C/         78         SC 78.1.2         P 228         L 47         # 1           Fuller, John         Lawrence Berkeley Na	C/         48         SC         48.2.4.2         P         L         #         2           McCulloch, Ewan         Cadence Design Syste
Comment Type <b>TR</b> Comment Status <b>X</b> LPI Client will need additional interfaces to control the Layer 2 LLDP negotiation of Transmit Tw and Receive Tw. There are cases within 802.1 AVB standards where LPI is	Comment Type <b>T</b> Comment Status <b>X</b> The spec mentions that on receive, all   I   received during idle are translated to XGMII Idle control characters for transmission over the XGMII. All other !  I   received during idle are
desired but only if the negotiated transmit wait time is held to some maximum that may or may not be less than what the Ethernet implementation could otherwise support (when AVB streams are active on the link). Other upper layer technologies may have similar constraints that will be known to the LPI Client.	mapped directly to XGMII data or control characters on a lane by lane basis, with the exception of /D20.5/ (Low Power Idle) being detected in any row and the rest of the rows in the same column being detected /K/ only or /R/ only, which will result in reporting LP_IDLE in all lanes.
SuggestedRemedy Add following primitives:	This implies that   A   is always translated to normal XGMII Idle characters, even if the previous column was a low power idle stripe (/D20.5/ in one row and /K/ or /R/ in all other
LP_MAX_TX_WAIT.request(time) time in usec, 0 means no restriction imposed by LPI Client	rows). Is this the intention ? This would make the received XGMII sequence quite different from the link partners transmitted XGMII, and complicate the detection of LPI in the MAC. I think the received   A   that is part of a stream of low power stripes of idles should be translated to LPI as well.
LP_MAX_RX_Wait.request(time) time in usec, 0 means no restriction imposed by LPI Client	SuggestedRemedy
time in used, o means no restriction imposed by EFT client	Change the spec to
LP_TX_WAIT.indication(time)	
time is negotiated transmit wait time in usec	Whenever sync_status=OK, all       received during idle are translated to XGMII Idle control characters for transmission over the XGMII. All other !  I   received during idle are mapped
LP_RX_WAIT.indication(time)	directly to XGMII data or control characters on a lane by lane basis, with the following
time is negotiated receive wait time in usec	exceptions :
Proposed Response Response Status <b>O</b>	<ol> <li>/D20.5/ (Low Power Idle) being detected in any row and the rest of the rows in the same column being detected /K/ only or /R/ only, which will result in reporting LP_IDLE in all lanes.</li> </ol>
	2.   A   being detected AND /D20.5/ (Low Power Idle) being detected in any row of the previous column and the rest of the rows in the previous column being detected /K/ only or /R/ only, which will result in reporting LP_IDLE in all lanes.
	Proposed Response Response Status <b>O</b>

CI 48 SC 48.2.4.2.3 P L # 3	Cl 78 SC 78.4.2.5 P 238 L 21 # 5
IcCulloch, Ewan Cadence Design Syste	Dietz, Bryan Alcatel-Lucent
Comment Type T Comment Status X	Comment Type E Comment Status X
Should idle insertion or deletion via clock tolerance compensation be allowed to proceed	Suggestion to simplify language and eliminate "set of link partners".
during LPI, if we choose not to implement the low power state machines (i.e. if the PCS is simply transporting LPI for compatibility, but not entering a low power state itself).	SuggestedRemedy
48.2.4.2.3 states that Idle insertion or deletion may be performed on $  R  $ in the encoded data stream, which will never be the case when transporting LPI (one of the characters in the stripe of /R/s will be /D20.5/)	The transmitting side controls the data placed on the medium connecting the transmit and receive link partners and enforces Tw_sys. The transmitting link partner shall wait for the time indicated by the Transmit Tw_sys after deasserting Low Power Idle at the xxMII befor sending data frames.
Our assumption is that clock rate compensation should be allowed to continue during LPI, as this is consistent with allowing the deskew and comma sync processes within the PCS RX to continue (using   A   and individual /K/ symbols respectively).	The receiving link partner shall be ready to accept data based on (its echoed value of the Transmit link partner's Tw_sys. This ensures that the link partners transition out of LPI mode and receive frames without loss or corruption.
modify the spec to allow for clock rate compensation on a strpe that contained three /R/'s and one /D20.5/ in the encoded data stream	Proposed Response Response Status <b>O</b>
Proposed Response Response Status <b>O</b>	C/ 36 SC Fig36-9b P 81 L # 6
	Pillai, Velu Broadcom
C/ 35 SC 35.2.2.4 P66 L6 # 4	Comment Type ER Comment Status X
Vietz, Bryan Alcatel-Lucent	Arc from RX_WTF to RX_SLEEP has !rx_tw_timer_done it should be rx_wf_timer_done
Comment Type E Comment Status D	
Minor editorial change: replace semicolon with comma in list of "during the assersion of low power idle; carrier extend or carrier extend error code-groups." Semicolon is not appropriate in this context.	SuggestedRemedy
Suggested Remedy	Proposed Response Response Status <b>O</b>
Replace semicolon with comma. It should read "during the assersion of low power idle,	
Carrier Extend or Carrier Extend Error code-groups."	C/ 36 SC Fig36-9b P 81 L # 7
roposed Response Response Status W	Pillai, Velu Broadcom
PROPOSED ACCEPT IN PRINCIPLE.	Comment Type TR Comment Status X
Also change spelling to "assertion"	Arc from RX_QUITE to RX_WTF needs to be moved to RX_QUIET to RX_LINK_FAIL.Presently signal_detect=FAIL make it loop around from RX_WTF back to RX_QUIET. Once the rx_tq_timer_done is a link fail.
	SuggestedRemedy
	Proposed Response Response Status O

Comments		IEEE P	802.3az D1.4 Energy	Efficient Ethernet comm	June 2009		
Cl 36 SC Fig36-9b Pillai, Velu	P <b>81</b> Broadcom	L	# 8	C/ 36 SC Fig36-7 Pillai, Velu	a P <b>76</b> Broadcom	L	# 11
	Comment Status X X_ACTIVE should be !detect_ is not guaranteed to be rece			SuggestedRemedy	Comment Status X ( to IDLE_D is not checking EV condition to detect_idle * rx_lp Response Status O		E * !EVEN
Proposed Response	Response Status O						
<i>Cl</i> <b>36</b> SC <b>Fig 36-7</b> a Pillai, Velu	n P <b>76</b> Broadcom	L3	# 9	C/ 36 SC Table3 Pillai, Velu Comment Type ER	6-3b P 82 Broadcom Comment Status X	L	# [12
Comment Type <b>TR</b> The variable rx_lpi_fail SuggestedRemedy				51	a. But there is no debounce sta	ate, hence no ne	ed for this timer value
Proposed Response	ail = TRUE condition to enter <i>Response Status</i> <b>0</b>			Proposed Response	Response Status O		
Cl 36 SC Fig36-9b		L 10	# [10	<i>Cl</i> <b>36</b> <i>SC</i> <b>36.2.5.</b> Pillai, Velu	I.5 P73 Broadcom	L	# 13
	Broadcom Comment Status X CTIVE back to itself has a cor sync_status latches code_syn is meaning less.			the draft is point to T receiver a chance to SuggestedRemedy	Comment Status X etings, the decision was to hav NR, which is only 10-11uSec. gracefully recover from a wake 6-3b for Twtf and assign 1ms. I	The purpose of time fault.	this timer is to give the
Instead of the above, p Proposed Response	lease use code_sync_status = Response Status <b>0</b>	= FAIL		Proposed Response	Response Status <b>O</b>		

Comment	ts		IEEE P	802.3az D1.4 Energy E	Efficient Ethe	rnet commer	nts		June 2009
<i>Cl</i> <b>36</b> Pillai, Velu	SC 36.2.5.1.5	P <b>73</b> Broadcom	L <b>27</b>	# 14	<i>Cl</i> <b>48</b> Pillai, Velu	SC Fig48-9b	P 135 Broadcom	L <b>45</b>	# 18
Comment T Wake_e SuggestedF	error_counter ne	Comment Status X eds to be added to the counter	section			RX_WTF to RX	Comment Status X CACTIVE should be !  LPID aranteed to be receiving idle		IDLE  . Any recovery
	-	link to the Register			SuggestedR	lemedy			
Proposed R	Response	Response Status <b>O</b>			Proposed R	esponse	Response Status <b>O</b>		
<i>Cl <b>48</b></i> Pillai, Velu	SC <b>48-9b</b>	P 135 Broadcom	L 96	# 15	<i>Cl <b>48</b></i> Pillai, Velu	SC Fig 48-9b	P 135 Broadcom	L <b>5</b>	# [19
Comment T	<i>Type</i> <b>ER</b> needs to be   ID	Comment Status X			Comment T		Comment Status X d set rx_quiet <= FALSE		
SuggestedF This cor	,	d at two places in this state dia	gram.		SuggestedR				
Proposed R	Response	Response Status <b>O</b>			Proposed R	esponse	Response Status <b>O</b>		
<i>CI <b>48</b></i> Pillai, Velu	SC Fig48-9b	P 135 Broadcom	L	# [16	C/ 48	SC Fig 48-9	P132	L <b>23</b>	# 20
Comment T Please		Comment Status X be consistent with Fig 36-9b			Pillai, Velu Comment Ty		Broadcom Comment Status X		
SuggestedF	Remedy				rx_LPI_s SuggestedR	active = FALSE Remedy			
Proposed R	Response	Response Status <b>O</b>			rx_lpi_a Proposed R	ctive = FALSE esponse	Response Status O		
<i>Cl</i> <b>48</b> Pillai, Velu	SC Fig 48-9b	P 135 Broadcom	L <b>43</b>	# 17	C/ 48	SC 48.2.6.1.5	P 129	L <b>25</b>	# 21
Comment T Arc fron		Comment Status X X_LINK_FAIL should have !rx_v	wf_timer_done	instead of	Pillai, Velu <i>Comment T</i> j LPI_fail_	/pe ER _timer is not nee	Broadcom Comment Status X ded anymore		
SuggestedF	_				SuggestedR Remove	emedy the timer.	-		

Proposed Response

Proposed Response Response Status **0** 

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID # 21

Response Status 0

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## IEEE P802.3az D1.4 Energy Efficient Ethernet comments

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<i>Cl</i> <b>48</b> <i>SC</i> <b>48.2.6.1.5</b> Pillai, Velu	P <b>129</b> Broadcom	L <b>29</b>	# 22	C/         48         SC         Fig48-9b         P 135         L 10         # 25           Pillai, Velu         Broadcom
Comment Type ER Co Rx_deact_timer is no longer SuggestedRemedy Remove the timer	omment Status X			Comment Type <b>TR</b> Comment Status <b>X</b> Transition out of RX_ACTIVE back to itself has a condition align_status!= deskew_align_status. But align_status latches deskew_align_status inside RX_ACTIVE. Hence this transition condition is meaning less. SuggestedRemedy
Proposed Response Re	esponse Status <b>O</b>			Instead of the above, please use deskew_align_status = FAIL
C/ 48 SC Table 48-10	P 136	L 18	# 23	Proposed Response Response Status <b>O</b>
There is a row for Tda. But the SuggestedRemedy Remove the entire row	Broadcom omment Status X here is no debounce stat	e, hence no nee	ed for this timer value	Cl 49 SC 49.2.13.2.5 P 145 L 7 # 26 Pillai, Velu Broadcom Comment Type ER Comment Status X Rx_deact timer is no longer used SuggestedRemedy Remove it
2/48     SC 48.2.6.1.5       illai, Velu       comment Type     TR       During the adhoc/meetings, the draft is point to TWR , will				Proposed Response Response Status O Cl 49 SC Table 49-3 P 150 L 28 # 27 Pillai, Velu Broadcom Comment Type ER Comment Status X
receiver a chance to gracefu SuggestedRemedy Add a row to Table 48-10 for	Illy recover from a wake	time fault.	C C	There is a row for Tda. But there is no debounce state, hence no need for this timer value <i>SuggestedRemedy</i> Remove the entire row
Proposed Response Re	esponse Status O	·		Proposed Response Response Status O

Cl <b>49</b> SC <b>49.2.13</b> Pillai, Velu	.2.5 P 145 Broadcom	L <b>22</b>	# 28	Cl <b>49</b> SC Fig49 Pillai, Velu	9-17	P 149 Broadcom	L <b>7</b>	# 31
Comment Type TR	Comment Status X			Comment Type TR	Comment	t Status X		
During the adhoc/me	etings, the decision was to have	e the wake timer	r to be for 1ms. But in	RX_ACTIVE state :	should set rx_qui	et <= FALSE		
	NR, which is only 11-12uSec ( the receiver a chance to grace			SuggestedRemedy				
SuggestedRemedy								
Add a row to Table 49	9-3 for Twtf and assign 1ms. In	fact replace the	TDA row for this.	Proposed Response	Response	Status O		
Proposed Response	Response Status O							
				C/ 49 SC Fig49	9-17	P 149	L 27	# 32
C/ 49 SC Fig49-1	6 P 148	L 12	# 29	Pillai, Velu		Broadcom		
Pillai, Velu	Broadcom			Comment Type TR		t Status X		
Comment Type ER	Comment Status X			LPI TX state diagra	am designed only	to go through sc	rambler reset or	nly during WAKE. N. Which means the
	out of TX_ACTIVE for the condi es back to TX_ACTIVE	tion T_TYPE(tx_	_row) != LI needs to	receiver will not tak diagram. The refres	the arc from R	X_WAKE to RX_0	QUIET shown ir	LPI receive state
SuggestedRemedy				hence it is guarante	eed that rx_tw_tin	ner_done will be	asserted during	every refresh cycle.
				SuggestedRemedy				
Proposed Response	Response Status <b>O</b>			A state is needed b This new state (RX transition out of it n 1. An arc to RX QU	EREFRESH_WI	ΓH_FEC), should		her_done is asserted. _timer and the
C/ 49 SC Fig 49-1	16 P 148	L 19	# 30				YPE(rx_coded !	!= LI * rx_block_lock).
Pillai, Velu	Broadcom			Remove the arc go	ing from RX_WT		and also to RX	OLIET Remove
Comment Type <b>T</b>	Comment Status X			setting Start rx_wf_				
TX_ACTIVE and scra proposal had this stat	redundant state as the transition mbler_reset variable is set to fa the to assert 1uSec of IDLE code	alse in TX_ACTI eword after the S	VE state. The original SCR_RESET_1 state.	Proposed Response	Response	Status O		
But that extra time is	added to the T_wake Sys time ove this state and rename the p	budget. This ser revious state fro	rves the same	C/ 49 SC Fig 4	9-17	P 149	L 17	# 33
SCR_RESET.				Pillai, Velu		Broadcom		
SuggestedRemedy				Comment Type TR	Comment	t Status X		
Proposed Response	Response Status <b>O</b>							ded) = IDLE and not dewords may not be LI.
.,				SuggestedRemedy				

