C/ FM SC FM	P <b>1</b> Ciena	L <b>26</b>	# 1	C/ 45 Anslow	SC <b>45.2.1.1</b>	<b>B.aa</b> P <b>32</b> Ciena	L <b>33</b>	# <u>5</u>	
					,				
omment Type E IEEE Std 802.3cd-201	Comment Status <b>D</b> 18 is now approved			In		Comment Status <b>D</b> on "before 45.2.1.18a (ad ' should be "45.2.1.18.a"	ded by IEEE Std 802	2.3cb-2018)" the	EZ
uggestedRemedy Change "IEEE Std 80	2.3cd-201x" to "IEEE Std 802	.3cd-2018"		Sugge	stedRemedy				
oposed Response	Response Status W				0	on, change "45.2.1.18a" to	o "45.2.1.18.a"		
PROPOSED ACCEPT	Γ.				sed Response ROPOSED ACCEP1	Response Status W			
FM SC FM	P <b>2</b>	L <b>3</b>	# 2						
nslow, Pete	Ciena			Cl 45 Anslow	SC 45.2.1.1	92.4 P35 Ciena	L <b>25</b>	# 6	
omment Type E	Comment Status D			EZ	,	Comment Status D			ΕZ
The abstract should n	ot contain "Draft D1.1 is prepa	ared for Task Fo	orce Review."		<i>ent Type</i> <b>ER</b> omment #16 against				EZ
uggestedRemedy				In	the heading of 45.2	.1.192.4, "(1.2309.14)" sh	ould be "(1.2309.10:	9)"	
	prepared for Task Force Revie	ew."			e response was: CEPT IN PRINCIP	IF			
roposed Response PROPOSED ACCEP1	Response Status <b>W</b>			Th	is is covered by Cor				
FM SC FM	P <b>21</b>	L1	# 3	Sugge	stedRemedy				
nslow. Pete	Ciena	<i>L</i> I	# 3	In	the heading of 45.2	.1.192.4, change "(1.230	9.14)" to "(1.2309.10:	:9)"	
omment Type E	Comment Status D			Propos EZ	sed Response	Response Status W			
	or Ethernet" contains a spurio	us "2019"		PF	ROPOSED ACCEPT	Γ.			
uggestedRemedy				C/ <b>45</b>	SC 452.3	P <b>40</b>	L <b>23</b>	# 7	
Delete "2019"				Anslow	, Pete	Ciena			
roposed Response	Response Status W			Comm	ent Type ER	Comment Status D			ΕZ
PROPOSED ACCEPT	Г.					remedy for Comment #2		0004	
44 SC 44.1.3	P28	L <b>3</b>	# 4		e response was:	on, change: "1.2318 - 1.23	520 10. 1.2316 10 1.	.2324	
nslow, Pete	Ciena	20				na instruction is 114 0040			- 411
omment Type E	Comment Status D				correct.	ng instruction is "1.2318	to 1.2320 where the	second number is	still
51	ins five external cross-referen	ces that are not	t in forest green		stedRemedy				
uggestedRemedy			0	00		on, change: "1.2318 to 1.2	2320" to: "1.2318 to <sup>2</sup>	1.2324"	
,	External" to "Clause 53", "Clau	se 54", "Clause	e 55", "Clause 68", a		sed Response ROPOSED ACCEP1	Response Status W			
roposed Response	Response Status W								
ioposeu Response	•								
PROPOSED ACCEPT	Г.								

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C/ 45 SC 45.2.3.72 Anslow, Pete	.5 P42 Ciena	L15	# 8	C/ 45 SC 45.2.3.78 Anslow, Pete	.1 P46 Ciena	<i>L</i> 1	# <u>1</u> 1
Comment Type E	Comment Status D xt "8 octet" has been change	d to "8-octet".	Editorial	Comment Type E	Comment Status D 45.2.3.78.1 PCS reset (3.23	22.15))"	
If it is intended that this shown with strikethroug	e base standard is "8 octet". amendment changes "8 oct gh and underline font, prefera r clority.			SuggestedRemedy Delete the extra ")"			
"8-octet" in underline fo SuggestedRemedy	n clanty.			Proposed Response PROPOSED ACCEPT.	Response Status W		
	amendment changes "8 oct h and underline font, prefera r clarity.			C/ 45 SC 45.2.9.2.7	7 P <b>49</b>	L <b>51</b>	# 12
Proposed Response PROPOSED ACCEPT	Response Status W			Anslow, Pete Comment Type E As noted in Comment #	Ciena <i>Comment Status</i> <b>D</b> #38 against D1.0, space mis	ssing before "(" in	the editing instructio
C/ 45 SC 45.2.3.74 Anslow, Pete	P <b>43</b> Ciena	L12	# 9	SuggestedRemedy Add the space.		5 (	5
Comment Type E	Comment Status D		EZ	Proposed Response PROPOSED ACCEPT.	Response Status W		
	bit 3.2313.15, "This bit shall See 45 2 3 74 1 for self-clear		egister 5.2517 is read.	TROF USED ACCEL 1			
has been changed to "S However, this is text in so this change has to b	bit 3.2313.15, "This bit shall See 45.2.3.74.1 for self-clear the base standard being cha le shown with strikethrough a	ing behavior". nged via a "Char	nge" editing instruction	C/ 45 SC 45.2.9.3.2 Anslow, Pete		L <b>30</b>	# 13
has been changed to "S However, this is text in so this change has to b SuggestedRemedy In the "Description" for show "This bit shall sel	See 45.2.3.74.1 for self-clear the base standard being cha e shown with strikethrough a	ing behavior". nged via a "Char ind underline font is read." in striket	nge" editing instruction t. through font.	Cl 45 SC 45.2.9.3.2 Anslow, Pete Comment Type E As noted in Comment #	2 P <b>50</b>		
has been changed to " However, this is text in so this change has to b SuggestedRemedy In the "Description" for show "This bit shall sel and show "See 45.2.3. "." at the end of this.	See 45.2.3.74.1 for self-clear the base standard being cha se shown with strikethrough a bit 3.2313.15: f clear when register 3.2317 74.1 for self-clearing behavio <i>Response Status</i> <b>W</b>	ing behavior". nged via a "Char ind underline font is read." in striket	nge" editing instruction t. through font.	CI 45 SC 45.2.9.3.2 Anslow, Pete Comment Type E	2 P50 Ciena <i>Comment Status</i> D #39 against D1.0, space mis <i>Response Status</i> W		
has been changed to " However, this is text in so this change has to b SuggestedRemedy In the "Description" for show "This bit shall sel and show "See 45.2.3."." at the end of this. Proposed Response PROPOSED ACCEPT.	See 45.2.3.74.1 for self-clear the base standard being cha e shown with strikethrough a bit 3.2313.15: f clear when register 3.2317 74.1 for self-clearing behavio <i>Response Status</i> <b>W</b> <i>P</i> <b>44</b> Ciena	ing behavior". nged via a "Char ind underline font is read." in striket	nge" editing instruction t. through font. ont. Note the addition of # 10	Cl 45 SC 45.2.9.3.2 Anslow, Pete Comment Type E As noted in Comment # SuggestedRemedy Add the space. Proposed Response	2 P50 Ciena <i>Comment Status</i> D ≇39 against D1.0, space mis <i>Response Status</i> W		
has been changed to "S However, this is text in so this change has to b SuggestedRemedy In the "Description" for show "This bit shall sel and show "See 45.2.3." "." at the end of this. Proposed Response PROPOSED ACCEPT Cl 45 SC 45.2.3.75 Anslow, Pete Comment Type E	See 45.2.3.74.1 for self-clear the base standard being cha be shown with strikethrough a bit 3.2313.15: f clear when register 3.2317 74.1 for self-clearing behavio <i>Response Status</i> <b>W</b> <i>P</i> 44 Ciena <i>Comment Status</i> <b>D</b> e hyphen in "8-octet" is show	ing behavior". Inged via a "Char and underline font is read." in striket r." in underline fo	nge" editing instruction t. through font. ont. Note the addition of # 10 Editorial	Cl 45 SC 45.2.9.3.2 Anslow, Pete Comment Type E As noted in Comment # SuggestedRemedy Add the space. Proposed Response PROPOSED ACCEPT. Cl 104 SC 104.7.2.4 Anslow, Pete Comment Type E	2 P50 Ciena Comment Status D #39 against D1.0, space mis Response Status W	ssing before "(" in	the editing instructio
has been changed to " However, this is text in so this change has to b SuggestedRemedy In the "Description" for show "This bit shall sel and show "See 45.2.3. "." at the end of this. Proposed Response PROPOSED ACCEPT. Cl 45 SC 45.2.3.75 Anslow, Pete Comment Type E While the addition of th space is not shown with SuggestedRemedy	See 45.2.3.74.1 for self-clear the base standard being cha be shown with strikethrough a bit 3.2313.15: f clear when register 3.2317 74.1 for self-clearing behavio <i>Response Status</i> <b>W</b> <i>P</i> 44 Ciena <i>Comment Status</i> <b>D</b> e hyphen in "8-octet" is show	ing behavior". Inged via a "Char Ind underline font is read." in striket r." in underline fo <i>L</i> 3	nge" editing instruction t. through font. ont. Note the addition of # 10 Editorial	Cl 45 SC 45.2.9.3.2 Anslow, Pete Comment Type E As noted in Comment # SuggestedRemedy Add the space. Proposed Response PROPOSED ACCEPT. Cl 104 SC 104.7.2.4 Anslow, Pete Comment Type E	2 P50 Ciena Comment Status D #39 against D1.0, space mis Response Status W P60 Ciena Comment Status D	ssing before "(" in	the editing instructio

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

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C/ 149 SC 149.2 Anslow, Pete	P <b>73</b> Ciena	L <b>5</b>	# <u>1</u> 5		<i>Cl</i> <b>149</b> <i>SC</i> <b>149.4.2.</b> Anslow, Pete	4 <i>P</i> 136 Ciena	L13	# <u>1</u> 8	
Comment Type E "Clause 98.4" should be j	Comment Status D ust "98.4"			EZ		Comment Status <b>D</b> of 149.4.2.4, "149.4.2.4.2" and ire 149–27" has a spurious extr		should be cross-	E
SuggestedRemedy Change "Clause 98.4" to	"98.4"				SuggestedRemedy				
Proposed Response	Response Status W				Make "149.4.2.4.2" ar "FFigure 149–27".	d "149.4.2.4.8" cross-reference	es and delete th	ne spurious "F" in	
PROPOSED ACCEPT.					Proposed Response	Response Status W			
C/ 149 SC 149.3.2.2.1	5 P <b>90</b>	L <b>39</b>	# 16		PROPOSED ACCEP	Г.			
Anslow, Pete	Ciena				C/ 149 SC 149.4.3.	1 <i>P</i> 146	L <b>27</b>	# 19	
Comment Type E	Comment Status D			ΕZ	Anslow, Pete	Ciena			-
Equation (149-1) is trunca Is this a "Medium" equation					Comment Type <b>E</b> In "{–1, -1/3, 1/3, 1}" ti	Comment Status <b>D</b> ne hyphen should be an en das	sh		1
SuggestedRemedy If it is not already, make t "Shrink-wrap" the equatio					SuggestedRemedy In "{-1, -1/3, 1/3, 1}" c	hange the hyphen to an en dat	sh		
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response PROPOSED ACCEP <sup>-</sup>	Response Status W			
C/ 149 SC 149.3.2.3.3 Anslow, Pete	Р <b>98</b> Сіепа	L <b>24</b>	# 17		Change: {–1, -1/3, 1/3 To: {–1, –1/3, +1/3, +1				
Comment Type <b>E</b> Two instances of "Table 1	<i>Comment Status</i> <b>D</b> 149–1" (in b) and c)) should	be cross-refere	ences.	EZ	See comment 181				
SuggestedRemedy Make the two instances o	f "Table 149–1" cross-refer	ences.							
Proposed Response PROPOSED ACCEPT.	Response Status W								

C/ 149 SC 149.9.1	P164	L <b>5</b>	# 20	C/ 44	SC 44.1.3	P <b>27</b>	L <b>3</b>	# <u>2</u> 3
Anslow, Pete	Ciena			Maguire, V	alere	The Sie	mon Company	
This would be ok if IEC 6 but I do not believe that t	Comment Status <b>D</b> form to IEC 62368–1 (forme 0950–1 had simply been re his is the case. I believe th ch case this text is inapprop	-numbered to b at these are diff	, ecome IEC 62368–1,	Correc Suggested Insert a 3, page	et grammatical <i>Remedy</i> a comma after e 35 - line 31,	bage 61 - line 8, page 69	fore "which" in these	Editoria locations: page 27 - line line 2, page 80 - line 5,
Delete "(former IEC 6095	50—1)"			and pa <i>Proposed I</i>	ige 90 - line 51 Rosponso	Response Status	•/	
Proposed Response PROPOSED ACCEPT IN	Response Status W			,	OSED ACCEF	,	·v	
TFTD				<i>Cl</i> <b>149</b> Maguire, V	SC <b>149.3.6</b> alere		2 L49 mon Company	# 24
	anged "IEC 60950-1" to "IE eference to the former spec	,	mer IEC 60950-1)".	Comment Consis	stency with oth	Comment Status <b>I</b> er text in clause	)	Editoria
C/ <b>00</b> SC <b>0</b> Maguire, Valere	Р <b>2</b> The Siemon C	L <b>5</b> company	# 21		ce "which" with	"that" Response Status	N	
Comment Type E Incorrect capitalization	Comment Status D		I		OSED ACCEF	,		
SuggestedRemedy Replace "physical layer"	with "Physical Layer"			<i>Cl</i> <b>149</b> Maguire, V	SC 149.3.2 alere		L <b>37</b> mon Company	# 25
Proposed Response PROPOSED ACCEPT.	Response Status W			Comment <sup>®</sup> Correc	51	Comment Status I of the word "which"	)	E.
C/ 00 SC 0	P <b>2</b> The Sigmon C	L <b>5</b>	# 22	Suggested Replac		served)" with ", which is	reserved"	
Maguire, Valere Co <i>mment Type</i> <b>E</b> MASTER-SLAVE could b	The Siemon C Comment Status <b>D</b> be added to the keywords	ompany	I	Proposed I Z PROP	Response OSED ACCEF	Response Status N T.	N	
SuggestedRemedy Insert " MASTER-SLAVE	;" after "IEEE 802.3chTM; '							
Proposed Response PROPOSED ACCEPT.	Response Status W							

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C/ 00 SC 0	P1	L25	# 26	C/ 149 SC 149.3.2.2.21 P96 L46 # 28	
Maguire, Valere	The Siemon C		# 20	Benyamin, Saied Aquantia $P$ <b>30</b> $L$ $40$ $\#$ $20$	
Comment Type E IEEE Std 802.3cd-201x SuggestedRemedy	Comment Status <b>D</b> has published. of "IEEE Std 802.3cd-201x"		EZ	Comment Type TR Comment Status D Alert description is yellowed out, and needs to mention that we use link sycnrhonize Current paragraph: When the lpi_tx_mode variable takes the value <tbd: alert="" and="" assert<="" pma="" td="" the=""><td></td></tbd:>	
Proposed Response PROPOSED ACCEPT.	Response Status W		502.5CU-2016	SEND_N, the PCS passes the ALERT vector to the PMA.> SuggestedRemedy When the lpi tx mode variable takes the value ALERT, the PMA transmits the link	
C/ 149 SC 149.1.3.4	P <b>70</b>	L11	# 27	synchronization sequence onto the MDI as provided by the link synchronization blo sync_tx_symb	
Benyamin, Saied Comment Type <b>TR</b>	Aquantia Comment Status D		EEE	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
We are using link synch synch	ronization as Alert, add a pai tion to mention this	agraph to end o	of the link	Remove highlighting and	
SuggestedRemedy Add the following parage		attorn in used a	e en elert equence	Change: When the lpi_tx_mode variable takes the value <tbd: alert="" and="" asserts="" passes="" pcs="" pm="" pma.="" send_n,="" the="" to="" vector=""></tbd:>	1A
	e same link synchronization p ue, the send_s_sigdet variab			To: When the lpi_tx_mode variable takes the value ALERT, the PMA transmits the synchronization sequence onto the MDI as provided by the link synchronization blo sync tx symb.	
Proposed Response PROPOSED ACCEPT.	Response Status W			C/ 149 SC 149.3.2.2.21 P96 L51 # 29 Benyamin, Saied Aquantia	
				Comment Type TR Comment Status D Alert has a yellow tag around it <tbd alert=""></tbd>	EEE
				SuggestedRemedy remove yellow and <tbd> and change to upper case ALERT</tbd>	
				Proposed Response Response Status W PROPOSED ACCEPT.	

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C/ 149 SC 149.3.2.2.21 P97	L <b>4</b>	# 30		C/ 149	SC 149.3.	2.3	P <b>98</b>	L <b>2</b>	# <u>3</u> 1				
Benyamin, Saied Aquantia				Benyamin, S	Saied		Aquantia						
Comment Type <b>TR</b> Comment Status <b>D</b> There is a yellow tag on this line awaiting some des	scription		EEE		s a yellow TE	D as follows	Status D		EE				
SuggestedRemedy				•				erts <tbd alert=""></tbd>	· .				
Please add the following:				SuggestedF	•								
64B/65B blocks.	sending a wake signal containing lpi_wake_time RS-FEC frames composed of IDLE 64B/65B blocks. Lpi_wake_time is a fixed parameter that is defined in Table 149-1000. Please see attached word doc						The quiet-refresh cycle continues until the link synchronization detect asserts send_s_sigdet to indicate that the alert (link synchronization) sequence has been reliably detected. After the alert sequence the link partner transmits repeated /l/ characters, representing a wake signal. The PHY receive function sends /l/ to the XGMII for 8 RS-Frame periods (wake duration) and then resumes normal operation.						
word doc				Proposed R	esponse	Response	Status W						
Proposed Response Response Status W				PROPC	SED ACCE	PT IN PRINCIPL	E.						
PROPOSED ACCEPT IN PRINCIPLE.				Remove	e yellow high	lighting.							
Delete: <tbd alert=""></tbd>				Change	· PMA asse	rts <tbd alert=""></tbd>							
composed of IDLE 64B/65B blocks. Lpi_wake_time is a fixed parameter that is defined i Add the table on page 3 of Benyamin 3ch 1 0319.			his	synchronization) sequence has been reliably detected. After the alert sequence the link partner transmits repeated /l/ characters, representing a wake signal. The PHY receive function sends /l/ to the XGMII for 8 RS-Frame periods (wake duration) and then resumes normal operation.									
comment.		a being added by		C/ 149	SC 149.3.	5	P <b>100</b>	L <b>34</b>	# <u>3</u> 2				
Editorial license to use the appropriate table numbe	or .			Benyamin, S	Saied		Aquantia						
Editorial license to use the appropriate table numbe	<i>и</i> .			Comment T	ype E	Comment	Status D		Editoria				
				to alert partner. lpi_offse	start time as See followi et is a fixed v	opposed to aler ng text and char alue equal to lpi	t signal. Also in ges in bold on _qr_time / 2 + 4	the same senter the right 4 (52 RS-FEC fra	t is more clear to refer nce we refert to the link ime periods) that is fset by the link partner's				
				SuggestedF	Remedy								
					ensure refre				ame periods) that is / offset from the link				
				Proposed R	esponse	Response	Status W						
				PROPC	SED ACCE	PT IN PRINCIPL	.E.						

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C/ 149 SC 149.3.5.1 P101 L10 # <u>33</u> Benyamin, Saied Aquantia	C/         149         SC         149.3.5.1         P101         L19         # 35           Benyamin, Saied         Aquantia							
Comment Type TR Comment Status D Frame counts are based on RS-Frames, not partial frames SuggestedRemedy	EEE Comment Type <b>TR</b> Comment Status <b>D</b> E We need to establish limitation for alert starts so that it does not overlap with the link partner's alert.							
Remove the word partial in three places on line 10 and line 11	SuggestedRemedy							
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Add the following paragraph: The four RS-Frame long Alert may start at the beginning of every eighth PHY frame boundary starting at the beginning of the frame following the refresh PHY frame. This sets alert period to 4 PHY frames and provides the following two benefits: The MASTER and							
Not needed if comment #65 implemented as proposed.	SLAVE allowable alert transmissions do not overlap and Alert does not overlap device's							
C/ <b>149</b> SC <b>149.3.5.1</b> P <b>101</b> L <b>13</b> # <u>34</u> Benyamin, Saied Aquantia	own refresh. The MASTER and SLAVE shall derive the tx_refresh_active and tx_alert_start signals from the transmitted PHY frames (tx_rsfc) as shown in Table 149-5 and Table 149- 6.							
Comment Type TR Comment Status D The offset between two link partners is not exactly half cycle, it is 4 frames more than I	EEE Proposed Response Response Status Z alf PROPOSED REJECT.							
cycle, change the wording SuggestedRemedy	This comment was WITHDRAWN by the commenter.							
Replace the word "half cycle" with "properly"								
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	C/         149         SC         149.3.5.1         P101         L27         # 36           Benyamin, Saied         Aquantia							
Change to " the refresh periods are about a half cycle offset." per comment 196.	Comment Type         TR         Comment Status         D         EE           The table is errneously referring to wake_period for alert calculation         EE							
	SuggestedRemedy Change wake_period to alert_period							
	Proposed Response Response Status W PROPOSED ACCEPT.							
	C/         149         SC         149.3.5.1         P101         L36         # 37           Benyamin, Saied         Aquantia							
	Comment Type         TR         Comment Status         D         EE           The table is errneously referring to wake_period for alert calculation         EE							
	SuggestedRemedy Change wake_period to alert_period							
	Proposed Response Response Status W							

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Cl 149 SC 149.3.5.3 Benyamin, Saied	3 P101 Aquantia	L <b>47</b>	# <u>38</u>	C/         149         SC         149.4.2.2         P135         L12         # 41           Benyamin, Saied         Aquantia
mentions that we do n	Comment Status <b>D</b> ed to send the OAM, the follow to send any infofield data duri t the infofield consists of a sec	ng refresh		Comment Type       TR       Comment Status       D       State diagrams         To allow ALERT to transmit link synchronization, we need to add it to the following statement:       when sync_link_control = ENABLE
	t the infofield consists of a sec of to be transmitted is XORed Response Status W			SuggestedRemedy when sync_link_control = ENABLE or lpi_tx_mode = ALERT Proposed Response Response Status W PROPOSED ACCEPT.
PROPOSED ACCEPT	•			Cl various     SC various     P0     L0     # 42       Benyamin, Saied     Aquantia
_	ol to be transmitted is XORed	with the last 10	bits of the PAM2	Comment Type         G         Comment Status         D         Editoria.           There are a zillion places where 1000Base-T1 is mentioned; on some, we have crossed out the "1000"         Editorial         Editorial
<i>Cl</i> <b>149</b> SC <b>149.3.8.4</b> Benyamin, Saied	4.3 P128 Aquantia	L16	# 39	SuggestedRemedy They all need to change to MGBase-T1
Comment Type <b>T</b> rx_boundary description	Comment Status <b>D</b> on has yellow highligted		EZ	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy Remove the yellow as Proposed Response PROPOSED ACCEPT	Response Status W			OAM registers used for both 1000BASE-T1 and MultiGBASE-T1 are named BASE-T1. The following are the places where "1000" does not have strikethrough but it should. P119 L38, P127 L35
<i>Cl</i> <b>149</b> <i>SC</i> <b>149.3.8.</b> 4 Benyamin, Saied	4.3 P129 Aquantia	L <b>30</b>	# 40	C/         149         SC         149.1.3.4         P71         L1         # 43           Benyamin, Saied         Aquantia
Comment Type <b>T</b> tx_boundary description	Comment Status <b>D</b> on has yellow highligted		EZ	Comment Type         TR         Comment Status         D         EEE           link synchronization detect needs to be added to PCS since it is used as ALERT detect now
SuggestedRemedy Remove the yellow as Proposed Response PROPOSED ACCEPT	Response Status W			SuggestedRemedy         Functional block diagram 149-2 in the attached word document, errneously numbered 149-3 because I looked at the wrong document         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.         Update Figure 149-2 (number in D1.1) with the changes indicated on page 2 of Benyamin_3ch_1_0319.pdf.

