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

Submission Title: link recovery related CIDs in draft D1
Date Submitted: June 2010
Source: Ying Li and Sridhar Rajagopal [Samsung Electronics]
Address:
Contact Information: [sridhar.r@samsung.com]

Re:

Abstract: proposes comment resolutions for a set of CIDs

Purpose:

Ying Li

Comments for CIDs

780 - 784

CID 780, 781

Comment:

- N_ACKS is stated as a parameter, but it is not listed in any PIB table
- T_LINKTIMEOUT is stated as a parameter, but it is not listed in any PIB table

Suggested remedy

- Delete.

Instruction to editor

- Accept comment but reject remedy.
- Resolution: Add parameters to end of Table 85. Also, rename parameters as shown on next slide.

Table 85

CID 780, 781 (contd.)

7.6.9 Fast link recovery

Replace N_ACKS with macNumAcks

Replace T_LINKTIMEOUT with macLinkTimeOut

7.4.2 MAC PIB attributes

Insert the text in blue to the end of Table 85.

Table 85- MAC PIB Attributes

Attribute	Identifier	Type	Range	Description	Default
macDim	0x5d	Integer	0-1000	Percentage dimming; 0 is no dimming; 1000 is full dimmed.	0
macNumAcks	0x5e	Integer	0-15	Maximum number of times not receiving ACKs, to trigger fast link recovery procedure	3
macLinkTimeOut	0x5f	integer	0-255	A timer initiated when the link recovery procedure is triggered. If the timer expires, while the device has not received any fast link recovery response (FLR RSP) signal since the fast link recovery procedure is triggered, the device assumes that the link is broken and cannot be recovered. The range for macLinkTimeOut is defined in terms of the number of superframes.	63

CID 782

Comment:

- Fast link recovery response is referenced several three times in section 7.6.9 but it is not defined in the standard. It needs to be defined.

Suggested remedy

- Define fast link recovery response

Instruction to editor

- Please apply the changes proposed in contribution IEEE P802.15-10-0319-00-0007

Ying Li

CID 783

Comment:

- Concern about some detail in FLR

Suggested remedy

- At what data rate is the FLR sent? Is it arbitary? Or should it be a more robust MCS?

Instruction to editor

- Accept. Add the text in blue in Section 7.6.9, Page 210, Line 21 "The FLR signal and response are defined in 7.3.11. FLR is sent at the lowest data rate corresponding to the currently negotiated clock rate."

CID 784

Comment:

- The text currently says: When the fast link recovery is triggered, if the device has other communication directions/angles, e.g., a light with multiple LEDs with different angles, some or all of the other angles also start sending fast link recovery signaling, to recover the link.

Suggested remedy

- Will the link be recovered at optimal LED angle? Or does the first one win (even if there had been a better angle choice if the algorithm is allowed to optimize)?

Instruction to editor

- The algorithm to recover the link does not need to be standardized. It can be implementation dependent for differentiation.
- **No change required in the draft**