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 49 SC Figure Pillai, Velu	-49-15	P 147 Broadcom	L	# 34	<i>Cl</i> <b>73A</b> Pillai, Velu	SC	D	P <b>250</b> roadcom	L <b>32</b>	# 37	
					,						
Comment Type TR		nt Status X			Comment T		Comment Sta				
Rx PCS state machin during Rx LPI state r				st. This can happen			resentative of the			or does it provide xisting wording for	
SuggestedRemedy							ed in the existing			xisting wording for	
,	at to INIT state (	only when (reset	+ r test mode -	- hi ber + !block lock	SuggestedF	Remedy					
This solution also ha					Change	wording from					
Proposed Response	Response	e Status <b>O</b>			follow th	e transmissior		initial, Mess	age (formatted)	EE technology will next page] with at 45.2.7.13a."	
C/ <b>49</b> SC <b>Table</b> 4 Pillai, Velu		P <b>150</b> Broadcom	L <b>12</b>	# 35	"Multiple The EE	E technology c	ode message sha	Ill consist of	only a Message	r EEE technology. next page. The and 45.2.7.13.6:0 s	
Comment Type TR	Commen	nt Status X					:16. The remainir	ng field bits,	47:23 shall be s	ent as zero and	
Value of Twl is 17 us	s. This was the			el to use scrambler	0	on receipt."					
	All and the family set of the				Dropood D	~~~~~					
reset to handle FEC.	. And this value	is also more tha	n the total 1 wai	ke sys.	Proposed R	esponse	Response Stat	tus <b>O</b>			
reset to handle FEC. SuggestedRemedy		e is also more tha	n the total 1 wai	ke sys.	Proposed R	esponse	Response Stat	tus <b>O</b>			
reset to handle FEC. SuggestedRemedy Reduce this value to	o 12usec.		n the total 1 wai	ke sys.	Cl 36	SC <b>36.2.5.2</b> .		P <b>75</b>	L 5	# 38	
reset to handle FEC. SuggestedRemedy Reduce this value to	o 12usec.	e is also more that e Status <b>O</b>	n the total I wai	e sys.		SC 36.2.5.2.	1			# 38	
reset to handle FEC. SuggestedRemedy Reduce this value to	o 12usec.		n the total I wai	ke sys.	C/ 36	SC <b>36.2.5.2.</b> mes	1	P <b>75</b> itesse Semio		# 38	
reset to handle FEC. SuggestedRemedy Reduce this value to Proposed Response	o 12usec. Response		L 10	# <u>36</u>	CI <b>36</b> Barnette, Ja Comment T In Figur	SC <b>36.2.5.2.</b> mes / <i>pe</i> <b>TR</b> e 36-6 PCS tra	1 Vi Comment Sta	P <b>75</b> itesse Semic <i>tus</i> <b>X</b> state diagra	conducto	# 38	ode
reset to handle FEC. SuggestedRemedy Reduce this value to Proposed Response Cl 49 SC Fig 49- Pillai, Velu	12usec. Response	e Status <b>O</b> P <b>149</b> Broadcom			CI <b>36</b> Barnette, Ja Comment T In Figur	SC <b>36.2.5.2.</b> mes <i>vpe</i> <b>TR</b> e 36-6 PCS tra eneration for o	1 Vi <i>Comment Sta</i> nsmit code-group	P <b>75</b> itesse Semic <i>tus</i> <b>X</b> state diagra	conducto		ode
reset to handle FEC. SuggestedRemedy Reduce this value to Proposed Response Cl 49 SC Fig 49- Pillai, Velu Comment Type TR	o 12usec. Response -17 Commen _ACTIVE back	P 149 Broadcom <i>ht Status</i> X to itself has a cor	L 10	# <u>36</u> :k!= rx_block_lock. But	Cl <b>36</b> Barnette, Ja Comment T In Figur group g SuggestedF - Add 5 LPI_DIS IDLE_D	SC 36.2.5.2. mes //pe TR e 36-6 PCS tra eneration for o ?emedy new states, LP SPARITY_OK, ISPARITY_TE	1 <i>Comment Sta</i> nsmit code-group rdered-set tx_o_se I_DISPARITY_TE and LPI_I2B that I	P <b>75</b> itesse Semic tus <b>X</b> state diagra et=/Ll/. EST, LPI_DI have a simila	am, there is no ir SPARITY_WRO ar flow as the 5 o	nplementation of c	
reset to handle FEC. uggestedRemedy Reduce this value to roposed Response 49 SC Fig 49- illai, Velu comment Type TR Transition out of RX_ block_lock latches ry meaning less.	o 12usec. Response -17 Commen _ACTIVE back	P 149 Broadcom <i>ht Status</i> X to itself has a cor	L 10	# <u>36</u> :k!= rx_block_lock. But	CI <b>36</b> Barnette, Ja Comment T In Figur group g SuggestedF - Add 5 LPI_DIS IDLE_D and IDL	SC 36.2.5.2. mes ype TR e 36-6 PCS tra eneration for o <i>Remedy</i> new states, LP PARITY_OK, ISPARITY_TE E_I2B.	1 <i>Comment Sta</i> nsmit code-group rdered-set tx_o_se I_DISPARITY_TE and LPI_I2B that I ST, IDLE_DISPAR	P <b>75</b> itesse Semio tus X state diagra et=/Ll/. EST, LPI_DI have a simili RITY_WROM	conducto am, there is no ir SPARITY_WRO ar flow as the 5 NG, IDLE_I1B, II	nplementation of c NG, LPI_I1B, existing states,	
reset to handle FEC. SuggestedRemedy Reduce this value to Proposed Response Cl 49 SC Fig 49- Pillai, Velu Comment Type TR Transition out of RX_ block_lock latches ry meaning less.	o 12usec. <i>Response</i> - <b>17</b> Commen _ACTIVE back x_block_lock ins	P 149 P 149 Broadcom Int Status X to itself has a cor Iside RX_ACTIVE	L 10 ndition block_loc . Hence this tra	# <u>36</u> :k!= rx_block_lock. But	C/ 36 Barnette, Ja Comment T In Figur group g SuggestedF - Add 5 IDLE_D and IDL - Add a tx_o_se	SC 36.2.5.2. mes ype TR e 36-6 PCS tra eneration for o <i>Remedy</i> new states, LP SPARITY_OK, ISPARITY_OK, ISPARITY_TE E_12B. new arc from C t=/LI/.	1 <i>Comment Sta</i> nsmit code-group rdered-set tx_o_se I_DISPARITY_TE and LPI_I2B that I ST, IDLE_DISPAF GENERATE_COD	P75 itesse Semio tus X state diagra et=/Ll/. EST, LPI_DI have a simila RITY_WROM	conducto am, there is no ir SPARITY_WRO ar flow as the 5 NG, IDLE_11B, II S to LPI_DISPAR	nplementation of c NG, LPI_I1B, existing states, DLE_DISPARITY_ RITY_TEST when	
reset to handle FEC. SuggestedRemedy Reduce this value to Proposed Response Cl 49 SC Fig 49- Pillai, Velu Comment Type TR Transition out of RX_ block_lock latches rx meaning less. SuggestedRemedy	o 12usec. <i>Response</i> - <b>17</b> Commen _ACTIVE back x_block_lock ins e, please use rx_	P 149 P 149 Broadcom Int Status X to itself has a cor Iside RX_ACTIVE	L 10 ndition block_loc . Hence this tra	# <u>36</u> :k!= rx_block_lock. But	C/ 36 Barnette, Ja Comment T In Figur group g SuggestedF - Add 5 LPI_DIS IDLE_D and IDL - Add a tx_o_se - Replic includei - Chang	SC 36.2.5.2. mes ype TR e 36-6 PCS tra eneration for o cemedy new states, LP SPARITY_OK, ISPARITY_OK, ISPARITY_TE E_I2B. new arc from ( t=/LI/. ate the existing ng the exit to the e the tx_code-	1 <i>Comment Sta</i> nsmit code-group rdered-set tx_o_so I_DISPARITY_TE and LPI_I2B that I ST, IDLE_DISPAF GENERATE_COD g arcs that are in the common GENE	P75 itesse Semio tus X state diagra et=/Ll/. EST, LPI_DI have a simila RITY_WROM DE_GROUPS he IDLE_* si ERATE_COI e new LPI_I	SPARITY_WRO arm, there is no ir SPARITY_WRO ar flow as the 5 NG, IDLE_I1B, II S to LPI_DISPAF tates into the ne DE_GROUPS st	mplementation of c MG, LPI_I1B, existing states, DLE_DISPARITY_ RITY_TEST when w LPI_* states	<u>.</u> OK,

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C/ 36 SC 36.2.5.2.8 P 81 L 10 # 39	C/ 36 SC 36.2.5.2.1 P73 L 44 # 41
Barnette, James Vitesse Semiconducto	Barrass, Hugh Cisco
Comment Type <b>TR</b> Comment Status <b>X</b> When detect_lpidle is asserted and the state transitions from RX_ACTIVE to RX_SLEEP, the part ordered act to be received in our LPL which is ///28.5/D6.5/ or ///28.5/D26.4/. Then	Comment Type E Comment Status X Figure references wrong
the next ordered set to be received is an LPI, which is /K28.5/D6.5/ or /K28.5/D26.4/. Then after /K28.5/ is received, detect_idle would be asserted using the definition from section 36.2.5.1.3 and the state would transition to RX_ACTIVE. When /D6.5/ or /D26.4/ is received then detect_lpidle is asserted, thus transitioning back to RX_SLEEP from RX_ACTIVE. This means, as long as the LPI ordered set is received then the state	SuggestedRemedy Change "Figures 36-1 and 36-2" to "figures 36-5 and 36-6" (with active links). Also, P.74, change figure title to "Figure 36-5"
transitions back and forth between RX_ACTIVE and RX_SLEEP and that is clearly not the intended behavior.	Proposed Response Response Status O
SuggestedRemedy	
To avoid toggling back and forth, while in RX_SLEEP active, detect_idle should be sampled only for every other code word. This way when an ordered set /K28.5// <some_code_word>/ is received, then detect_idle or detect_lpidle will go high appropriately after decoding <some_code_word>. One possible way to do this is to split RX_SLEEP into two states RX_SLEEP_1 and RX_SLEEP_2, both having the same functionality of the existing RX_SLEEP state.</some_code_word></some_code_word>	Cl 36       SC 36.2.5.2.8       P 80       L 23       # 42         Barrass, Hugh       Cisco         Comment Type       T       Comment Status       X         The "loop" transitions for states TX_SLEEP, TX_QUIET and TX_REFRESH are all invalid
When detect_lpidle is asserted, RX_ACTIVE/RX_WAKE/RX_WTF would transition into         RX_SLEEP_1 state and as long as detect_lpidle is asserted state would always be         RX_SLEEP_1. While in RX_SLEEP_1, detect_idle would transition to RX_SLEEP_2 state.         If current state is RX_SLEEP_2 and detect_idle is asserted, then state transitions to         RX_ACTIVE else if detect_lpidle is asserted then state transitions to RX_SLEEP_1. If         signal_detect fails while either in state RX_SLEEP_1 or RX_SLEEP_2 then state         transitions to RX_QUIET.         Proposed Response       Response Status       O	because they would cause the timers to keep restarting (even if they didn't, they would be redundant since the state machine remains in the state unless an exit is valid.         SuggestedRemedy         Delete the "loop" transitions for states TX_SLEEP, TX_QUIET and TX_REFRESH.         Proposed Response       Response Status         C/ 48       SC 48.2.6.2.5       P 134       L 21       # 43
	Barrass, Hugh Cisco
C/ 36 SC 36.2.5.2.1 P75 L 11 # 40	Comment Type T Comment Status X
Barrass, Hugh Cisco Comment Type T Comment Status X	The "loop" transitions for states TX_SLEEP, TX_QUIET and TX_REFRESH are all invalid because they would cause the timers to keep restarting (even if they didn't, they would be redundant since the state machine remains in the state unless an exit is valid.
There needs to be a transition for $tx_o_set = /LI/$	SuggestedRemedy
SuggestedRemedy	Delete the "loop" transitions for states TX_SLEEP, TX_QUIET and TX_REFRESH.
Change "tx_o_set = /l/" to "tx_o_set = /l/ + /Ll/"	Proposed Response Response Status O
Change state IDLE_I1B: "tx_code-group <= /D5.6/" to "if tx_o_set = /I/ then tx_code-group <= /D5.6/ else tx_code-group <= /D6.5/"	
Change state IDLE_I2B: "tx_code-group <= /D16.2/" to "if tx_o_set = /I/ then tx_code-group <= /D16.2/ else tx_code-group <= /D26.4/"	
Proposed Response Response Status O	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wr SORT ORDER: Comment ID	