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 Z/withdrawn SORT ORDER: Comment ID

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<i>Cl</i> <b>149</b> <i>SC</i> <b>149.4.1</b> Benyamin, Saied	P <b>134</b> Aquantia	L <b>1</b>	# 44	C/         149         SC 149.3.8.2.14         P119         L39           Lo, William         Axonne Inc.	# 47
Comment Type <b>TR</b> PMA reference diagra	Comment Status <b>D</b> m shows alert detect, this is re	placed by link s	PMA synchronization	Comment Type ER Comment Status D Title heading incorrect	Editor
SuggestedRemedy See attached word doo I was looking at the wr	cument for Figure 149-24 error	neously number	red as 149-34 because	SuggestedRemedy Delete 1000BASE-T1	
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
	own on page 3 of Benyamin_3	ch_1_0319.pdf	with editorial license	Change: 1000BASE-T1 To: BASE-T1	
C/ <b>149</b> SC <b>149.3.8.4</b> .o, William	4.2 P128 Axonne Inc.	L16	# 45	Cl         149         SC         149.3.2.2.20         P 95         L 43           Lo, William         Axonne Inc.	# 48
Comment Type <b>E</b> Highlighted sentence i	Comment Status <b>D</b> s accurate		EZ	Comment Type ER Comment Status D Refresh is PAM2 so we can delete highlightd paragraph.	EE
SuggestedRemedy Remove highlight				SuggestedRemedy delete highlightd paragraph.	
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.	
C/ <b>149</b> SC <b>149.3.8.</b> .o, William	4.2 P129 Axonne Inc.	L <b>30</b>	# 46	Cl         149         SC         149.3.4.4         P100         L8           Lo, William         Axonne Inc.	# 49
Comment Type <b>E</b> Highlighted sentence i	Comment Status <b>D</b> s accurate		EZ	Comment Type ER Comment Status D Section duplicated	E
SuggestedRemedy Remove highlight				SuggestedRemedy Delete section.	
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.	

C/ 149 SC 149.3.8.2.1 Lo, William	P <b>115</b> Axonne Inc.	L <b>3</b>	# 50	C/ <b>149</b> SC <b>149.4.4.</b> Lo, William	1 P147 Axonne Inc.	L <b>3</b>	# <u>5</u> 3
Comment Type ER Clarification on the dummy	Comment Status <b>D</b> v symbol		OAM	Comment Type ER The following variable: below	Comment Status <b>D</b> s are correct and should be un	indented and u	<i>State diagram</i> un highlighted. See list
SuggestedRemedy Add new paragraph at line The dummy OAM symbol Proposed Response PROPOSED ACCEPT.		ored at the recei	ver.	SuggestedRemedy	-highlighted the text associate	d with the follov	ving variables:
C/ 149 SC 149.3.8.4.4 Lo, William	P <b>130</b> Axonne Inc.	L17	# 51	PMA_state rem_phy_ready sync_link_control			
Comment Type ER rx_cnt incorrectly defined	Comment Status D		Editorial	Proposed Response PROPOSED ACCEPT	Response Status $\mathbf{W}$		
SuggestedRemedy Change: A count of received OAM f To:	rames			Accept Suggested Re not used.	medy except delete loc_phy_r		
A count of received OAM f	rame symbols			<i>Cl</i> <b>149</b> SC <b>149.4.4</b> . Lo, William	1 P148 Axonne Inc.	L <b>14</b>	# 54
Proposed Response F PROPOSED ACCEPT IN	Response Status W PRINCIPLE.			Comment Type ER rem_countdown_done	Comment Status D		Ε
Change: A count of received OAM f To: A count of received OAM f				SuggestedRemedy Change PAM3 to PAM Proposed Response			
<i>Cl</i> <b>149</b> <i>SC</i> <b>149.4.4.1</b> Lo, William	P <b>147</b> Axonne Inc.	L <b>42</b>	# 52	PROPOSED ACCEPT			
Comment Type ER Incorrect reference	Comment Status D		Refresh				
SuggestedRemedy Change 149.4.3 to 149.4.2	7						
Proposed Response F PROPOSED ACCEPT.	Response Status W						

C/ 149 SC 149.4.4.2	P148	L <b>50</b>	# 55	C/ 45	SC 45.2.3.76		L <b>50</b>	# 57
o, William	Axonne Inc.			Lo, William		Axonne Inc.		
Comment Type ER Comn Name of states incorrect for min Timer is ok	<i>bent Status</i> <b>D</b> wait_timer		State diagrams	It is not	, atus message. clear whether i	registers 3.2319 and 3.2319 s	shouldbe R/W or	OA
SuggestedRemedy Change: PMA_Training_Init_S, PCS_Tes To:	and PCS_Data			I think 3 somewh	ere else.	(159.3.8.2.12) d 3.2319 should be RO since W since the user will go in to r		
SILENT, TRAINING, PCS TEST					tent that these y write in all the	registers are automatic, or is ese statuses?	the expectation	that the user has to
Timer value is ok ans should be	0 0			SuggestedR	emedy			
Proposed Response Respons	nse Status W CIPLE.			3.2318 a	and 3.2319 sho	gisters are automatic then ould all be changed to RO with Id be changed to include RO.		of 3.2318.1.
Make proposed change and rem	ove highlighting.			Proposed Re		Response Status W		
C/ 149 SC 149.3.8.2.13	P <b>118</b>	L13	# 56	, PROPO	SED ACCEPT	IN PRINCIPLE.		
₋o, William	Axonne Inc.			TFTD				
Comment Type <b>T</b> Comm	nent Status D		OAM	TFID				
The RS(16, 14) is unnecessary of following changes allows the sim See Lo_3ch_01_0319.pdf slide 3	plification to be mad	le.	ment EEE. The			we must clearly define how th definitions flexible for the PHY		
SuggestedRemedy See Lo 3ch 01 0319.pdf slide 4		-		<i>Cl</i> <b>45</b> Lo, William	SC 45.2.3.77	7 P <b>45</b> Axonne Inc.	L <b>23</b>	# 58
	nse Status W	,		<i>Comment T</i> y 3.2320 a		Comment Status <b>D</b> ould be RO since these are st	atuses from the	OA/ link partner.
PROPOSED ACCEPT.	8			0	R/W to RO for	r 3.2320 and 2.2321 rom R/W to RO		
This also resolves comment #28				onango				

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C/ <b>149</b> S Lo, William	SC 149.4.2.4.1	0 P140 Axonne Inc.	L <b>28</b>	# 59	C/         149         SC         149.4.2.7         P146         L4           Lo, William         Axonne Inc.	# <u>6</u> 1
No more s Section re SuggestedRer Line 28) U Line 29) D , and the S Line 30) C Proposed Res	ext is corrext. scrambler seed eference <i>medy</i> Jnhighlight text Delete: Seed value use Change TBD to sponse	Response Status W		<i>Startup</i>	Comment Type       TR       Comment Status       D         No state diagram so no reference       Update to correct time       D         SuggestedRemedy       Delete:       The Refresh monitor shall comply with the state diagram of Figure TBD.         Change:       16.384/S ms to 1.536/S ms         Proposed Response       Response Status       W	State diagram
Requested	ED ACCEPT IN d changes are SC <b>149.4.2.4.1</b>	accomplished with the pr 0 P141	L16	t 231. # <u>60</u>	PROPOSED ACCEPT IN PRINCIPLE. Do not delete the Figure reference, Comment 77 adds the missing figure Remove highlighting on page 146, lines 5 to 7.	
Rest of hig	fication to conf ghlighted text is <i>medy</i>			Startup	Change:         16.384/S ms           To:         1.536/S ms           C/         149         SC         149.5.1         P152         L28           Lo, William         Axonne Inc.	# 62
Change re Proposed Res PROPOSI	Sponse ED ACCEPT IN	to PCS_status in line 17 <i>Response Status</i> <b>W</b> I PRINCIPLE.			Comment Type       TR       Comment Status       D         Dividing a clock down does not change the clock jitter.       Recommened divide by 32 or 64 so TX_TCLK_DIV is 175.8 or 87.9MHz.         Note that I am ok with either 32 or 64 depending on what people like.	Test mode.
Requested	d changes are	accomplished with the pr	oposal in commen	t 231.	See Lo_3ch_01_0319.pdf slide 5 for a intuitive diagram. SuggestedRemedy Change divided by 16 to divided by 32 Proposed Response Response Status W PROPOSED ACCEPT.	

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C/ <b>149</b> SC <b>149.3.</b> Lo, William	2.2.19	P <b>95</b> Axonne Inc.	L <b>41</b>	# 63	<i>Cl</i> <b>149</b> Lo, William	SC 149.3	5.5.1	P <b>101</b> Axonne Inc.	L <b>4</b>	# 65		
Comment Type TR		nent Status D		State diagrams	Comment T	,	-	Comment Status D		EEI		
The first PAM4 state	entered is T	TX SWITCH						the master as slave as d				
SuggestedRemedy						es uncerta		ne count during training a e timing.	as snown in Fig	ure 149-12 and		
Change PAM4 PCS	Test to				SuggestedF	emedv	,	0				
TX SWITCH state	_	nse Status W			Delete:	enreay						
Proposed Response	The transition to PCS_Test is used as a fixed timing reference for the link partners. Refresh											
PROPOSED ACCE	PROPOSED ACCEPT.						signaling is derived by counting RS-FEC frames from the transition to PCS_Test. At the Master RS-FEC frame count of zero and all multiples of 96 RS-FEC frames thereafter					
C/ 149 SC 149.3.	2.2.21	P <b>96</b>	L <b>23</b>	# 64		he start of			5 01 90 NO-FEC			
Lo, William		Axonne Inc.			Denter							
Comment Type TR	Comm	nent Status D		EEE	Replace Refresh		s derived	by tracking the partial fra	ame count as s	hown in Figure 149-12		
Comment Type       TR       Comment Status       D         Data are processed in units of superframes.       It makes no sense if the 8 RS-FEC partially fill the final superframe.         A related issue is once the LP_IDLE is sent, the transmitter is committed complete sleep signal (8 RS-FEC frames worth) and not abort early.         Add the sentences below to clarify how the 8 RS-FEC frames of LP_IDLI the end of line 23.         SuggestedRemedy         The 8 RS-FEC frames of LP_IDLE completely fill two superframes in L=2 interleave. Once initiated, the complete sleep signal FEC frames of LP_IDLE shall be transmitted.         Proposed Response       Response Status       W         PROPOSED ACCEPT.	IDLE are packed at	Followir (tx_rsfc the tran Replace Followir count to Proposed R PROPC	, and uses smit function with: g the trans generate esponse	ition to P the coun ons. ition to P refresh, A <i>Re</i> EPT IN P	AM4, the PCS continues ter to generate refresh, A AM4, the PCS continues LERT, and wake control esponse Status W RINCIPLE.	LERT, and wa	ke control signals for I frames and uses the					
					Editoria	license to	format co	orrectly.				
			interope mode. PHY fra T1, 5GE	rability, EE An EEE-ca me Count BASE-T1, a	E-capabl pable PH (PFC24) 1 nd 2.5GE	power savings, maintain le PHYs must synchroniz lY in SLAVE mode is res to the MASTER's PFC24 BASE-T1 the SLAVE's PF vith respect to the MAST	e refresh interv ponsible for syr during PAM2 t -C24 should be	als during the LPI hchronizing its Partial raining. For 10GBASE-				
					Refresh 12, whe	0 0		by tracking the RS-FEC	frame count as	shown in Figure 149-		

RS-FEC frame count = (PFC24 / 4) mod 96.

The start of the SLAVE quiet-refresh cycle is delayed from the MASTER by 52 RS-FEC frames. This offset ensures that the MASTER and SLAVE ALERT windows are offset from each other and that the refresh periods are close to half cycle offset.

Following the transition to PAM4, the PCS continues with the RS-FEC frame count and<br/>uses the count to generate refresh, ALERT, and wake control signals for the transmitC/ 14<br/>Lo, Wfunctions.CommAlso resolves Comment #33.Si

Cl 149 Lo, Willia		SC 149.3.8.	4.6	P <b>131</b> Axonne Inc.	L <b>26</b>	# 66
,			<u></u>			
Тур	e mao	chine issues			ng transitions a	OA nd not quite correct exit
Suggest	edRe	medy				
Cha Pari To:		neck(rx_oam	_field<8:0>) =	Even		
fram	e_bo	undary = Tru	ie * (rx_cnt != *	16)		
	EIVE		ECK READ tra ly it is blank)	nsition should I	be	
rx_b	e LO	AD SYMBOI ary To: ary   (rx_cnt	<sub>-</sub> state change = 16)			
Add rx_c		0 at the bott	om of the LOA	D RECEIVE P	AYLOAD state	
		2 places boundary = I	<sup>-</sup> alse)			
Propose PRC		•	Response I IN PRINCIPL			
P13	1 L 26	6 Change: F	arity_Check(r	_oam_field<8:	0>) = Even	
To:	rame	_boundary =	True * (rx_cnt	!= 16)		
P13	1 L 7	Change: RE	ECEIVE INIT (s	state name)		
To:	CHEC	CK READ tra	nsition should	be		
Add	trans	ition conditio	on to middle ar	row out of REC	EIVE INIT: rx_I	ooundary
P13	1 L 37	7 Change tra	nsition out of L	OAD SYMBOI	_ state	
Fror	1: rx_	_boundary				
To:	rx_bo	oundary + (rx	_cnt = 16)			
neral				Comm	ent ID 66	Page 14 of 6

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P 131 L 30 Add:				C/ 149 SC 149.3.5.1 Graba, Jim	P <b>101</b> Broadcom	L <b>28</b>	# 70		
rx_cnt <= 0 as the first	line in the LOAD RECEIVE PA	AYLOAD state		Comment Type       TR       Comment Status       D       EEE         Need tx_lpi_full_refresh condition in Table 149-3       SuggestedRemedy       EEE					
Delete in 2 places (P 1	31 L 27 (on left) & P 131 L 38	(on right):							
* (frame_boundary = F	alse)			Add row to Table 149-3 lpi_qr_time) = lpi_offset	. First column: tx_lpi_full_refi :- lpi refresh time	resh=true. Seco	nd column: mod(u,		
C/ <b>149</b> SC <b>149.4.4.2</b> Lo, William	P <b>148</b> Axonne Inc.	L <b>45</b>	# 67	Proposed Response PROPOSED ACCEPT.	Response Status W				
Comment Type <b>TR</b> Time way too long for a Change to match 1000	Comment Status <b>D</b> aceptable startup in automotive BASE-T1.	e applications.	State diagrams	C/ 149 SC 149.3.5.1 Graba, Jim	P <b>101</b> Broadcom	L <b>38</b>	# 71		
SuggestedRemedy Change:				Comment Type <b>TR</b> Need tx_lpi_full_refresh	<i>Comment Status</i> <b>D</b> condition in Table 149-4			EE	
2000 ms +/- 10ms To: 97.5 ms +/- 0.5 ms					. First column: tx_lpi_full_ref	resh=true. Seco	nd column:		
Proposed Response PROPOSED ACCEPT	Response Status W			mod(v,lpi_qr_time) = lp <i>Proposed Response</i> PROPOSED ACCEPT.	Response Status W				
C/ <b>149</b> SC <b>149.4.5</b> Lo, William	P <b>151</b> Axonne Inc.	L <b>18</b>	# 68						
Comment Type <b>TR</b> Missing watchdog cond	Comment Status <b>D</b> ditions and refresh status link o	down conditions	State diagrams						
SuggestedRemedy See Lo_3ch_01_0319.	pdf slide 2 for correct state ma	achine.							
Proposed Response PROPOSED ACCEPT	Response Status W								
C/ <b>149</b> SC <b>149.4.4.1</b> ₋o, William	P <b>147</b> Axonne Inc.	L <b>53</b>	# 69						
Comment Type <b>TR</b> PMA_watchdog_status	Comment Status <b>D</b> definition needs updating		State diagrams						
SuggestedRemedy See Lo_3ch_01_0319.	pdf slide 2 for text								
Proposed Response	Response Status W								

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 Z/withdrawn SORT ORDER: Comment ID

<i>Cl</i> <b>149</b> Graba, Jim	SC 149.3.5.	1 P101 Broadcom	L <b>19</b>	# <u>72</u>	<i>Cl</i> <b>149</b> Graba, Jim		149.3.6.2.3	P <b>104</b> Broadcom	L <b>2</b>	# 74	
Comment T		Comment Status D		EEE	Comment	Гуре	Е	Comment Status D			ΕZ
Establis	sh a limitation	for alert starts so that it does no	ot overlap with t	he link partner's alert.							
Suggested	Remedy				Suggested	Remea	ly				
Insert the following paragraph: The four RS-Frame long Alert shall start at the beginning of any eighth PHY frame boundary starting at the beginning of the frame following the efresh PHY frame. This offsets the master and slave alert start times by alert_period/2 = 4 PHY frames and provides the following two benefits: The MASTER and SLAVE allowable alert transmissions						Respor OSED	se REJECT.	Response Status Z			
do not o	overlap and Al	ert does not overlap device's ov	vn refresh. The	MASTER and SLAVE	This co	ommen	t was WITH	IDRAWN by the commenter.			
		resh_active and tx_alert_start s own in Table 149-3 and Table 1		transmitted PHY	C/ 149	SC	149.4.2.7	P146	L <b>5</b>	# 75	
Proposed F	Response	Response Status W			Graba, Jim			Broadcom			
PROPO	DSED ACCEP	T IN PRINCIPLE.			Comment	Гуре	TR	Comment Status D			ΕZ
Insert o	on page 101 lin	e 19			Update	the m	oving time	window length to be equivale	nt to 2.5G/5G	/10GBASE-T	
ALERT	, a four RS-FE	C frame, shall start at the begir			SuggestedRemedy Change 50 to 256. Change 16.384/S ms to 7.864/S ms						
the MA provide	STER and SLA s the following	he beginning of the frame follow AVE ALERT start times by alert two benefits: The MASTER an	_period/2 = 4 F d SLAVE allow	PHY frames and able ALERT	Proposed F PROP	'	se REJECT.	Response Status Z			
MASTE	R and SLAVE	overlap and ALERT does not o shall derive the tx_refresh_act es (tx_rsfc) as shown in Table	ive and tx_alert	_start signals from the	This co	ommen	t was WITH	IDRAWN by the commenter.			
CI 78	SC 78.2	P <b>52</b>	L <b>42</b>	# 73							
Graba, Jim		Broadcom									
Comment 7	<i>ype</i> <b>TR</b> 5 frames.	Comment Status D		EEE							
1413 3	Remedy										
Suggested	connoay		60.8 30.41 us f	or 2.5G/5G/10G							
Suggestedl Change		72, 63.36, 31.68] us to [121.6, 78-2	00.0, 00.1] 00.1								
Suggestedl Change	e Tq from [126 ively in Table 1		00.0, 00.1] 001								

C/ 149 SC 149.4.5.x P151 L27 Graba, Jim Broadcom	# 76	C/ 149 SC 149.3.6.3 P112 L44 # 78 Graba, Jim Broadcom				
Comment Type TR Comment Status D Add EEE Refresh monitor state diagram	State diagrams	Comment Type         TR         Comment Status         D         State diagram           Add EEE transmit state diagram         State diagram         State diagram         State diagram				
SuggestedRemedy Use same EEE Refresh monitor state diagram from 802.3bz (Figure 120 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	3-30)	SuggestedRemedy Insert EEE transmit state diagram with changes as shown in EeeTransmitStateDiagramMarkUp_Graba_20190222.pdf Proposed Response Response Status <b>W</b>				
In addition to adding the Figure, on P148 L 55 insert the following text, v	vith editorial license:	PROPOSED ACCEPT IN PRINCIPLE. In addition to adding the Figure, on P148 L 37 insert the following text, with editorial licens				
The following timer is required only for PHYs that support the EEE capa lpi_refresh_rx_timer         This timer is used to monitor link quality during the LPI receive mode. If reliably detect reliable refresh signaling before this timer expires then a full retra Values: The condition lpi_refresh_rx_timer_done becomes true upon tim Duration: This timer shall have a period equal to 50 complete quiet-refree equivalent to 1.536/S ms.         C/       149       SC 149.4.2.7       P146       L5         Graba, Jim       Broadcom	the PHY does not in is performed. her expiration.	The following variable is required only for PHYs that support the EEE capability: lpi_refresh_detect Set TRUE when the receiver has reliably detected refresh signaling and FALSE otherwise The exact criteria left to the implementer. pcs_data_mode Generated by the PMA PHY Control function and indicates whether or not the local PHY may transition its PCS state diagrams out of their initialization states. The current value of the pcs_data_mode is passed to the PCS via the PMA_PCSDATAMODE.indicate primitive In the absence of the optional EEE and fast retrain capabilities, the PHY operates as if the value of this variable is TRUE.				
Comment Type TR Comment Status D	State diagrams	C/         149         SC         149.3.6.2.2         P103         L29         # 79           Graba, Jim         Broadcom				
Update TBD		Comment Type ER Comment Status D EE Yellow highlighting is no longer needed				
SuggestedRemedy						

Cl         149         SC         149.3.6.2.3         P104           Graba, Jim         Broadcom	L <b>40</b>	# 80		<i>Cl</i> <b>98</b> Tu, Mike	SC 98.5.1	P <b>56</b> Broadcom	L <b>8</b>	# 83	
Comment Type ER Comment Status D Yellow highlighting is no longer needed			EEE	<i>Comment</i> The ec	• •	Comment Status <b>D</b> refer to 98.5.1, not 98.1.5.			ΕZ
SuggestedRemedy Remove highlighting from lines 40 - page 105 line 7				<i>Suggestea</i> Chang to	-	from " dashed list of 98.1	.5 after …"		
Proposed Response Response Status W PROPOSED ACCEPT.					shed list of 98.5. <i>Response</i>	1 after" Response Status W			
Cl         149         SC         149.3.6.2.3         P104           Graba, Jim         Broadcom	L <b>45</b>	# 81			OSED ACCEPT				
Comment Type TR Comment Status D			EEE	C/ <b>125</b> Tu, Mike	SC 125.1.2	P <b>62</b> Broadcom	L14	# <u>8</u> 4	
lpi_tx_sleep_timer is wrong SuggestedRemedy Replace 6 RS-FEC with 8 RS-FEC Proposed Response Response Status W				Suggested For 2.5	le the name of th <i>IRemedy</i> 5GBASE-T1, cha	Comment Status D e PCS layer to be consisten	6" to "2.5GBASE-	T1 PCS".	iture
PROPOSED ACCEPT.	L18	# 82		Proposed		ge "64B/65B RS-FEC PCS" Response Status W	to "5GBASE-111	205".	
Comment Type TR Comment Status D Update TBD			EEE		or Figure 125-1 a	omment 151 on D1.0 for Fig and 44-1. These names sho			ree
SuggestedRemedy Point to figure containing EEE transmit state diagram Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.				If we n	ake the figure m	onale. ay, e.g., "RS-FEC PCS") we uch simpler, with a single sta			
Remove hilighting on "Figure 149-TBD".									
Change: Figure 149-TBD									
To: The correct Figure reference for the figure added by	comment #78.								

