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

Submission Title: [comment and proposed resolution]

Date Submitted: [Sep. 13. 2010]

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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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doc.: IEEE 802.15 09-0729-01-0007

Comment and proposed resolution

2010.09

Samsung Electronics

Technical comment T-CID 193, 194, 195, 197, 198

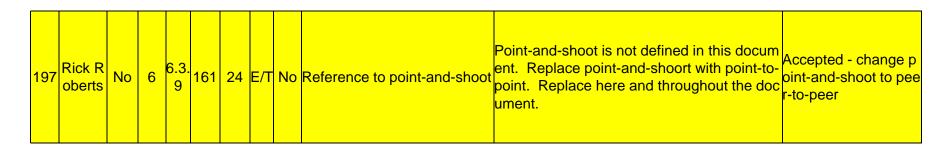
15-10-0681-04-0007-lb57-combined-comment-sheet

193	Sridhar Rajago pal	Υ	6	6.3. 9	161	15	Т		Blinking frequency is not defined. Recom mend a 8-bit timer in multiples of 4ms. Ad d text at end of paragraph "The blinking fr equency is set by an 8-bit timer in multipl es of 4 ms. The blinking color is set accor ding to the band plan in Table 1"		
194	Rick Ro berts	No	6	6.3. 9	161		Т	No	In Figure 93 change the last field name to "blinking wavelength" instead of blinking c olor.		
195	Rick Ro berts	No	6	6.3. 9	161	23	Т	No	Modify text	In such cases, the mobile device may need needs to change the visiblity indication	
197	Rick Ro berts	No	6	6.3. 9	161	24	E/T	No	Peterence to point-and-choot	Point-and-shoot is not defined in this do cument. Replace point-and-shoort with point-to-point. Replace here and throug hout the document.	t-and-choot to near-to-
198	Rick Ro berts	No	6	6.3. 9	161	24	E/T	No	Delete text that says "For example, if the infrastructure cannot receive the uplink but the mobile is able to receive downlink, the coordinator can indicate to mobile the lack of reception and request a visibility in dicator change for the user.".	he coordinator can not hear the mobile, then the coordinator show use a visiblity indicator to inform the mobile user it ca	

Technical comment CID 193, 194, 195

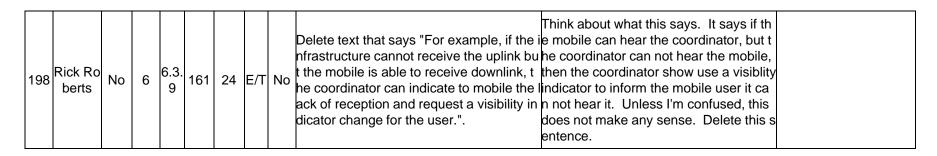
193	Sridhar Rajago pal		6	6.3. 9	161	15	Т		Blinking frequency is not defined. Re commend a 8-bit timer in multiples of 4ms. Add text at end of paragraph "T he blinking frequency is set by an 8-bit timer in multiples of 4 ms. The blinking color is set according to the band plan in Table 1"	do as comment	Accept
194	Rick R oberts	No	6	6.3. 9	161		Т	No	In Figure 93 change the last field nam e to "blinking wavelength" instead of blinking color.		Accept
195	Rick R oberts	No	6	6.3. 9	161	23	Т	No	F	In such cases, the mobile device may need needs to change the visiblity indication	Accept in principle, - suggested modified text: In such cases, the mobile device can needs to change the visiblity indication

Technical comment CID 197



- **❖** 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



- Suggested remedy
- Modified text:
- * "For example, during the communication between two devices or coordinators, if the infrastructure cannot receive the uplink but the mobile is able to receive downlink, if the connection link is broken or failure, the coordinator or the device can indicate to mobile the broken link or bad connection lack of reception and request a visibility indicator change for the user."

Technical comment related 6.3.12 T-CID 199, 200, 201, 202

199	Sridha r Raja gopal	Υ	6	6.3 .12	162	35	Т		6.3.12 is empty with no text except for a Table. At a bar e minimum a statement mu st be added saying "The mo bility notification command i s shown in Figure 96"	do as comment	
200	Jaese ung S on	Yes	6	6.3 .12	162	44	Т		"7.3.12.1 Mobility fields	rnsert following sentence at line 44 in page 166 "Refer to 6.6.12, concept of VL"	mand is shown in Figure 96.
201	Rick R oberts	No		Fig ure 96	162		Т	No	In the last field called "mobil ity field"	Is the mobility field in Figure 96 the same as the Spatial-mobilit y of table 98? If so then use the same terms.	
202	Rick R oberts	No	6	6.3 .12	162		Т	No	11 11 61 6 15 111 16 11 11 11 11 11 11	Add explanatory text to comple ment Figure 96.	

Technical comment T-CID 199, 200, 202

199	Sridha r Raja gopal		6	6.3 .12	162	35	Т		6.3.12 is empty with no text ex cept for a Table. At a bare mini mum a statement must be add ed saying "The mobility notifica tion command is shown in Figure 96"	do as comment	
200	Jaese ung S on		6	6.3 .12	162	44	Т		"7.3.12.1 Mobility fields	C cell and mobility "	The mobility notification command is shown in Figure 96. concept of VLC celland mobility is defined in 6.6.12.
202	Rick R oberts	No	6	6.3 .12	162		Т	No	II NAMA IS NO TAYLIN N 3 17	Add explanatory text to comple ment 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 Ro berts	No	6	Fig ure 96	162		Т	\cap	IIN the last tield called "mohill	Is the mobility field in Figure 96 the same a s the Spatial-mobility of table 98? If so the n use the same terms.
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suggested remedy

No it's NOT. The mobility field in fig. 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	Command name	der	rice	Sub clau se	
identifier	Command name	Tx	Rx	Subciause	
0x07	Coordinator realignment		Х	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	
0х0с	Mobility notification			6.3.12	
u≁uų	GTS Reconne			6313	

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