C/ 49 SC 49.2.	13.3.1	P 150	L 10	# 44	C/ 00	SC O		Р	L	# 46
Barrass, Hugh		Cisco			Brown, Matt	t	ŀ	MCC		
Comment Type T	Comm	ent Status X			Comment T	ype ER	Comment St	atus D		
It doesn't make ser allowed to recover machine.					variable		n value (e.g., energ			comparison of boolean mparison is redundant
SuggestedRemedy					SuggestedF	Remedy				
Change T(ul) to 11	uS						s in draft as follows			
Proposed Response	Respor	nse Status O			" <boole< td=""><td>an_variable&gt;</td><td>= TRUE" with "<b = FALSE" with "!&lt;</b </td><td></td><td></td><td></td></boole<>	an_variable>	= TRUE" with " <b = FALSE" with "!&lt;</b 			
					Proposed R	Response	Response Sta	atus W		
C/ <b>49</b> SC <b>49.2.</b> Barrass, Hugh	13.3.1	P <b>148</b> Cisco	L <b>20</b>	# 45			PT IN PRINCIPLE.			
Comment Type T	0	ent Status X				mended chang xt of the draft.	•	here it does	not, by itself, cau	use a change in the
The "loop" transitio				FRESH are all invalid didn't, they would be			would create a cha k force, i.e., it is a s			not required by the brs will use their
because they would redundant since the			ate unless an ex	tit is valid.		on.				
redundant since the			ate unless an ex	it is valid.	discretio					
redundant since the	e state machir	ne remains in the st			discretio	SC 36.2.5.1	1.3	P <b>72</b>	L <b>32</b>	# 47
redundant since the SuggestedRemedy Delete the "loop" tr	e state machir ransitions for s	ne remains in the st			discretio C/ <b>36</b> Brown, Matt	SC 36.2.5.1	1.3	MCC	L 32	# 47
redundant since the SuggestedRemedy Delete the "loop" tr	e state machir ransitions for s	ne remains in the states TX_SLEEP, T			discretio CI 36 Brown, Matt Comment T	SC <b>36.2.5.1</b> t Type <b>T</b>	1.3	MCC	L 32	# [47
redundant since the SuggestedRemedy Delete the "loop" tr	e state machir ransitions for s	ne remains in the states TX_SLEEP, T			discretio CI 36 Brown, Matt Comment T	SC <b>36.2.5.1</b> t <i>Type</i> <b>T</b> an "enumerat	1.3 Comment St	MCC	L 32	# [47
redundant since the SuggestedRemedy Delete the "loop" tr	e state machir ransitions for s	ne remains in the states TX_SLEEP, T			discretion CI <b>36</b> Brown, Matt Comment T What is SuggestedF	SC <b>36.2.5.1</b> t <i>Type</i> <b>T</b> an "enumerat Remedy	1.3 Comment St	MCC	L 32	# [47
redundant since the SuggestedRemedy Delete the "loop" tr	e state machir ransitions for s	ne remains in the states TX_SLEEP, T			discretion CI <b>36</b> Brown, Matt Comment T What is SuggestedF	SC <b>36.2.5.1</b> t <i>Type</i> <b>T</b> an "enumerate Remedy e "enumerated	1.3 Comment St ited variable"?	AMCC atus X	L 32	# [ <u>47</u>
redundant since the SuggestedRemedy Delete the "loop" tr	e state machir ransitions for s	ne remains in the states TX_SLEEP, T			discretio CI 36 Brown, Matt Comment T What is SuggestedF Change	SC 36.2.5.1 t ype T an "enumeral Remedy e "enumerated Response SC 46.3.1.2	1.3 Comment St ited variable"? d" to "boolean". Response Sta	AMCC atus X	L 32 L 10	# [ <u>47</u> # [ <u>48</u>
redundant since the SuggestedRemedy Delete the "loop" tr	e state machir ransitions for s	ne remains in the states TX_SLEEP, T			discretion C/ 36 Brown, Matt Comment T What is SuggestedF Change Proposed R C/ 46 Brown, Matt Comment T The 06	SC 36.2.5.1 t an "enumerated Remedy e "enumerated Response SC 46.3.1.2 t Type ER	1.3 <i>Comment St</i> ited variable"? it to "boolean". <i>Response Sta</i> 2 <i>Comment St</i> often referred to in	MCC atus X atus O P121 MCC atus X	L 10	
redundant since the SuggestedRemedy Delete the "loop" tr	e state machir ransitions for s	ne remains in the states TX_SLEEP, T			discretion C/ 36 Brown, Matt Comment T What is SuggestedF Change Proposed R C/ 46 Brown, Matt Comment T The 06	SC 36.2.5.1 t ype T an "enumerated Remedy e "enumerated Response SC 46.3.1.2 t ype ER character is o have this labe	1.3 <i>Comment St</i> ited variable"? it to "boolean". <i>Response Sta</i> 2 <i>Comment St</i> often referred to in	MCC atus X atus O P121 MCC atus X	L 10	# [48
redundant since the SuggestedRemedy	e state machir ransitions for s	ne remains in the states TX_SLEEP, T			discretion <i>Cl</i> <b>36</b> Brown, Matt <i>Comment T</i> What is <i>SuggestedF</i> Change <i>Proposed R</i> <i>Cl</i> <b>46</b> Brown, Matt <i>Comment T</i> The 06 should H <i>SuggestedF</i>	SC 36.2.5.1 t Type T an "enumerated Remedy "enumerated Response SC 46.3.1.2 t type ER character is o have this labe Remedy	1.3 <i>Comment St</i> ited variable"? it to "boolean". <i>Response Sta</i> 2 <i>Comment St</i> often referred to in	MCC atus X atus O P121 MCC atus X subsequent	L 10 sections as the L	# 48

			ee	Efficient Ethernet comme	ents		June 200
C/ 48 SC 48.2.3 Brown, Matt	<i>Р</i> <b>126</b> АМСС	L <b>30</b>	# 49	C/ 48 SC 48.2.4.2 Brown, Matt	P 128 AMCC	L 26	# 52
WAKE cycle. SuggestedRemedy Label columns 1-2 an Label columns 3 to 15	Comment Status X GMII and PCS encoding span d 16-18 as active time. 5 as LPI time. and LPI sleep/quiet/refresh tim	c .	s but labels only the	Comment Type ER Clarify that this means SuggestedRemedy Change LP_IDLE to Li Proposed Response	_		
Proposed Response	Response Status <b>O</b>			C/ 48 SC 48.2.6.1. Brown, Matt	2 P 128 AMCC	L <b>47</b>	# 53
C/ 48 SC 48.2.4 Brown, Matt	P <b>127</b> AMCC	L <b>29</b>	# 50	<i>Comment Type</i> <b>ER</b> This is not an "alias".	Comment Status X	.	
Comment Type <b>T</b> Table 48-2 footnote (a SuggestedRemedy	Comment Status X a) refers to "rules described be	ow". Not clear to	what it is referring.		ed sets are a special case of l	dle ordered sets	(IIIII) transmitted
Change "below" to "in	48.2.4.2".			during low power late r	mode as described in 48.2.4.2	2."	
-	48.2.4.2". Response Status O			5 1	nges suggested for 48.2.4.2 a Response Status <b>0</b>		
Proposed Response	Response Status O P 127 AMCC	L 53	# 51	Alternately, make char	nges suggested for 48.2.4.2 a		
Proposed Response 27 48 SC 48.2.4 Brown, Matt Comment Type T	Response Status 0			Alternately, make char Proposed Response CI 48 SC 48.2.4.2 Brown, Matt Comment Type ER	nges suggested for 48.2.4.2 a Response Status O P128 AMCC Comment Status X	nd delete this de	fition altogether. # <u>54</u>
roposed Response 4 48 SC 48.2.4 rown, Matt comment Type T Table 48-3 footnote (a	Response Status O P 127 AMCC Comment Status X a) refers to "rules described be			Alternately, make char Proposed Response CI 48 SC 48.2.4.2 Brown, Matt Comment Type ER	nges suggested for 48.2.4.2 a Response Status <b>O</b> P <b>128</b> AMCC	nd delete this de	fition altogether.
Proposed Response Cl 48 SC 48.2.4 Brown, Matt Comment Type T Table 48-3 footnote (a SuggestedRemedy	Response Status O P 127 AMCC Comment Status X a) refers to "rules described be			Alternately, make char Proposed Response Cl 48 SC 48.2.4.2 Brown, Matt Comment Type ER Define low power idle SuggestedRemedy Change title to "48.2.4 Add the following the p "The low power idle or	nges suggested for 48.2.4.2 a Response Status O P128 AMCC Comment Status X	nd delete this de <i>L</i> 4 as alias in comm dle (  LPIDLE  ) 128 as follows: cial of   I   where I	fition altogether. # <u>54</u> hent section. ow power idle is"

Comments		IEEE P	802.3az D1.4 Energy	y Efficient Ethernet comments				June 2009		
C/ 48 SC 48.2.6.1.3 Brown, Matt	<i>P</i> <b>129</b> AMCC	L <b>6</b>	# 55	C/ <b>48</b> Brown, Matt	SC 48.2.6.1.3	<i>P</i> <b>129</b> AMCC	L 10	# 57		
align_status definition for SuggestedRemedy Delete current defintion o	Comment Type         T         Comment Status         X           deskew_align_status is the same as align_status used to be not as it is. Need to adopt old align_status definition for deskew_align_status and re-define align_status.					Comment Type       T       Comment Status       X         When rx_lpi_active is FALSE it may not be "capable of receiver data" as there may be input fault.         SuggestedRemedy         Change "capable of receiving data" to "is not in the LPI mode".         Proposed Response       Response Status       O				
"deskew_align_status": deskew_align_status A parameter set by the Po group alignment. Values: FAIL; The deskew proces OK; All lanes are synchro Re-define align status as align_status Variable equivalent to des	CS Deskew process to refle s is not complete. nized and aligned.	ect the status of t t in LPI mode. D	the ane-to-lane code-	SuggestedR	il also indicates emedy the sentence wi	P 129 AMCC Comment Status X that the link has failed durin ith "or if the link has otherwis Response Status O	0	# 58		
0 =	Response Status <b>O</b>	achine as speci		C/ <b>48</b> Brown, Matt	SC 48.2.6.1.3	P 129 AMCC	L 17	# 59		
Cl 48 SC 48.2.6.1.3 Brown, Matt Comment Type T What is an "enumerated of SuggestedRemedy		<i>L</i> 10	# 56	SuggestedR Add the When th essentia	, tt to indicate the emedy following senter is variable is TR functions.	RUE it indicates that receive	PCS and PMD r	may power-down non-		
Change "enumerated" to Proposed Response	"boolean". <i>Response Status</i> <b>0</b>			Proposed Re	esponse	Response Status <b>O</b>				

Comments		IEEE P	802.3az D1.4 Energy	Efficient Ethe	ernet comme	ents		June 2009
C/ 48 SC 48.2.6.1.3 Brown, Matt	P 129 AMCC	L <b>20</b>	# 60	C/ <b>48</b> Brown, Matt	SC 48.2.6.1.	5 <i>P</i> <b>130</b> AMCC	L <b>3</b>	# 63
Comment Type <b>T</b> Co Need text to indicate the sigr	omment Status X			Comment T 		Comment Status X of the PCS LPI transmit s	tate machine not F	PMD receiver.
SuggestedRemedy Add the following sentence When this variable is TRUE essential functions.		t PCS and PMD r	nay power-down non-	the TX_	"PMD's receiv QUIET state".	er enters the TX_QUIET s	tate" to "LPI transi	nit state machine enters
Proposed Response Re	sponse Status O			Proposed R	esponse	Response Status <b>O</b>		
	P 129 AMCC	L <b>26</b>	# 61	C/ <b>48</b> Brown, Matt		AMCC	L <b>7</b>	# 64
	omment Status X			SuggestedF	tr_timer is part Remedy	Comment Status X		
Delete LPI_fail_timer and de	scription.				"PMD's receiv ne TX_REFRE	er enters the TX_REFRES SH state".	SH state" to "LPI tra	ansmit state machine
Proposed Response Re	sponse Status <b>O</b>			Proposed R	esponse	Response Status <b>O</b>		
C/ 48 SC 48.2.6.1.5 Brown, Matt	<i>P</i> 129 AMCC	L 31	# 62	<i>Cl</i> <b>48</b> Brown, Matt	SC 48.2.6.1.	6 <i>P</i> 130 AMCC	L 19	# 65
Comment Type <b>T</b> Co rx_deact_time is no longer u	omment Status X sed in this section.			Comment T PMD_R		Comment Status X st(rx_quiet) description no	t correct.	
SuggestedRemedy Delete rx_deact_timer and d Proposed Response Re	escription. sponse Status <b>O</b>			"A boole the PMI	current descript ean signal sent D may power de XQUIET.reque	ion and replace with the fo by the PCS to the PMD to own non-essential functior st(rx_quiet) is equal to the	o indicate, when the	
				Proposed R	esponse	Response Status 0		

C/ 48 SC 48.2.6.1 Brown, Matt	1.6 <i>P</i> 130 AMCC	L <b>22</b>	# 66	C/         48         SC         48.2.6.2.5         P 135         L 8         # 69           Brown, Matt         AMCC
Comment Type <b>TR</b> PMD_TXQUIET.requ	Comment Status X est(tx_quiet) description not co	rrect.		Comment Type <b>T</b> Comment Status <b>X</b> In Figure 48-9b, need to initialize rx_quiet variable.
"A boolean signal ser PMD must disable the value of PMD_TXQU receive state machine		dicate when the v down non-essen	tial functions. The	SuggestedRemedy In RX_ACTIVE state add line "rx_quiet <= FALSE" Proposed Response Response Status <b>O</b>
Proposed Response	Response Status <b>O</b>			C/         48         SC         48.2.6.2.5         P 135         L 10         #         70           Brown, Matt         AMCC         AMCC <td< td=""></td<>
CI <b>48</b> SC <b>48.2.6.2</b> Brown, Matt Comment Type <b>T</b>	2.1 P 131 AMCC Comment Status X	L <b>52</b>	# 67	Comment Type <b>T</b> Comment Status <b>X</b> In Figure 48-9b, in the transition from RX_ACTIVE state to itself the condition   IDLE   is unnecessary since the only purpose for this transition appears to be to keep align_status up to date.
In the notes at the bo /D20.5/ is replaced in SuggestedRemedy	one row not column.			SuggestedRemedy Change "  IDLE   + align_status != deskew_align_status" to "align_status != deskew_align_status".
Proposed Response	n is replaced" with "one row is r Response Status <b>O</b>	eplaced".		Perhaps the intent was the following "!  LPIDLE   * align_status != deskew_align_status"
C/ 48 SC 48.2.6.2	2.5 <i>P</i> 134	L 11	# 68	Proposed Response Response Status <b>O</b>
Brown, Matt Comment Type <b>ER</b>	AMCC Comment Status X			C/ 48 SC 48.2.6.2.5 P 135 L 16 # 71 Brown, Matt AMCC
Redundant and out o SuggestedRemedy Change "reset=TRUE	f style to equate variable to Bo	olean value.		Comment Type E Comment Status X In Figure 48-9b, there are two instances of   IDLE   where the right-hand bars appear to be "II" (two "I's") not "  " (two bars).
Proposed Response	Response Status <b>O</b>			SuggestedRemedy Replace IIIDLE   with   IDLE  .
				Proposed Response Response Status O