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<i>Cl</i> <b>149</b> Tu, Mike	SC 149.5.2.6	P <b>156</b> Broadcom	L <b>40</b>	# 85	C/ <b>149</b> SC <b>149.4.2.4.10</b> P <b>140</b> L <b>29</b> # <u>88</u> Tu, Mike Broadcom
Comment T		Comment Status <b>D</b> build scale by the factor "S".		PMA	Comment Type <b>TR</b> Comment Status <b>D</b> Startu, There is no need to exchange the Seed values. There are no user configurable register bits
SuggestedF	Remedy				either. However the PHY shall indicate the precoder and the interleaver selections. SuggestedRemedy
Proposed R	•	Response Status W			Change the last sentence to "The PHY Control also sets PMA_state = 00 and sends the PHY capability bits, and select the precoder and the interleaver depth".
No sug		ovided. Comment 272 is rel	ated to this and pr	ovides a suggested	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
remedy	/ so implement tha	t.			Requested changes are accomplished with the proposal in comment 231.
<i>Cl</i> <b>149</b> Tu, Mike	SC 149.3.2.3	P <b>97</b> Broadcom	L <b>38</b>	# 86	C/ 149 SC 149.4.2.4.10 P141 L16 # 89
<i>Comment T</i> There a		Comment Status <b>D</b> abols per partial frame.		Editorial	Comment Type TR Comment Status D Startu The paragraph should be revised in order to match Figure 149-31 PHY Control state
00		t. change "180" to "450". Th	en remove the hig	ihlights.	diagram.
Within t Proposed R	the highlighted tex	t, change "180" to "450". Th <i>Response Status</i> <b>W</b>	en remove the hig	phights.	diagram. <i>SuggestedRemedy</i> Change the paragraph to "Upon expiration of the minwait_timer and when the condition loc_rcvr_status = OK and PCS_status = OK is satisfied, PHY control transitions to the
Within t Proposed R PROPC	the highlighted tex Response	Response Status W	en remove the hig	hlights. # <mark>87</mark>	diagram. SuggestedRemedy Change the paragraph to "Upon expiration of the minwait_timer and when the condition
Within 1 Proposed R PROPC CI <b>149</b> Tu, Mike Comment T	the highlighted tex Response DSED ACCEPT. SC <b>149.4.2.4.1(</b> Type <b>ER</b>	Response Status W D P140 Broadcom Comment Status D			diagram. SuggestedRemedy Change the paragraph to "Upon expiration of the minwait_timer and when the condition loc_rcvr_status = OK and PCS_status = OK is satisfied, PHY control transitions to the SEND_DATA state." Proposed Response Response Status W
Within t Proposed R PROPC Cl <b>149</b> Tu, Mike Comment T Removi	the highlighted tex Response DSED ACCEPT. SC 149.4.2.4.10 Type ER re the editorial high Remedy	Response Status W D P140 Broadcom Comment Status D Jighs		# 87	diagram. SuggestedRemedy Change the paragraph to "Upon expiration of the minwait_timer and when the condition loc_rcvr_status = OK and PCS_status = OK is satisfied, PHY control transitions to the SEND_DATA state." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Within 1 Proposed R PROPC Cl <b>149</b> Fu, Mike Comment T Remove Suggested Remove Proposed R	the highlighted tex Response DSED ACCEPT. SC 149.4.2.4.10 Type ER re the editorial high Remedy re the editorial high Response	Response Status W D P140 Broadcom Comment Status D lighs Response Status W		# 87	diagram. SuggestedRemedy Change the paragraph to "Upon expiration of the minwait_timer and when the condition loc_rcvr_status = OK and PCS_status = OK is satisfied, PHY control transitions to the SEND_DATA state." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Requested changes are accomplished with the proposal in comment 231. C/ 149 SC 149.4.2.4.10 P141 L19 # 90 Tu, Mike Broadcom
Proposed R PROPC Cl <b>149</b> Tu, Mike Comment T Remove Suggested Remove Proposed R PROPC	the highlighted tex Response DSED ACCEPT. SC 149.4.2.4.10 Type ER re the editorial high Remedy re the editorial high Response DSED ACCEPT IN	Response Status W D P140 Broadcom Comment Status D lighs Response Status W	L 28	# <mark>87 Startup</mark>	diagram. SuggestedRemedy Change the paragraph to "Upon expiration of the minwait_timer and when the condition loc_rcvr_status = OK and PCS_status = OK is satisfied, PHY control transitions to the SEND_DATA state." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Requested changes are accomplished with the proposal in comment 231. C/ 149 SC 149.4.2.4.10 P141 L19 # 90 Tu, Mike Broadcom Comment Type TR Comment Status D Startu
Within 1 Proposed R PROPC Cl 149 Tu, Mike Comment T Remove Suggested Remove Proposed R PROPC	the highlighted tex Response DSED ACCEPT. SC 149.4.2.4.10 Type ER re the editorial high Remedy re the editorial high Response DSED ACCEPT IN	Response Status W P P140 Broadcom Comment Status D lighs Response Status W PRINCIPLE.	L 28	# <mark>87 Startup</mark>	diagram. SuggestedRemedy Change the paragraph to "Upon expiration of the minwait_timer and when the condition loc_rcvr_status = OK and PCS_status = OK is satisfied, PHY control transitions to the SEND_DATA state." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Requested changes are accomplished with the proposal in comment 231. C/ 149 SC 149.4.2.4.10 P141 L19 # 90 Tu, Mike Broadcom Comment Type TR Comment Status D Startu This paragraph needs to be revised to match to the PHY Control state diagram. SuggestedRemedy Change the paragraph to "Upon entering the SEND_DATA state, PHY Control starts the

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C/ 149 SC 149.4.2.4.10 P141 L22 # 91 Tu, Mike Broadcom	C/         149         SC         149.2.2         P74         L28         # 94           Tu, Mike         Broadcom
Comment Type <b>TR</b> Comment Status <b>D</b> Remove editorial highlights in this paragraph.	Startup         Comment Type         TR         Comment Status         D         State diagrams           Variable "rem_phy_ready" is no longer used         State diagrams         State diagrams
SuggestedRemedy Remove editorial highlights in this paragraph. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Requested changes are accomplished with the proposal in comment 231.	SuggestedRemedy 1. Delete line 28 "PMA_REMPHYREADY.request(rem_phy_ready)" 2. Delete references to "rem_phy_ready" at the following location: 2.1 Page 71, line 34, Figure 149-2, change from "rem_rcvr_status / rem_phy_ready" to "rem_rcvr_status". 2.2 Page 80, delete 149.2.2.10, 149.2.2.10.1, 149.2.2.10.2, and 149.2.2.10.3.
C/         149         SC         149.4.5         P150         L42         # 92           Tu, Mike         Broadcom	<ul> <li>2.3 Page 82, line 24, Figure 149-4, change from "rem_rcvr_status / rem_phy_ready" to "rem_rcvr_status".</li> <li>2.4 Page 134, line 11, Figure 149-24, change from "rem_rcvr_status / rem_phy_ready" to "rem_rcvr_status".</li> <li>2.5 Page 148, delete line 14 to line 20.</li> </ul>
Comment Type TR Comment Status D State The tx_mode has already been set to "SEND_N" in the "TX_SWITCH" state. Then need to set it again.	diagrams       2.6 Page 75, line 26, delete "PMA_REMPHYREADY.request" and the associated ARROW.         is no       Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy 1. In the "PCS_TEST" block, remove "tx_mode <= SEND_N" 2. In the "SEND_DATA" block, remove "tx_mode <= SEND_N"	Comments 130, 94, 274, 276, 273 all discuss removing loc_phy_ready and/or rem_phy_ready. Need to determine a coherent solution for these comments.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	C/ <b>149</b> SC <b>149.3.2.2.16</b> P <b>93</b> L <b>33</b> # <u>95</u> Tu, Mike Broadcom
Implement the suggeste remedy.	Comment Type ER Comment Status D EZ
In addition, tx_mode does not need to be set to SEND_T in COUNTDOWN as it w that way in TRAINING.	SuggestedRemedy
3. In the "COUNTDOWN" block, remove "tx_mode <= SEND_T"	Delete line 33 to line 37. Proposed Response Response Status W
C/ <b>149</b> SC <b>149.3.7.3</b> P <b>112</b> L <b>50</b> # 93 Tu, Mike Broadcom	PROPOSED ACCEPT.
Comment Type TR Comment Status D Change "TBD" to "65B RS-FEC"	Cl         149         SC         149.3.2.2.16         P94         L19         # 96           Editorial         Tu, Mike         Broadcom         Br
SuggestedRemedy Change "TBD" to "65B RS-FEC"	Comment Type         TR         Comment Status         D         Editorial           Wrong indices.         "m_L" should be "m_0" at both the input and the output of the Lth encoder.
Proposed Response Response Status W PROPOSED ACCEPT.	SuggestedRemedy Change "m_L" to "m_0" at bot the input and the output of the Lth RS Encoder.
	Proposed Response Response Status W

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 Z/withdrawn SORT ORDER: Comment ID

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<i>Cl</i> <b>149</b> Tu, Mike	SC 149.3.2.2.18	P <b>95</b> Broadcom	L1	# 97	<i>Cl</i> <b>149</b> Tu, Mike	SC 149.4.2.4.	10 P140 Broadcom	L <b>46</b>	# 100
<i>Comment</i> T This pa	<i>Type</i> <b>ER</b> <i>Com</i> aragraph seems to be th	nment Status <b>D</b> e redundant. Keep lin	e 4 and 5.	PCS	Comment 7 Change	51	Comment Status <b>D</b> to "65B RS-FEC", same a	is the convention	Startup used in 149.3.2.2.2
Suggested Delete	<i>Remedy</i> Line 1 and line 2.				Suggestedl Change		on line 14 and line 15 to "	65B RS-FEC".	
Proposed I PROP	Response Resp OSED REJECT.	oonse Status W			Proposed F PROPC	Response DSED ACCEPT	Response Status WIIN PRINCIPLE.		
	not redundant as G(j) a		d elsewhere in tl	he document and are	Make c	hange in existing	g text or in proposed text o	f comment 231.	
	mes for the different part		delete P94, L42a	&43 to be consistent.	<i>Cl</i> <b>149</b> Tu, Mike	SC 149.3.6.3	P <b>107</b> Broadcom	L17	# 101
<i>C</i> / <b>149</b> Tu, Mike	SC 149.3.2.2.20	P <b>96</b> Broadcom	L <b>3</b>	# 98	Comment 7 The RF	51	Comment Status <b>D</b> e diagram is missing.		State diagrams
Comment Type       TR       Comment Status       D         "P(r,t)" probably should be "P(u)"         SuggestedRemedy         Replace "P(r,t)" on line 3 and line 6 by "P(u)"         Proposed Response       Response Status       W         PROPOSED ACCEPT.			Editorial	2. On li 3. Befo RX_F A sig decode	/ Figure 97-13 as ne 17, change F re 149.3.6.3, add RAME gnal sent to PCS of and the variab	s RFER monitor state diag igure 149-TBD to the figur d "149.3.6.2.6 Messages", Receive indicating that a le rf_valid is updated.	e number of this i with content:	-	
<i>Cl</i> <b>149</b> Tu, Mike	SC 149.3.2.3	P <b>97</b> Broadcom	L14	# 99		DSED ACCEPT	Response Status W IN PRINCIPLE. nents 101, 221, 222, 103,	and 78.	
Comment T Chang	Type ER Com e "65B-RS-FEC" to "65E	nment Status <b>D</b> 3 RS-FEC", same as t	the convention u	<i>EZ</i> sed in 149.3.2.2.2	<i>Cl</i> <b>149</b> Tu, Mike	SC 149.3.6.2.	5 P107 Broadcom	L <b>1</b>	# 102
Suggested Chang	<i>Remedy</i> e "65B-RS-FEC" on line	14 and line 15 to "65	B RS-FEC".		Comment 7	51	Comment Status <b>D</b> ghts from line 1 to line 5.		EZ
Proposed I PROP	Response Resp OSED ACCEPT.	oonse Status W			Suggested	Remedy	yhts on line 1 to line 5.		
					Proposed F PROPC	Response DSED ACCEPT.	Response Status W		

C/         149         SC         149.3.6.3         P107         L20         # 103           Tu, Mike         Broadcom	C/         149         SC         149.4.2.8         P146         L13         #           Tu, Mike         Broadcom	<sup>‡</sup> 106			
Comment TypeTRComment StatusDState diagramsRemove editorial highlights from line 17 to line 35.	Comment Type ER Comment Status D Remove editorial highlight.	EZ			
SuggestedRemedy Remove editorial highlights from line 17 to line 35.	SuggestedRemedy Remove editorial highlight.				
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT.				
Need to reconcile comments 101, 221, 222, 103, and 78.           C/         149         SC 149.3.7.2         P108         L24         # 104	C/         149         SC         149.4.4.1         P147         L3         #           Tu, Mike         Broadcom	ŧ <u>107</u>			
Tu, Mike Broadcom Comment Type TR Comment Status D	Comment Type <b>TR</b> Comment Status <b>D</b> Remove editorial highlight.	State diagrams			
There are only 6 bits in MDIO register bits 3.2324.5:0. SuggestedRemedy Change from "X-bit counter that" to "6-bit counter that".	SuggestedRemedy Remove editorial highlight from line 3 to line 12. Proposed Response Response Status W				
Proposed Response Response Status W PROPOSED ACCEPT.	PROPOSED ACCEPT.	1 100			
C/ 149 SC 149.4.2.3 P135 L34 # 105	Cl         149         SC         149.4.4.1         P147         L19         #           Tu, Mike         Broadcom	108			
Tu, Mike Broadcom	Comment Type TR Comment Status D Remove editorial highlight.	State diagrams			
Comment Type         T         Comment Status         D         Error rate           1. For 1000BASE-T1, RFER = BER (<1e-10) * bits/RS-FEC (3600) < 3.6e-7. See 97.4.2.3.	SuggestedRemedy Remove editorial highlight from line 19 to line 30				
<ol> <li>So it is reasonable for 802.3ch to set RFER = BER (&lt;1e-12) * bits/RS-FEC (3200) &lt; 3.2e- 9.</li> <li>SuggestedRemedy</li> </ol>	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.				
Change "TBD" to "3.2 x 10 <sup>-</sup> {-9}".	Remove highlight from line 27 to 30.				
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Delete lines 19 to 26 as loc_phy_ready is not used.				
Task force to discuss.					

Chen, Steven       Broadcom         Comment Type       TR       Comment Status       D       Editoria         The transmit transition to the LPI transmit mode is based on the TXD[31:0] of the XGMII, not in the last 64B/64B block of a RS frame.       SuggestedRemedy         SuggestedRemedy       Change " an LPI control character in the last 64B/65B block of a Reed-Solomon frame." to " an LPI control character in all four lanes of two consecutive transfers of TXD[31:0]					
The transmit transition to the LPI transmit mode is based on the TXD[31:0] of the XGMII, not in the last 64B/64B block of a RS frame. SuggestedRemedy Change " an LPI control character in the last 64B/65B block of a Reed-Solomon frame."					
not in the last 64B/64B block of a RS frame. <i>SuggestedRemedy</i> Change " an LPI control character in the last 64B/65B block of a Reed-Solomon frame."					
Change " an LPI control character in the last 64B/65B block of a Reed-Solomon frame."					
that will be mapped into a single 64B/65B block."					
Proposed Response Response Status W PROPOSED ACCEPT.					
C/         149         SC         149.1.3.3         P 69         L 46         # 113           Chen, Steven         Broadcom					
Comment Type ER Comment Status D EE					
Need to refer to the appropriate Figures.					
SugaestedRemedy					
Replace "126-14" with the cross-reference to the figure captioned "PCS 64B/65B Transmit					
state diagram, part b" currently labelled "149-13". Replace "126-15" with the cross-reference to the figure captioned "PCS 64B/65B Transmit state diagram, part b" currently labelled "149-14".					
Replace "126-18" with the cross-reference to the figure captioned "EEE transmit state					
diagram"					
Proposed Response Response Status W					
PROPOSED ACCEPT IN PRINCIPLE.					
Implement suggested solution with editorial lisence to correct references as needed.					

C/ 149 SC 149.2.2.3 Chen, Steven	Р <b>76</b> Broadcom	L <b>34</b>	# <u>1</u> 14	Cl         149         SC         149.3.2.2.16         P93         L 33         # 116           Chen, Steven         Broadcom         <
Comment Type <b>ER</b> Using XGMII instead.	Comment Status D		Editorial	Comment TypeERComment StatusDE2The L33~L37 seems being a duplicated copy of the L27~L31.
<b>5</b> 1	MII data and" to "to repres	ent XGMII data	and"	SuggestedRemedy Remove L33~L37.
Suggest to search and n Proposed Response PROPOSED ACCEPT II	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
	ange and also make this cha	nge on P148 L34	4.	C/         149         SC         149.3.2.2.16         P94         L19         # 117           Chen, Steven         Broadcom         Broadcom <t< td=""></t<>
Cl 149 SC 149.4.4.1 Chen, Steven	P <b>148</b> Broadcom	L <b>3</b> 7	# 115	Comment Type         TR         Comment Status         D         Editoria           The last message symbol of the input message symbols should be m0, not mL.         Editoria         Editoria
Comment Type <b>TR</b> The variable pcs_data_r	Comment Status <b>D</b> mode is not defined.		State diagrams	SuggestedRemedy In the input message symbols, change "mL" to "m0".
SuggestedRemedy Copy from Clause 55.4.8	5.1 and insert here.			Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE.			Cl         149         SC         149.3.6.2.4         P105         L13         # 118           Chen, Steven         Broadcom
0	he proper formatting, after th are required only for PHYs th	-		Comment Type         ER         Comment Status         D         State diagrams           There's no definition for rx_symb_vector. The rx_symb is defined instead.         State diagrams
pcs_data_mode Generated by the PMA F	PHY Control function and inc	licates whether o	or not the local PHY	SuggestedRemedy Change "rx_symb_vector" to "rx_symb".
may transition its PCS s the pcs_data_mode is p In	tate diagrams out of their ini assed to the PCS via the PN	tialization states. IA_PCSDATAM	. The current value of ODE.indicate primitive.	Proposed Response Response Status W PROPOSED ACCEPT.
the absence of the optio value of this variable is 1	nal EEE and fast retrain cap TRUE.	abilities, the PH	Y operates as if the	

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C/ <b>149</b> SC <b>149.3.7.1</b> Chen, Steven	P <b>107</b> Broadcom	L <b>46</b>	# 119	C/         149         SC         149.3.8.2.12         P117         L31         # 122           Chen, Steven         Broadcom
Comment Type ER Change PCS_status to t	Comment Status <b>D</b> the defined pcs_status for na	aming consistency.	EZ	Comment Type         TR         Comment Status         D         Editoria           The definition of "not receiving transmit messaged from the MAC" needs to be clarified.
SuggestedRemedy Change "PCS_status" to Suggest to search and r				SuggestedRemedy Change " not receiving transmit messaged from the MAC" to " not receiving valid transmit message from the MAC"
Proposed Response PROPOSED ACCEPT I	Response Status W N PRINCIPLE.			Proposed Response Response Status W PROPOSED ACCEPT.
Make suggested change	e. 150 L46 x2, P151 L12, P151	119 049135		C/         149         SC         149.3.8.4.3         P125         L 27         # 123           Chen, Steven         Broadcom
C/ 149 SC 149.3.7.2 Chen, Steven	P <b>111</b> Broadcom	L10, F40 L33.	# 120	Comment TypeERComment StatusDOAMThe mr_rx_lp_message[95:0] has 12 Octets.
Comment Type TR	Comment Status D igtype" is not defined and sh	ould be removed.	State diagrams	SuggestedRemedy Change "Eight octet BASE-T1 OAM from" to "Twelve octet BASE-T1 OAM from"
SuggestedRemedy Change "if !fr_active rx_raw <= LBLOCK_R else				Proposed Response       Response Status       W         PROPOSED ACCEPT.
rx_raw <= fr_sigtype end" to "rx_raw <= LBLOCK_R"				Comment Type         TR         Comment Status         D         E           The downward arrow from RECEIVE INIT state to CHECK READ state is missing the transition condition.         E         E
Proposed Response PROPOSED ACCEPT.	Response Status W			SuggestedRemedy Add conditional label "UCT" for the arrow in the middle.
	P <b>113</b> Broadcom	L14	# 121	Proposed Response Response Status W PROPOSED REJECT.
Comment Type E The OAM10 is not define	Comment Status D		Editorial	If comment #66 is accepted as the response is written, a condition is added to this transition.
	ld" to "the OAM 10-bit field" ssue in page 113 line 30.			
Proposed Response PROPOSED ACCEPT.	Response Status W			

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 Z/withdrawn SORT ORDER: Comment ID

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<i>Cl</i> <b>149</b> <i>SC</i> <b>149.4.2.5</b> Chen, Steven	P <b>141</b> Broadcom	L <b>32</b>	# 125	C/         149         SC         149.3.8.2.5         P116         L1         # 128           Chen, Steven         Broadcom
Comment Type ER Use the Link Synchroniz	Comment Status <b>D</b> ation when AN is disabled.		Editorial	Comment TypeTRComment StatusDEtTo exit the LPI would require to change MAC layer.
SuggestedRemedy Change the "synchroniz	ation" to "Link Synchroniza	ation".		SuggestedRemedy Remove "Request link partner to exit LPI and send idles"
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED REJECT.
C/ 149 SC 149.4.5 Chen, Steven	P <b>150</b> Broadcom	L37	# 126	This is text copied from 1000BASE-T1 OAM. This is used to force exit from EEE to ensure link is not lost. If this is not the correct way to state this, a different wording needs to be proposed.
Comment Type <b>TR</b> The "start minwait_time	Comment Status <b>D</b> " does not seem needed in t	he TX_SWITCI	State diagrams I state.	C/ 149 SC 149.3.8.2.12 P117 L42 # 129 Chen. Steven Broadcom
SuggestedRemedy Remove "start minwait_" Proposed Response PROPOSED ACCEPT.	timer". Response Status W			Comment Type       TR       Comment Status       D       OA         This standard requires single pair cable. There's no pair swap.       SuggestedRemedy       Remove L42 to L47.       D       D
C/ 149 SC 149.3.8.2.4 Chen, Steven	12 P118 Broadcom	L <b>7</b>	# 127	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Comment Type <b>TR</b> Unclear which RS-FEC frame and OAM messag	<i>Comment Status</i> <b>D</b> block errors since we have di ge, respectively.	ifferent RS-FEC	OAM for both RS-FEC	While it is true that pairs cannot be swapped as there is only one pair, the conductors in th pair can be swapped. That is what this says.
SuggestedRemedy				Change: Pair swapped
6	ock errors" to " RS-FEC fra	me block errors	"	To: Polarity inversion
Proposed Response PROPOSED ACCEPT.	Response Status W			Also on P117 L46 Change: Pair is not swapped To: No polarity inversion detected.
				P117 L 47 Change: Pair is swapped To: Polarity inversion detected.

C/ 149 SC 149.2.2 Chen, Steven	P <b>74</b> Broadcom	L <b>26</b>	# 130	C/ 1 SC 1.5 P22 Wienckowski. Natalie General Motors	L <b>50</b> # 1 <u>33</u>
Comment Type <b>TR</b> variable loc_phy_ready	Comment Status <b>D</b> is not used.		State diagrams	Comment Type E Comment Status D Remove note on the type of paragraph to use for Abbrevia	ations.
2. In page 71 line <sup>2</sup> 6, re 3. In page 79, remove li 4. In page 82 line 26, re	READY.indication(loc_phy_re nove "loc_phy_ready" in Figur ines from 1 to 22. emove "loc_phy_ready" in Figu emove "loc_phy_ready" in Figi	e 149-2. ure 149-4.		SuggestedRemedy Remove: [abbreviations use paragraph tag AcrList,ac] Proposed Response Response Status W PROPOSED ACCEPT.	
6. In page 147, remove Proposed Response		16 143-24.		Cl 45SC 45.2.1.192.3P35Wienckowski, NatalieGeneral Motors	L <b>13</b> # 134
	IN PRINCIPLE. 4, 276, 273 all discuss removi to determine a coherent solut			Comment Type E Comment Status D typo SuggestedRemedy	E
C/ 1 SC 1.3	P <b>22</b>	L <b>6</b>	# 131	Change: the device shall, as a minimum To: the device shall, at a minimum	
Wienckowski, Natalie Comment Type E	General Motors Comment Status D	3	EZ	Proposed Response Response Status W PROPOSED ACCEPT.	
	owing references in 1.3 alphar references in 1.3 in alphanur			CI 45SC 45.2.1.192.4P35Wienckowski, NatalieGeneral MotorsComment TypeEComment StatusD	L <b>28</b> # [ <u>135</u>
Proposed Response PROPOSED ACCEPT.	Response Status W			verb/noun agreement SuggestedRemedy	L
C/ 1 SC 1.4 Wienckowski, Natalie	P <b>22</b> General Motors	L <b>26</b>	# 132	Change: Setting these bits force the precoder to the mod To: Setting these bits forces the precoder to the mode se	
Comment Type E Missing space	Comment Status D		EZ	Proposed Response Response Status W PROPOSED ACCEPT.	
SuggestedRemedy Change: 802.3cb-2018 To: 802.3cb-2018) as	3)as				
Proposed Response PROPOSED ACCEPT.	Response Status W				

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C/ <b>45</b>	SC 45.2.1.194.4		L <b>9</b>	# 136	C/ <b>45</b>	SC 45.2.1	.194.5	P38	L16	# <u>1</u> 37
Wienckow	/ski, Natalie	General Moto	ors		Wienckow	ski, Natalie		General Moto	ors	
Comment	Type E C	Comment Status D		Registers	Comment	Туре Е	Comr	ment Status D		Registers
We do	on't need to keep repe	eating MultiGBASE-T1.			We do	on't need to k	eep repeating	g MultiGBASE-T1.		

## SugaestedRemedv

Change: When set as a one, this bit indicates to the link partner that the MultiGBASE-T1 PHY is advertising MultiGBASE-T1 OAM capability. When set as a zero, this bit indicates to the link partner that the MultiGBASE-T1 PHY is not advertising MultiGBASE-T1 OAM capability. This bit shall be set to zero if the MultiGBASE-T1 PHY does not support MultiGBASE-T1 OAM.

