Commente and resolutions 4:56

P802.11a Draft D5.5 Comments

C/ XX SC 17.3.12	P 42	L 5		#	74
lohn Deane	CSIRO Australia		Vote		VAC
Comment Type TR Comme	ent Status R				
6. State RX SIGNAL PARITY caus FAIL or PMD-RSSI.ind below thres action.					
1. Cause of state transition RX IDLI Presumably PMD-RSSI.ind above t				en.	
2. In DETECT PLCP PREAMBLE is not clear. Presumably 'wait for PMD-data.ind'	state the mechanism f	or 'wait fo	r SIGNAL	.'	
 Cause of transition from DETEC clear. 	I PLCP PREAMBLE	back to IL	ILE IS NOT		
Presumably Timeout or PMD-RSSI	.ind below threshhold.				
4. Same transition 'PHY_CCA.ind(I BY the PLCP to the MAC layer! So distinguish causes & actions.	DLE) is NOT a cause	it is an ac	tion		
5. State RXPLCP FIELDS cause for Presumably PMD-RSSI.ind below t		LE is uncl	ear.		
7. State RX SYMBOL exit condition defined. Possibly PMD-RSSI.ind below three		(BUSY) ar	e not		
SuggestedRemedy					
Included in the comment.					
Proposed Response Respons	se Status U				
REJECT. For item 6 only. All others 6. State RX SIGNAL PARITY caus FAIL or PMD-RSSI.ind below thres action.	e for transition back to	DIDLE is F			
-> The IDLE indication is a signal w (This item will be discussed in the r		ondition a	n action.		
The following have bee acepted by	the commenter:				
 Cause of state transition RX IDLI Presumably PMD-RSSI.ind above t added "PHY-CCA.indicate (busy 	he threshhold for prea			en.	

2. In DETECT PLCP PREAMBLE state the mechanism for 'wait for SIGNAL'

is not clear.

Presumably 'wait for PMD-data.ind'

-> Changed the contents of the box. The labels of the conditions were changed as well. Please look up the figure.

Cause of transition from DETECT PLCP PREAMBLE back to IDLE is not clear.
 Presumably Timeout or PMD-RSSI.ind below threshold.
 The transition back to idle state can result eather from absence of signal or from failure to

receive and decode properly the SIGNAL field. See the corrected figure (Fig. 125).

4. Same transition 'PHY_CCA.ind(IDLE) is NOT a cause it is an action BY the PLCP to the MAC layer! So distinguish causes & actions.

-> The IDLE indication is a signal which can be used to condition an action.

5. State RXPLCP FIELDS cause for transition back to IDLE is unclear.

Presumably PMD-RSSI.ind below threshold.

? The IDLE indication is a signal which can be used to condition an action. This takes account of the case where signal is lost after successful decoding of the SIGNAL field.

7. State RX SYMBOL exit conditions CCA(IDLE) & CCA(BUSY) are not defined. Possibly PMD-RSSI.ind below threshold.

-> They are "PHY_CCA.ind(IDLE) and PHY_CCA.ind(BUSY).

CI XX	SC 17.3.3	P 21	L 11	;	# 88
MASAHIRO	MORIKURA	NTT		Vote	VAC

Comment Type T Comment Status X

The short preamble pattern was changed to improve the peak to average power ratio at the short preambles. However, the phase relation between short preamble (t1-t10) and long preamble (T1,T2) of draft 5.5 cause degradation in timing detection. This is because the matched filter output for detecting the short preamble pattern has large sidelobe in boundary region between t10 and T1. This large sidelobe badly affects the timing decision value when multipath delayed signals are superimposed. To solve this problem, a modified short preamble pattern has the same peak to average power ratio and small sidelobe in boundary region.