where the signal level on the link is sporadic. The problem is caused by the timer being continually reset.Suggested/RemedySuggested/RemedyThe suggested remedy is to create a new state that prevents the timer from being reset every time a false wake or refers is detected.Create a new state between RX_SLEEP and RX_OUET. Call the new state RX_OUET_INIT (or other suitable name). The transition criteria from RX_SLEEP to X_OUET_INIT (or other suitable name). The transition criteria from RX_OUET_INIT to "RX_OUET_INIT will be "signal_detect=fail". Within RX_OUET_INIT to "RX_OUET_INIT to "RX_OUET_IN	In Figure 48-3b, the transition from RX, WIKE to RX, QUIET when signal, detect=FAIL, could be and endess toop in realitic failure continons such as link partner driver soft failing optimizer to another devices or continons such as link partner driver soft failing detected. The suggested fermedy is to create a new state that prevents the timer from being reset every time a false wake or refresh is detected. Create an ew state baty week or refresh is detected. Create an ew state baty week or refresh is detected. Create an ew state baty week or refresh is detected. Create an ew state baty week or refresh is detected. Create an ew state baty week to refresh is detected. Create an ew state baty week or refresh is detected. Create and withing CUIET_INIT (or other suitable name). The transition criteria from "RX_QUIET_INIT (or other suitable name). The transition criteria from "RX_QUIET_INIT for "RX_QUIET_INIT to "RX_QUIET_is to UEC1 (unconditional transition). In RX_QUIET_INIT to "RX_QUIET_is to UEC1 (unconditional transition). In RX_QUIET_state delete Stat rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_QUIET_ind RX_WAKE of RX_OTH due to sporadic energy, the rx_tq_timer will the inter run.) And the delete Stat rx_tq_timer that signal detect fail'. Writin RX_QUIET_state delete Stat rx_tq_timer that signal detect fail'. Writin RX_QUIET_state delete Stat rx_tq_timer that signal detect fail'. Writin RX_QUIET_state delete Stat rx_tq_timer that signal detect fail'. Writin RX_QUIET_state delete Stat rx_tq_timer that signal detect fail'. Writin RX_QUIET_state state machine is to transition from TX_REFRESH to tas addite a transition. Suggested/Remedy to sporadic energy, the rx_tq_timer that signal ender to transition from the transitian to the state RX_SLEEP to RX	In Figure 48-9b, the transition from RX_WAKE to RX_OULET when signal, detect=FAL         could be and nedless loop in realitic failure conditions such as link pather driver soft failing where the signal level on the link is sporadic. The problem is caused by the timer being continually reset.         ggested/Remedy         The suggested remedy is to create a new state that prevents the timer from being rest every time a false wake or refresh is detected.         Create a new state between RX_SLEEP and RX_OUET.         Create a new state QUIET_INIT for other suitable name).         The transition criteria from "RX_OUET_INIT for other suitable name).         The transition criteria from "RX_OUET_INIT for the X_OUET and RX_WAKE or RX_OUET is UCT (unconditional transiton).         NA as result, regardless of how many transitions occu between RX_OUET and RX_WAKE or RX_OUET and RX_OUET and RX_WAKE or RX_OUE	rown, Matt	6.2.5 P1 AMC	1 <b>35</b> <i>L</i> 26 C	# 72	<i>Cl</i> <b>48</b> Brown, Ma	SC 48.2.6.2.5	P 134 AMCC	L 37	# 74
could be and endiess loop in realitic failure conditions such as link partner driver soft failing where the signal level on the link is sporadic. The problem is caused by the timer being continually reset.We want the sporadic on the local by the timer being reset every time a false wake or refresh is detected.The suggested remedy is to create a new state that prevents the timer from being reset every time a false wake or refresh is detected.Suggested/RemedySuggested/RemedyCreate a new state RX_OULET_INIT set usuable name). The transition criteria from RX_SLEEP to RX_OULET_INIT will be "signal_detect=fail". Within RX_OULET_INIT to "RX_OULET_INIT to "RX_QUIET" is UCT (unconditional transition. In RX_OULET_STATE tabe delete Start rx_tq_timer will time out and an fault will be detected.Suggested/RemedyIn RX_OULET state delete Start rx_tq_timer will time out and an fault will be detected.Images to the link partner driver continues to see any white mininal time TSLRX slightly larger than TSL. Define new timer rx_ts_timer will time into at the risk rk to up any the rest to RX_SLEEP state if the link partner driver 	could be and endless loop in realitic failure conditions such as link partner driver soft failing where the signal level on the link is sporadic. The problem is caused by the timer being continually reset.       RX_WAKE required detection of either [[LPIDLE]] or [[IDLE]]. For the latter, the length of the wake sequence is not enforced by the DCS but rather depends upon the layer above the sequence is not enforced by the DCS but rather depends upon the layer above the sequence is not enforced by the DCS but rather depends upon the layer above the sequence is not enforced by the DCS but rather depends upon the layer above the sequence is not enforced by the DCS but rather depends upon the layer above the sequence is not enforced by the DCS but rather depends upon the layer above the sequence is not enforced by the DCS but rather depends upon the layer above the sequence is not enforced by the DCS but rather depends upon the layer above the sequence is not enforced by the depends upon the layer above the sequence is not enforced by the depends upon the layer above the sequence is not enforced by the timer PCS but rather depends upon the layer above the sequence is not enforced by the depends upon the layer above the sequence is not enforced by the depends upon the layer above the sequence is not enforced by the depends upon the layer above the sequence is not enforced by the depends upon the layer above the sequence is not enforced by the depends upon the layer above the sequence is not enforced by the depends upon the layer above the sequence is not enforced by the depends upon the layer above the sequence is not ensite the sequence is not ensite the sequence is not ensite the layer above the sequence is not ensite the layer above the sequence is not ensite the layer above the layer above the sequence is not ensite the layer above the enset upon the sequence is not ensite the layer above the enset of the layered above the layered above the layered above the layer above the	could be and endies loop in realitic failure conditions such as link partner driver soft failing where the signal level on the link is sporadic. The problem is caused by the timer being continually reset.       Suggested/Remedy         results reastion oriteria from RX_SLEEP and RX_QUIET.       Suggested/Remedy       Suggested/R				on signal datast		••			n RX W/TE and
Suggested/Remedy         The suggested remedy is to create a new state that prevents the timer from being reset every time a false wake or refresh is detected.         Create a new state between RX_SLEEP and RX_QUIET.         Call the new state RX_QUIET_INIT control the suitable name).         The transition criteria from RX_SLEEP to RX_QUIET_INIT will be "signal_detect=fail".         "Stat rx_w_timer"         "The transition criteria from RX_SLEEP to RX_QUIET_INIT or ito "RX_QUIET_INIT is the key to letting the timer run.)         As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE detected. <i>in RX_QUIET</i> tate delete Start rx_tq_timer. (This is the key to letting the timer run.)         As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE detected. <i>iroposed Response</i> Response Status <b>O</b> // 48       SC 48.2.6.2.5       P 135       L 13       # [73]         roomment Type       TR       Comment Status <b>X</b> TUL definition with "Local refresh time from signal enable to signal disable." <i>proposed Response</i> Response Status <b>O</b> O         In Figure 49.0, it possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       Suggested/Remedy         Create new timer r. ts_timer '. Add transition to RX_SLEEP state. The timer '. st_timer'. Add action to RX_SLEEP state. The timer transition counter is atrot ts_timer	Suggested/Remedy         Wiggested/Remedy         The suggested/Remedy         Create a new state between RX_SLEEP and RX_QUIET.         Call the new state RX_QUIET_INIT (or therminal count equal to required wake time TWR.         The transition criteria from RX_SLEEP and RX_QUIET_INIT will be "signal_detect=fail".         Within RX_QUIET_INIT state include the following action:         "Start rx_tw_timer"         The transition criteria from "RX_QUIET_INIT to "RX_QUIET_INIT to "RX_QUIET_INIT to "RX_QUIET_INIT state delete Start rx_tw_timer".         As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE detected.         rown, Matt       AMCC         rown, Matt       AMCC         rown, Matt       AMCC         In Figure 49-bi, this possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.         Uggested/Remedy         Create new timer rx_ts_timer_with terminal count it will set rx_ts_timer_done = TRUE."         Add transition to RX_SLEEP state "It inter its rated when the LPI receive state method in Table 48-10 is no longer used.         Suggested/Remedy         Create new timer rx_ts_timer_chone = TRUE."         Add transition to RX_SLEEP state "The timer from rise_tomer_one".	SuggestedRemedy         SuggestedRemedy         Create a new state between RX_SLEEP and RX_QUIET.         Call the new state X_QUIET_INIT contrasting from RX_SLEEP to RX_QUIET.         Call the new state RX_QUIET_INIT contrasting from RX_SLEEP to RX_QUIET.         Within RX_QUIET_INIT state addite action "Statut x_wake_time" with terminal count equal to required wake time TWR.         In TA_REFRESH state add the action "Statut x_wake_time" with terminal count equal to required wake time TWR.         In TA_WITE due to sporadic energy, the rx_lq_timer. (This is the key to letting the timer run.)         As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE detected.         own, Matt       AMCC         48       SC 48.2.6.2.5       P 135       L 13       # [73]         own, Matt       AMCC       SuggestedRemedy         Response Status X       O       Ci 48       SC 48.2.6.2.5       P 135       L 13       # [73]         own, Matt       AMCC       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy         Create new timer rk x_S. LEEP state. The time remain locunt if will set rx_ts_timer_done = TRUE."       Add transition to X_LINK_FALL state with there itering _done".       SuggestedRemedy         Delete row defining TDA.       Proposed Response       Response Status X       Ci 48       Ci 48       SC 48.2.6.2.5	could be and endles where the signal lev	ss loop in realitic failure	conditions such as lir	nk partner driver soft failing	RX_W the wa give th	AKE required detended Ake sequence is not an correct value. T	ection of either   LPIDL ot enforced by the PCS	E   or   IDLE  . For the but rather depends	e latter, the length of upon the layer above to
The transition criteria form RX_QUIET_INIT for other suitable name). The transition criteria form RX_QUIET_INIT (or other suitable name). The transition criteria form RX_SLEEP to RX_QUIET_INIT will be "signal_detect=fail". Within RX_QUIET_INIT for the SU_QUIET_INIT will be "signal_detect=fail". Within RX_QUIET_INIT state include the following action: "Start rX_w timer" The transition criteria form "RX_QUIET_INIT to "RX_QUIET" is UCT (unconditional transition). In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. roposed Response Response Status O $(148 \ SC 48.2.6.2.5 \ P135 \ L13 \ T_3^{$	The staggested Response       Response Status       0         Ci 48       SC 48.2.6.2.5       P136       L 8       # [75]         Comment Type       T       Comment Status X       Comment Status X       Comment Status X         In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than IIIDLE   and does not disable its output.       The formation counter is a tor SLEP state "Status X, there th	We way time a false wake or refresh is detected.         Create a new state between RX_SLEEP and RX_QUIET.         Call the new state RX_QUIET_INIT (or other suitable name).         The transition criteria form "RX_SLEEP to RX_QUIET_INIT will be "signal_detect=fail".         Within RX_QUIET_INIT state include the following action:         'Start x_t, witner'         The transition criteria from "RX_QUIET_INIT to "RX	uggestedRemedy				-	-			
Create a new state between RX_SLEEP and RX_QUIET. Call the new state between RX_SLEEP and RX_QUIET. Call the new state RX_QUIET_INIT (or other suitable name) The transition criteria from "RX_SLEEP to RX_QUIET_INIT will be "signal_detect=fail". Within RX_QUIET_INIT state include the following action: "Start rx_w time" The transition criteria from "RX_QUIET_INIT to "RX_QUIET_INIT to "RX_QUIET is UCT (unconditional transition). In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. The grant state SC 48.2.6.2.5 P136 L8 # [75] Brown, Matt AMCC Comment Type T Comment Status X TUL definition sounds like a receiver specification. SuggestedRemedy Create new timer r h42.6.1.5 as follows: This timer is started when the LPI receive state machine enters the RX_SLEEP state "Itom IX_ISLEP state if the link partner driver continues to send anything other than IIIDLE]] and does not disable its output. SuggestedRemedy Create new timer r h42.6.1.5 as follows: This timer is started when the LPI receive state machine enters thers RX_SLEEP state is the link partner driver Add atom to RX_SLEEP state "Itom IX_ISLEP state is to TSLRX. When the timer reach the terminal count it will set to TX_ISL. Add transition to RX_LINK_FAIL state with criteria TX_IS_timer_done". Create new timer r h42.6.1.5 as follows: This timer is started when the LPI receive state machine enters thers RX_SLEEP state. The timer timer indice on TX_ISLEP state is to TSLRX. When the timer reach the terminal count it will set to TX_ISL timer_done = TRUE." Add transition to RX_LINK_FAIL state with criteria TX_IS_timer_done = TRUE." Add transition to RX_LINK_FAIL state with criteria TX_IS_timer_done = TRUE." Add transition to RX_LINK_FAIL state with criteria TX_IS_timer_done = TRUE." Add transition to RX_LINK_FAIL state with crite	Create a new state between RX_SLEEP and RX_QUIET. Call the new state between RX_SLEEP and RX_QUIET. Call the new state between RX_SLEEP and RX_QUIET. The transition criteria from RX_SLEEP to RX_QUIET_INIT for other suitable name). The transition criteria from RX_QUIET_INIT state include the following action: "Start rx_w_time" The transition criteria from "RX_QUIET_INIT to "RX_QUIET_INIT to "RX_QUIET is UCT (unconditional transition). In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. <i>Response Status</i> <b>0</b> <i>CI</i> <b>48</b> SC <b>48.2.6.2.5</b> P1 <b>36</b> <i>L</i> <b>8</b> # [75] Brown, Matt AMCC <i>Comment Type</i> <b>T</b> <i>Comment Status</i> <b>X</b> The furner lift for more that shares the response to the rx_state of the link partner driver continues to send anything other than   IDLE   and does not disable its output. <i>MagestedRemedy</i> Create new timer r hs 2.6.1.5 as follows: This timer is started when the LPI receive state machine enters ther RX_SLEEP state "Start rx_ts_timer_done = TRUE." Add taction to RX_SLEEP state "Start rx_ts_timer_done". <i>CI</i> <b>48</b> SC <b>48.2.6.2.5</b> <i>P</i> <b>136</b> <i>L</i> <b>18</b> # [76] Brown, Matt AMCC <i>Comment Type</i> <b>R</b> <i>Comment Status</i> <b>X</b> The fuge 48-90, its possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output. <i>MagestedRemedy</i> Delete row defining TDA. <i>Add transition</i> to RX_SLEEP state. The timer terminal counter is started when the LPI receive state <i>Add transition</i> to RX_SLEEP state. The timer terminal counter is started when the LPI receive state <i>Add action</i> to RX_SLEEP state. The timer terminal counter is started when the LPI receive state <i>Add transition</i> to RX_SLEEP state. The timer terminal counter is started when the LPI receive state <i>Add transition</i> to RX_SLEEP state. The timer terminal count	Create a new state between RX_SLEEP and RX_QUIET. Create a new state between RX_SLEEP and RX_QUIET. Create new state RX_QUIET_INIT (or other suitable name). The transition criteria for RX_SLEEP to RX_QUIET_INIT will be "signal_detect=fail". Within RX_QUIET_INIT state include the following action: "Start rx_tw_timer" The transition criteria for mor "X_QUIET_INIT to "RX_QUIET] is UCT (unconditional transition). In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. <b>48</b> SC 48.2.6.2.5 P135 L13 # [7] <b>50</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b>				e timer from being reset					
Create a new state between RX_SLEEP and RX_QUIET. Call the new state RX_QUIET_INIT or other suitable name). The transition criteria from RX_SLEEP to RX_QUIET_INIT will be "signal_detect=fail". Within RX_QUIET_INIT state include the following action: "Start rx_tw_timer" The transition criteria from "RX_QUIET_INIT to "RX_QUIET" is UCT (unconditional transition). In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. troposed Response Response Response Status O 14 48 SC 48.2.6.2.5 P136 L13 # 73 Town, Matt AMCC Comment Type T Comment Status X TUL definition in Table 48-9 is incorrect. TUL is used by TX state machine, but current definition sounds like a receiver specification. SuggestedRemedy Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define new timer rx ts_timer with terminal counter is state to when the LPI receive state machine enters the RX_SLEEP state with criteria "rx_ts_timer_done". Add transition to RX_SLEEP state with criteria "rx_ts_timer_done". Add transition to RX_SLEEP state to with refers in rx_ts_timer_done". The transition to RX_SLEEP state with criteria "rx_ts_timer_done". In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output. UrgestedRemedy Create new timer rx ts_timer with terminal counter is state dwhen the LPI receives state machine envers ther RX_SLEEP state. The timer driver machine envers there RX_ELEP state with criteria "rx_ts_timer_done". Add attain to RX_SLEEP state. Start rx_ts_timer_done". Add transition to RX_SLEEP state with criteria "rx_ts_timer_done". Add transition to RX_SLEEP state with criteria "rx_ts_timer_done". Add transition to RX_SLEEP state "start rx_ts_timer_done". Add transition t	Create a new state between RX_SLEEP and RX_QUIET.       In TX_REFRESH state add the action "Start x_wake_timer".         Call the new state RX_QUIET_INIT (other suitable name).       In TX_REFRESH state add the action "Start x_wake_timer".         Within RX_QUIET_INIT or to ther suitable name).       In TX_REFRESH state add the action "Start x_wake_timer".         Start x_w_timer"       The transition criteria form "RX_QUIET" is UCT (unconditional transition).         In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.)       As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE detected.         roposed Response       Response Status       O         Cl 48       SC 48.2.6.2.5       P135       L13       # 75         rown, Matt       AMCC       SuggestedRemedy       Ci 48       SC 48.2.6.2.5       P136       L18       # 76         rown, Matt       AMCC       SuggestedRemedy       Ci 48       SC 48.2.6.2.5       P136       L18       # 76         Create new timer rx_ts_timer with terminal counter is started when the LPI receive state machine, but current definition sounds like areceiver status X       TUL definition with "Local refresh time from signal enable to signal disable."       Proposed Response       Ci 48       SC 48.2.6.2.5       P136       L18       # 76         rown, Matt       AMCC       Comment Type       TR       Comment Type	Create a new state between RX_SLEEP and RX_QUIET.         Call the new state RX_OUIET_INIT (or ther suitable name).         The transition criteria from RX_SLEEP to RX_QUIET_INIT will be "signal_detect=fail".         Within RX_QUIET_INIT state include the following action:         'Start X_wake_timer_done'.         The transition criteria form 'RX_QUIET_INIT to "RX_QUIET' is UCT (unconditional transition).         In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.)         As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE detected.         or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected.         own, Matt       AMCC         Ass C 48.2.6.2.5       P135       L 13         Own, Matt       AMCC         The figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than IIIDLE] and does not disable its output.       Total definition in Table 48-9 is no longer used. <i>Greate new wimer in</i> A5.2.6.1.5 as follows: "This timer is started when the LP Preceive state machine, ether therminal timer SLERX slightly larger than TSL. Define new wimer in A5.2.EEP state 'start x_ts_timer_done'.       P136       L 18       # 76         Comment Type ER       Comment Type ER       Comment Status X       TDA defined in Table 48-10 is no longer used.       Sc 48.2.6.2.5       P136       L 18       # 76         C	every time a false w	vake or refresh is detect	ed.						irod waka tima TMP
transition). In RX_OUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_OUIET and RX_WAKE detected. troposed Response Response Status <b>O</b> C/ 48 SC 48.2.6.2.5 P136 L 8 # [75] Brown, Matt AMCC Comment Type <b>T</b> Comment Status <b>X</b> In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output. SuggestedRemedy Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define new timer rx_ts_timer with its rus_ts_timer done = TRUE." Add transition to RX_SLEEP state. Tk_ts_timer_f. Add transition to RX_LLIPS tate with criteria "rx_ts_timer_done = TRUE." Add transition to RX_LLINK_FAIL state with criteria "rx_ts_timer_done".	transition). In RX_OUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_OUIET and RX_WAKE of RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. troposed Response Response Response Status <b>0</b> C/ 48 SC 48.2.6.2.5 P136 L 8 # [75] Brown, Matt AMCC Comment Type <b>T</b> Comment Status <b>X</b> TUL definition in Table 48-9 is incorrect. TUL is used by TX state machine, but current definition sounds like a receiver specification. SuggestedRemedy Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define new timer rx_ts_timer with eterminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE." Add transition to RX_LLIPS state start rx_ts_timer_done. Add transition to RX_LLINK_FAIL state with criteria "rx_ts_timer_done". C/ 48 SC 48.2.6.2.5 P136 L 18 # [76] Comment Type <b>ER</b> Comment Status <b>X</b> TDA defined in Table 48-10 is no longer used. SuggestedRemedy Delete row defining TDA. Proposed Response Response Status <b>0</b>	transition). In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. opposed Response Response Response Status <b>O</b> <b>48</b> SC 48.2.6.2.5 P135 L13 # T3 own, Matt AMCC <b>48</b> SC 48.2.6.2.5 P135 L13 # T3 own, Matt AMCC <i>amment Type</i> <b>TR</b> Comment Status <b>X</b> In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output. <i>aggestedRemedy</i> Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE." Add action to RX_SLIEP state with criteria "rx_ts_timer_done". <b>C</b> 448 SC 48.2.6.2.5 P136 L 18 # T6 <b>C</b> 148 SC 48.2.6.2.5 P136 L 18 <b>C</b> 148 SC 48.2.6	Call the new state R The transition criteri Within RX_QUIET_I "Start rx_tw_timer"	RX_QUIET_INIT (or othe ia from RX_SLEEP to R INIT state include the fo	er suitable name). X_QUIET_INIT will b Illowing action:	-	In TX_ Chang tx_wal	_REFRESH state a ge the criteria for tr ke_timer_done".	add the action "Start tx ansition from TX_REF	_wake_timer". RESH to TX_ACTIVE	
In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.)       As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected.       C/ 48 SC 48.2.6.2.5       P 136       L 8       # [75]         Brown, Matt       AMCC         roposed Response       Response Status       O       C/ 48       SC 48.2.6.2.5       P 136       L 8       # [75]         Brown, Matt       AMCC       AMCC       Comment Type       T       Comment Status X       TUL definition in Table 48-9 is incorrect. TUL is used by TX state machine, but current definition sounds like a receiver specification.         VI 48       SC 48.2.6.2.5       P 135       L 13       # [73]         In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       AMCC       C/ 48       SC 48.2.6.2.5       P 136       L 18       # [76]         Brown, Matt       AMCC       AMCC       C/ 48       SC 48.2.6.2.5       P 136       L 18       # [76]         UggestedRemedy       Create new timer rx_ts_timer with terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Add ctransition to RX_SLEEP state "Statu rx_ts_timer".       Add ctransition to RX_SLEP state "Statu rx_ts_timer".       SuggestedRemed	In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. roposed Response Response Status <b>O</b>	In RX_QÚJET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_QUJET and RX_WAKE or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. opposed Response Response Status O 48 SC 48.2.6.2.5 P135 L13 # 73 wm, Matt AMCC 48 SC 48.2.6.2.5 P136 L8 # 75 Comment Type T Comment Status X TUL definition in Table 48-9 is incorrect. TUL is used by TX state machine, but current definition sounds like a receiver specification. SuggestedRemedy Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define nerves the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer. Add action to RX_LINK_FAIL state with criteria "rx_ts_timer. Add atransition to RX_LINK_FAIL state with criteria "rx_ts_timer. Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer. Comment Type TR Comment Status X TO defined in Table 48-10 is no longer used. SuggestedRemedy Delete row defining TDA. Proposed Response Response Status O			I TO KA_QUIET IS C	JCT (unconditional					
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or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. roposed Response Response Status O  A 48 SC 48.2.6.2.5 P135 L13 # 73 rown, Matt AMCC  rownent Type TR Comment Status X In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output. uggestedRemedy Create new timer rin 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state "Statur x_ts_timer_done = TRUE." Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".  Comment Type TR Comment Status X In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output. UggestedRemedy Create new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine other the terminal count it will set rx_ts_timer_done".  CI 48 SC 48.2.6.2.5 P136 L18 # 76 Brown, Matt AMCC Comment Type ER Comment Status X TDA defined in Table 48-10 is no longer used. SuggestedRemedy Delete row defining TDA. Proposed Response Response Status O	or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected. roposed Response Response Status O  A 8 SC 48.2.6.2.5 P 135 L 13 # 73  Forwn, Matt AMCC  Comment Type TR Comment Status X In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output. UggestedRemedy Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state." The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE." Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".  Comment Type Response Response Status O  Comment Type TR Comment Status X In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.  SuggestedRemedy Create new timer rx_ts_timer_done = TRUE." Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".  Comment Type TR Comment Status X In Figure 48-9b, it is possible to be stuck in RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE." Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".  Comment Type TR C	or RX_WTF due to sporadic energy, the rx_tq_timer will time out and an fault will be detected.       Comment Type T       Comment Status X         opposed Response       Response Status O       TUL definition in Table 48-9 is incorrect. TUL is used by TX state machine, but current definition sounds like a receiver specification.       SuggestedRemedy         48       SC 48.2.6.2.5       P 135       L 13       # T3         own, Matt       AMCC       MCC         omment Type TR       Comment Status X       N         In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       Proposed Response       Response Status O         2/2 definition to RX_SLEEP state. The timer terminal counter is stated when the LPI receive state machine enters the RX_SLEEP state. The timer done = TRUE."       Add transition to RX_LINK_FAIL state with criteria "x_ts_timer_done".       Comment Type ER       Comment Status X         TDA defined in Table 48-10 is no longer used.       SuggestedRemedy       SuggestedRemedy       Delete row defining TDA.         Add transition to RX_LINK_FAIL state with criteria "x_ts_timer_done".       Response Response Response Response Status O       O	<b>A</b> 1/2 11	<b>.</b>			Brown, Ma	itt	AMCC		
In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       SuggestedRemedy         Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal count it is est to TSLRX. When the terminal count it will set trx_ts_timer_done = TRUE."       Cl 48       SC 48.2.6.2.5       P136       L18       # 76         Add action to RX_SLEEP state       The timer terminal count it will set trx_ts_timer_done = TRUE."       Add transition to RX_LINK_FAIL state with criteria "tx_ts_timer_done".       SuggestedRemedy	In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       In Figure 48-9b, it is possible to be stuck in RX_SLEEP state. The timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal count it will set rx_ts_timer_done = TRUE."       In Figure 48-9b, it is possible to the terminal count it will set rx_ts_timer_done = TRUE."       In Figure 48-9b, it is possible to be stuck in RX_SLEEP state. The timer terminal count it will set rx_ts_timer_done = TRUE."       In Figure 48-9b, it is possible to be stuck in RX_SLEEP state. The timer terminal count it will set rx_ts_timer_done = TRUE."       In Figure 48-9b, it is possible to the terminal count it will set rx_ts_timer_done."       In Figure 48-9b, it is possible to be stuck in RX_SLEEP state.       In Figure 48-9b, it is possible to be stuck in RX_SLEP state. The time terminal count it will set rx_ts_timer_done = TRUE."       In Figure 48-9b, it is possible to RX_SLEP state.       In Figure 48-9b, it is possible to RX_SLEP state.       In Figure 48-9b, it is possible to RX_SLEP state.       In Figure 48-9b, it is possible to RX_SLEP state.       In Figure 48-9b, it is possible to RX_SLEP state.       In Figure 48-9b, it is p	48       SC 48.2.6.2.5       P 135       L 13       # [7]         own, Matt       AMCC         In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       ImagestedRemedy         IggestedRemedy       Create new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal count it will set trx_ts_timer_done = TRUE."         Add action to RX_SLEEP state "Start x_ts_timer."       Add action to RX_LINK_FAIL state with criteria "rx_ts_timer."         Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer."       The sponse of the sponse is	or RX_WTF due to s detected.	sporadic energy, the rx_	_tq_timer will time out		TUL d	efinition in Table 4	8-9 is incorrect. TUL is		achine, but current
2/48       SC 48.2.6.2.5       P 135       L 13       # 73         rown, Matt       AMCC         comment Type       TR       Comment Status       X         In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       Proposed Response       Response Status       O         2/48       SC 48.2.6.2.5       P 136       L 18       # 76         2/50       Cl 48       SC 48.2.6.2.5       P 136       L 18       # 76         2/50       Cl 48       SC 48.2.6.2.5       P 136       L 18       # 76         2/50       Comment Type       ER       Comment Status       X         2/50       P 136       L 18       # 76         2/50       Comment Type       ER       Comment Status       X         2/50       D A defined in Table 48-10 is no longer used.       SuggestedRemedy       Delete row defining TDA.         2/50       Add action to RX_SLEEP state "Start rx_ts_timer".       Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".       Proposed Response       Response Status       O	Cl 48       SC 48.2.6.2.5       P 135       L 13       # 73         rown, Matt       AMCC         comment Type       TR       Comment Status X         In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       Proposed Response       Response Status O         Cl 48       SC 48.2.6.2.5       P 136       L 18       # 76         SuggestedRemedy       Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.       Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal countri is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Add action to RX_SLEEP state "Start rx_ts_timer".       SuggestedRemedy         Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".       Froposed Response       Response Status O	48       SC 48.2.6.2.5       P 135       L 13       # 73         own, Matt       AMCC <i>pamment Type</i> TR       Comment Status       X         In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       Proposed Response       Response Status       O <i>uggestedRemedy</i> Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.       Cl 48       SC 48.2.6.2.5       P 136       L 18       # 76         Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal count it will set rx_ts_timer_done = TRUE."       Add action to RX_SLEEP state "Start rx_ts_timer".       Comment Type       ER       Comment Type       Comment Type       SuggestedRemedy         Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".       TRUE."       Proposed Response       Response Status       O									
In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       Proposed Response       Response Status       0         C/ 48       SC 48.2.6.2.5       P136       L 18       # 76         C/ 48       SC 48.2.6.2.5       P136       L 18       # 76         C/ 48       SC 48.2.6.2.5       P136       L 18       # 76         C/ 48       SC 48.2.6.2.5       P136       L 18       # 76         C/ 48       SC 48.2.6.2.5       P136       L 18       # 76         C/ 48       SC 48.2.6.2.5       P136       L 18       # 76         C/ 48       SC 48.2.6.2.5       P136       L 18       # 76         C/ 48       SC 48.2.6.2.5       P136       L 18       # 76         Brown, Matt       AMCC       Comment Type       ER       Comment Status X         TDA defined in Table 48-10 is no longer used.       SuggestedRemedy       Delete row defining TDA.         Add action to RX_SLEEP state "Start rx_ts_timer".       Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".       Proposed Response       Response Status       O	In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       Proposed Response Response Status O         Cl 48       SC 48.2.6.2.5       P 136       L 18       # [76]         Cl 48       SC 48.2.6.2.5       P 136       L 18       # [76]         Cl 48       SC 48.2.6.2.5       P 136       L 18       # [76]         Cl 48       SC 48.2.6.2.5       P 136       L 18       # [76]         Cl 48       SC 48.2.6.2.5       P 136       L 18       # [76]         Cl 48       SC 48.2.6.2.5       P 136       L 18       # [76]         Cl 48       SC 48.2.6.2.5       P 136       L 18       # [76]         Cl 48       SC 48.2.6.2.5       P 136       L 18       # [76]         Cl 48       SC 48.2.6.2.5       P 136       L 18       # [76]         Comment Type       ER       Comment Status X       TDA defined in Table 48-10 is no longer used.       SuggestedRemedy         Delete row defining TDA.       SuggestedRemedy       Delete row defining TDA.       Proposed Response       Response Status O	48       SC 48.2.6.2.5       P 135       L 13       # 73         own, Matt       AMCC         ownment Type       TR       Comment Status X         In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       Proposed Response       Response Status O         uggestedRemedy       Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.       Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Comment Type       ER       Comment Status X         Add action to RX_SLEEP state "Start rx_ts_timer".       Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".       FResponse       Response Status O	iopoodu nooponoe	Response Status	•				ceciver specification.		
In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       CI 48 SC 48.2.6.2.5 P136 L18 # 76         SuggestedRemedy       Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Comment Type ER Comment Status X         Add action to RX_SLEEP state "Start rx_ts_timer".       SuggestedRemedy         Delete row defining TDA.       Proposed Response Response Status O	In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output.       CI 48 SC 48.2.6.2.5       P 136       L 18       # [76]         PuggestedRemedy       Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Comment Type       ER       Comment Status X       TDA defined in Table 48-10 is no longer used.         Add action to RX_SLEEP state "Start rx_ts_timer".       Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".       Proposed Response       Response Status       0	In Figure 48-9b, it is possible to be stuck in RX_SLEEP state if the link partner driver continues to send anything other than   IDLE   and does not disable its output. <i>InggestedRemedy</i> Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE." Add action to RX_SLEEP state "Start rx_ts_timer". Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done". C/ 48 SC 48.2.6.2.5 P136 L18 # 76 Brown, Matt AMCC Comment Type ER Comment Status X TDA defined in Table 48-10 is no longer used. SuggestedRemedy Delete row defining TDA. Proposed Response Response Status O		Response Status	•		Suggested	Remedy		e from signal enable	to signal disable "
continues to send anything other than   IDLE   and does not disable its output.       Brown, Matt       AMCC         SuggestedRemedy       Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.       Brown, Matt       Comment Type       ER       Comment Status       X         Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       SuggestedRemedy       Delete row defining TDA.         Add action to RX_SLEEP state with criteria "rx_ts_timer_done".       Proposed Response       Response Status       O	continues to send anything other than   IDLE   and does not disable its output.       Brown, Matt       AMCC         cuggestedRemedy       Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.       Brown, Matt       AMCC         Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Brown, Matt       AMCC         Add action to RX_SLEEP state "Start rx_ts_timer".       Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".       Brown, Matt       AMCC	continues to send anything other than   IDLE   and does not disable its output.       Brown, Matt       AMCC         uggestedRemedy       Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.       Brown, Matt       AMCC         Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Comment Type       ER       Comment Status       X         Add action to RX_SLEEP state "Start rx_ts_timer".       Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".       Brown, Matt       AMCC	7 48 SC 48.2.6	5.2.5 P1	135 L 13	# [73	Suggested Replac	IRemedy ce TUL definition v	with "Local refresh tim	0	to signal disable."
Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.       TDA defined in Table 48-10 is no longer used.         Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       TDA defined in Table 48-10 is no longer used.         Add action to RX_SLEEP state "Start rx_ts_timer".       Delete row defining TDA.         Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".       Proposed Response       Response Status       O	Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.       The comment outlds of the co	Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.       TDA defined in Table 48-10 is no longer used.         Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       TDA defined in Table 48-10 is no longer used.         Add action to RX_SLEEP state "Start rx_ts_timer".       Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".       Proposed Response       Response Status       O	7 <b>48</b> SC <b>48.2.6</b> rown, Matt	5 <b>.2.5</b> P1 AMC	1 <b>35</b> <i>L</i> 13 :C	# [73	Suggested Replac	IRemedy ce TUL definition v	with "Local refresh tim	0	to signal disable."
Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.TDA defined in Table 48-10 is no longer used.Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."TDA defined in Table 48-10 is no longer used.Add action to RX_SLEEP state "Start rx_ts_timer". Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".Delete row defining TDA.	Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL. Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."TDA defined in Table 48-10 is no longer used.Add action to RX_SLEEP state "Start rx_ts_timer". Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".Delete row defining TDA.Proposed ResponseResponse StatusO	Create new timer rx_ts_timer with terminal time TSLRX slightly larger than TSL.Define new timer in 48.2.6.1.5 as follows: "This timer is started when the LPI receive state machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When the timer reach the terminal count it will set rx_ts_timer_done = TRUE."TDA defined in Table 48-10 is no longer used.Add action to RX_SLEEP state "Start rx_ts_timer". Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".SuggestedRemedy Delete row defining TDA.Proposed ResponseResponse StatusO	7 <b>48</b> SC <b>48.2.6</b> rown, Matt <i>Comment Type</i> <b>TR</b> In Figure 48-9b, it is	5.2.5 P 1 AMC Comment Status s possible to be stuck in	135 <i>L</i> 13 C : <b>X</b> RX_SLEEP state if th	he link partner driver	Suggested Replac Proposed Cl 48	IRemedy ce TUL definition v Response SC <b>48.2.6.2.5</b>	vith "Local refresh tim Response Status O P 136	)	
machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When       SuggestedRemedy         the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Delete row defining TDA.         Add action to RX_SLEEP state "Start rx_ts_timer".       Proposed Response       Response Status       O	machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When       SuggestedRemedy         the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Delete row defining TDA.         Add action to RX_SLEEP state "Start rx_ts_timer".       Proposed Response       Response Status       O	machine enters the RX_SLEEP state. The timer terminal counter is set to TSLRX. When       SuggestedRemedy         the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Delete row defining TDA.         Add action to RX_SLEEP state "Start rx_ts_timer".       Proposed Response       Response Status       0	/ 48 SC 48.2.6 rown, Matt omment Type TR In Figure 48-9b, it is continues to send a	5.2.5 P 1 AMC Comment Status s possible to be stuck in	135 <i>L</i> 13 C : <b>X</b> RX_SLEEP state if th	he link partner driver	Suggested Replac Proposed CI <b>48</b> Brown, Ma	Remedy ce TUL definition v Response SC <b>48.2.6.2.5</b> tt	vith "Local refresh tim Response Status O P136 AMCC	L 18	
the timer reach the terminal count it will set rx_ts_timer_done = TRUE."Add action to RX_SLEEP state "Start rx_ts_timer".Delete row defining TDA.Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".Proposed ResponseResponse StatusO	the timer reach the terminal count it will set rx_ts_timer_done = TRUE."Delete row defining TDA.Add action to RX_SLEEP state "Start rx_ts_timer".Delete row defining TDA.Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".Proposed ResponseResponse StatusO	the timer reach the terminal count it will set rx_ts_timer_done = TRUE."       Delete row defining TDA.         Add action to RX_SLEEP state "Start rx_ts_timer".       Proposed Response       Response Status       0	7/48 SC 48.2.6 rown, Matt comment Type TR In Figure 48-9b, it is continues to send a uggestedRemedy Create new timer rx	5.2.5 P1 AMC <i>Comment Status</i> s possible to be stuck in nything other than   IDL c_ts_timer with terminal	135 L 13 C X RX_SLEEP state if th E   and does not disa time TSLRX slightly la	he link partner driver ble its output. arger than TSL.	Suggested Replac Proposed Cl 48 Brown, Ma Comment	IRemedy ce TUL definition v Response SC 48.2.6.2.5 tt Type ER	vith "Local refresh tim Response Status O P 136 AMCC Comment Status X	L 18	
Add action to RX_SLEEP state "Start rx_ts_timer".         Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".         Proposed Response       Response Status         O	Add action to RX_SLEEP state "Start rx_ts_timer".         Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".         Proposed Response       Response Status         O	Add action to RX_SLEEP state "Start rx_ts_timer".         Add transition to RX_LINK_FAIL state with criteria "rx_ts_timer_done".         Proposed Response       Response Status         O	7 48 SC 48.2.6 rown, Matt comment Type TR In Figure 48-9b, it is continues to send a uggestedRemedy Create new timer rx Define new timer in	5.2.5 Pri AMC <i>Comment Status</i> is possible to be stuck in nything other than   IDL c_ts_timer with terminal 48.2.6.1.5 as follows: "	<b>135</b> <i>L</i> <b>13</b> C <b>X</b> RX_SLEEP state if th E   and does not disa time TSLRX slightly la This timer is started w	he link partner driver ble its output. arger than TSL. /hen the LPI receive state	Suggested Replac Proposed CI 48 Brown, Ma Comment TDA d	IRemedy ce TUL definition v Response SC 48.2.6.2.5 att Type ER lefined in Table 48	vith "Local refresh tim Response Status O P 136 AMCC Comment Status X	L 18	
roposed Response Response Status O	roposed Response Response Status O	oposed Response Response Status O	<ul> <li>A8 SC 48.2.6</li> <li>rown, Matt</li> <li>comment Type TR</li> <li>In Figure 48-9b, it is continues to send a</li> <li>uggestedRemedy</li> <li>Create new timer rx</li> <li>Define new timer in machine enters the the timer reach the timer</li> </ul>	5.2.5 Pr AMC Comment Status s possible to be stuck in nything other than   IDL (_ts_timer with terminal 48.2.6.1.5 as follows: " RX_SLEEP state. The terminal count it will set	135 L 13 C X RX_SLEEP state if th E   and does not disa time TSLRX slightly la This timer is started w timer terminal counter rx_ts_timer_done = 1	he link partner driver ble its output. arger than TSL. /hen the LPI receive state r is set to TSLRX. When	Suggested Replac Proposed Cl 48 Brown, Ma Comment TDA d Suggested	IRemedy ce TUL definition v Response SC 48.2.6.2.5 ttt Type ER lefined in Table 48 IRemedy	with "Local refresh tim Response Status O P 136 AMCC Comment Status X 5-10 is no longer used.	L 18	
			<b>48</b> SC <b>48.2.6</b> rown, Matt comment Type <b>TR</b> In Figure 48-9b, it is continues to send a uggestedRemedy Create new timer rx Define new timer rx Define new timer in machine enters the the timer reach the th Add action to RX_S	5.2.5 P ( AMC <i>Comment Status</i> is possible to be stuck in nything other than   IDL (_ts_timer with terminal 48.2.6.1.5 as follows: " RX_SLEEP state. The terminal count it will set SLEEP state "Start rx_ts;	135       L 13         C       X         RX_SLEEP state if the EII and does not disa         time TSLRX slightly la         This timer is started with timer terminal counter         rx_ts_timer_done = 1         _timer".	he link partner driver ble its output. arger than TSL. /hen the LPI receive state r is set to TSLRX. When TRUE."	Suggested Replac Proposed CI 48 Brown, Ma Comment TDA d Suggested Delete	IRemedy ce TUL definition v Response SC 48.2.6.2.5 att Type ER lefined in Table 48 IRemedy e row defining TDA	vith "Local refresh tim Response Status <b>O</b> P <b>136</b> AMCC Comment Status <b>X</b> -10 is no longer used.	2	