To: When set as a one, this bit indicates to the link partner that the PHY is advertising MultiGBASE-T1 OAM capability. When set as a zero, this bit indicates to the link partner that the 1 PHY is not advertising MultiGBASE-T1 OAM capability. This bit shall be set to zero if the PHY does not support MultiGBASE-T1 OAM.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE

(to correct cut/paste issue in suggested remedy "1 PHY" changed to "PHY" AND to fix "shall" on the user "this bit shall be set to zero" changed to "this bit should be set to zero...")

Change: When set as a one, this bit indicates to the link partner that the MultiGBASE-T1 PHY is advertising MultiGBASE-T1 OAM capability. When set as a zero, this bit indicates to the link partner that the MultiGBASE-T1 PHY is not advertising MultiGBASE-T1 OAM capability. This bit shall be set to zero if the MultiGBASE-T1 PHY does not support MultiGBASE-T1 OAM

To: When set as a one, this bit indicates to the link partner that the PHY is advertising MultiGBASE-T1 OAM capability. When set as a zero, this bit indicates to the link partner that the PHY is not advertising MultiGBASE-T1 OAM capability. This bit should be set to zero if the PHY does not support MultiGBASE-T1 OAM.

Comment Type	Е	Comment State	us <b>D</b>		Registers
We don't nee	d to kee	ep repeating MultiGB	ASE-T1.		
SuggestedRemed				linte o anto an the at	

Change: When set as a one, this bit indicates to the link partner that the MultiGBASE-T1 PHY is advertising EEE capability. When set as a zero, this bit indicates to the link partner that the MultiGBASE-T1 PHY is not advertising EEE capability. This bit shall be set to zero if the MultiGBASE-T1 PHY does not support EEE.

To: When set as a one, this bit indicates to the link partner that the PHY is advertising EEE capability. When set as a zero, this bit indicates to the link partner that the PHY is not advertising EEE capability. This bit shall be set to zero if the PHY does not support EEE.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

(to fix "shall" on the user "this bit shall be set to zero" changed to "this bit should be set to zero...")

Change: When set as a one, this bit indicates to the link partner that the MultiGBASE-T1 PHY is advertising EEE capability. When set as a zero, this bit indicates to the link partner that the MultiGBASE-T1 PHY is not advertising EEE capability. This bit shall be set to zero if the MultiGBASE-T1 PHY does not support EEE.

To: When set as a one, this bit indicates to the link partner that the PHY is advertising EEE capability. When set as a zero, this bit indicates to the link partner that the PHY is not advertising EEE capability. This bit should be set to zero if the PHY does not support EEE.

Cl 45	SC	45.2.3.76	P <b>44</b>	L <b>42</b>	# 138
Wienckov	vski, Na	talie	General Motors		
Comment	Туре	т	Comment Status D		OAM
The d	letails o	n the OAM	Status bytes are defined in 14	9.3.8.2.12.	Refer to that section for

these bytes.

### SuggestedRemedy

Replace: The message data is user defined and its definition is outside the scope of this standard.

With: See 149.3.8.2.12 for details on the OAM status message definition.

Proposed Response Response Status W

PROPOSED ACCEPT.

cal Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 4th Ta

C/ 45 SC 45.2.3.80 Wienckowski, Natalie	.5 P49 General Motors	L13	# 139	Cl         149         SC         149.1.3         P66         L49         # 142           Wienckowski, Natalie         General Motors         General Motors         142
Comment Type <b>E</b> There is a carriage retu paragraph.	Comment Status <b>D</b> Irn that shouldn't be there. Thi	s section shou	<i>Editorial</i> ld be a single	Comment Type E Comment Status D E. missing space
SuggestedRemedy Remove the carriage re paragraph.	eturn after "behavior." to bring t	he following lin	ne into the same	SuggestedRemedy Change: at least 15 m.The To: at least 15 m. The
Proposed Response PROPOSED REJECT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
	nich are copies, the statement the for readability. See 45.2.3.69			Cl         149         SC         149.1.3         P67         L54         # 143           Wienckowski, Natalie         General Motors         General Motors         143
C/ <b>125</b> SC <b>125.1.2</b> Wienckowski, Natalie	P <b>62</b> General Motors	L17	# 140	Comment Type         T         Comment Status         D         Nomenclature           We agreed to call the OAM "MultiGBASE-T1 OAM".
<i>Comment Type</i> <b>E</b> alignment of figure eler	Comment Status D		EZ	SuggestedRemedy Change: 2.5G/5G/10GBASE-T1 OAM To: MultiGBASE-T1 OAM throughout this section and the document.
S <i>uggestedRemedy</i> Need to align MDI box	of 5GBASE-T which overlaps t	he AN box.		Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Change 2.5G/5G/10GBASE-T1 to "MultiGBASE-T1" everywhere in the draft (not just for OAM). (note most references refer to "MultiGBASE-T1 PCS or PMA/PMD", whereas Clause 149 refers to 2.5G/5G/10GBASE-T1 links, PCS, operation, link segment, and OAM.
Align MDI and AN boxe 1 to fix overlaps.	es, and editorial license to align	other boxes a	nd lines in Figure 125-	(TFTD - Is there a difference here?)
C/ <b>149</b> SC <b>149</b> Vienckowski, Natalie	P <b>66</b> General Motors	L <b>2</b>	# 141	C/         149         SC         149.1.3         P68         L7         #         144           Wienckowski, Natalie         General Motors         General Motors         Image: Content of the second secon
Comment Type E missing comma	Comment Status D		EZ	Comment TypeEComment StatusDNomenclaturUse common abreviation for the combined PHY types.
SuggestedRemedy Change: (PMA) sublay To: (PMA) sublayer, a				SuggestedRemedy Change: The 2.5GBASE-T1, 5GBASE-T1, or 10GBASE-T1 PMA To: 2.5G/5G/10GBASE-T1 PMA
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response Response Status W PROPOSED REJECT.
				When "2.5GBASE-T1, 5GBASE-T1, or 10GBASE-T1 PMA" (or PCS or PHY) is used, we are talking about behavior of a single-speed, single-instance of a PMA (or PCS or PHY). When we use "MultiGBASE-T1" PMA we are talking about the specification, or the name of a functionality associated with all 3 (such as OAM).

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 Z/withdrawn SORT ORDER: Comment ID

Cl 149 SC 149.4.2.1 Wienckowski, Natalie	P <b>135</b> General Motors	L <b>7</b>	# 145	C/ <b>149</b> SC Wienckowski, Na	<b>149.1.3.3</b> atalie	P <b>69</b> General Motors	L <b>20</b>	# 148
Comment Type <b>T</b> Com Add requirement for time allows	<i>ment Status</i> <b>D</b> ed to perform a reset at	the end of this	EZ section.	Comment Type missing com		Comment Status D		Editoria
SuggestedRemedy				SuggestedReme	dy			
Add a new paragraph at the en transmit and receive functions				Change: Pe To: Periodic				
Proposed Response Resp	onse Status Z			Proposed Respo	nse	Response Status W		
PROPOSED REJECT.				PROPOSED	ACCEPT I	N PRINCIPLE.		
This comment was WITHDRAV	VN by the commenter.	L 28	# 146	Change: Per	iodically the the link part	for the comma and improving transmit function of the loca iner to update adaptive filters	I PHY transmit	
Wienckowski, Natalie	General Motors							
Comment Type <b>T</b> Com Remove timing for restoration of	ment Status <b>D</b> of normal operation and	refer to 149.4.2	.1 instead.		link partner	n of the local PHY periodicall to update adaptive filters and		
SuggestedRemedy				C/ 149 SC	149.1.3.3	P69	L <b>25</b>	# 440
Suggesteurtemeuy				0/149 30	143.1.3.3	103	LZ3	# 1149
Change: The control and mana	0	be restored to c	peration within 0.5 s	Wienckowski, Na		General Motors		# 149
Change: The control and mana from the setting of bit 1.2309.15 To: The control and managem	5. ent interface shall be re	stored to operat		Wienckowski, Na Comment Type	atalie E			# [ <u>149</u> E
Change: The control and mana from the setting of bit 1.2309.11 To: The control and managem specified in 149.4.2.1 from the	5. ent interface shall be re	stored to operat		Wienckowski, Na Comment Type Duplicate se SuggestedReme	etalie E ntence.	General Motors Comment Status D	5	E
Change: The control and mana from the setting of bit 1.2309.11 To: The control and managem specified in 149.4.2.1 from the <i>Proposed Response Response</i> PROPOSED REJECT.	5. ent interface shall be re setting of bit 1.2309.15. onse Status <b>Z</b>	stored to operat		Wienckowski, Na Comment Type Duplicate se SuggestedReme	atalie E ntence. dy instance of	General Motors <i>Comment Status</i> <b>D</b> f: The PMA Transmit function	5	E
Change: The control and mana from the setting of bit 1.2309.1 To: The control and managem specified in 149.4.2.1 from the Proposed Response Resp	5. ent interface shall be re setting of bit 1.2309.15. onse Status <b>Z</b>	stored to operat		Wienckowski, Na Comment Type Duplicate se SuggestedReme Remove one	etalie E ntence. dy instance of the link part onse	General Motors <i>Comment Status</i> <b>D</b> f: The PMA Transmit function	5	E
Cl 125 SC 125.1.2	5. ent interface shall be re setting of bit 1.2309.15. onse Status <b>Z</b>	stored to operat		Wienckowski, Na Comment Type Duplicate se SuggestedReme Remove one message to Proposed Respo	etalie E ntence. dy instance of the link part onse	General Motors <i>Comment Status</i> <b>D</b> f: The PMA Transmit function mer.	5	E
Change: The control and mana from the setting of bit 1.2309.14 To: The control and managem specified in 149.4.2.1 from the Proposed Response Response Response PROPOSED REJECT. This comment was WITHDRAW C/ 125 SC 125.1.2 Wienckowski, Natalie	5. ent interface shall be re setting of bit 1.2309.15. onse Status <b>Z</b> WN by the commenter. P <b>61</b>	estored to operat	ion within the time	Wienckowski, Na Comment Type Duplicate se SuggestedReme Remove one message to Proposed Respo	etalie E ntence. dy instance of the link part onse	General Motors <i>Comment Status</i> <b>D</b> f: The PMA Transmit function mer.	5	E
C/ 125 SC 125.1.2 Wienckowski, Natalie Comment Type E Com	5. ent interface shall be re setting of bit 1.2309.15. onse Status <b>Z</b> WN by the commenter. P <b>61</b> General Motors ment Status <b>D</b> erface (MDI)	estored to operat	tion within the time	Wienckowski, Na Comment Type Duplicate se SuggestedReme Remove one message to Proposed Respo	etalie E ntence. dy instance of the link part onse	General Motors <i>Comment Status</i> <b>D</b> f: The PMA Transmit function mer.	5	E

Origianal OAM bytes are now na SuggestedRemedy Change: 2.5G/5G/10GBASE-T1 To: BASE-T1 OAM	OAM se Status W IPLE. GBASE-T1 OAM SNR s "PHY Health Indicator" i information is for discuss			OAM	synchroni: To: The L	omma <i>nedy</i> The Link Syr ze between t	ne	nction is used whe	en Auto-Nego	l otiation is disabled to
Change: 2.5G/5G/10GBASE-T1 To: BASE-T1 OAM Proposed Response Respon PROPOSED ACCEPT IN PRINC The entire phrase is "2.5G/5G/10 references to this - it is called the (why it is repeated, with different comment - this is what was in CI later the functions. These are al The MultiG-BASET1 specific def	se Status <b>₩</b> IPLE. GBASE-T1 OAM SNR s "PHY Health Indicator" i information is for discuss				Change: synchroni To: The L	The Link Syr te between t	ne		en Auto-Nego	otiation is disabled to
Change: 2.5G/5G/10GBASE-T1 To: PHY Health status received	in the same subsection nitions are all in 149.3.8. OAM SNR settings indica	sion, and probab a description of due to the 5 leve 2.12 instead of ate	nd 149.3.8.2. oly another f the bits, ther el heading lim	n nit.	Repeating what this is phy contro Combine Replace: synchroni Synchroni presence link_status With: The implemen	ED ACCEPT that "link sy unction does I diagram) - he first and s The Link Syn te between t zation provid of each other s. Link Synchr red to detect	ne Response S IN PRINCIPLE Inchronization" . It doesn't cor also the case was second sentend chronization function the MASTER P es a fast and r and start the function the presence of the presenc	Status <b>W</b> E. is to "synchronize" trol the link_status where autoneg is n ces of 149.1.3.4 as nction is used whe HY and SLAVE PH eliable mechanism imers used by the ion is used when A of the link partner,	has no value timer (that's ot implement follows: Auto-Nego ty before trai for link partr link monitor	ntiation is disabled to ining starts. Link ners to detect the
						SC 149.1.4		P <b>72</b> Pral Motors	L16	# 152
					Comment Typ		Comment S	Status D		
						efresh, quiet	and alert sign alert sign			
					Proposed Res PROPOS	ponse ED ACCEPT	Response S	Status W		

Cl         149         SC         149.1.4         P72         L23         #         153           Wienckowski, Natalie         General Motors         Genera	C/         149         SC         149.2.2.3.1         P76         L44         # 155           Wienckowski, Natalie         General Motors         General Motors         155
Comment Type E Comment Status D Desc subject/verb agreement	Comment Type E Comment Status D Formatting of text under SYMB and ALERT does not match the rest of the document.
SuggestedRemedy Change: which enable the receiver To: which enables the receiver	SuggestedRemedy Fix the paragraph formatting. Proposed Response Response Status <b>W</b>
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT.
PAM2 doesn't "enable" the receiver, it might aide it, but best to leave implementation detail out. Also, figure 149-4 isn't really relevant to this statement. 149-31 is.	C/         149         SC         149.3.2.2         P83         L10         # 156           Wienckowski, Natalie         General Motors         General Motors         Figure 100         Figure 100
Change: generate only PAM2 symbols for transmission by the PMA, which enable the receiver at the other end to train until it is ready to operate in normal mode. (See Figure 149–4.) To: generate only PAM2 symbols for transmission by the PMA for the initial phases of	Comment Type       E       Comment Status       D         Add commas for readability.       SuggestedRemedy       Change: These bits are then mapped two at a time into a PAM4 symbol.         To: These bits are then mapped, two at a time, into a PAM4 symbol.
training. (See Figure 149–31.)         C/       149       SC 149.2.2.1.1       P74       L48       # 154         Wienckowski, Natalie       General Motors	Proposed Response Response Status W PROPOSED ACCEPT.
Comment Type         T         Comment Status         D         Editorial           We removed SEND_I, but didn't change the number of values to "three" from "four" in the	C/         149         SC         149.3.2.2         P83         L 22         #         157           Wienckowski, Natalie         General Motors         Gen
We removed SEND_I, but didn't change the number of values to "three" from "four" in the text.	Wienckowski, Natalie     General Motors       Comment Type     E       Missing open parenthesis       SuggestedRemedy
We removed SEND_I, but didn't change the number of values to "three" from "four" in the text. SuggestedRemedy Change: four	Wienckowski, Natalie     General Motors       Comment Type     E       Missing open parenthesis
We removed SEND_I, but didn't change the number of values to "three" from "four" in the text. SuggestedRemedy Change: four To: three	Wienckowski, Natalie     General Motors       Comment Type     E       Comment Status     D       Missing open parenthesis       SuggestedRemedy       Change: Tn)
We removed SEND_I, but didn't change the number of values to "three" from "four" in the text.  SuggestedRemedy Change: four To: three  Proposed Response Response Status W	Wienckowski, Natalie General Motors Comment Type E Comment Status D Missing open parenthesis SuggestedRemedy Change: Tn) To: (Tn)

Cl 149 SC 149.3.2.2 Wienckowski, Natalie	P <b>83</b> General Motors	L <b>23</b>	# <u>1</u> 58		C/         149         SC         149.3.2.2.2         P 85         L 31         # 161           Wienckowski, Natalie         General Motors         General Motors         161
Comment Type E Change signal value to -	Comment Status <b>D</b> +1 for consistency.			EZ	Comment Type E Comment Status D E2 extraneous word
SuggestedRemedy Change: {-1, 1} To: {-1, +1}					SuggestedRemedy Remove the word "pair" from Figure 149-6. This is left from the 4-pair figure and ins't needed here.
Proposed Response PROPOSED ACCEPT I	Response Status W N PRINCIPLE.				Proposed Response Response Status W PROPOSED ACCEPT.
Change: {-1, 1} To: {-1, +1}					C/         149         SC         149.3.8.4.3         P127         L35         # 162           Wienckowski, Natalie         General Motors         General Motors         # 162
Cl         149         SC         149.3.2.2.4           Wienckowski, Natalie	1 P84 General Motors	L <b>4</b>	# 159		Comment Type E Comment Status D E2 We changed to BASE-T1 OAM
Comment Type E typo	Comment Status D			EZ	SuggestedRemedy Change: 1000BASE-T1 OAM To: BASE-T1 OAM
SuggestedRemedy Change: 65B-RS_FEC To: 65B RS-FEC					Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response PROPOSED ACCEPT.	Response Status W				C/         149         SC         149.3.8.4.3         P127         L43         # 163           Wienckowski, Natalie         General Motors         General Motors         # 163
Cl         149         SC         149.3.2.3           Wienckowski, Natalie	P <b>97</b> General Motors	L14	# 160		Comment Type E Comment Status D Editoria missing periods
Comment Type E typo	Comment Status D			EZ	SuggestedRemedy Add periods at the end of both "Values" sentences.
SuggestedRemedy Change: 65B-RS-FEC To: 65B RS-FEC					Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Also page 97 line 15 and Proposed Response PROPOSED ACCEPT.	d page 140 line 46. <i>Response Status</i> <b>W</b>				Add periods at the end of both values, and editorial license to add periods at the end of other Values in 149.3.8.4.3 which may be lacking and are complete sentences (e.g., P127 L21 & 22)

Cl         149         SC         149.3.8.4.3         P127           Wienckowski, Natalie         General Motors	L <b>49</b>	# 164	Cl         149         SC         149.3.8.4.3         P129         L 33           Wienckowski, Natalie         General Motors	# 167
Comment Type E Comment Status D missing period		Editorial	Comment Type E Comment Status D missing periods	Editorial
SuggestedRemedy Add period at end of "Good" sentence.			SuggestedRemedy Add periods at the end of both "Values" sentences.	
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
This is not a sentence. Remove period at the end of the "BAD" statement as it	is not a sont	2200	Change: false: transmit stream not at a boundary end true: transmit stream at a boundary end	
Cl 149 SC 149.3.8.4.3 P128 Wienckowski, Natalie General Motors	L19	# <u>165</u>	To: false: transmit stream is not at a boundary end. true: transmit stream is at a boundary end.	
Comment Type E Comment Status D missing periods		Editorial	Cl 149SC 149.4.2P134L47Wienckowski, NatalieGeneral Motors	# 168
SuggestedRemedy			Comment Type T Comment Status D Incorrect Figure reference	EZ
Add periods at the end of both "Values" sentences. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.			SuggestedRemedy Change: Figure 149-12 To: Figure 149-24 Make the same change on line 49.	
Change: false: transmit stream not at a boundary end true: transmit stream at a boundary end			Proposed Response Response Status W PROPOSED ACCEPT.	
To: false: transmit stream is not at a boundary end. true: transmit stream is at a boundary end.			Cl 149 SC 149.4.2.1 P135 L4	# 169
Cl         149         SC         149.3.8.4.3         P129           Wienckowski, Natalie         General Motors	L <b>20</b>	# <u>1</u> 66	Wienckowski, NatalieGeneral MotorsComment TypeEComment StatusD	EZ
Comment Type E Comment Status D missing periods		Editorial	missing space SuggestedRemedy	
SuggestedRemedy Add periods at the end of all 4 "Values" sentences.			Change: hold true.All To: hold true. All	
Proposed Response Response Status W PROPOSED ACCEPT.			Proposed Response Response Status W PROPOSED ACCEPT.	

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C/ <b>149</b> SC 14 Vienckowski, Nata	<b>149.4.2.2</b> alie	P <b>135</b> General Motors	L11	# 170	Cl 149 SC 149.4.2. Wienckowski, Natalie	2.1 P135 General Motors	L <b>26</b>	# 172
Comment Type missing comma	<b>Е</b> na	Comment Status D		State diagrams	Comment Type E improve wording by re	<i>Comment Status</i> <b>D</b> moving an extra "transmitter".		Editoria
SuggestedRemedy Change: onto t To: onto the M Proposed Respons PROPOSED A	o the MDI pu MDI, pulses se	Response Status W			the transmitter so that than –53 dBm. To: When the PMA_t	MA_transmit_disable variable is s the transmitter Average Launch ransmit_disable variable is set to Average Launch Power of the Ti	Power of the true, this fur	e Transmitter is less nction shall turn off the
Sentence is pu autoneg case.		correctly, but is confusing - a	nd is incorrec	t by not covering the	Proposed Response PROPOSED ACCEPT	Response Status W		
Change: PMA Transmit shall continuously transmit onto the MDI pulses modulated by the symbols given by tx_symb when sync_link_control = ENABLE, or the sync_tx_symb output by the PHY Link Synchronization function when sync_link_control = DISABLE, after processing with optional transmit filtering, digital-to-analog conversion (DAC) and subsequent analog filtering.					C/ 149 SC 149.4.2. Wienckowski, Natalie	3 P135 General Motors	L <b>44</b>	# 173
					Comment Type E subject/verb agreeme	Comment Status D		E
DISABLE_TRA modulated by t	ANSMITTE the symbols	l state diagram (Figure 149- R state, PMA Transmit shall s given by tx_symb_onto the	continuously MDI after pro	transmit pulses ocessing with optional	SuggestedRemedy Change: from any oth To: from any other va			
DISABLE_TRA modulated by th transmit filtering During Link Syn either not enab Synchronization	ANSMITTE the symbols ng, digital-to ynchronizati bled or is no	R state, PMA Transmit shall	continuously MDI after pro and subseque = DISABLE ar _symb output	transmit pulses ocessing with optional nt analog filtering. nd Auto-Negotiation is by the PHY Link	Change: from any oth	lue Response Status W		
DISABLE_TRA modulated by the transmit filtering During Link Syn either not enab	ANSMITTE the symbols ng, digital-to ynchronizati bled or is no	R state, PMA Transmit shall s given by tx_symb onto the p-analog conversion (DAC), a on, when sync_link_control = ot implemented, the sync_tx_	continuously MDI after pro and subseque = DISABLE ar _symb output	transmit pulses ocessing with optional nt analog filtering. nd Auto-Negotiation is by the PHY Link ata source for PMA	Change: from any oth To: from any other va Proposed Response PROPOSED ACCEPT C/ 149 SC 149.4.2.	lue Response Status W C. 4 P136	L14	# 174
DISABLE_TRA modulated by ti transmit filtering During Link Syr either not enab Synchronization Transmit.	ANSMITTE the symbols ng, digital-to ynchronizati bled or is no on function	R state, PMA Transmit shall s given by tx_symb onto the h-analog conversion (DAC), a on, when sync_link_control = ot implemented, the sync_tx_ shall be used in place of tx_s P135 General Motors	continuously MDI after pro and subseque = DISABLE ar _symb output	transmit pulses ocessing with optional nt analog filtering. nd Auto-Negotiation is by the PHY Link lata source for PMA # 171	Change: from any oth To: from any other va Proposed Response PROPOSED ACCEPT Cl 149 SC 149.4.2. Wienckowski, Natalie Comment Type E	lue Response Status W	L 14	# <u>174</u> E
DISABLE_TRA modulated by the transmit filtering During Link Syn either not enab Synchronization Transmit.	ANSMITTE the symbols ng, digital-tc ynchronizati bled or is no on function : 149.4.2.2 alie E	R state, PMA Transmit shall s given by tx_symb onto the p-analog conversion (DAC), a on, when sync_link_control = ot implemented, the sync_tx_ shall be used in place of tx_s P135	continuously MDI after pro and subseque = DISABLE ar _symb output symb as the d	transmit pulses ocessing with optional nt analog filtering. nd Auto-Negotiation is by the PHY Link ata source for PMA	Change: from any oth To: from any other va Proposed Response PROPOSED ACCEPT CI 149 SC 149.4.2. Wienckowski, Natalie Comment Type E extra "F"	lue Response Status W T. 4 P136 General Motors	L 14	
DISABLE_TRA modulated by the transmit filtering During Link Syn either not enab Synchronization Transmit. <b>149</b> SC 14 /ienckowski, Nata comment Type missing comment uggestedRemedy	ANSMITTE the symbols ng, digital-tc ynchronizati bled or is no on function s 149.4.2.2 alie E na	R state, PMA Transmit shall s given by tx_symb onto the i-analog conversion (DAC), a on, when sync_link_control = ot implemented, the sync_tx_ shall be used in place of tx_s P135 General Motors Comment Status D	continuously MDI after pro and subseque = DISABLE ar _symb output symb as the d	transmit pulses ocessing with optional nt analog filtering. nd Auto-Negotiation is by the PHY Link lata source for PMA # 171	Change: from any oth To: from any other va Proposed Response PROPOSED ACCEPT Cl 149 SC 149.4.2. Wienckowski, Natalie Comment Type E	lue Response Status W T. 4 P136 General Motors Comment Status D	L14	
DISABLE_TRA modulated by the transmit filtering During Link Syn either not enab Synchronization Transmit. <b>149</b> SC 14 Vienckowski, Nata Comment Type missing comma SuggestedRemedy Change: (DAC	ANSMITTE the symbols ng, digital-tc ynchronizati bled or is no on function s <b>149.4.2.2</b> alie <b>E</b> na (y C) and subs	R state, PMA Transmit shall s given by tx_symb onto the p-analog conversion (DAC), a on, when sync_link_control = ot implemented, the sync_tx_ shall be used in place of tx_s P135 General Motors Comment Status D	continuously MDI after pro and subseque = DISABLE ar _symb output symb as the d	transmit pulses ocessing with optional nt analog filtering. nd Auto-Negotiation is by the PHY Link lata source for PMA # 171	Change: from any oth To: from any other va Proposed Response PROPOSED ACCEPT Cl 149 SC 149.4.2. Wienckowski, Natalie Comment Type E extra "F" SuggestedRemedy Change: Ffigure 149-	lue Response Status W T. 4 P136 General Motors Comment Status D	L14	
DISABLE_TRA modulated by the transmit filtering During Link Syn either not enab Synchronization Transmit. 2/ 149 SC 14 Vienckowski, Nata Comment Type missing comma SuggestedRemedy	ANSMITTE the symbols ng, digital-to ynchronizati bled or is no on function s <b>149.4.2.2</b> alie <b>E</b> na (y) C) and subseque	R state, PMA Transmit shall s given by tx_symb onto the p-analog conversion (DAC), a on, when sync_link_control = ot implemented, the sync_tx_ shall be used in place of tx_s P135 General Motors Comment Status D	continuously MDI after pro and subseque = DISABLE ar _symb output symb as the d	transmit pulses ocessing with optional nt analog filtering. nd Auto-Negotiation is by the PHY Link lata source for PMA # 171	Change: from any oth To: from any other va Proposed Response PROPOSED ACCEPT Cl 149 SC 149.4.2. Wienckowski, Natalie Comment Type E extra "F" SuggestedRemedy Change: Ffigure 149- To: Figure 149-27	lue Response Status W 4 P136 General Motors Comment Status D 27 Response Status W	L 14	
DISABLE_TRA modulated by the transmit filtering During Link Syn either not enab Synchronization Transmit. <b>149</b> SC 14 Vienckowski, Nata Comment Type missing comma SuggestedRemedy Change: (DAC To: (DAC), and	ANSMITTE the symbols ng, digital-to ynchronizati bled or is no on function a <b>149.4.2.2</b> alie <b>E</b> na fy C) and subseque se	R state, PMA Transmit shall s given by tx_symb onto the -analog conversion (DAC), a on, when sync_link_control = ot implemented, the sync_tx_ shall be used in place of tx_s <i>P</i> 135 General Motors <i>Comment Status</i> <b>D</b> sequent ent <i>Response Status</i> <b>W</b>	continuously MDI after pro and subseque = DISABLE ar _symb output symb as the d	transmit pulses ocessing with optional nt analog filtering. nd Auto-Negotiation is by the PHY Link lata source for PMA # 171	Change: from any oth To: from any other va Proposed Response PROPOSED ACCEPT Cl 149 SC 149.4.2. Wienckowski, Natalie Comment Type E extra "F" SuggestedRemedy Change: Ffigure 149- To: Figure 149-27 Proposed Response	Iue Response Status W 4 P136 General Motors Comment Status D 27 Response Status W T IN PRINCIPLE.	L14	

