

IEEE P802.15
Wireless Personal Area Networks

Project	IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)	
Title	Comment Resolution for CID 1 in TG4m LB90	
Date Submitted	May. 13, 2013	
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Re:	Submission for resolution of TVWS-NB-OFDM comment in IEEE 802.15.4m LB90	
Abstract	Proposed Reference Modulator Diagram for TG4m TVWS-FSK	
Purpose	To resolve comment in LB90	
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CID 1: The description of spreader is not given for Figure 185

Proposed change: Move line 27 to 34 from page 93 to create a new clause 'spreader'

Proposed resolution: Accept in principle

Remove last paragraph in clause 20.3.1.3 on page 93 line 27-34. Create a new clause 20.3.3.2.5 after 20.3.3.2.4 as follows:

20.3.3.2.5 Spreader

The spreader only applies to PHR. The 44 PHR bits are encoded using the rate-1/2 recursive convolutional code as described in 20.3.3.2.2. 88-bit encoded sequence ($d_0, d_1, d_2, \dots, d_{87}$) is created. The 88-bit sequence is spread by using a spreading sequence [1111]. A 352-bit sequence is generated as shown below.

($d_0, d_0, d_0, d_0, d_1, d_1, d_1, d_1, d_2, d_2, d_2, d_2, \dots, d_{87}, d_{87}, d_{87}, d_{87}$)

The 352-bit sequence is then interleaved as described in 20.3.3.3.1 and mapped as BPSK as described in 20.3.3.3.2. The resulting value are interleaved as described in 20.3.3.4, pilots are inserted as described in 20.3.3.5, and then modulated as an OFDM symbol.