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C/ 48 SC 48.2.6.2.8 Brown, Matt	5 <i>P</i> 135 AMCC	L <b>7</b>	# 77	C/ <b>49</b> Brown, Ma	SC <b>49.2.4.7</b> att	<i>P</i> 139 AMCC	L <b>52</b>	# 80
Comment Type <b>T</b> rx_lpi_fail is not set to a	Comment Status X any value other than FALSE.	s this a necessa	ry variable?	Comment Clarify	<i>Type</i> <b>ER</b> y sentence.	Comment Status X		
SuggestedRemedy In RX_ACTIVE state de Also, delete rx_lpi_fail d Proposed Response				chara	ace "idle control c	ode 0x00 is replaced with 0 sent continuously in place <i>Response Status</i> <b>0</b>		ver idle control
C/ 49 SC 48.2.13.2 Brown, Matt	2 P 144 AMCC	L 28	# 78	<i>Cl</i> <b>49</b> Brown, Ma	SC <b>49.2.13.2</b>	2.3 P 141 AMCC	L <b>43</b>	# 81
Comment Type <b>T</b> What is an "enumerate	Comment Status X d variable"?			<i>Comment</i> LI is b		Comment Status X not a special case of C type	e, rather its a type	on its own.
SuggestedRemedy Change "enumerated" Proposed Response	to "boolean". Response Status <b>O</b>				-	pecial case of the C type w <i>Response Status</i> <b>O</b>	nere" with "LI type	is supported where".
<i>Cl</i> <b>49</b> <i>SC</i> <b>49.1.6</b> Brown, Matt	P 139 AMCC	L <b>22</b>	# 79	<i>Cl</i> <b>49</b> Brown, Ma	SC <b>49.2.13.2</b>	2.3 P143 AMCC	L <b>46</b>	# 82
Comment Type ER Signal from PMA is sig	Comment Status X nal_detect not energy_detect			Comment LI is b		Comment Status X not a special case of C type	e, rather its a type	on its own.
SuggestedRemedy Change energy_detect	to signal detect.			Suggeste Repla		pecial case of the C type w	nere" with "LI type	is supported where".
Proposed Response	Response Status <b>O</b>			Proposed	Response	Response Status <b>O</b>		
				C/ <b>49</b> Brown, Ma	SC <b>49.2.4.4</b>	<i>Р</i> <b>139</b> АМСС	L <b>22</b>	# 83
				Comment Energ		Comment Status X ted through PMA_SIGNAL.	indication(signal_	detect).
				Suggester Remo	-	t line and lable from figure.		
				Proposed	Response	Response Status O		