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 Z/withdrawn SORT ORDER: Comment ID

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 4th T

Cl         149         SC         149.4.2.4.2         P 137         L 3         # 175           Wienckowski, Natalie         General Motors         General Motors         175	C/         149         SC         149.4.2.4.10         P 140         L 44         # 178           Wienckowski, Natalie         General Motors         General Motors         Transmitter         Tra
Comment TypeTComment StatusDEditorialThe SOF is 3 octets, not 4.Also, fix subject/verb agreement.	Comment Type         E         Comment Status         D         Startup           Add commas for readability. <t< td=""></t<>
SuggestedRemedy         Change: The start of Frame Delimiter consist of 4 octets [Octet 1<7:0>, Octet 2<7:0>,         Octet 3<7:0>]         To: The start of Frame Delimiter consists of 3 octets [Octet 1<7:0>, Octet 2<7:0>, Octet 3<7:0>]         Proposed Response       Response Status         PROPOSED ACCEPT IN PRINCIPLE.         Change: The start of Frame Delimiter consists of 4 octets [Octet 1<7:0>, Octet 2<7:0>, Octet 3<7:0>]         To: The start of Frame Delimiter consists of three octets [Octet 1<7:0>, Octet 2<7:0>, Octet 3<7:0>]	SuggestedRemedy         Change: In SLAVE mode PHY Control transitions to the TRAINING state only after the SLAVE PHY acquires timing, converges its equalizers, acquires its descrambler state and sets loc_SNR_margin = OK.         To: In SLAVE mode, PHY Control transitions to the TRAINING state only after the SLAVE PHY acquires timing, converges its equalizers, acquires its descrambler state, and sets loc_SNR_margin = OK.         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.       Requested changes are accomplished with the proposal in comment 231.
Octet 3<7:0>]         P137         L15         # 176           C/ 149         SC 149.4.2.4.4         P137         L15         # 176           Wienckowski, Natalie         General Motors         General Motors         Here 100,000,000,000,000,000,000,000,000,000	C/         149         SC         149.4.2.5         P141         L36         # 179           Wienckowski, Natalie         General Motors         General Motors         # 179
Comment Type       E       Comment Status       D       Editorial         Not a sentence       SuggestedRemedy       Editorial       Editorial         Change:       Message Field (1 octet).       To: The Message Field is 1 octet.       Editorial         Proposed Response       Response Status       W       PROPOSED ACCEPT IN PRINCIPLE.         Change:       Message Field (1 octet).       To: The Message Field (1 octet).         To:       The Message Field is one octet.	Comment Type       E       Comment Status       D       E         subject/verb agreement       SuggestedRemedy       Change: the Auto-Negotiation function set link_control       To: the Auto-Negotiation function sets link_control         Proposed Response       Response Status       W         PROPOSED ACCEPT.
CI 149       SC 149.4.2.4.5       P138       L17       # 177         Wienckowski, Natalie       General Motors       Comment Type       E       Comment Status       D       EZ         Should be the letter "O", not the number "0".       SuggestedRemedy       Change: [0ct8<7:0>, 0ct9<7:0>, 0ct10<7:0>]       To: [Oct8<7:0>, Oct9<7:0>, Oct10<7:0>]         Proposed Response       Response Status       W         PROPOSED ACCEPT.       V	

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 Z/withdrawn SORT ORDER: Comment ID

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 4th Ta

Comment Type T       Comment Status D       MDI         Comment Type T       Comment Status D       Remove extraneous comma         SuggestedRemedy       Change: To The modulation scheme used over each pair is PAM4.       Remove extraneous comma         Proposed Response       Response Status W       Proposed Response Status W         PROPOSED ACCEPT IN PRINCIPLE.       P146 L 23       Change: Signals received at the MDI can be expressed for each pair as pulse-amplitude modulated       Ci 149 SC 149.5.1.1       P154       L26         To: Signals received at the MDI can be expressed for each pair as pulse-amplitude modulated       Ci 149 SC 149.5.1.1       P154       L26         Change: 1, -ir3, -i13, 11       P146       L27       # 181       To: Signals received at the MDI can be expressed as pulse-amplitude modulated       Comment Type T       Comment Status D         Change: -1, -1/3, -1/3, +1/3, +1/3       P146       L27       # 181       To: Signals received at the MDI can be expressed as pulse-amplitude modulated       SuggestedRemedy         Change: -1, -1/3, -1/3, +1/3, +1/3, +1/3       P146       L27       # 181       To: Signals received at the MDI can be expressed as pulse-amplitude modulated       Ci 149 SC 149.3.2.2.3       P85 L 37         Comment Type E       Comment Status D       EZ       Ci 149 SC 149.3.1, 1       P146       L27       # 181       Proposed Response       Re	# <u>1</u> 83	L <b>36</b>	P <b>152</b> General Motors	SC <b>149.5.1</b> ski, Natalie	C/ <b>149</b> Wienckov	# <u>1</u> 80	L <b>21</b>	P <b>146</b> General Motors	C/ <b>149</b> SC <b>149.4.3.1</b> Wienckowski, Natalie
Change: The modulation scheme used over each pair is PAM4.       Change: . or, To: . or         To: The modulation scheme used is PAM4.       PROPOSED ACCEPT IN PRINCIPLE.         P146 L21 Delete the sentence: The modulation scheme used over each pair as pulse-amplitude modulated       PROPOSED ACCEPT.         To: Signals received at the MDI can be expressed for each pair as pulse-amplitude modulated       Ci 149 SC 149.5.1.1 P154 L26         To: Signals received at the MDI can be expressed for each pair as pulse-amplitude modulated       Ci 149 SC 149.4.3.1 P146 L27 # 1181         To: Signals received at the MDI can be expressed as pulse-amplitude modulated       SuggestedRemedy         Comment Type E Comment Status D       EZ         fix "" and add "+" to be consistent with the rest of the document.       SuggestedRemedy         Change: (-1, -1/3, 1/3, 1/3)       To: (-1, -1/3, 1/3, 1/3, 1/3)         To: (-1, -1/3, -1/3, +1)       P151 L37 # 182         PROPOSED ACCEPT.       Comment Status D         Ci 149 SC 149.5.1       P151 L37 # 182         Proposed Response Response Status W       PROPOSED ACCEPT.         Proposed Response Response Status W       Proposed Response Response Response Status W         Proposed Response Response Status D       EZ         fix " and add "+" to be consistent with the rest of the document.       SuggestedRemedy         Ci 149 SC 149.5.1       P151 L37 # 182	EZ							Comment Status D	
PROPOSED ACCEPT IN PRINCIPLE.         P146 L21 Delete the sentence: The modulation scheme used over each pair is PAM4.         P146 L 33         Change: Signals received at the MDI can be expressed for each pair as pulse-amplitude modulated         To: Signals received at the MDI can be expressed as pulse-amplitude modulated         Cl 149 SC 149.4.3.1       P146 L 27 # 181         Wienckowski, Natalie       General Motors         Comment Type E       Comment Status D         SuggestedRemedy       Change: {-1, -1/3, 1/3, 1/3, 1/3, 1/3, 1/3, 1/3, 1/3,				e:, or, pr	Chan To: ,		is PAM4.		Change: The modulation
P146 L 33 Change: Signals received at the MDI can be expressed for each pair as pulse-amplitude modulated       Wienckowski, Natalie       General Motors         To: Signals received at the MDI can be expressed as pulse-amplitude modulated       Wienckowski, Natalie       General Motors         Cl 149       SC 149.4.3.1       P146       L27       # [181]         Wienckowski, Natalie       General Motors       EZ         Comment Type       E       Comment Status D       EZ         fix "-" and add "+" to be consistent with the rest of the document.       EZ       Vienckowski, Natalie       General Motors         SuggestedRemedy       Change: {-1, -1/3, 1/3, 1}       Tc: {-1, -1/3, 1/3, 1}, 1/3, 1}       Tc: {-1, -1/3, 1/3, 1, 1},			Response Status W					•	
C/ 149       SC 149.4.3.1       P146       L27       # 181         Wienckowski, Natalie       General Motors       Ez         Comment Type       E       Comment Status       D       Ez         fix "." and add "+" to be consistent with the rest of the document.       Ez       C/ 149       SC 149.3.2.2.3       P85       L37         SuggestedRemedy       Change: {-1, -1/3, 1/3, 1}       Cromment Type       E       Comment Status       D       Need to keep this paragraph with the one before it instead of allowing by the Figures or the statement "The subscript in the above labels" is SuggestedRemedy         C/ 149       SC 149.5.1       P151       L37       # 182         Proposed Response       Response Status       Need to keep this paragraph with the one before it instead of allowing by the Figures or the statement "The subscript in the above labels" is SuggestedRemedy         C/ 149       SC 149.5.1       P151       L37       # 182         Wienckowski, Natalie       General Motors       Ez         Add commas for readability.       SuggestedRemedy       Keep paragraphs together through formatting.         Proposed Response       Response Status       W         Romment Type       E       Comment Status       D         Add commas for readability.       SuggestedRemedy       Keep paragraphs together through fo	# <u>184</u> EZ	L26	General Motors	ski, Natalie	Wienckov	·			P146 L 33 Change: Signals receiv
SuggestedRemedy       Change: {-1, -1/3, 1/3, 1}       To: {-1, -1/3, 1/3, 1}       To: {-1, -1/3, 1/3, 1}         Proposed Response       Response Status       W         PROPOSED ACCEPT.       Need to keep this paragraph with the one before it instead of allowing by the Figures or the statement "The subscript in the above labels" is         C/       149       SC 149.5.1       P151       L37       # [182]         Wienckowski, Natalie       General Motors       SuggestedRemedy       Keep paragraphs together through formatting.         Comment Type       E       Comment Status       D       EZ         Add commas for readability.       SuggestedRemedy       EZ       Change: If MDIO is implemented these test modes shall be enabled by setting a control register 1.2313.15:13 as       Figs       SuggestedRemedy		gure title.	0	ve "Link Partner" box Response R	Proposed			P <b>146</b> General Motors	C/ 149 SC 149.4.3.1 Wienckowski, Natalie
Cl 149       SC 149.5.1       P151       L37       # 182         Wienckowski, Natalie       General Motors       Proposed Response       Response Status       W         Comment Type       E       Comment Status       D       EZ       Proposed Response       Response Status       W         Add commas for readability.       SuggestedRemedy       EZ       EZ       Change: If MDIO is implemented these test modes shall be enabled by setting a control register 1.2313.15:13 as       Supposed Response       Response Status       W		ad of allowing t	General Motors <i>Comment Status</i> <b>D</b> aph with the one before it instea	ski, Natalie <i>Type</i> <b>E</b> o keep this paragrap Figures or the stater	Wienckov Comment Need by the		document.	1}	SuggestedRemedy Change: {–1, -1/3, 1/3, To: {–1, –1/3, +1/3, +1} Proposed Response
SuggestedRemedy Change: If MDIO is implemented these test modes shall be enabled by setting a control register 1.2313.15:13 as			• •	Response R	Proposed	# 182	L37	General Motors Comment Status D	Wienckowski, Natalie Comment Type   E
To: If MDIO is implemented, these test modes shall be enabled by setting a control register, 1.2313.15:13, as						, ,		lemented these test modes sha nted, these test modes shall be	SuggestedRemedy Change: If MDIO is imp register 1.2313.15:13 as To: If MDIO is impleme
Proposed Response Response Status W PROPOSED ACCEPT.								Response Status W	

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 Z/withdrawn SORT ORDER: Comment ID

6 P93 General Motors	L <b>36</b>	# <u>1</u> 86	C/ 149 SC 149.3.2. Wienckowski, Natalie	3 P97 General Motors	L <b>51</b>	# <u>1</u> 89
Comment Status D				Comment Status D bility.		EZ
			To: After these frame Proposed Response	s, the link partner Response Status W		
1 P96 General Motors	L <b>27</b>	# 187	Wienckowski. Natalie	3.2 P98 General Motors	L16	# 190
y. signal is transmitted LPI contr I is transmitted, LPI control ch		all be	Comment Type T The equation reference transmit scrambler to scrambler to descram SuggestedRemedy Swap the references t side-stream descramt generator polynomial descrambler generato	descramble and the Slave receively ble. To Equation (149-5) and Equation bling, the MASTER PHY shall em per Equation (149–5) and the SL	rer should us (149-6) in ti ploy the rec AVE PHY si	se the Master transmit he following text: For eiver descrambler
General Motors Comment Status D		Edito	Proposed Response PROPOSED ACCEP	Response Status W		
, gnal quality asserting hi_rfer if juality, asserting hi_rfer if exce <i>Response Status</i> <b>W</b> I PRINCIPLE.	essive	EC frame errors are	Wienckowski, Natalie Comment Type T This is a duplicate of 7 SuggestedRemedy Delete 149.3.4.4. Proposed Response	General Motors Comment Status D 149.3.4.3. Response Status W	L8	# [ <u>191</u> EZ
	General Motors Comment Status D ubscript of p. Response Status W 1 P96 General Motors Comment Status D ty. signal is transmitted LPI control ch Response Status W P97 General Motors Comment Status D ty. gnal quality asserting hi_rfer if quality, asserting hi_rfer if excer Response Status W N PRINCIPLE.	General Motors Comment Status D ubscript of p. Response Status W 1 P96 L27 General Motors Comment Status D ty. signal is transmitted LPI control characters shall be Response Status W P97 L28 General Motors Comment Status D ty. gnal quality asserting hi_rfer if excessive quality, asserting hi_rfer if excessive Response Status W N PRINCIPLE.	General Motors Comment Status D  Ubscript of p. Response Status W  1 P96 L27 # 187 General Motors Comment Status D  Editors Comment Status D  Editors Response Status W  P97 L28 # 188 General Motors Comment Status D  Editors Comment Status D  Editors Comment Status D  Editors Ky.  gnal quality asserting hi_rfer if excessive Response Status W  N PRINCIPLE.	General Motors       Vienckowski, Natalie         Comment Status D       EZ         ubscript of p.       Response Status W         I       P96       L27       # 187         General Motors       Comment Status D       EZ         Comment Status D       EZ       Ci 149       SC 149.3.2.         General Motors       EZ       Vienckowski, Natalie       Comment Type       To: After these frame         Comment Status D       EZ       Ci 149       SC 149.3.2.       Vienckowski, Natalie         Comment Status D       EZ       Vienckowski, Natalie       Comment Type       T         Response Status W       Sc 149.3.2.       Vienckowski, Natalie       Comment Type       T         Response Status W       SuggestedRemedy       Swap the references to side-stream descramt generator polynomial descrambler to descramt generator polynomial descrambler for the excessive PROPOSED ACCEP         Vi.       Ci 149       SC 149.3.4.         Vienckowski, Natalie       Comment Type       T         The equation reference to side-stream descramt generator polynomial descrambler to descramt generator polynomial descramt generator polynomial descramt generator polynomial descramt generator polynomial descramt generator polynomi	General Motors       Wienckowski, Natalie       General Motors         Comment Status D       EZ       Comment Type E       Comment Status D         ubscript of p.       Response Status W       Add comma for readability.         1       P96       L27       # 187         General Motors       Comment Status D       EZ         Comment Status D       EZ       Wienckowski, Natalie       General Motors         Comment Status D       EZ       Ci 149       SC 149.3.2.3.2       P98         Vienckowski, Natalie       General Motors       Comment Type T       Comment Status D         ky.       F       Comment Status D       EZ         Vienckowski, Natalie       General Motors       Comment Type T       Comment Status D         P97       L28       # 188       General Motors       SuggestedRemedy         Vienckowski, Natalie       General Motors       SuggestedRemedy       Swap the references to Equation (149-5) and Equation (149-6) and the Slave receiv scrambler to descramble for the Slave receiv scrambler to descramble and the Slave receiv scrambler to descramble for the Slave receiv scrambler to descramble and the Slave receiv scrambler	General Motors       EZ         Comment Status D       EZ         Ubscript of p.       Comment Status D         Response Status W       Change: After these frames the link partner         1       P96       L27       # 187         General Motors       Comment Status D       CAdd comma for readability.         SuggestedRemedy       Change: After these frames the link partner         To: After these frames, the link partner       To: After these frames, the link partner         To: After these frames, the link partner       To: After these frames the link partner         Comment Status D       EZ         Comment Status D       EZ         ty.       The equation references are swapped. The Master receiver function transmitted LPI control characters shall be         It is transmitted LPI control characters shall be       SuggestedRemedy         Response Status W       SuggestedRemedy         Open L28       # 188         Open L28       # 188         Open L28       # 188         Comment Status D       Editorial         ty.       Comment Status D       Comment Status D         Comment Status D       Editorial         ty.       File       Comment Status D         General Motors       Comment Status D

C/ 149 SC 149.3.5 Wienckowski, Natalie	P <b>100</b> General Motors	L <b>25</b>	# <u>1</u> 92		C/ 149 SC 149.3.5 Wienckowski, Natalie	.1 P101 General Mo	L <b>6</b> otors	# <u>1</u> 95
Comment Type E Add comma for readabi	Comment Status <b>D</b> lity.			EZ	Comment Type E Add commas for read	Comment Status D lability.		EEE
	I mode PHYs use a repeating q le, PHYs use a repeating quiet- Response Status W		2		frames thereafter der To: At the Master, a thereafter, denote the		·	
C/ 149 SC 149.3.5	P100 General Motors	L <b>30</b>	# 193		Proposed Response PROPOSED ACCEF	Response Status W T IN PRINCIPLE.		
Comment Type E Add comma for readabi SuggestedRemedy Change: lpi_qr_time ed	Comment Status <b>D</b> lity. qual to 96 RS-FEC frame period	s.		EZ	(should be "an RS-FI Change: At the Mas frames thereafter der	er RS-FEC frame count of z note the start of the cycle.	ero and all multiple	
To: lpi_qr_time, equal t Proposed Response PROPOSED ACCEPT.	to 96 RS-FEC frame periods. Response Status W				thereafter, denote the	.1 <i>P</i> 101	L13	# [ <u>196</u>
C/ 149 SC 149.3.5 Wienckowski, Natalie Comment Type E	P <b>100</b> General Motors Comment Status <b>D</b>	L <b>29</b>	# 194	EZ	Wienckowski, Natalie Comment Type <b>T</b> The refresh signals a RS-FEC frames.	General Mo <i>Comment Status</i> <b>D</b> re not exactly a half cycle of		EEI 2 and the other is at 96
	s "el" which requires an in front o	of it			SuggestedRemedy Change: the refresh	periods are a half cycle offse ds are about a half cycle offs <i>Response Status</i> <b>W</b>		
Proposed Response PROPOSED ACCEPT.	Response Status W				PROPOSED ACCEF	,	oosed.	

