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**IEEE P802.15**  
**Wireless Personal Area Networks**

Project	IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)	
Title	<b>LB35 UWB PHY comment resolution</b>	
Date Submitted	[20 July, 2006]	
Source	[Philip Orlik] [ Mitsubishi Electric Research Laboratories, Inc.] [ ]	Voice: [ +1 617 621 7570] Fax: [+1 617 621 7550] E-mail: [porlik@merl.com ]
Re:	[ ]	
Abstract	[This document is a record of comment resolutions and text for The UWB PHY comments received on LB34.]	
Purpose	[To provide a record of the proposed changes to D2 of the WG recirculation letter ballot as a result of comments received from LB34.]	
Notice	This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.	
Release	The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15.	

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**1. UWB PHY comment text development based on 6/0322r2**

CID 10, PAGE 59, Line 55

“UWB channels {4, 7, 11, 15} are all optional channels are differentiated from other UWB channels”

**Replace with**

“UWB channels {4, 7, 11, 15} are all optional channels and differentiated from other UWB channels”

=====

CID 20, Table 1b

Change center frequency of the Sub GHz band to 499.2 MHz

=====

CID 42 Table 18a

**Change valid ranges for both TxDPSIndex and RxDPSIndex to {0x0D-0x10} and {0x15-0x18}**

**Delete** “0x01 = index 9; 0x02 = index 10 ; 0x03 = index 11 ; ... 0x20 = index 24.”

**Add the following** “0x0D-0x10 maps to the decimal range 13-16 and 0x15-0x18 maps to the range 21-24”

=====

CID 82, page 70

**Replace the following**, “The LFSR shall be run at the mean data PRF rate.” with

“The LFSR shall be clocked at the chip rate specified in Table 39a.”

=====

CID 81 , Table 1

**Add** “(optional)” **under** “2450 CSS” and also add “see note”

**Replace footnote with the following:**

UWB PHYs may operate in 1 or more of 3 distinct bands: sub-GHz, low-band, and high-band. IEEE

802.15.4-AmendmentA/D4 UWB device types and 2450 MHz band CSS PHY types are options to 802.15.4-2006

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CID 72

“T\_hdr should be in italics” ACCEPT

CID 92 Requests change to figure 27o

ACCEPT: Added two more PHR segments and two more preamble symbols to show 2 octet PHR header when CCA mode 6 is in use

CID 91

“The time duration of each PHR.... Is 0.851 Mbps.” replaced the two sentences with

"The time duration of each PHR or PSDU segment is fixed to 4 symbol periods with the nominal data rate of 1Mbps for all operation bands. The nominal data rate of 1Mbps is listed in Table 39g with the data rate field index R1-R0=01.

CID 90 6.8a.13

“the inserted preamble symbol should be ...”,

replaced "should" with "shall in the offending sentence.

CID 74 Figure 27b ‘Maximum length of packet after RS encoding should be 1208 bits’

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ACCEPT; Changed Figure 27b to correct value of 1208 and correct other values which depend on this number.

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CID 80 6.8a.5 'SFD could be improved'

Accept: Replaced short and long SFD with "SFD Z" as proposed in 06/0335r2

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