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C/ 49 SC 49.2.1	13.2.2 <i>P</i> 144	L 20	# 84	C/ 49 SC 49.2.13.2.2 P 144 L 40 # 87
Brown, Matt	AMCC			Brown, Matt AMCC
	Comment Status X variable is derived from the mes cation(signal_detect). Define it as			Comment Type <b>T</b> Comment Status <b>X</b> Clarify scrambler_reset definition.
				SuggestedRemedy
Replace definition f "A boolean variable PMA_SIGNAL.indic	or energy_detect with that indicates when energy is du cation(signal_detect) = OK or FA cation(signal_detect) = FAIL."		eiver. Set to TRUE if	Change "registers of the scrambler" to "bits of the scrambler delay line". Proposed Response Response Status <b>O</b>
Proposed Response	Response Status <b>O</b>			C/         49         SC         49.2.13.2.2         P 144         L 39         # 88           Brown, Matt         AMCC
C/ <b>49</b> SC <b>49.2.</b> 1 Brown, Matt	13.2.2 P 144 AMCC	L <b>20</b>	# 85	Comment Type <b>T</b> Comment Status <b>X</b> Clarify scrambler_reset definition.
Comment Type TR	Comment Status X			SuggestedRemedy
rx_block_lock is no	t accurate. rx_block_lock is equa s on receive LPI state.	al to what was bloo	ck-lock and	Change "this variable is used" to "the boolean variable is used".Proposed ResponseResponse StatusO
SuggestedRemedy				
"Boolean variable th Re-define block loc "Boolean variable is	ock definition with the current blo hat is set true when receiver acq k as follows: s set true when receiver acquires and set based on the LPI receive	uires block deline s block delineation	ation." when receive LPI	C/       49       SC       49.2.13.2.2       P 144       L 39       # 89         Brown, Matt       AMCC         Comment Type       T       Comment Status       X
is active."				Clarify scrambler_reset_enable definition.
is active."	Response Status 0			Clarify scrambler_reset_enable definition. SuggestedRemedy Change "A variable used" to "A boolean variable used".
is active." Proposed Response Cl 49 SC 49.2.1	,	L 32	# 86	SuggestedRemedy
is active." Proposed Response Cl 49 SC 49.2.1 Brown, Matt	13.2.2 P 144 AMCC Comment Status X	L 32	# 86	SuggestedRemedy Change "A variable used" to "A boolean variable used".
is active." Proposed Response Cl 49 SC 49.2.1 Brown, Matt Comment Type ER Clarify rx_quiet defi SuggestedRemedy	13.2.2 P 144 AMCC Comment Status X	-		SuggestedRemedy         Change "A variable used" to "A boolean variable used".         Proposed Response       Response Status         O         Cl 49       SC 49.2.13.2.5       P 145       L 8       # 90
is active." Proposed Response Cl 49 SC 49.2.1 Brown, Matt Comment Type ER Clarify rx_quiet defi SuggestedRemedy	13.2.2 P 144 AMCC Comment Status X inition.	-		SuggestedRemedy         Change "A variable used" to "A boolean variable used".         Proposed Response       Response Status O         Cl 49       SC 49.2.13.2.5       P 145       L 8       # 90         Brown, Matt       AMCC         Comment Type       ER       Comment Status X