C/ 149 SC 149.3.6.2. Wienckowski. Natalie	4 P105 General Motors	L <b>42</b>	# 197	C/         149         SC         149.3.8.2.4         P115         L44         # 200           Wienckowski, Natalie         General Motors
Comment Type E Hex alphabetic charcter	Comment Status D		EZ	Comment Type E Comment Status D EZ awkward wording
SuggestedRemedy Change: 0x1e To: 0x1E Also on page 105, line 4 Proposed Response PROPOSED ACCEPT.	45 Response Status ₩			SuggestedRemedy         Change: This bit is set by the PHY to for the link partner to echo on Ping RX.         To: This bit is set by the PHY for the link partner to echo on Ping RX.         Proposed Response       Response Status         W         PROPOSED ACCEPT.
Cl 149 SC 149.3.6.2. Wienckowski, Natalie	4 P105 General Motors	L <b>53</b>	# <u>1</u> 98	C/         149         SC         149.3.8.2.12         P 117         L 17         # 201           Wienckowski, Natalie         General Motors
Comment Type E duplicate sentence.	Comment Status D		EZ	Comment Type E Comment Status D EZ
SuggestedRemedy Delete on instance of: / 149–1.	A valid O code is one containing	an O code s	pecified in Table	SuggestedRemedy Add a period at the end of the sentence. Also on page 117, lines 24, 30, 36, 42, and 49. Also on page 118, lines 1 and 6.
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
<i>Cl</i> <b>149</b> SC <b>149.3.6.2</b> .4 Wienckowski, Natalie	4 P105 General Motors	L <b>25</b>	# 199	C/         149         SC         149.3.8.2.13         P 118         L 14         # 202           Wienckowski, Natalie         General Motors         General Motors         # 202
Comment Type E awkward wording	Comment Status D		Editorial	Comment Type E Comment Status D Editorial subject/verb agreement
SuggestedRemedy Change: belonging to th To: belonging to one of Also on page 106, line 1	the eight types			SuggestedRemedy Change: The RS(16, 14) parity symbols is indicated To: The RS(16, 14) parity symbols are indicated
Proposed Response PROPOSED ACCEPT I	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
Change: belonging to the	he eight types			
To: belonging to one or	more of the eight types			
Also on page 106, line 1	11			

C/ 149 SC 149.3.8.2.13 P118 L32	# 203	C/ 149 SC 149.3.817 P120 L16 # 206
Vienckowski, Natalie General Motors		Wienckowski, Natalie General Motors
Comment Type E Comment Status D	EZ	Comment Type T Comment Status D OAN
missing period		It is not required that a user defined OAM message require multiple OAM messages to
SuggestedRemedy		transmit. It is possible that the user defined OAM message fits within the 8 bytes available.
Add a period at the end of the sentence.		SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT.		Change: the OAM message exchange operates on a per OAM message basis that will occur over many OAM frames. To: the OAM message exchange operates on a per OAM message basis that may occur over many OAM frames.
C/         149         SC         149.3.8.2.13         P118         L35           Wienckowski, Natalie         General Motors	# 204	Proposed Response Response Status W PROPOSED ACCEPT.
Comment Type E Comment Status D	EZ	C/ 149 SC 149.3.8.2.17 P120 L22 # 207
missing period		
SuggestedRemedy		
Change: Figure 149–19 Before calculation To: Figure 149–19. Before calculation		Comment Type E Comment Status D E2 missing comma
Proposed Response Response Status W		SuggestedRemedy
PROPOSED ACCEPT.		Change: After the link partner receives the OAM message it transfers it To: After the link partner receives the OAM message, it transfers it
C/ 149 SC 149.3.8.2.14 P118 L41	# 205	Proposed Response Response Status W
Wienckowski, Natalie General Motors		PROPOSED ACCEPT.
Comment Type E Comment Status D	Editorial	C/ 149 SC 149.3.8.2.17 P120 L23 # 208
missing periods		Wienckowski. Natalie General Motors
SuggestedRemedy		
Add periods at the end of the a) and b) statements.		Comment Type E Comment Status D EZ missing comma
Proposed Response Response Status W		
PROPOSED ACCEPT IN PRINCIPLE.		SuggestedRemedy
(change is on page 119, and a) and b) are not sentences.		Change: One OAM message can be loaded into the OAM transmit registers while another OAM message is being transmitted by the PHY to the link partner while yet another OAM message is being read out at the link partner's OAM receive registers.
Change: a) RS(16, 14) uncorrectable error b) Uncorrectable PHY frame on any of the 16 symbols		To: One OAM message can be loaded into the OAM transmit registers while another OAM message is being transmitted by the PHY to the link partner, while yet another OAM message is being read out at the link partner's OAM receive registers.
To: a) RS(16, 14) contains an uncorrectable error, or		Proposed Response Response Status W
b) there is an uncorrectable PHY frame on any of the 16 symbols.		PROPOSED ACCEPT.

C/         149         SC         149.3.8.2.17         P120         L26         # 209           Wienckowski, Natalie         General Motors	C/         149         SC         149.3.8.2.17         P120         L 33         # 212           Wienckowski, Natalie         General Motors         General Motors         # 212
Comment Type E Comment Status D EZ subject/verb agreement	Comment Type E Comment Status D EZ missing comma
SuggestedRemedy         Change: The exchange of OAM messages are occurring concurrently and bi-directionally.         To: The exchange of OAM messages is occurring concurrently and bi-directionally.         Proposed Response       Response Status         W         PROPOSED ACCEPT.	SuggestedRemedy         Change: On the receive side mr_rx_lp_valid indicates that valid OAM message can be read from the OAM receive registers.         To: On the receive side, mr_rx_lp_valid indicates that valid OAM message can be read from the OAM receive registers.         Proposed Response       Response Status       W
C/         149         SC         149.3.8.2.17         P120         L27         #         210           Wienckowski, Natalie         General Motors         General Motors         Environmentation         Environmentation	
Comment Type E Comment Status D EZ	C/         149         SC         149.3.8.2.17         P120         L 35         # 213           Wienckowski, Natalie         General Motors
SuggestedRemedy Change: On the transmit side mr_tx_valid = 0 indicates that the next OAM message can be written into the OAM transmit registers. To: On the transmit side, mr_tx_valid = 0 indicates that the next OAM message can be written into the OAM transmit registers. Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type       E       Comment Status       D       EZ         missing comma       SuggestedRemedy       EZ         Change:       If mr_rx_lp_valid is not cleared then the OAM       To:       If mr_rx_lp_valid is not cleared, then the OAM         Proposed Response       Response Status       W         PROPOSED ACCEPT.       EZ
C/         149         SC         149.3.8.2.17         P120         L30         #         211           Wienckowski, Natalie         General Motors         General Motors         H         100         H	C/         149         SC         149.3.8.4.3         P126         L47         # 214           Wienckowski, Natalie         General Motors         General Motors         # 214
Comment Type E Comment Status D EZ missing comma and subject/verb agreement	Comment Type E Comment Status D Editorial missing periods
SuggestedRemedy	SuggestedRemedy
Change: Once the registers are written the management entity sets mr_tx_valid to 1 to indicate that the OAM transmit registers contains a valid OAM message. To: Once the registers are written, the management entity sets mr_tx_valid to 1 to indicate that the OAM transmit registers contain a valid OAM message.	Add period at the end of the 0 and 1 sentences.  Proposed Response Response Status W  PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response Response Status W PROPOSED ACCEPT.	Change: "0: BASE-T1 OAM message not received and read by the link partner 1: BASE-T1 OAM message received by the link partner" to: "0: BASE-T1 OAM message was not received and read by the link partner. 1: BASE-T1 OAM message was received by the link partner."

Cl         149         SC         149.3.8.4.3         P127           Wienckowski, Natalie         General Motors	L <b>11</b>	# <u>2</u> 15	C/ <b>45</b> SC <b>45.2.3.8</b> Zimmerman, George	0.2 P48 CME:ADI,Aqua	L <b>38</b> antia AP	# <u>2</u> 18
Comment Type E Comment Status D improve wording to match other statements SuggestedRemedy Change: Don't send request to link partner To: Don't request link partner Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.		Editorial	detecting a BER of > MultiGBASE-T1 PCS hi_rfer doesn't really o	Comment Status <b>D</b> bit 3.2324.9 indicates that the $4 \times 10-4$ . When read as a zero is not detecting a BER of > 4 × correspond well to a BER and the ds to will depend on the interlet	MultiGBASE-T , bit 3.2324.9 ir 10–4." nis isn't the plac	idicates that the e to specify it. What
Change: false: Don't send request to link partner to cl To: false: Don't request link partner to clear its REC c			Change "is detecting errored blocks in 312		terval)"	
CI     149     SC     149.3.8.4.3     P127       Wienckowski, Natalie     General Motors       Comment Type     E     Comment Status     D	L <b>12</b>	# 216 Editorial	Proposed Response PROPOSED ACCEP	Response Status W T.		
improve wording to match other statements SuggestedRemedy Change: Send request to link partner…			Either accept this pro	2.3 P104 CME:ADI,Aqua	L <b>35</b>	# 219
To: Request link partner Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.			Comment Type <b>T</b> Need to accept rfer_ti EEE variable. The va	Comment Status <b>D</b> mer so that hi_rfer function (alm lue scales with the bit rate, but monitoring, the variation with in	eady accepted) not with interle	aving, and relates to
Change: true: Send request to link partner to clear the To: true: Request link partner to clear its REC counter		er.	SuggestedRemedy	at lines 35 through 39 for rfer_ti		·
C/149SC149.3.8.4.3P127Vienckowski, NatalieGeneral Motors	L17	# 217	Proposed Response PROPOSED ACCEP	Response Status W		
Comment Type E Comment Status D missing periods SuggestedRemedy Add periods at the end of all 4 "Values" sentences.		EZ				
Proposed Response Response Status W PROPOSED ACCEPT.						

C/ 149 SC 149.3.6.2.5		L1	# 220	C/ 149 SC	149.3.7.2		P108	L <b>24</b>	# 223
Zimmerman, George	CME:ADI,Aqua	antia,AP		Zimmerman, Geo	rge		CME:ADI,Aq	uantia,AP	
Comment Type T	Comment Status D		EZ	Comment Type	т	Comment	t Status D		State diagran
Accept rfer counter logic be controversial.	for rfer monitor state machi	ne. These are i	needed, and should not						clause 45., and the nother comment.
SuggestedRemedy				SuggestedRemed	ly				
Accept text in yellow at li through 51 on page 106.	nes 1 through 6 on page 10	7, delete editor	s note on lines 47	Change x-bit cross referen			ate diagram if a	idded by the othe	er comment.
Proposed Response	Response Status W			Proposed Respor	nse	Response	Status W		
PROPOSED ACCEPT.				PROPOSED	ACCEPT II	N PRINCIPL	LE.		
C/ 149 SC 149.3.6.3	P <b>107</b>	L17	# <u>2</u> 21	Change: X-b	it counter				
Zimmerman, George	CME:ADI,Aqua	antia,AP		To: 6-bit cou	nter				
Comment Type T	Comment Status D		State diagrams		nse to add	reference to	- finuma adalad I		1 & 221
Need RFER monitor stat	e diagram			Editorial lices			o ligure added i	by comments 10	
	e diagram				149.3.7.3		P <b>112</b>	L 50	
SuggestedRemedy	C C	aure 97-13 into t	the draft as the	C/ 149 SC	149.3.7.3		P112	L <b>50</b>	# 224
SuggestedRemedy Accept text in yellow on	e diagram P 107 lines 17 & 18. Add fi <u>c</u> 'BD" in line 17. Editorial lice			<i>Cl</i> <b>149</b> <i>SC</i> Zimmerman, Geo	<b>149.3.7.3</b> rge		P <b>112</b> CME:ADI,Aq	L <b>50</b>	# 224
SuggestedRemedy Accept text in yellow on referenced "Figure 149- variables, counters, func	P 107 lines 17 & 18. Add fig BD" in line 17. Editorial lice tions or constants for Figure	ense to accept a 97-13 from cla	and add any necessary use 97 into 149.3.6.2,	C/ <b>149</b> SC Zimmerman, Geo Comment Type	<b>149.3.7.3</b> rge <b>E</b>	Comment	P <b>112</b> CME:ADI,Aq t Status <b>D</b>	L <b>50</b> uantia,AP	# 224 Editor
SuggestedRemedy Accept text in yellow on referenced "Figure 149- variables, counters, func or accept them if missed	P 107 lines 17 & 18. Add fig BD" in line 17. Editorial lice	ense to accept a 97-13 from cla	and add any necessary use 97 into 149.3.6.2,	C/ <b>149</b> SC Zimmerman, Geo Comment Type	<b>149.3.7.3</b> rge <b>E</b>	Comment	P <b>112</b> CME:ADI,Aq t Status <b>D</b>	L <b>50</b> uantia,AP	
SuggestedRemedy Accept text in yellow on referenced "Figure 149-" variables, counters, func or accept them if missed comments)	P 107 lines 17 & 18. Add fig BD" in line 17. Editorial lice tions or constants for Figure by other comments (they sl	ense to accept a 97-13 from cla	and add any necessary use 97 into 149.3.6.2,	C/ <b>149</b> SC Zimmerman, Geo Comment Type	<b>149.3.7.3</b> rge <b>E</b> s stream of	Comment	P <b>112</b> CME:ADI,Aq t Status <b>D</b>	L <b>50</b> uantia,AP	# 224 Editor
SuggestedRemedy Accept text in yellow on referenced "Figure 149- variables, counters, func or accept them if missed comments) Proposed Response	P 107 lines 17 & 18. Add fig BD" in line 17. Editorial lice tions or constants for Figure by other comments (they sl Response Status W	ense to accept a 97-13 from cla	and add any necessary use 97 into 149.3.6.2,	Cl <b>149</b> SC Zimmerman, Geo Comment Type "a continuous	<b>149.3.7.3</b> irge <b>E</b> stream of <i>dy</i>	<i>Comment</i> TBD encode	P <b>112</b> CME:ADI,Aq t Status <b>D</b>	L <b>50</b> uantia,AP	# 224 Editor
SuggestedRemedy Accept text in yellow on referenced "Figure 149-" variables, counters, func or accept them if missed comments)	P 107 lines 17 & 18. Add fig BD" in line 17. Editorial lice tions or constants for Figure by other comments (they sl Response Status W	ense to accept a 97-13 from cla	and add any necessary use 97 into 149.3.6.2,	C/ <b>149</b> SC Zimmerman, Geo Comment Type "a continuous SuggestedRemed	<b>149.3.7.3</b> rge <b>E</b> stream of <i>dy</i> D" with "RS	Comment TBD encode -FEC"	P <b>112</b> CME:ADI,Aq t Status <b>D</b>	L <b>50</b> uantia,AP	# 224 Editor
SuggestedRemedy Accept text in yellow on referenced "Figure 149-7 variables, counters, func or accept them if missed comments) Proposed Response PROPOSED ACCEPT II	P 107 lines 17 & 18. Add fig BD" in line 17. Editorial lice tions or constants for Figure by other comments (they sl Response Status W	ense to accept a 97-13 from cla hould all be the	and add any necessary use 97 into 149.3.6.2,	Cl <b>149</b> SC Zimmerman, Geo Comment Type "a continuous SuggestedRemed Replace "TBL	149.3.7.3 rge E s stream of dy D" with "RS ase	Comment TBD encode -FEC" Response	P112 CME:ADI,Aq t Status D ed PAM 4 syml	L <b>50</b> uantia,AP	# 224 Editor
SuggestedRemedy Accept text in yellow on referenced "Figure 149-7 variables, counters, func or accept them if missed comments) Proposed Response PROPOSED ACCEPT II	P 107 lines 17 & 18. Add fig BD" in line 17. Editorial lice tions or constants for Figure by other comments (they sl <i>Response Status</i> <b>W</b> N PRINCIPLE.	ense to accept a 97-13 from cla hould all be then d 78. <i>L</i> <b>19</b>	and add any necessary use 97 into 149.3.6.2,	Cl <b>149</b> SC Zimmerman, Geo Comment Type "a continuous SuggestedRemed Replace "TBL Proposed Respor	149.3.7.3 rge E stream of dy D" with "RS nse ACCEPT II	Comment TBD encode -FEC" Response N PRINCIPL	P112 CME:ADI,Aq t Status D ed PAM 4 syml	L <b>50</b> uantia,AP	# 224 Editor
SuggestedRemedy Accept text in yellow on referenced "Figure 149-7 variables, counters, func or accept them if missed comments) Proposed Response PROPOSED ACCEPT II Need to reconcile comm Cl 149 SC 149.3.6.3	P 107 lines 17 & 18. Add fig "BD" in line 17. Editorial lice tions or constants for Figure by other comments (they sl <i>Response Status</i> <b>W</b> N PRINCIPLE. ents 101, 221, 222, 103, and <i>P</i> 107 CME:ADI,Aqua <i>Comment Status</i> <b>D</b>	ense to accept a 97-13 from cla hould all be then d 78. <i>L</i> <b>19</b>	and add any necessary use 97 into 149.3.6.2, re in yellow and in other	Cl 149 SC Zimmerman, Geo Comment Type "a continuous SuggestedRemed Replace "TBE Proposed Respor PROPOSED	149.3.7.3 rge E stream of dy D" with "RS nse ACCEPT II	Comment TBD encode -FEC" Response N PRINCIPL	P112 CME:ADI,Aq t Status D ed PAM 4 syml	L <b>50</b> uantia,AP	# 224 Editor
SuggestedRemedy Accept text in yellow on referenced "Figure 149-7 variables, counters, func or accept them if missed comments) Proposed Response PROPOSED ACCEPT II Need to reconcile comm C/ 149 SC 149.3.6.3 Zimmerman, George Comment Type E Accept description of sta SuggestedRemedy	P 107 lines 17 & 18. Add fig "BD" in line 17. Editorial lice tions or constants for Figure by other comments (they sl <i>Response Status</i> <b>W</b> N PRINCIPLE. ents 101, 221, 222, 103, and <i>P</i> 107 CME:ADI,Aqua <i>Comment Status</i> <b>D</b>	ense to accept a 97-13 from cla hould all be the d 78. <i>L</i> <b>19</b> antia,AP	and add any necessary use 97 into 149.3.6.2, re in yellow and in other # 222 State diagrams	Cl 149 SC Zimmerman, Geo Comment Type "a continuous SuggestedRemed Replace "TBE Proposed Respor PROPOSED	149.3.7.3 rge E stream of dy D" with "RS nse ACCEPT II	Comment TBD encode -FEC" Response N PRINCIPL	P112 CME:ADI,Aq t Status D ed PAM 4 syml	L <b>50</b> uantia,AP	# 224 Editor

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 4th T

C/ 149 SC 149.4.2.3	P135	L <b>34</b>	# 225	C/ 149 SC 1	149.5.3.2	P157	L7	# <u>2</u> 28
Zimmerman, George	CME:ADI,Aqua	antia,AP		Zimmerman, Geor	ge	CME:ADI,Aqu	iantia,AP	
Comment Type T	Comment Status D		EZ	Comment Type	т	Comment Status D		PM
than TBD after RS-FE	cification "The quality of these C decoding" 10^-12 BER wi errored frame replaced by err	ith an RS-FEC f	rame of 3260	or later. Also b be determined	oandwidth I when we	so the equivalent noise is ac is the bandwidth of the PHY get a cabling specification.		
SuggestedRemedy				SuggestedRemedy	,			
	0^-12" (where ^ indicates supe	erscript)		Change "-100 noise is added		to "TBD dBm/Hz is present a DLof the DLIT "	at the MDI of th	ne DUT." Delete "The
Proposed Response		loonpt)		Add "Editor's N	Note - (to l	pe removed prior to Working		
PROPOSED REJECT.	Response Status Z			to be determin segment."	ed jointly	with adding an alien crossta	lk coupling spe	ecification to the link
This comment was WI	THDRAWN by the commenter	r.		Proposed Responsed Responsed Responsed A		Response Status W		
C/ 149 SC 149.5.2.4		L19	# 226		149.7.2	P162	L <b>34</b>	# 000
Zimmerman, George	CME:ADI,Aqua	antia,AP		C/ <b>149</b> SC 1 Zimmerman, Geor		P162 CME:ADI,Aqu	-••	# 229
· · · ·				Zimmerman. Geor	ye	CIVIE.ADI,AQU	ianua,AF	
Comment Type T	Comment Status D		Test Modes	,				
Transmit power needs acceptable for similar I	to be constrained, not just les PHYs. For this speed of signa	ll, measuring wit	A 2 dB range has been	Comment Type	<b>T</b> 9.7.2) the	Comment Status <b>D</b> draft needs alien crosstalk o	coupling specs	0
Transmit power needs acceptable for similar f more appropriate. The	to be constrained, not just les	ll, measuring wit	A 2 dB range has been	Comment Type	9.7.2) the		coupling specs	0
Transmit power needs acceptable for similar f more appropriate. The SuggestedRemedy	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran	l, measuring wit smit level.	A 2 dB range has been	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2	9.7.2) the V 2 Coupling	draft needs alien crosstalk o	egments." with	2 subclauses - 149.7.2.1
Transmit power needs acceptable for similar f more appropriate. The SuggestedRemedy Change "less than 3 df	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm	l, measuring wit smit level.	A 2 dB range has been	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali	9.7.2) the y 2 Coupling en near-e	draft needs alien crosstalk o parameters between link se nd crosstalk (PSANEXT), an	egments." with nd 149.7.2.2 Pc	2 subclauses - 149.7.2.1 pwer sum alien
Transmit power needs acceptable for similar f more appropriate. The SuggestedRemedy Change "less than 3 df Proposed Response	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> <b>W</b>	l, measuring wit smit level.	A 2 dB range has been	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to	9.7.2) the Coupling en near-e crosstalk	draft needs alien crosstalk of parameters between link se nd crosstalk (PSANEXT), an ratio far-end (PSAACR-F).	egments." with nd 149.7.2.2 Pc	2 subclauses - 149.7.2.1 pwer sum alien
Transmit power needs acceptable for similar f more appropriate. The SuggestedRemedy Change "less than 3 df	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> <b>W</b>	l, measuring wit smit level.	A 2 dB range has been	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to Proposed Respons	9.7.2) the 2 Coupling en near-e crosstalk se	draft needs alien crosstalk o parameters between link se nd crosstalk (PSANEXT), an	egments." with nd 149.7.2.2 Pc	2 subclauses - 149.7.2.1 pwer sum alien
Transmit power needs acceptable for similar f more appropriate. The SuggestedRemedy Change "less than 3 dl Proposed Response PROPOSED ACCEPT	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> <b>W</b>	l, measuring wit smit level.	A 2 dB range has been h a power meter is	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to	9.7.2) the 2 Coupling en near-e crosstalk se	draft needs alien crosstalk of parameters between link se nd crosstalk (PSANEXT), an ratio far-end (PSAACR-F).	egments." with nd 149.7.2.2 Pc	2 subclauses - 149.7.2.1 pwer sum alien
Transmit power needs acceptable for similar I more appropriate. The SuggestedRemedy Change "less than 3 dl Proposed Response PROPOSED ACCEPT Cl 149 SC 149.5.2.5	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> <b>W</b>	I, measuring wit smit level. to 3 dBm". <i>L</i> 33	A 2 dB range has been	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to Proposed Response PROPOSED A	9.7.2) the 2 Coupling en near-e crosstalk se	draft needs alien crosstalk of parameters between link se nd crosstalk (PSANEXT), an ratio far-end (PSAACR-F).	egments." with nd 149.7.2.2 Pc	2 subclauses - 149.7.2.1 ower sum alien
Transmit power needs acceptable for similar f more appropriate. The SuggestedRemedy Change "less than 3 df Proposed Response PROPOSED ACCEPT C/ 149 SC 149.5.2.5 Zimmerman, George	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> <b>W</b> P <b>156</b> CME:ADI,Aqua	I, measuring wit smit level. to 3 dBm". <i>L</i> 33	A 2 dB range has been h a power meter is # 227	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to Proposed Response PROPOSED A	9.7.2) the 2 Coupling en near-e crosstalk se ACCEPT.	draft needs alien crosstalk of parameters between link send crosstalk (PSANEXT), an ratio far-end (PSAACR-F).	egments." with nd 149.7.2.2 Pc Contents of all	2 subclauses - 149.7.2.1 ower sum alien 3 should be "TBD".
Transmit power needs acceptable for similar f more appropriate. The SuggestedRemedy Change "less than 3 df Proposed Response PROPOSED ACCEPT Cl 149 SC 149.5.2.5 Zimmerman, George Comment Type T	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> W P156 CME:ADI,Aqua <i>Comment Status</i> D	I, measuring wit smit level. to 3 dBm". <i>L</i> 33 antia,AP	A 2 dB range has been h a power meter is # 227 PMA	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to Proposed Respons PROPOSED A CI 149 SC 1	49.7.2) the 2 Coupling en near-e crosstalk se ACCEPT. 149.6.1 ge	draft needs alien crosstalk of parameters between link se nd crosstalk (PSANEXT), an ratio far-end (PSAACR-F). ( <i>Response Status</i> <b>W</b> <i>P</i> <b>157</b>	egments." with nd 149.7.2.2 Pc Contents of all	2 subclauses - 149.7.2.1 ower sum alien 3 should be "TBD". # 2 <u>30</u>
Transmit power needs acceptable for similar f more appropriate. The SuggestedRemedy Change "less than 3 df Proposed Response PROPOSED ACCEPT Cl 149 SC 149.5.2.5 Zimmerman, George Comment Type T	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> <b>W</b> P <b>156</b> CME:ADI,Aqua	I, measuring wit smit level. to 3 dBm". <i>L</i> 33 antia,AP	A 2 dB range has been h a power meter is # 227 PMA	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to Proposed Respons PROPOSED A CI 149 SC 1 Zimmerman, Geor Comment Type	2 Coupling en near-e crosstalk se ACCEPT. 149.6.1 ge T	draft needs alien crosstalk of parameters between link se nd crosstalk (PSANEXT), an ratio far-end (PSAACR-F). ( <i>Response Status</i> <b>W</b> <i>P</i> <b>157</b> CME:ADI,Aqu	egments." with nd 149.7.2.2 Pc Contents of all <i>L</i> 38 nantia,AP	2 subclauses - 149.7.2.1 ower sum alien 3 should be "TBD". # 2 <u>30</u> E2
Transmit power needs acceptable for similar I more appropriate. The SuggestedRemedy Change "less than 3 dl Proposed Response PROPOSED ACCEPT Cl 149 SC 149.5.2.5 Zimmerman, George Comment Type T Constraining the transr output is unneeded.	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> W P156 CME:ADI,Aqua <i>Comment Status</i> D	I, measuring wit smit level. to 3 dBm". <i>L</i> 33 antia,AP	A 2 dB range has been h a power meter is # 227 PMA	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to Proposed Respons PROPOSED A Cl 149 SC 1 Zimmerman, Geor Comment Type Remaining par	9.7.2) the 2 Coupling en near-e crosstalk se ACCEPT. 149.6.1 ge T rameters v	draft needs alien crosstalk of parameters between link se nd crosstalk (PSANEXT), an ratio far-end (PSAACR-F). ( <i>Response Status</i> <b>W</b> <i>P</i> <b>157</b> CME:ADI,Aqu <i>Comment Status</i> <b>D</b>	egments." with nd 149.7.2.2 Pc Contents of all <i>L</i> 38 nantia,AP	2 subclauses - 149.7.2.1 ower sum alien 3 should be "TBD". # 2 <u>30</u> E2
Transmit power needs acceptable for similar I more appropriate. The SuggestedRemedy Change "less than 3 dl Proposed Response PROPOSED ACCEPT C/ 149 SC 149.5.2.5 Zimmerman, George Comment Type T Constraining the transr output is unneeded.	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> <b>W</b> P <b>156</b> CME:ADI,Aqua <i>Comment Status</i> <b>D</b> nit power, the distortion and th	I, measuring wit smit level. to 3 dBm". <i>L</i> 33 antia,AP	A 2 dB range has been h a power meter is # 227 PMA	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to Proposed Respons PROPOSED A CI 149 SC 1 Zimmerman, Geor Comment Type	9.7.2) the 2 Coupling en near-e crosstalk se ACCEPT. 149.6.1 ge T rameters v	draft needs alien crosstalk of parameters between link se nd crosstalk (PSANEXT), an ratio far-end (PSAACR-F). ( <i>Response Status</i> <b>W</b> <i>P</i> <b>157</b> CME:ADI,Aqu <i>Comment Status</i> <b>D</b> will be communicated via info	egments." with nd 149.7.2.2 Pc Contents of all <i>L</i> 38 nantia,AP	2 subclauses - 149.7.2.1 ower sum alien 3 should be "TBD". # 2 <u>30</u>
Transmit power needs acceptable for similar I more appropriate. The SuggestedRemedy Change "less than 3 dl Proposed Response PROPOSED ACCEPT Cl 149 SC 149.5.2.5 Zimmerman, George Comment Type T Constraining the transmoutput is unneeded. SuggestedRemedy Delete 149.5.2.5 and c	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> <b>W</b> P <b>156</b> CME:ADI,Aqua <i>Comment Status</i> <b>D</b> nit power, the distortion and th	I, measuring wit smit level. to 3 dBm". <i>L</i> 33 antia,AP	A 2 dB range has been h a power meter is # 227 PMA	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to Proposed Respons PROPOSED A CI 149 SC 1 Zimmerman, Geor Comment Type Remaining par SuggestedRemedy Delete editor's	2 Coupling en near-e crosstalk se ACCEPT. 149.6.1 ge T rameters v	draft needs alien crosstalk of parameters between link se nd crosstalk (PSANEXT), an ratio far-end (PSAACR-F). ( <i>Response Status</i> <b>W</b> <i>P</i> <b>157</b> <i>CME:ADI,Aqu</i> <i>Comment Status</i> <b>D</b> will be communicated via info 57 line 38	egments." with nd 149.7.2.2 Pc Contents of all <i>L</i> 38 nantia,AP	2 subclauses - 149.7.2.1 ower sum alien 3 should be "TBD". # 2 <u>30</u> E2
Transmit power needs acceptable for similar I more appropriate. The SuggestedRemedy Change "less than 3 dl Proposed Response PROPOSED ACCEPT Cl 149 SC 149.5.2.5 Zimmerman, George Comment Type T Constraining the transmoutput is unneeded. SuggestedRemedy	to be constrained, not just les PHYs. For this speed of signa n we can delete the peak tran Bm" to "in the range of 1 dBm <i>Response Status</i> W P156 CME:ADI,Aqua <i>Comment Status</i> D nit power, the distortion and the ontent (lines 32 to 37) <i>Response Status</i> W	I, measuring wit smit level. to 3 dBm". <i>L</i> 33 antia,AP	A 2 dB range has been h a power meter is # 227 PMA	Comment Type (there is no 14 SuggestedRemedy Insert "149.7.2 Power sum ali attenuation to Proposed Respons PROPOSED A Cl 149 SC 1 Zimmerman, Geor Comment Type Remaining par SuggestedRemedy	9.7.2) the 2 Coupling en near-e crosstalk se ACCEPT. 149.6.1 ge T rameters v y a note at 1 se	draft needs alien crosstalk of parameters between link se nd crosstalk (PSANEXT), an ratio far-end (PSAACR-F). ( <i>Response Status</i> <b>W</b> <i>P</i> <b>157</b> CME:ADI,Aqu <i>Comment Status</i> <b>D</b> will be communicated via info	egments." with nd 149.7.2.2 Pc Contents of all <i>L</i> 38 nantia,AP	2 subclauses - 149.7.2.1 ower sum alien 3 should be "TBD". # 2 <u>30</u> E2

