]

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# **Comment and proposed resolution**

**2010. 09**

**Samsung Electronics**

# Technical comment T-CID 193

## ❖ From 15-10-0681-08-0007-lb57-combined-comment-sheet

CID	Name	Vote	Clause	Subclause	Page	Line	Type	PartOf NoVote	Comment	Suggested Remedy
193	Sridhar Rajagopal	Yes	6	6.3.9	161	15	T	No	Blinking frequency is not defined. Recommend a 8-bit timer in multiples of 4ms. Add text at end of paragraph " The blinking frequency is set by an 8-bit timer in multiples of 4 ms. The blinking color is set according to the band plan in Table 1"	do as comment

### ❖ Comment

- **Blinking frequency is not defined. Recommend a 8-bit timer in multiples of 4ms**
- ❖ **Accept in principle and Instruction to editor: add text at end of the paragraph**
  - **It can help to alignment and it is only for a mobile equipment. The blinking period is set by an 8-bit timer in multiples of 100 ms (10Hz).**

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# Technical comment CID 194

CID	Name	Vote	Clause	Subclause	Page	Line	Type	PartOfNo Vote	Comment	Suggested Remedy
194	Rick Roberts	No	6	6.3.9	161		T	Yes	In Figure 93 change the last field name to "blinking wavelength" instead of blinking color.	As per the comment

❖ **Based on agreement of T-CID 275**

- The use of the term "**channel**" is incorrect and this clause and all its subclauses should use the term "**band**".

❖ **Resolution:**

- Modified the figure, cause how can the coordinator force to use a particular color

❖ **Instruction to editor:**

- Delete the last column

Octets: 7	1	1
MHR fields	Command Frame Identifier (reference 87)	Blinking <b>period</b> frequency

# Technical comment CID 195

CID	Name	Vote	Clause	Subclause	Page	Line	Type	PartOfNoVote	Comment	Suggested Remedy
195	Rick Roberts	No	6	6.3.9	161	23	T	Yes	Modify text	In such cases, the <del>mobile</del> <b>device may need</b> to change the visibility indication ...

## ❖ Resolution:

- Accept in principle

## ❖ Instruction to editor: change the text

- In such cases, the ~~mobile~~ **device can** change the visibility indication from continuous visibility for point-and-shoot to blinking indication.

# Technical comment CID 197

197	Rick Roberts	No	6	6.3.9	161	24	E/T	No	Reference to point-and-shoot	Point-and-shoot is not defined in this document. Replace point-and-shoot with point-to-point. Replace here and throughout the document.	Accepted - change point-and-shoot to peer-to-peer
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- ❖ **Re consider the T-CID 197: the previous resolution is not appropriate.**
- ❖ **Point and shoot is the not just Peer to peer.**
- ❖ **Need to add the definition**
- ❖ **Point and shoot: before the transmit the data, the device can send the CVD frame to show the direction of the visibility light to the user**
- ❖ **Suggested remedy: define the point-and shoot and keep the point-and shoot.**

# Technical comment CID 198

198	Rick Roberts	No	6	6.3.9	161	24	E/T	No	<p>Delete text that says "For example, if the infrastructure cannot receive the uplink but the mobile is able to receive downlink, then the coordinator can indicate to mobile the lack of reception and request a visibility indicator change for the user."</p>	<p>Think about what this says. It says if the mobile can hear the coordinator, but the coordinator can not hear the mobile, then the coordinator show use a visibility indicator to inform the mobile user it can not hear it. Unless I'm confused, this does not make any sense. Delete this sentence.</p>	
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❖ **Accept**

❖ **Delete the setence**

# Technical comment related 6.3.12

## T-CID 199, 200, 201, 202

199	Sridhar Rajagopal	Y	6	6.3.12	162	35	T		6.3.12 is empty with no text except for a Table. At a bare minimum a statement must be added saying "The mobility notification command is shown in Figure 96"	do as comment	
200	Jaesung Song	Yes	6	6.3.12	162	44	T		Comparing with D1 doc, following sentence is missed "7.3.12.1 Mobility fields Refer to 7.6.12, concept of VLC cell and mobility."	insert following sentence at line 44 in page 166 "Refer to 6.6.12, concept of VLC cell and mobility."	The mobility notification command is shown in Figure 96. concept of VLC cell and mobility is defined in 6.6.12.
201	Rick Roberts	No	6	Figure 96	162		T	No	In the last field called "mobility field"	Is the mobility field in Figure 96 the same as the Spatial-mobility of table 98? If so then use the same terms.	
202	Rick Roberts	No	6	6.3.12	162		T	No	There is no text in 6.3.12	Add explanatory text to complement Figure 96.	

# Technical comment

## T-CID 199, 200, 202

199	Sridhar Rajagopal	Y	6	6.3.12	162	35	T		6.3.12 is empty with no text except for a Table. At a bare minimum a statement must be added saying "The mobility notification command is shown in Figure 96"	do as comment	
200	Jaesung Son	Yes	6	6.3.12	162	44	T		Comparing with D1 doc, following sentence is missed "7.3.12.1 Mobility fields Refer to 7.6.12, concept of VLC cell and mobility."	insert following sentence at line 44 in page 166 "Refer to 6.6.12, concept of VLC cell and mobility."	The mobility notification command is shown in Figure 96. concept of VLC cell and mobility is defined in 6.6.12.
202	Rick Roberts	No	6	6.3.12	162		T	No	There is no text in 6.3.12	Add explanatory text to complement Figure 96.	

- ❖ **Comments are same: not ext in 6.3.12**
- ❖ **Accept the remedy of 199 and 200**
- ❖ **suggested remedy**
- ❖ **insert following sentence at line 44 in page 166**  
**“ The mobility notification command is shown in Figure 96. and the reference is the 6.6.12, concept of VLC cell and mobility.”**

# Technical comment T-CID 201

201	Rick Roberts	No	6	Figure 96	162		T	No	In the last field called "mobility field"	Is the mobility field in Figure 96 the same as the Spatial-mobility of table 98? If so then use the same terms.
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❖ suggested remedy

**No it's NOT. The mobility field in figure 96 and the Spatial-mobility in table 98 is NOT same.**

**The mobility notification command is the one of the MAC command frame. The spatial-mobility of table 98 is MAC command frame payload. (see the beside captured table 87 and 98)**

❖ Keep the original text.

Table 87—MAC command frames

Command frame identifier	Command name	device		Sub clause
		Tx	Rx	
0x07	Coordinator realignment		X	6.3.7
0x08	GTS request			6.3.8
0x09	Blinking notification			6.3.9
0x0a	Dimming notification			6.3.10
0x0b	Fast link recovery			6.3.11
0x0c	Mobility notification			6.3.12
0x0d	GTS Response			6.3.13

Table 98—Management payload field

Management payload field	Size (bits)	usage	Down/Up Link
Cell_info	15	Cel ID (D/L) Coordinator ID (D/L) Optical Source ID (D/L) Celln_ID_n, PID (U/L)	D/L, U/L
device_ID	10	Device ID	D/L, U/L
B_info	2	Cell boundary information	D/L
Fractional_src	1	Using fractional resource assignment Set 1: yes (fractional resource assignment)	D/L