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

## IEEE P802.3az D1.4 Energy Efficient Ethernet comments

C/ 49 SC 49.2.13.3 Brown, Matt	<i>P</i> <b>147</b> AMCC	L <b>4</b>	# 91	C/         49         SC         49.2.13.3.1         P 149         L 21         # 93           Brown, Matt         AMCC
Comment Type ER Incorrect use of /LI/. SuggestedRemedy In RX_LI state replace /L				Comment Type <b>TR</b> Comment Status <b>X</b> In Figure 49-17, the transition from RX_WAKE and RX_WTF to RX_QUIET when !energy_detect could be an endless loop in realitic failure conditions such as link partner driver soft failing where the signal level on the link is sporadic or taps at wrong value. The problem is caused by the timer being continually reset.
Proposed Response	Response Status O	L 5	# 92	SuggestedRemedy The suggested remedy is to create a new state that prevents the timer from being reset every time a false wake or refresh is detected.
Brown, Matt Comment Type ER Redundant and out of st SuggestedRemedy Change "reset=TRUE" to Proposed Response	AMCC Comment Status X yle to equate variable to Bo o "reset" Response Status O	olean value.		Create a new state between RX_SLEEP and RX_QUIET. Call the new state RX_QUIET_INIT (or other suitable name). The transition criteria from RX_SLEEP to RX_QUIET_INIT will be "signal_detect=fail". Within RX_QUIET_INIT state include the following action: "Start rx_tw_timer" The transition criteria from "RX_QUIET_INIT to "RX_QUIET" is UCT (unconditional transition). In RX_QUIET state delete Start rx_tq_timer. (This is the key to letting the timer run.) As a result, regardless of how many transitions occur between RX_QUIET and RX_WAKE or RX_WTF due to sporadic energy, the rx_tq_timer will time out and a fault will be detected. Proposed Response Response Status <b>0</b>
				Cl 49       SC 49.2.13.3.1       P 149       L 21       # 94         Brown, Matt       AMCC         Comment Type       ER       Comment Status X         Redundant and out of style to equate variable to Boolean value.       SuggestedRemedy         Replace all instances of "energy_detect=false" with "!energy_detect".       Replace all instances of "energy_detect=true" with "energy_detect".         Replace "reset=TRUE" with "reset".       Proposed Response       Response Status       O

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C/         49         SC         49.2.13.3.1         P 149         L 21         # 95           Brown, Matt         AMCC	C/         49         SC         49.2.13.3.1         P 149         L 11           Brown, Matt         AMCC	# 98
Comment Type       ER       Comment Status       X         Incorrect comparison in Fig 49-17. rx_block_lock is a boolean variable.         SuggestedRemedy         Replace all instances of "rx_block_lock=OK" with "rx_block_lock".         Proposed Response       Response Status       O	Comment Type       T       Comment Status       X         In Figure 49.17, in the transition from RX_ACTIVE state to itself the the cridoesn't seem correct.         SuggestedRemedy         Change criteria to the following (changing OR to AND)         "R_TYPE(rx_coded) != LI * align_status != deskew_align_status"         Proposed Response       Response Status       O	teria logic
Cl 49       SC 49.2.13.3.1       P 149       L 21       # 96         Brown, Matt       AMCC         Comment Type       T       Comment Status X         Incorrect variable name in transition criteria from RX_ACTIVE to RX_SLEEP in Fig 49-17.         SuggestedRemedy         Change "R_TYPE(rx_raw)" to "R_TYPE(rx_coded)".         Proposed Response       Response Status O	Cl       49       SC 49.2.13.3.1       P 150       L 11         Brown, Matt       AMCC         Comment Type       T       Comment Status       X         In Table 49-2, redefine TUL as transmitter variable.         SuggestedRemedy         Replace "from Signal_Detect asserted to" to "from start of TX_REFRESH =         Proposed Response       Response Status       O	# 99
Cl 49       SC 49.2.13.3.1       P 149       L 21       # 97         Brown, Matt       AMCC         Comment Type       T       Comment Status       X         rx_lpi_fail is not set to any value other than FALSE and is not defined in this Clause. Is this a necessary variable?         SuggestedRemedy         In RX_ACTIVE state delete "rx_lpi_fail"         Proposed Response       Response Status         O	Cl 49       SC 49.2.13.3.1       P 150       L 28         Brown, Matt       AMCC         Comment Type       ER       Comment Status       X         In Table 49-3, TDA is no longer required.         SuggestedRemedy         Delete row specifying TDA.         Proposed Response       Response Status       O	# 100

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C/ 49 SC 49.2.13.3 Brown, Matt	3.1 <i>P</i> 149 AMCC	L <b>8</b>	# 101	C/ 72 SC 72.7.1 Brown, Matt	Р <b>211</b> АМСС	L 18	# 104
Comment Type <b>T</b> In Figure 49-17, need	Comment Status X to initialize rx_quiet variable.			Comment Type ER In table 72-6, fix act.	Comment Status X time description.		
SuggestedRemedy In RX_ACTIVE state a	dd line			SuggestedRemedy Change description to	o "Transmitter activation time	(TTA) from LPI qu	liet to active.
"rx_quiet <= FALSE" Proposed Response	Response Status <b>O</b>			Proposed Response	Response Status O		
C/ 72 SC 72.6.5 Brown, Matt	<i>Р</i> <b>209</b> АМСС	L <b>9</b>	# 102	C/ 72 SC 72.7.1 Brown, Matt	P 212 AMCC	L 15	# 105
Comment Type <b>T</b> Clarification of Tx targetrained not negotiated.	Comment Status X et level. No need to specify "m	aximum" value.	Also, the values are	Comment Type ER In Table 72.9, fix dea SuggestedRemedy	Comment Status X ct. time description.		
SuggestedRemedy Replace "greater than the trained peak-to-pe	90% of the negotiated maximi ak value".	um value" with "	greater than 90% of	Change description to Proposed Response	o "Signal detect deactivation ti Response Status <b>O</b>	ime (TSD) from a	ctive to LPI quiet.
Proposed Response	Response Status O			C/ 72 SC 72.7.1 Brown, Matt	P 212 AMCC	L 18	# 106
C/ 72 SC 72.7.1 Brown, Matt	<i>P</i> 211 AMCC	L 16	# 103	Comment Type ER In Table 72.9, fix act.	Comment Status X time description.		
Comment Type ER In table 72-6, fix deact	Comment Status X time description.			SuggestedRemedy	o "Signal detect activation time	e (TSA) from LPI	quiet to active.
SuggestedRemedy Change description to	"Transmitter deactivation time	e (TTD) from acti	ve to LPI quiet.	Proposed Response	Response Status <b>O</b>	. ,	
Proposed Response	Response Status 0						

22 SC 22.		-	# 107	CI 35	SC 35.5a	P 69	L <b>54</b>	# 109
Grimwood, Michael	Broad	dcom		Grimwood,	Michael	Broadcom		
Comment Type <b>1</b>				Comment		Comment Status X		
change link_stat	istency with related comme us from READY to OK. Clau	uses 40 and 55 and the	e associated link			LP_IDLE.request assertion ce only Clause 22 defines L		ause 22 but not
	have a "READY" state in the lowable value for link_statu		is not do they specify	Suggested				
SuggestedRemedy					for GMII compa	2.7a, add a section 35.5a en tibility.	titled "LPI messag	ges". Modify that
Change:				In this	new section, add	I the following requirement t	o the definition of	LP IDLE.request:
link_status = RE DEASSERT for	st shall not be set to ASSEF ADY, see 28.2.6.1.1). LP_II 1 second following link_stat	DLE.request shall rema	ain to be set to	link_st	atus = OK, see 4	not be set to ASSERT unle 0.3.3.1). LP_IDLE.request s status changing state to OF	shall remain to be	
To:				Proposed I	Response	Response Status 0		
link_status = OK	st shall not be set to ASSEF , see 24.3.3.2). LP_IDLE.re ng link_status changing stat	equest shall remain to b		C/ <b>40</b>	SC 40.6.1.2.5	<i>P</i> 106	L <b>44</b>	# 110
Proposed Response	Response Status	0		Grimwood,	Michael	Broadcom		
				Comment	Туре Т	Comment Status D		
25 SC 25.			# 108		nsistency with the red reference clo	e text earlier in the subsection	on, eliminate the v	word "clock" from
Grimwood, Michael	Broad	dcom		Suggested	Remedy			
Comment Type <b>T</b>	R Comment Status	Х		As out	ined in comment	above.		
For 100BASE-TX	K EEE, require that jitter spe	ecifications be met duri	ng low-power operation.	Proposed I	Response	Response Status W		
uggestedRemedy				PROP	OSED ACCEPT.			
	4.5, after the sentence, "The formed using scrambled ID							
transmitted durin unjittered referer contributions fro TX_SLEEP are i	er operation, jitter shall be r Ig the TX_SLEEP state. To Ince shall not exceed 1.4 ns In the clock transitions occu gnored. The jitter measurer eater than 1 second.	tal transmit jitter with re peak-to-peak with the ourring during TX_QUIE1	espect to a continuous exception that the jitter and the first 5 usec of					
Proposed Response	Response Status	0						