SuggestedRemedy

Proposed Response Response Status **O**

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Subclause, page, line RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Vote: E/ExCom VD/Disapprove VAC/Approve with Comments

C/ XX SC 17.3.3

June 1999

It is impractical to build a radio with channel is selected. SuggestedRemedy The precise backoff should be cal met and the local regulations can be specifications mean that there mus- channels than this must be specific Proposed Response Response ACCEPT. Changed: "The outer channels may have to be more backoff than the inner chara characteristics." to: "The outer channels may require se value than for the inner channels in the local regulations and HPA character Stanley Reible	alculated and stated su to be met with some prac- iust be power control the ified in the standard. <i>onse Status</i> U be amplified by an HP annels. This issue depen- e setting the HPA (High is in order to pass the loc	amplifiers; t ch that the ctical power at is effecte PA (High Po endes on the Power Amp cal regulatio	adjacent o r specifica ed differen ower Ampli e local reg plifier) bao	channel rejection ations. If the ntly across selecte lifier) which has gulations and HP/ ckoff to a higher	normati SuggestedF Proposed R REJEC The cor	nmend that the i ive part of the st Remedy Response CT. mmenter agreed	Comment Status	g be deleted i C ng function i		
Comment Type TR Comment It is impractical to build a radio with channel is selected. Suggested/Remedy Suggested/Remedy The precise backoff should be cal met and the local regulations can be specifications mean that there muschannels than this must be specifications mean that there muschannels than this must be specifications mean that there muschannels than this must be specifications mean that there muschannels than this must be specifications mean that there muschannels than this must be specifications mean that there muschannels than the inner channels than the inner changed: Proposed Response Response ACCEPT. Changed: "The outer channels may have to be more backoff than the inner characteristics." to: "The outer channels may require size value than for the inner channels in the local regulations and HPA characteristics." to: C/ XX SC A4.8 Stanley Reible Comment Type TR Comment Type TR Comment Type	alculated and stated such be met with some practices the power control the iffied in the standard. <i>In the standard</i> . <i>In the standard</i> .	amplifiers; t ch that the ctical power at is effecte PA (High Po endes on the Power Amp cal regulatio	their use of adjacent of r specifica ed differen ower Ampli e local reg plifier) bao ons. This i	dependent which channel rejection ations. If the ntly across selecte lifier) which has gulations and HPA ckoff to a higher issue dependes o	Comment T Recon normati SuggestedF Proposed R REJEC The cor	nmend that the i ive part of the st Remedy Response CT. mmenter agreed	nformative windowing andard. <i>Response Status</i> I to retain the windowir	g be deleted i C ng function i		t the example fo
SuggestedRemedy The precise backoff should be call met and the local regulations can be specifications mean that there mutchannels than this must be specifications mean that there mutchannels than this must be specifications. Proposed Response Response ACCEPT. Changed: "The outer channels may have to be more backoff than the inner characteristics." to: "The outer channels may require sevalue than for the inner channels in the local regulations and HPA characteristics." C/ XX SC A4.8 Stanley Reible Comment Type Comment Type TR	h be met with some practices the power control the power control the in the standard. It is is the standard on the standard on the standard of	ctical power at is effecte PA (High Po endes on the Power Amp cal regulatio L 53	r specifica ed differen ower Ampli e local reg plifier) bao ons. This i	ations. If the htly across selecte lifier) which has gulations and HPA ckoff to a higher issue dependes o # 56	SuggestedF Proposed R REJEC The cor	Remedy Response CT. mmenter agreed	Response Status	ng function i	in the Annex	x while stressinç
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ACCEPT. Changed: "The outer channels may have to b more backoff than the inner char characteristics." to: "The outer channels may require s value than for the inner channels in the local regulations and HPA cha C/ XX SC A4.8 Stanley Reible Comment Type TR Comment An ambient temperature of -30 des	b be amplified by an HP annels. This issue depe e setting the HPA (High is in order to pass the loc naracteristics." P 54 MICRILOR, Inc	Power Amp cal regulatio	e local reg plifier) bao ons. This i	gulations and HPA ckoff to a higher issue dependes o # 56					in the Annex	x while stressinç
CI XX SC A4.8 Stanley Reible Comment Type TR Comm An ambient temperature of -30 dea	P 54 MICRILOR, Inc		Vote		- I					
Comment Type TR Comm An ambient temperature of -30 de	,		Vote							
An ambient temperature of -30 de	ment Status R			VAC						
		frequently e	encountere	ed in Industrial						
SuggestedRemedy										
Please review this specification to	to insure that the needs	of anticipat	ted users	will be meet.						
Proposed Response Respon REJECT. The temperature types are inherite	onse Status C	02.11 standa	ard.							

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Subclause, page, line RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Vote: E/ExCom VD/Disapprove VAC/Approve with Comments