Comment ID 230

C/ 149 SC 149.4.2.4. Zimmerman, George	I <b>0</b> <i>P</i> <b>140</b> CME:ADI,Aqua	L <b>1</b> ntia,AP	# 231	C/         149         SC         149.3.3         P98         L43         # 234           Zimmerman, George         CME:ADI,Aquantia,AP         CME:ADI,AquantiAP         CME:ADI,AquantiAP         CME:ADI,A
	Comment Status <b>D</b> requirements in what should	be descriptive	Startup text.	Comment Type <b>E</b> Comment Status <b>D</b> E. "however there is the possibility that the RS-FEC decoder may have corrected some errors." "may" is a special word for "is permitted to" in this case a fact is being described.
SuggestedRemedy Accept zimmerman_3cg Proposed Response PROPOSED ACCEPT I Grant editorial license to	Response Status W			SuggestedRemedy         Change "however there is         the possibility that the RS-FEC decoder may have corrected some errors." to         "however there is         the possibility that the RS-FEC decoder corrected some errors."         Proposed Response         Response Status
Cl 149 SC 149.3.2.2 Zimmerman, George	P <b>83</b> CME:ADI,Aqua	L <b>37</b> ntia,AP	# 232	PROPOSED ACCEPT. C/ 149 SC 149.3.8.2.1 P114 L41 # 235
Comment Type <b>T</b> aggregation into a super	Comment Status <b>D</b> frame is not an option - it is w	ritten as if it w	<i>Editorial</i> ere.	Zimmerman, George CME:ADI,Aquantia,AP
input frames into an inte to	rove error correction capabilit rleaved RS-FEC input superfi RS-FEC input frames into an	ame."		Comment Type       E       Comment Status       D       Editoria         "it may be possible".       "may" means "it is permitted to" - "it is permitted to be possible"       doesn't really make sense.       If it is, indeed possible, "it is possible", if we are unsure, let's figure it out! (in 2 places, also on line 44)         SuggestedRemedy       Change "it may be possible" to "it is possible" on lines 41 and 44
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
C/ 149 SC 149.3.2.2.4 Zimmerman, George	I5 P91 CME:ADI,Aqua	L <b>15</b> ntia,AP	# 233	C/         149         SC         149.3.8.2.15         P119         L48         # 236           Zimmerman, George         CME:ADI,Aquantia,AP         CME:ADI,Aquantia,AP         CME:ADI,Aquantia,AP         CME:ADI,Aquantia,AP
Comment Type <b>E</b> "This may be computed" describing an implemen	<i>Comment Status</i> <b>D</b> . "may" is a special word for tation.	"is permitted to	<i>Editorial</i> o". In this case, it is	Comment TypeEComment StatusDEditoria"that may cause the PHY" - it appears "can cause the PHY" would be more appropriate. This is neither permission nor option. Occurs 2 times, also on line 51.E
SuggestedRemedy Change "may" to "can"				SuggestedRemedy Change "may" to "can" on lines 48 & 51
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.

C/ 149 SC 149.3.4	P98	L47	# <u>2</u> 37	C/ 149 SC 149.4.2		L <b>41</b>	# 239
Zimmerman, George	CME:ADI,Aqu	antia,AP		Zimmerman, George	CME:ADI,A	quantia,AP	
Comment Type T	Comment Status D		Editorial	Comment Type T	Comment Status D		Capability
"PMA training side-stre They're not just for bre	am scrambler polynomials" - akfast anymore.	these are also u	ised in data mode.		<sup>-</sup> EEEen and OAM should go n yellow in the PHY control do		ption of the fields.
SuggestedRemedy				SuggestedRemedy			
Delete "PMA Training" polynomials"	so that the header for 149.3.4	1 reads "Side-str	eam scrambler	optional EEE capabi	tences of paragraph beginnin ity shall be enabled only if bo	th PHYs set the c	apability bit EEEen = 1.
Proposed Response PROPOSED ACCEPT	Response Status W			The optional BASE-T bit OAMen = 1."	1 OAM capability shall be en	abled only if both	PHYs set the capability
FROFUSED ACCEPT	•			Proposed Response	Response Status W		
C/ 149 SC 149.4.2.4	.5 <i>P</i> 138	L <b>42</b>	# <u>2</u> 38	PROPOSED ACCEP	PT IN PRINCIPLE.		
Zimmerman, George	CME:ADI,Aqu	antia,AP		Change: Interleaver	Depth indicates the requested	l data mode interl	eaving depth and
		<i>Editorial</i> data mode.	PrecodeSel indicates requested data mode	s the		carring appartanta	
SuggestedRemedy Change "data mode pi	ecoder" to "requested precod	er"		EEEen = 1. The opti	E capability shall be enabled onal BASE-T1 OAM capability Men = 1. InterleaverDepth ind	y shall be enabled	I only if both PHYs set
Proposed Response PROPOSED ACCEPT	Response Status W				recodeSel indicates the	icales life reques	
				C/ 149 SC 149.4.5	<i>P</i> 150	L <b>37</b>	# 240
				Zimmerman, George	CME:ADI,A	quantia,AP	
				Comment Type T	Comment Status D		State diagrams
					started again in TX_SWITCH is started again in both possil		
				SuggestedRemedy delete "start minwait	_timer" in TX_SWITCH state		
				Proposed Response	Response Status W		

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C/ 149 SC 149.4.4.1 P147	L <b>3</b>	# <u>2</u> 41	C/ 149 SC 149.5.3.2	2 P <b>15</b> 7	L12	# 244
Zimmerman, George CME:ADI,Aqua	intia,AP		Zimmerman, George	CME:ADI,Aqu	uantia,AP	
Comment Type T Comment Status D		EZ	Comment Type T	Comment Status D		PMA
Accept variables for en_slave_tx, infofield_complete, PMA_state, rem_countdown_done, rem_phy_ready, a Do not accept PMA_watchdog_status, as this is not u	and sync_link_c	loc_countdown_done, control.	1000BASE-T1 since the	s than TBD for TBD-octet pac ne RS-FEC frame lengths are 10^-12 is for multigig, two ore	comparable. Sir	nce 10^-10 is the BER
SuggestedRemedy			SuggestedRemedy			
Remove highlighting from en_slave_tx, infofield_com			Change "TBD for TBD	-octet" to "10^-9 for 125-octet	."	
loc_countdown_done, PMA_state, rem_countdown_d sync_link_control.	lone, rem_phy_	ready, and	Proposed Response PROPOSED ACCEP1	Response Status W		
Delete PMA_watchdog_status at P147 L51- P148 L9						
Proposed Response Response Status Z PROPOSED REJECT.			C/ <b>149</b> SC <b>149.7.1.</b> 4 ITO, HIROAKI	4 P161 Yazaki Corpo	L <b>42</b> pration	# <u>2</u> 45
This comment was WITHDRAWN by the commenter			Comment Type <b>TR</b> The frequency rage fo	Comment Status <b>D</b> r coupling attenuation is rema	ined up to 5500	<i>Link Segment</i> MHz.
	/ 50	# 040	SuggestedRemedy			
CI <b>149</b> SC <b>149.4.4.2</b> P148           Zimmerman, George         CME:ADI,Aqua	L <b>50</b> Intia,AP	# 242	The frequency range f other parameters like	or coupling noise should be c IL, RL.	hanged to up to	4000MHz as well as
Comment Type <b>T</b> Comment Status <b>D</b> States where minwait timer is used need to be entered	ed and aligned v	State diagrams	Proposed Response PROPOSED ACCEPT	Response Status W		
Delete highlighted "PMA_Training_Init_S," state (this	does not exist,	and accept				
"PCS_TEST, and PCS_DATA" currently in yellow, co	rrecting the cap	oitalization	Change: 5500			
SuggestedRemedy	dooo not ovict	and account	To: 4000 * S			
Delete highlighted "PMA_Training_Init_S," state (this "PCS TEST, and PCS DATA" currently in yellow, co		•	C/ 149 SC 149.5.2.4	4 P155	L38	# 246
Proposed Response Response Status W	0 1		Wei, Dong	Futurewei Te		# 240
PROPOSED ACCEPT IN PRINCIPLE.			Comment Type ER	Comment Status D	0	Format
This change is included in comment #55.			Туро			, ciniat
C/ 149 SC 149.5.1 P152	L <b>7</b>	# 243	SuggestedRemedy Change "f is the"	to "f is the"		
Zimmerman, George CME:ADI,Aqua	intia,AP		Proposed Response	Response Status W		
Comment Type E Comment Status D Table 149-12 - the highlighted text is correct,		Editorial	PROPOSED REJECT	,		
SuggestedRemedy			This matches the form	atting of existing 802.3 clause	es.	
Remove highlighting on Test mode descriptions for m	nodes 1, 5 and 7	7 in Table 149-12				
Proposed Response Response Status W						
PROPOSED ACCEPT.						
TYPE: TR/technical required ER/editorial required GR/g				Comm	ent ID 246	Page 48 of 61

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 Z/withdrawn SORT ORDER: Comment ID

C/ 149 SC 149.5.2.4	P155	L <b>4</b> 1	# 047	C/ 149 SC 149.7.1.3	P159 L44	# 050
Wei, Dong	Futurewei Tech		# <u>2</u> 47	Wei, Dong	Futurewei Technologie	# <u>2</u> 50
Comment Type <b>TR</b> There is no definition of	Comment Status <b>D</b> variable S in equation (149-1	6).	Format	Comment Type ER Typo	Comment Status D	Format
SuggestedRemedy Need to define or make	a statement about the meani	ng of variable \$	S meaning	SuggestedRemedy Change "f is the" to	o "f is the"	
Proposed Response PROPOSED REJECT.	Response Status W			Proposed Response PROPOSED REJECT.	Response Status W	
S is defined in 149.1.1.				This matches the forma	tting of existing 802.3 clauses.	
C/ 149 SC 149.7.1.1 Wei, Dong	P <b>158</b> Futurewei Tech	L <b>24</b> nologie	# 248	C/ 149 SC 149.7.1.3 Wei, Dong	P <b>160</b> L10 Futurewei Technologie	
Comment Type ER Typo	Comment Status D		Format	Comment Type ER Typo	Comment Status D	Forma
SuggestedRemedy Change "f is the" t	o "f is the"			<i>SuggestedRemedy</i> Change "f is the" to	o "f is the"	
Proposed Response PROPOSED REJECT.	Response Status W			Proposed Response PROPOSED REJECT.	Response Status W	
This matches the forma	tting of existing 802.3 clauses			This matches the forma	tting of existing 802.3 clauses.	
C/ 149 SC 149.7.1.1 Wei, Dong	P <b>158</b> Futurewei Tech	L <b>27</b> nologie	# 249	Cl 149 SC 149.7.1.3 Wei, Dong	P <b>160</b> L13 Futurewei Technologie	# 252
Comment Type ER Typo	Comment Status D		Editorial	Comment Type ER typo	Comment Status D	EZ
SuggestedRemedy Delete the unit of "MHz	', Fmax is just the number.			SuggestedRemedy Change "N" to "N = " in	the equation (149-21)	
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W	

C/ 149 SC 149.7.1.3	P160 L30	# 253	C/ 149 SC 149.7.1.4 P161 L42 # 256
Wei, Dong	Futurewei Technologie		Wei, Dong Futurewei Technologie
Comment Type ER Typo	Comment Status D	Format	Comment Type ER Comment Status D Forma Typo
SuggestedRemedy Change "f is the" to	"f is the"		SuggestedRemedy Change "f is the" to "f is the"
Proposed Response PROPOSED REJECT.	Response Status W		Proposed Response Response Status W PROPOSED REJECT.
This matches the formatt	ing of existing 802.3 clauses.		This matches the formatting of existing 802.3 clauses.
C/ 149 SC 149.7.1.3 Wei, Dong	P <b>160</b> L <b>33</b> Futurewei Technologie	# 254	Cl         149         SC         149.8.2.1         P163         L12         # 257           Wei, Dong         Futurewei Technologie         Futurewei Technologie         # 257
Comment Type ER typo	Comment Status D	EZ	Comment Type ER Comment Status D Forma Typo
SuggestedRemedy Change "N" to "N = " in th	ne equation (149-23)		SuggestedRemedy Change "f is the" to "f is the"
Proposed Response PROPOSED ACCEPT.	Response Status W		Proposed Response Response Status W PROPOSED REJECT.
C/ 149 SC 149.7.1.3	P160 L38	# 255	This matches the formatting of existing 802.3 clauses.
Wei, Dong Comment Type ER	Futurewei Technologie Comment Status D	Editorial	C/         149         SC         149.8.2.1         P163         L15         # 258           Wei, Dong         Futurewei Technologie
typo SuggestedRemedy			Comment Type ER Comment Status D E. Typo
Change "N=1" to "N=1" ir	the equation (149-23)		SuggestedRemedy
Proposed Response	Response Status W		Change "4000 MHz × S" to "4000 × S MHz"
PROPOSED ACCEPT IN Change "N = 1" to "N = 1	I PRINCIPLE. curve which is equivalent to equation (149-	19)."	Proposed Response Response Status W PROPOSED ACCEPT.

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C/ 98B SC 98B.3 Wei, Dong	P <b>168</b> Futurewei Teo	L <b>24</b> hnologie	# 259	C/         149         SC         149.3.2.2.16         P93         L33         # 263           Wei, Dong         Futurewei Technologie	
Comment Type ER Typo	Comment Status D	C	E	Comment Type ER Comment Status D Repeat statement	ΕZ
SuggestedRemedy Change "A6through" to	"A6 through"			SuggestedRemedy Delete the repeat statement of line 33-37, which are the same as line 27-31	
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.	
C/ 149A SC 149A.2 Wei, Dong	P <b>169</b> Futurewei Tec	L <b>26</b> hnologie	# 260	C/         149         SC         149.4.2.1         P135         L4         #         264           Wei, Dong         Futurewei Technologie         Futurewei Tec	
Comment Type ER Typo	Comment Status D		Editor	Comment Type ER Comment Status D Typo	EZ
SuggestedRemedy Change "23°C ± 5°C" to	o "23 ± 5°C"			SuggestedRemedy Change "true.All" to "true. All", just add one space.	
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
C/ <b>149A</b> SC <b>149A.4</b> Wei, Dong	P <b>170</b> Futurewei Teo	L <b>33</b>	# 261	Implement change as requested in comment 169.	
Comment Type ER	Comment Status D	innologie	E	C/         149         SC         149.3.2.2.15         P 90         L 39         # 265           Wei, Dong         Futurewei Technologie	
Typo SuggestedRemedy				Comment Type ER Comment Status D Just shows half g of g(x), and half 0 of g0 in Equation (149-1)	Eź
Change "Testfixture" to Proposed Response	"Test Fixture" Response Status W			SuggestedRemedy	
PROPOSED ACCEPT.	•			Zoom out a little bit for the equation (149-1) to show the full equation. <i>Proposed Response Response Status</i> <b>W</b>	
C/ 149 SC 149.1.3.3 Wei, Dong	Р <b>69</b> Futurewei Tec	L <b>25</b> hnologie	# 262	PROPOSED ACCEPT.	
Comment Type ER Repeat statement	Comment Status D		E		
SuggestedRemedy Delete the sentence:"Th to the link partner" in lin	he PMA Transmit function in le 25~26	the PHY then se	ends an alert message		
Proposed Response PROPOSED ACCEPT.	Response Status W				
				G/general     Comment ID     265     Page 51 of       /written     C/closed     Z/withdrawn     3/1/2019 5	

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C/ <b>149</b> SC <b>149.3.2.2.1</b> Wei, Dong	I6 P94 Futurewei Teo	L <b>19</b> hnologie	# 266	C/         149         SC         149.5.1.1         P154         L 27         # 269           WU, Peter         Marvell
Comment Type ER Typo	Comment Status D		Editorial	Comment TypeERComment StatusDEZFigure 149-36 with wrong piece copied
0	gure 149-10, at the RS Enc	oder #L, the inpu	it and output mL	SuggestedRemedy remove the block of " link partner" in the figure
should be m0. Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
C/ 149 SC 149.4.4.2	P <b>148</b> Marvell	L <b>45</b>	# 267	C/         149         SC         149.4.4         P148         L1         # 270           WU, Peter         Marvell
Comment Type TR	Comment Status D	orten than 2000n	State diagrams ns with 100ms link up	Comment Type         TR         Comment Status         D         State diagrams           "PAM3 " are still used in pma_Watchdog_status definition text and expiration times should be changed as well         State diagrams
SuggestedRemedy Change "2000ms+/-10m Proposed Response PROPOSED ACCEPT.	is" to "97.5ms+/-0.5ms" Response Status W			SuggestedRemedy         change "OK: the local device has received sufficient PAM3 transitions□         NOT_OK: the local device has not received sufficient PAM3 transitions□         During normal operation NOT_OK is assigned when:         — PAM3 symbol 0 consecutively seen on the line for longer than 2 µs ± 0.1 µs         — PAM3 symbol +1 consecutively seen on the line for longer than 3.9 µs ± 0.1 µs         — PAM3 symbol –1 consecutively seen on the line for longer than 3.9 µs ± 0.1 µs
C/ <b>149</b> SC <b>149.4.4.2</b> VU, Peter	P <b>148</b> Marvell	L <b>50</b>	# 268	<ul> <li>PANS symbol – I consecutively seen on the line for longer than 3.9 µs 1 0.1 µs</li> <li>During Low Power Idle operation NOT_OK is assigned when:</li> <li>PAM3 symbol not togglin g on the line during one full refresh window"</li> <li>to</li> </ul>
Comment Type <b>T</b> minwait_timer expiartion SuggestedRemedy change "1ms+0.1s" to " Proposed Response PROPOSED ACCEPT II Make proposed change	Response Status W N PRINCIPLE.	e value used at 8	State diagrams 302.3bp	"OK: the local device has received sufficient PAM4 transitions NOT_OK: the local device has not received sufficient PAM4 transitions During normal operation NOT_OK is assigned when: — PAM4 symbol +3 consecutively seen on the line for longer than 1.9 μs ± 0.1 μs — PAM4 symbol +1 consecutively seen on the line for longer than 1.9 μs ± 0.1 μs — PAM4 symbol -1 consecutively seen on the line for longer than 1.9 μs ± 0.1 μs — PAM4 symbol -3 consecutively seen on the line for longer than 1.9 μs ± 0.1 μs — PAM4 symbol –3 consecutively seen on the line for longer than 1.9 μs ± 0.1 μs — PAM4 symbol –3 consecutively seen on the line for longer than 1.9 μs ± 0.1 μs During Low Power Idle operation NOT_OK is assigned when: — PAM4 symbol not toggling on the line during one full refresh window" The timers expire all at 1.9us +/- 0.1us
				Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
				Make proposed changes and remove highlighting.