1 46 SC 46.5a P 124 L 34 # 111	C/ 40 SC 40.6.1.2.5 P106 L 42 # 114	1
rimwood, Michael Broadcom	McIntosh, James Vitesse	
omment Type T Comment Status X	Comment Type TR Comment Status D	
A one second timer for LP_IDLE.request assertion was applied to Clause 22 but not globally to all PHYs since only Clause 22 defines LP_IDLE.request.	The states "WAIT_SILENT, QUIET, WAKE, and WAKE_SILENT" are listed with "WAIT_SILENT" in the list twice. I believe the first instance was intended to be	
uggestedRemedy	"WAIT_QUIET".	
As has been done in 22.7a, add a section 46.5a entitled "LPI messages". Modify that	SuggestedRemedy	
section for XGMII compatibility. In this new section, add the following requirement to the definition of LP IDLE.request:	Change list to "WAIT_QUIET, QUIET, WAKE, and WAKE_SILENT".	
	Proposed Response Response Status W	
LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 55.4.5.1). LP_IDLE.request shall remain to be set to DEASSERT for	PROPOSED ACCEPT.	
1 second following link_status changing state to OK.	C/ 55 SC 55.3.5.4 P174 L17 # 115	5
roposed Response Response Status O	McClellan, Brett Solarflare	
	Comment Type TR Comment Status X	
	The creation of the T_BLOCK_TYPE I and separation of type I from type C when lo	ow
78         SC 78.1.2.1.2         P 229         L 17         # 112	power idle is supported has broken the transmit state diagram in Figure 55-15. Tra	
imwood, Michael Broadcom	that only call out C will not be taken when an I block is to be transmitted. For exam	nple fro
	state TX_C there is no transition for a type I	
	state TX_C there is no transition for a type I.	
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not	SuggestedRemedy	and I
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs.	SuggestedRemedy Change state machine transitions that originally included only C to include both C a	and I.
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. uggestedRemedy	SuggestedRemedy	and I.
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. uggestedRemedy LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e.	SuggestedRemedy Change state machine transitions that originally included only C to include both C a	and I.
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. uggestedRemedy	SuggestedRemedy Change state machine transitions that originally included only C to include both C a Proposed Response Response Status <b>O</b>	
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. <i>uggestedRemedy</i> LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK.	SuggestedRemedy Change state machine transitions that originally included only C to include both C a Proposed Response Response Status <b>O</b>	
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. <i>uggestedRemedy</i> LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK.	SuggestedRemedy         SuggestedRemedy         Change state machine transitions that originally included only C to include both C a         Proposed Response       Response Status         O         Cl 55       SC 55.3.2.2       P 163       L 23       # 116	
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. uggestedRemedy LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK. roposed Response Response Status W PROPOSED ACCEPT.	SuggestedRemedy         Change state machine transitions that originally included only C to include both C a         Proposed Response       Response Status         Cl 55       SC 55.3.2.2       P 163       L 23       # 116         McClellan, Brett       Solarflare         Comment Type       TR       Comment Status       X         Both Clause 55 and Clause 49 share a common block encoder (64B/65B and 64B/	5 5/66B).
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs.         uggestedRemedy         LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK.         roposed Response       Response Status       W         PROPOSED ACCEPT.       V40       SC 40.3.1.3.4       P94       L 8       # 113	SuggestedRemedy         Change state machine transitions that originally included only C to include both C a         Proposed Response       Response Status       O         Cl 55       SC 55.3.2.2       P 163       L 23       # 116         McClellan, Brett       Solarflare         Comment Type       TR       Comment Status       X         Both Clause 55 and Clause 49 share a common block encoder (64B/65B and 64B/ However the changes made for /Ll/ are different between Clause 49 and 55. The comment Status       X	66B).
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. <i>uggestedRemedy</i> LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK. <i>roposed Response</i> Response Status W PROPOSED ACCEPT. <b>140</b> SC <b>40.3.1.3.4</b> P <b>94</b> L <b>8</b> # 113 Clintosh, James Vitesse	SuggestedRemedy         Change state machine transitions that originally included only C to include both C a         Proposed Response       Response Status       O         Cl 55       SC 55.3.2.2       P 163       L 23       # 116         McClellan, Brett       Solarflare         Comment Type       TR       Comment Status       X         Both Clause 55 and Clause 49 share a common block encoder (64B/65B and 64B/       However the changes made for /Ll/ are different between Clause 49 and 55. The code for Clause 49 is 0x07 while the control code for Clause 55 ix 0x06. These clause	66B).
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. uggestedRemedy LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK. roposed Response Response Status W PROPOSED ACCEPT. 1 40 SC 40.3.1.3.4 P94 L 8 # 113 icintosh, James Vitesse comment Type E Comment Status D	SuggestedRemedy         Change state machine transitions that originally included only C to include both C a         Proposed Response       Response Status O         Cl 55       SC 55.3.2.2       P 163       L 23       # 116         McClellan, Brett       Solarflare         Comment Type       TR       Comment Status X         Both Clause 55 and Clause 49 share a common block encoder (64B/65B and 64B/         However the changes made for /Ll/ are different between Clause 49 and 55. The code for Clause 49 is 0x07 while the control code for Clause 55 ix 0x06. These claus should maintain commonality as much as possible	66B).
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. uggestedRemedy LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK. roposed Response Response Status W PROPOSED ACCEPT. 40 SC 40.3.1.3.4 P94 L8 # 113 clntosh, James Vitesse comment Type E Comment Status D In the main 802.3 document, the cext_errn definition is before the Sdn[1] definition. When	SuggestedRemedy         Change state machine transitions that originally included only C to include both C a         Proposed Response       Response Status       O         Cl 55       SC 55.3.2.2       P 163       L 23       # 116         McClellan, Brett       Solarflare         Comment Type       TR       Comment Status       X         Both Clause 55 and Clause 49 share a common block encoder (64B/65B and 64B/ However the changes made for /Ll/ are different between Clause 49 and 55. The c       code for Clause 49 is 0x07 while the control code for Clause 55 ix 0x06. These claus should maintain commonality as much as possible         SuggestedRemedy	6/66B). control auses
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. UggestedRemedy LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK. roposed Response Response Status W PROPOSED ACCEPT. 40 SC 40.3.1.3.4 P94 L8 # 113 clntosh, James Vitesse comment Type E Comment Status D	SuggestedRemedy         Change state machine transitions that originally included only C to include both C a         Proposed Response       Response Status O         Cl 55       SC 55.3.2.2       P 163       L 23       # 116         McClellan, Brett       Solarflare         Comment Type       TR       Comment Status X         Both Clause 55 and Clause 49 share a common block encoder (64B/65B and 64B/         However the changes made for /Ll/ are different between Clause 49 and 55. The code for Clause 49 is 0x07 while the control code for Clause 55 ix 0x06. These claus should maintain commonality as much as possible	6/66B). control auses
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. uggestedRemedy LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK. roposed Response Response Status W PROPOSED ACCEPT. / 40 SC 40.3.1.3.4 P94 L8 # 113 clintosh, James Vitesse omment Type E Comment Status D In the main 802.3 document, the cext_errn definition is before the Sdn[1] definition. When the cext_errn definition change was added back to this document in D1.3, it was inadvertantly placed after the Sdn[1] definition.	SuggestedRemedy         Change state machine transitions that originally included only C to include both C a         Proposed Response       Response Status O         Cl 55       SC 55.3.2.2       P 163       L 23       # 116         McClellan, Brett       Solarflare         Comment Type       TR       Comment Status X         Both Clause 55 and Clause 49 share a common block encoder (64B/65B and 64B/         However the changes made for /LI/ are different between Clause 49 and 55. The code for Clause 49 is 0x07 while the control code for Clause 55 ix 0x06. These claus should maintain commonality as much as possible         SuggestedRemedy         Change the control code for /LI/ in Clause 55 to 0x07. Also make the associated change the control code for /LI/ in Clause 55 to 0x07. Also make the associated change the control code for /LI/ in Clause 55 to 0x07. Also make the associated change the control code for /LI/ in Clause 55 to 0x07. Also make the associated change the control code for /LI/ in Clause 55 to 0x07.	6/66B). control auses
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. uggestedRemedy LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK. roposed Response Response Status W PROPOSED ACCEPT. / 40 SC 40.3.1.3.4 P94 L8 # 113 clintosh, James Vitesse omment Type E Comment Status D In the main 802.3 document, the cext_errn definition is before the Sdn[1] definition. When the cext_errn definition change was added back to this document in D1.3, it was inadvertantly placed after the Sdn[1] definition.	SuggestedRemedy         Change state machine transitions that originally included only C to include both C a         Proposed Response       Response Status       O         Cl 55       SC 55.3.2.2       P 163       L 23       # 116         McClellan, Brett       Solarflare         Comment Type       TR       Comment Status       X         Both Clause 55 and Clause 49 share a common block encoder (64B/65B and 64B/         However the changes made for /Ll/ are different between Clause 49 and 55. The code for Clause 49 is 0x07 while the control code for Clause 55 ix 0x06. These claus should maintain commonality as much as possible         SuggestedRemedy       Change the control code for /Ll/ in Clause 55 to 0x07. Also make the associated ch to R_BLOCK_TYPE LI and T_BLOCK_TYPE LI.	6/66B). control auses
A one second timer for LP_IDLE.request assertion was applied in Clause 22 for MII but not globally to all PHYs. <i>uggestedRemedy</i> LPI_IDLE.request shall not be set to ASSERT unless the attached link is operational (i.e. link_status = OK, see 28.2.6.1.1). LP_IDLE.request shall remain to be set to DEASSERT for 1 second following link_status changing state to OK. <i>roposed Response</i> Response Status W PROPOSED ACCEPT. <i>I</i> 40 SC 40.3.1.3.4 P94 L8 # 113 In the main 802.3 document, the cext_errn definition is before the Sdn[1] definition. When the cext_errn definition change was added back to this document in D1.3, it was inadvertantly placed after the Sdn[1] definition. <i>uggestedRemedy</i>	SuggestedRemedy         Change state machine transitions that originally included only C to include both C a         Proposed Response       Response Status       O         Cl 55       SC 55.3.2.2       P 163       L 23       # 116         McClellan, Brett       Solarflare         Comment Type       TR       Comment Status       X         Both Clause 55 and Clause 49 share a common block encoder (64B/65B and 64B/         However the changes made for /Ll/ are different between Clause 49 and 55. The code for Clause 49 is 0x07 while the control code for Clause 55 ix 0x06. These claus should maintain commonality as much as possible         SuggestedRemedy       Change the control code for /Ll/ in Clause 55 to 0x07. Also make the associated ch to R_BLOCK_TYPE LI and T_BLOCK_TYPE LI.	6/66B). control auses

Cl 55         SC 55.3.5.2.4           McClellan, Brett	P 171 Solarflare	L <b>3</b>	# 117	Cl <b>99</b> SC Thompson, Geoff	P <b>1</b> Nortel	L <b>30</b>	# 119
55-15a and Figure 55-16 control code for an idle c SuggestedRemedy	Comment Status X and R_BLOCK_TYPE of LI a. However the control code ontrol character in the 64B/6 for LI from 0x07 to 0x00 on <i>Response Status</i> <b>0</b>	e listed as 0x07 55B encoder is	is incorrect. The 0x00.	The description of SuggestedRemedy Please expand the what meeting. The necessary to go went into the part	R Comment Status D on the front page is only a proje the description to include where his sort of information has turne back and pull out old drafts. A r ticular draft is also very helpful.	the draft was in the dout to be tremend	process and a result of lously helpful when it is
C/ 55 SC 55.3.5.4 McClellan, Brett	P <b>176</b> Solarflare	L 17	# 118		Response Status W CEPT IN PRINCIPLE.	ne draft was in the p	process and the result of
power idle is supported h	Comment Status X OCK_TYPE I and separatic las broken the receive state of be taken when an I block ansition for a type I.	diagram in Fig	ure 55-16. Transitions	A macro textual to put into the ab changes.	description of what changes we stract in general though this wil		re a few very significant
SuggestedRemedy				Cl 14 SC Thompson, Geoff	P 16 Nortel	L	# 120
Change state machine tra	ansitions that originally inclu	ided only C to i	nclude both C and I.	Comment Type E	R Comment Status X		
Proposed Response	Response Status <b>O</b>			I find no text add	led anywhere to clause 14 that ween 10BASE-T and 10BASE-		
				SuggestedRemedy			

Add a new subclause to clause 14 to address the topic of cross compatibility between 10BASE-T and 10BASE-Te, i. e. the two MDI can be freely mixed as long as the cabling meets the requirements for 10BASE-Te.

Proposed Response Response Status **0** 

Thompson, Geoff       Nortel       Infineon Technologies         Comment Type       ER       Comment Status       D         The text: the PHY enters the low power idle mode during periods of low link utilization, "is, gagestedRemedy       It would be more appropriate to say something like that the transmitter, and in turn the linked receiver transition into low power mode in response to a command set across the MI that is expected when the transmitting station is expecting low link utilization.       Traeber, Mario       Infineon Technologies         Comment Type       ER       Comment Type       ER       Comment Status       D         PROPOSED ACCEPT IN PRINCIPLE.       It appropriate to say something like that the transmitter, and in turn the inhopson, Geoff       Nortel       Nortel         Comment Type       TR       Comment Status X       Infineon Technologies       Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.       Infineon Technologies       Marce interview of the state of the standard at time of inoperation?       Infineon Technologies         SuggestedRemedy       Add text to clarify.       Proposed Response       Response Status       O         Citer of Marce       Infineon Technologies       Infineon Technologies       Infineon Technologies         Comment Type       ER       Comment Status Lo       Infineon Technologies         Comment Type       FR								
The text: "the PHY enters the low power idle mode during periods of low link utilization." is, shall we say, mysterious. There is no "tow link utilization" signal available within the PCS/PMA. Suggested/Remedy It would be more appropriate to say something like that the transmitter, and in turn the linked receiver transition into low power mode in response to a command sent across the MII that is expected when the transmitting station is expecting low link utilization. Proposed Response Composed Response Status W PROPOSED ACCEPT IN PRINCIPLE. Ci 30 SC 30.5.1.1.21 P L 48 # 122 Thompson, Geoff Nortel Comment Type TR Comment Status X I don't understand what this attribute indicates. Is it the state of the standard at time of implementation? Or is it the PHY's for which the PCS and higher can support EEE operation? Suggested/Remedy Add text to clarity. Proposed Response Response Status D Replace 'MAC client' by 'LPI agent' to be consistent with 35.2.2.6a Suggested/Remedy Suggested/Remedy Replace the text as suggested. Proposed Response Response Status D Replace 'MAC client' by 'LPI agent' to be consistent with 35.2.2.6a Suggested/Remedy Suggested/Remedy Replace the text as suggested. Proposed Response Response Status D Replace the text as suggested. Proposed Response Response Status W	C/ 24 SC 24.1.1 Thompson, Geoff	-	L 10	# 121				# 124
The day by the price of any solution is any solution in the fail of the faile fail of the fail	The text: "the PHY enter shall we say, mysteriou PCS/PMA.	ers the low power idle mode d			Replace "MAC client" by SuggestedRemedy simply replace the text as	"LPI agent" to be consisten suggested.	nt with 35.2.2.9a	
PROPOSED ACCEPT IN PRINCIPLE.         Cl 30 SC 30.5.1.21 P       L48 # 122         Thompson, Geoff       Nortel         Comment Type TR       Comment Status X         I don't understand what this attribute indicates. Is it the state of the standard at time of implementation? Or is it the PHYs for which the PCS and higher can support EEE operation?         SuggestedRemedy         Add text to clarify.         Proposed Response       Response Status O         Cl 22 SC 22.2.6a P 28 L 21 # 123         Traeber, Mario       Infineon Technologies         Comment Type ER       Comment Status D         Replace "MAC client" by "LPI agent" to be consistent with 35.2.2.6a         SuggestedRemedy         simply replace the text as suggested.         Proposed Response       Response Status W	linked receiver transition	on into low power mode in res	ponse to a comr	mand sent across the	, ,	Response Status W		
Thompson, Geoff Nortel Comment Type TR Comment Status X I don't understand what this attribute indicates. Is it the state of the standard at time of implementation? Or is it the PHYs for which the PCS and higher can support EEE operation? SuggestedRemedy Add text to clarify. Proposed Response Response Status 0 Cl 22 SC 22.2.6a P28 L21 # 123 Traeber, Mario Infineon Technologies Comment Type ER Comment Status D Replace "MAC client" by "LPI agent" to be consistent with 35.2.2.6a SuggestedRemedy simply replace the text as suggested. Proposed Response Response Status W		•						
I don't understand what this attribute indicates. Is it the state of the standard at time of implementation? Or is it the PHYs for which the PCS and higher can support EEE operation? SuggestedRemedy Add text to clarify. Proposed Response Response Status O Cl 22 SC 22.2.6a P 28 L 21 # 123 Traeber, Mario Infineon Technologies Comment Type ER Comment Status D Replace "MAC client" by "LPI agent" to be consistent with 35.2.2.6a SuggestedRemedy simply replace the text as suggested. Proposed Response Response Status W			L <b>48</b>	# 122				
Add text to clarify.         Proposed Response       Response Status         O         Cl 22       SC 22.2.2.6a       P 28       L 21       # 123         Cl 22       SC 22.2.2.6a       P 28       L 21       # 123         Traeber, Mario       Infineon Technologies         Comment Type       ER       Comment Status       D         Replace "MAC client" by "LPI agent" to be consistent with 35.2.2.6a       SuggestedRemedy       simply replace the text as suggested.         Proposed Response       Response Status       W       M	I don't understand wha implementation? Or is i	at this attribute indicates. Is it t						
Cl 22       SC 22.2.2.6a       P 28       L 21       # 123         Traeber, Mario       Infineon Technologies         Comment Type       ER       Comment Status       D         Replace "MAC client" by "LPI agent" to be consistent with 35.2.2.6a       SuggestedRemedy         simply replace the text as suggested.       Proposed Response       Response Status								
Traeber, Mario Infineon Technologies Comment Type ER Comment Status D Replace "MAC client" by "LPI agent" to be consistent with 35.2.2.6a SuggestedRemedy simply replace the text as suggested. Proposed Response Response Status W	Proposed Response	Response Status O						
Replace "MAC client" by "LPI agent" to be consistent with 35.2.2.6a         SuggestedRemedy simply replace the text as suggested.         Proposed Response       Response Status         W				# 123				
simply replace the text as suggested. Proposed Response Response Status W	51		it with 35.2.2.6a					
		as suggested.						
	Proposed Response PROPOSED ACCEPT	•						