C/ <b>149</b> SC <b>149.4.4</b> WU, Peter	P <b>148</b> Marvell	L <b>14</b>	# 271	<i>Cl</i> <b>149</b> Zimmermar	SC <b>149.2.2.9</b> n, George		L <b>27</b> Aquantia,AP	# <u>2</u> 74
Comment Type ER PAM3 still used	Comment Status D		EZ	Delete	references to ur	Comment Status <b>D</b> nused loc_phy_ready and		
SuggestedRemedy change "PAM3" to "PAN	Л4"				uses loc_rcvr_s	4, and 149-24, and in the v status instead of loc_phy_r		
Proposed Response PROPOSED ACCEPT.	Response Status W			In Figur rem_ph	re 149-2 (P71): iy_ready (just th	Delete loc_phy_ready fron le label, not the arc) from f em rcvr status, which sho	PCS RECEIVE to F	
C/ 149 SC 149.5.2.6 WU, Peter	P <b>156</b> Marvell	L <b>40</b>	# 272	149.2.2	P74 L26, Delet	te primitives PMA_PHYRE REMPHYREADY.request (	ADY.indication(loc	_phy_ready) and on
Comment Type <b>TR</b> The clock is still defined	Comment Status <b>D</b> for 2.5G-T1,		PMA	149.2.2	.8 Delete 149.2	.2.8 and subclauses 149.2	2.2.8.1 and 149.2.2	.8.2 (P79 L1-22)
SuggestedRemedy change "1406.25 MHz ± to "5625*S MHz± 50 pp				PMA_F	REMPHYREAD	L1 - 28, Editor's note and (.request and subclauses.		
Proposed Response PROPOSED ACCEPT.	Response Status W			TRANS RECEI	MIT from PMA	eference diagram, P82 L2 SERVICE INTERFACE.( RVICE INTERFACE from "	Change label on ou	tput from PCS
Cl         149         SC         149.4.4.1           Zimmerman, George         Image: Compare the second	P <b>147</b> CME:ADI,Aq	L <b>3</b> uantia,AP	# 273	PMAR	ECEVE to PMA	reference diagram, P134 SERVICE INTERFACE a	nd label "loc_phy_i	ready", and change able
rem_countdown_done,	Comment Status <b>D</b> _slave_tx, infofield_complet and sync_link_control. tchdog status, loc phy rea	_		INTERI Proposed F	ACE from "rem	I from right line) to PHY Con_rcvr_status/rem_phy_rea Response Status W		
not used.	ichuog_status, loc_phy_lea	idy, and rem_pny	_leady as these are			IN PRINCIPLE.		
	m en_slave_tx, infofield_co lown_done, and sync_link_		tdown_done,			4, 276, 273 all discuss ren to determine a coherent s		
Delete PMA_watchdog_ Delete loc_phy_ready a Delete rem_phy_ready a		_9						
Proposed Response PROPOSED ACCEPT.	Response Status W							

C/ 149 SC 149.5.2.5 Souvignier, Tom	P <b>156</b> Broadcom	L <b>35</b>	# 275	<i>Cl</i> <b>149</b> McClellan,	SC 149. Brett	2.2	P <b>80</b> Marvell	L <b>3</b>	# 276
Comment Type <b>TR</b> Max transmitter peak diff design variation. SuggestedRemedy Replace "TBD" with "0.2"	Comment Status <b>D</b> ferential output of 1.2V. 20%	over nominal to	PMA allow for process and	only fo partne For Cl NOT_	ve this edito or the purpos r. ause 97, Idl OK and one	e of si was s for loc	Comment Status <b>D</b> e refers to a special GMII c gnaling PMA_PHYREADY. split into two different codew _phy_ready = OK.	indication (loc_l	ohy_ready) to the link
Proposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE.			149.2. the lin	2.8 PMA_P k partner by	HYREA	n in the current CH draft. ADY.indication definition sta CS as defined in 149.4.4.1. ck to Table 149-1. "This var	,	, ,
If comment 227 to remov	ve this section is not accepte	d, implement th	is solution.	Howey create loc_ph PHY c	ver, Table 14 d in BP to p ny_ready is u control state econciliation	19-1 ha revent innece machir	able 149–1." as no codeword to convey le either side from transmittin essary for XGMII based PH' ne. Normal ordered sets o yer perform the function of l	g frames until b Ys and currently f Local Fault an	oth sides are ready. it isn't used in the PMA d Remote Fault from
				Remo related Remo related Remo	ve the editor ve the primit d to loc_phy ve the primit d to rem_phy ve loc_phy_	ive PN _ready ive PN /_ready ready o	IA_PHYREADY.indication : IA_REMPHYREADY.reque	est and any text ate diagram vari	and figure references
				Proposed	Response	_ ,	Response Status W N PRINCIPLE.	Ū	
							276, 273 all discuss removes of the solution o		

			-				
C/ 149 SC 149.3.2.3 McClellan, Brett	P <b>97</b> Marvell	L <b>38</b>	# 277	C/ 1 SC 1.4 den Besten, Gerrit	P <b>22</b> NXP Semicon	L <b>17</b> ductors	# 280
SuggestedRemedy Change 80 to 450. Proposed Response PROPOSED ACCEPT I Change: 180 To: 450	Comment Status <b>D</b> alignment bits are placed eve Response Status <b>W</b> N PRINCIPLE.			shielded. Same on lines SuggestedRemedy Replace by: "over a sing Proposed Response PROPOSED ACCEPT I TFTD	le balanced pair of conducto <i>Response Status</i> ₩ N PRINCIPLE. ange of the cable name throu	ors using shielde	ed cabling."
C/ Introdu SC Introduction	on <i>P</i> 11	L <b>5</b>	# 278	C/ 30 SC 30.5.1.1.2	P <b>24</b>	L12	# 281
den Besten, Gerrit	NXP Semicone	ductors		den Besten, Gerrit	NXP Semicon	ductors	
application." SuggestedRemedy	Comment Status <b>D</b> d 10 Gb/s operation on auto n at 2.5Gb/s, 5Gb/s, and 100	Û			Comment Status <b>D</b> ed pair of conductors PHY". 18 and 23. Recommend to ore places in the spec.		
of conductors."		Ū		. , , ,	anced pair of conductors PH	Y using shielded	d cabling."
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT I	Response Status W N PRINCIPLE.		
Cl Page SC Title page den Besten, Gerrit Comment Type E "2019Draft" The 2019 se SuggestedRemedy Replace by "Draft"	NXP Semicone Comment Status D sems not to belong here.	L <b>1</b> ductors	# 279 EZ	TFTD This would require a cha places mentioned by co	ange of the cable name throu mments 280 and 281.	ugout the docun	nent, not just the two
Proposed Response PROPOSED ACCEPT.	Response Status W						

C/ 44 SC 44.1.3	P <b>27</b>	L <b>41</b>	# <u>2</u> 82		SC <b>45.2.1.1</b>	97	P <b>40</b>	L10	# <u>2</u> 85
den Besten, Gerrit	NXP Semicon	ductors		den Besten, G	Serrit		NXP Semico	nductors	
	Comment Status D = WAN INTERFACE SUBL below. This is confusing bec			used value	ating margir es), but it is	n as currently defined as a	16bit register wit		SN ly an 8 bit value (255 o dB reference.This is 3 and -0.1dB.
SuggestedRemedy Move the definition: "WIS Proposed Response	= WAN INTERFACE SUB	LAYER" to the	list below the figure.	SuggestedRei Represen that field.	2	NR margin in	bits 7:0 of regist	ter 2314, with 0x8	30 as zero reference for
PROPOSED ACCEPT.				Proposed Res PROPOS	•	<i>Respons</i> T IN PRINCIF	e Status W PLE.		
C/ 44 SC 44.1.4.4 den Besten, Gerrit	P <b>29</b> NXP Semicon	L <b>10</b> ductors	# 283	TFTD					
Comment Type E	Comment Status D		Nomenclature	It may be	desirable to	keep a 16-bi	t register to be c	onsistent with oth	ner Clauses.
SuggestedRemedy	MA" Inconsistent with 10G	BASE-1.		C/ <b>45</b> S den Besten. G	SC <b>45.2.1.1</b> Serrit	98	P <b>40</b> NXP Semico	L17	# 286
Change to "RS-FEC PCS	& 1-pair PMA"			, -		0	nt Status D		SN
PROPOSED REJECT.	Response Status W	on D1.0.		used value very ineffi	SNR margir es), but it is	n as currently defined as a upper 8 bits	proposed in the 16bit register wit	th 0x8000 as zero	ly an 8 bit value (255 o dB reference.This is o 0.0dB and -0.1dB, but
C/ <b>45</b> SC <b>45.2.1.192</b> . den Besten, Gerrit	I P34 NXP Semicon	L <b>29</b> ductors	# 284		t the 8-bit m	iinimum SNR I. Free-up reg		5:8 of register 23	14, with 0x80 as zero
Comment Type <b>T</b> "The control and manage setting of bit 1.2309.15"	<i>Comment Status</i> <b>D</b> ment interface shall be rest	ored to operat	Reset / Startup time ion within 0.5 s from the	Proposed Res PROPOS	,	Respons T IN PRINCIF	e Status <b>W</b> PLE.		
SuggestedRemedy				TFTD					
Replace by: "The control	and management interface ad in 149.x.x, starting when			It may be	desirable to	keep a 16-bi	t register to be c	onsistent with oth	ner Clauses.
Proposed Response PROPOSED ACCEPT IN	Response Status W PRINCIPLE.								
Change: The control and from the setting of bit 1.2	management interface sha 309.15	all be restored	to operation within 0.5 s						
	agement interface shall be r		nation within						

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C/       45       SC       45.2.1.198       P40       L13       # 287       C/       149       SC       149.4.2.3       P135       L34         den Besten, Gerrit       NXP Semiconductors       den Besten, Gerrit       NXP Semiconductors       NXP Semiconductors	# 289
den Besten, Gerrit     NXP Semiconductors     den Besten, Gerrit     NXP Semiconductors	
Comment Type       T       Comment Status       D       SNR       Comment Type       T       Comment Status       D         Register 231 is called minimum margin register, but it is about an SNR valy       TBD       TBD       TBD       TBD	Error rate
SuggestedRemedy     SuggestedRemedy       Rename to: minimum SNR margin     1.00E-09	
Proposed Response     Response Status     W     Proposed Response     Response Status     W       PROPOSED ACCEPT.     PROPOSED REJECT.     PROPOSED REJECT.	
C/ 149 SC 149.3.8.2.1 P114 L # 288 TFTD as part of comment 105.	
den Besten, Gerrit         NXP Semiconductors         C/ 149         SC 149.5.2.4         P155         L24           Comment Type         T         Comment Status         D         OAM         den Besten, Gerrit         NXP Semiconductors	# 290
I understand the benefit of an separate RS code to protect OAM bytes during LPI mode. However it should be noted that EEE is optional. It doesn't make sense to me that the OAM data during normal operation would be double RS encoded as it is already protected by the regular RS-FEC frame. Therefore I propose to make the OAM RS optional for normal operation. Comment Type T Comment Status D The current transmit PSD mask practically not providing any constrain With the current limits this does not add any value except for being a define the signal swing.	
SuggestedRemedy SuggestedRemedy	
I propose to only use the (16,14,10) RS coding for OAM during refreshing and not during normal operation. At least this should not be mandated. During normal operation the OAM	sk.
bytes are already protected by the RS(360,324,10) scheme. We intentionally selected an RS scheme where one byte was left over for OAM. A transceiver with EEE still can double Proposed Response Response Status W PROPOSED REJECT.	
RS encode the OAM all the time, but an PHY that does not support EEE should not be required to add this additional coding without any purpose. In order to keep it simple with a No Suggested Remedy has been provided.	
16 byte scheme, the last two bytes will be reserved in normal operation, and be transmitted as zero.	# 291
Proposed Response Response Status W den Besten, Gerrit NXP Semiconductors	
PROPOSED ACCEPT IN PRINCIPLE. Comment Type T Comment Status D TBD	PMA
Change as proposed in Comment #56 which provides specific text changes. SuggestedRemedy Propose to make this 1.3Vppd, like 1000BASE-T1	
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
If comment 227 to remove this section is not accepted, implement 275	5.

Comment ID 291

C/ <b>149</b> SC <b>149.8.2.2</b> den Besten, Gerrit	P <b>163</b> NXP Semicor	L46	# 292	C/ 149 SC 149 den Besten, Gerrit		P <b>135</b> NXP Semico	L <b>4</b> nductors	# 294
,	omment Status D		la					EZ
We reached consensus on o first topic is empty and the p	coupling and shielding a		ne paragraph on the	"true.All"	Commonie			
uggestedRemedy	0			SuggestedRemedy Add space				
Need to add the limit formula to add an paragraph in shiel the wording.				Proposed Response PROPOSED ACC	Response S CEPT IN PRINCIPLE			
Proposed Response Re PROPOSED REJECT.	sponse Status W			Implement chang	je as requested in co	mment 169.		
No Suggested Remedy has	been provided.			C/ 149 SC 149 den Besten, Gerrit		P <b>137</b> NXP Semico	L7 nductors	# 295
SC         45         SC         45.2.1.192.3           en Besten, Gerrit         Filter         Filter<	P <b>35</b> NXP Semicor	L <b>18</b> nductors	# 293	Comment Type <b>T</b> Timing specs for	Comment S PMA reset are missi			Reset / Startup time
omment Type <b>T</b> C	omment Status D		Reset / Startup tin	SuggestedRemedy				
"The data path of the MultiG many seconds to run at optim mode." uggestedRemedy				available again a	ke less than 10ms (=			er access shall be eve the required BER
"The data path of the MultiG 149.x.x. to resume operation power mode."				Proposed Response PROPOSED ACC	Response S CEPT IN PRINCIPLE			
. –	sponse Status W RINCIPLE.			The reset shall ta available immedia	ately after the max_r red BER within 100n	eset_time. Th	e link shall resu	er access shall be me operation and
Change: The data path of th may take many seconds to r mode.				C/ 149 SC 149 den Besten, Gerrit		P <b>82</b> NXP Semico	L <b>45</b> nductors	# 296
To: The data path of the Mu 149.3.2.1 to resume operation				Comment Type <b>T</b> Timing specs for	Comment S PCS reset are missi			Reset / Startup time
power mode.			,	SuggestedRemedy Insert the followir The reset shall ta available again a	ike less than 10ms (=			er access shall be eve the required BER
				Proposed Response PROPOSED ACC	Response S	tatus W		
YPE: TR/technical required EF COMMENT STATUS: D/dispatcl					wn	Comm	nent ID 296	Page 58 of 61 3/1/2019 5:36:35

Cl 45 SC 45.2.1.197 den Besten, Gerrit	7 P <b>40</b> NXP Semico	L10	# 297	Cl 45 SC 45 den Besten, Gerrit	.2.3.74.1	P <b>43</b> NXP Semicol	L <b>36</b> inductors	# 299
Comment Type T	Comment Status D		SNR	Comment Type	r c	comment Status D		OAA
How is SNR operating n	margin defined? We current BER < 1e-12 is post-FEC. S		re-FEC (raw) BER	"This register sh in register 2319 Furthermore the	all be cleare So it looks addition of		es of the messag a bit messy as th	ver, the last OAM byte is le are handshaked.
a) Define a pre-FEC BE margin	ER target, which will implicilt	y set a reference	SNR level for the SNR	SuggestedRemedy Refer to register	r 3.2319 in tl	ne quoted sentence		
<ul> <li>b) Define a fixed referer</li> <li>c) Report the actual SN</li> <li>register value becomes</li> </ul>	IR pre-FEC and don't talk at	oout 'margin'. In t	he latter case the SNR	Proposed Response PROPOSED RE		esponse Status W		
Proposed Response PROPOSED REJECT.	Response Status W			these are alway	s current. It	w MultiGBASE-T1 OAN is only up to 2317 (the andshaked. Making this	BASE-T1 OAM,	
Margin is relative to an i	implementation_dependent	number determin	ed by the implementer					
	Implementation-dependent fined in the standard to be i		ed by the implementer.		.2.3.78.1	P <b>46</b>	L14	# 300
It doesn't need to be de           Cl 45         SC 45.2.3.74.	fined in the standard to be i	meaningful. L <b>41</b>	ed by the implementer. # 298	Cl <b>45</b> SC <b>45</b> den Besten, Gerrit Comment Type		P <b>46</b> NXP Semico Comment Status D		
It doesn't need to be de CI 45 SC 45.2.3.74. den Besten, Gerrit Comment Type E	fined in the standard to be r 2 P43	meaningful. L <b>41</b>	· ·	den Besten, Gerrit Comment Type	<b>T</b> C d manageme	NXP Semicol	nductors	# 300 Reset / Startup time on within 0.5 s from the
It doesn't need to be de CI 45 SC 45.2.3.74. den Besten, Gerrit Comment Type E asociate: missing d	fined in the standard to be i 2 P43 NXP Semico	meaningful. L <b>41</b>	# 298	den Besten, Gerrit Comment Type "The control and setting of bit 3.2 SuggestedRemedy Replace by: ""T	<b>T</b> C d manageme 322.15." he control ar	NXP Semicol	nductors stored to operati ce shall be resto	Reset / Startup time ion within 0.5 s from the ored to operation within
It doesn't need to be de CI 45 SC 45.2.3.74. den Besten, Gerrit Comment Type E asociate: missing d SuggestedRemedy	efined in the standard to be in a standard to	meaningful. L <b>41</b>	# 298	den Besten, Gerrit Comment Type "The control and setting of bit 3.2 SuggestedRemedy Replace by: ""T	T C d manageme 322.15." he control ar as defined as Re	NXP Semicon comment Status D ent interface shall be read and management interface in 149.x.x, starting when esponse Status W	nductors stored to operati ce shall be resto	Reset / Startup time ion within 0.5 s from the ored to operation within
It doesn't need to be de Cl 45 SC 45.2.3.74. den Besten, Gerrit Comment Type E asociate: missing d SuggestedRemedy asociated Proposed Response	efined in the standard to be in a standard to	meaningful. L <b>41</b>	# 298	den Besten, Gerrit Comment Type "The control and setting of bit 3.2 SuggestedRemedy Replace by: ""T max_reset_time Proposed Response PROPOSED AC	T C d manageme 322.15." he control ar as defined e Re CCEPT IN P ontrol and ma	NXP Semicon comment Status <b>D</b> ent interface shall be read and management interface in 149.x.x, starting when esponse Status <b>W</b> RINCIPLE. anagement interface sh	nductors stored to operati ce shall be resto n bit 3.2322.15 i	Reset / Startup time ion within 0.5 s from the pred to operation within

C/ 45 SC 45.2.3.80.2 P48 L36 # 301	C/ 104 SC 104.5.6.4 P59 L15 # 303						
len Besten, Gerrit NXP Semiconductors	den Besten, Gerrit NXP Semiconductors						
Comment Type T Comment Status D Nomenclature	Comment Type T Comment Status D PoDL						
"PCS high BER": The way it is currently defined is not a BER but a RFER (reed-solomon	Type F has been added to the sub-clause, but there is no reference to clause 149 in there.						
frame-error-rate) as only frames which cannot be corrected are counted.	Especially in this sentence that was apparently there for 1000BASE-T1 with reference to the MDI return loss, it seems that just adding Type F in there is not sufficient.						
Suggested Remedy	SuggestedRemedy						
Rename to Frame Error Rate (FER)	Change:						
Proposed Response Response Status W	"The ripple and transient specifications for a Type B or Type F PD shall be met for all						
PROPOSED ACCEPT IN PRINCIPLE.	operating voltages in the range of VPD sourced through a dc bias coupling network with						
TFTD	MDI return loss as specified by Clause 97, and over the range of PPD." into:						
	"The ripple and transient specifications for a Type B PD shall be met for all operating						
Rename to "PCS High RFER". (Frame error rates can be confused with Ethernet frames, and this is calculated based on the RS-FEC Frames.)	voltages in the range of VPD sourced through a dc bias coupling network with MDI return loss as specified by Clause 97, and over the range of PPD The ripple and transient						
	specifications for a Type F PD shall be met for all operating voltages in the range of VPD						
C/ 45 SC 45.2.3.80.2 P48 L39 # 302	sourced through a dc bias coupling network with MDI return loss as specified by Clause						
len Besten, Gerrit NXP Semiconductors	149, and over the range of PPD."						
Comment Type T Comment Status D Registers	Proposed Response Response Status W						
The spec text "detecting a BER of > 4e-4" is ambiguous, because actually the frame errors	PROPOSED ACCEPT.						
are counted here, not bit errors. Furthermore this number seems way too high. Bit errors at PMA level will mostly be successfully corrected by the RS-FEC, or corrupt a whole RS	C/ 149 SC 149.3.2.2.19 P95 L43 # 304						
frame. Counting the number of erroneous RS frames seems the correct approach, but why	den Besten, Gerrit NXP Semiconductors						
would we express this as BER instead of RFER? Note that the RFER counter is only 6 bits	Comment Type T Comment Status D EEE						
so apparently this not supposed to happen very often. For a RFER<1e-9 the packet level performance is similar to a transmission scheme without RS-FEC and a PMA BER of about	PAM2 versus PAM4 during refreshes						
3e-11.	SuggestedRemedy						
SuggestedRemedy	In order to keep things as simple as possible in EEE mode, I would recommend to go for						
Propose to change into: "detecting a RFER > 1e-9	PAM2 here, so no pre-coder during refreshes.						
Proposed Response Response Status W	Proposed Response Response Status W						
PROPOSED REJECT.	PROPOSED ACCEPT IN PRINCIPLE.						
Either accept this proposal or the one in comment #218.	Comment #48 deletes these hilighted lines.						

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C/ 149 SC 149.3.4.1	P <b>99</b>	L37	# <u>3</u> 05	C/ 149	SC '	149.3.8.2.	1	P <b>114</b>	L <b>38</b>	# <u>3</u> 08	
en Besten, Gerrit NXP Semiconductors				den Besten, Gerrit NXP Semiconductors							
Comment Type       T       Comment Status       D       Editorial         "alignment to the RS-FEC block and the 16 partial PHY frames that comprise the block"       "block" is confusing here as block is used in the context of 64B/65B block encoding. What is meant here is PAM2 training sequence with the length of 4 RS frames. I think this is called super-frame.				Comment Type       E       Comment Status       D       Editorial         "full OAM frame can packed into 8 super frames in the 2x interleave mode, and into 4 super frames in the 4x interleave mode"       SuggestedRemedy         "full OAM frame can be packed into 8 super frames in the 2x interleaved mode, and into 4       Frames in the 2x interleaved mode, and into 4							
SuggestedRemedy							nterleaved m		in the 2x interies	aved mode, and into 4	
Replace by: "alignment to the RS-FEC super-frame comprising 16 partial PHY frames"					Proposed Response Response Status W						
Proposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE.				-	ACCEPT.					
Change: alignment to th block	e RS-FEC block and the 16 p	oartial PHY frames	that comprise the	C/ <b>149</b> Chen, Stev		149.3.8.4.	õ	P <b>131</b> Broadcom	L <b>26</b>	# 309	
To: alignment to the RS-FEC super-frame comprised of 16 partial PHY frames					Comment Type <b>TR</b> Comment Status <b>D</b> late Partially accept William Lo's commentary #66. Suggest additional improvement. Need to identify the OAM symbol based on the OAM framing bit.						
Cl         149         SC         149.3.7.3           den Besten, Gerrit	P <b>112</b> NXP Semicondu	L <b>50</b> uctors	# 306	Suggested	Remed	y .					
Comment Type <b>T</b> TBD	Comment Status D		Editorial	At line 26, change "Parity_Check(rx_oam_field<8:0>) = Even" to "(rx_cnt !=16) * (rx_oam_field<8> = 0)".							
SuggestedRemedy						•	• —	!=16) * (rx_oam_	_field<8> = 1)"		
Replace "TBD encoded"	with "encoded transmit data"			Proposed I	•		Response	Status W			
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change "TBD" to "65B RS-FEC"					PROPOSED REJECT. What you proposed will not work since the final 2 OAM symbols are 10-bit parity symbols and bit 8 can be either 1 or 0. So we cannot rely on looking only at this bit by itself. That is why we defined						
<i>Cl</i> <b>149</b> <i>SC</i> <b>149.3.8.2.1</b> den Besten, Gerrit		L <b>35</b> uctors	# 307	frame_boundary variable that looks at the sequence of all 16 rx_oam_field<8> with the final 2 bits being xx.							
Comment Type E Period missing after "Fig	Comment Status D		EZ								
SuggestedRemedy Add period											
Proposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE.										
Implemented by comme	nt 204.										

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 309