D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

Cl 45	SC 45.2.1	P32	L 31	# 1
Anslow, F	Pete	Ciena		
Comment	Туре Т	Comment Status A		Vendor
45 co The r	nventions or in kee ames of the regist	rs 1.2316 and 1.2317 is not eping with "user defined data ers are such that when this be clear what they are for.	a" as used in pri	or BASE-T PHYs.
Suggeste	dRemedy			
Chan 45.2.	1.199	gister 1.2316 to "MultiGBAS gister 1.2317 to "MultiGBAS		
subcl	ause 45.2.1.200			
Chan Chan regist unles OUIs	ge the text to: "The er is shown in Tab	tiGBASE-T1 user defined da e assignment of bits for the le 45–155f. The values of th s the link partner during Au ages."	MultiGBASÈ-T1 ne bits in this rec	user defined data gister are all zeros
Chan Delet Chan In 45	ge the title to: "Mu e the last row of th ge footnote a to "F 2.1.199.1:	ltiGBASE-T1 user defined d e table. R/W = Read/Write" Y vendor specific data (1.23	Ū	definitions"
Delet Creat	e 45.2.1.199.2 e a new level 4 su			(Register 1.2317)" with
show identi	n in Table 45–155	for the MultiGBASE-T1 link g. The values of the bits in t r during Auto-Negotiation th	his register are a	all zeros unless the PHY
Creat defini entry	e Table 45-155g v tions" and a body	vith title "MultiGBASE-T1 lini the same as the last row of "Link partner PHY vendor s	Table 45-155f e	xcept that the Name
Creat "45.2	e a new level 5 su	bclause: er PHY vendor specific data	a (1.2317.15:0)"	with text as per the
Response ACCI	9 EPT IN PRINCIPLI	Response Status C <u>-</u> .		
		gister 1.2316 to "MultiGBAS	E-T1 user define	ed data" in subclause

Change the name of register 1.2317 to "MultiGBASE-T1 link partner user defined data" in subclause 45.2.1.200

In 45.2.1.199:

Change the title to "MultiGBASE-T1 user defined data register (Register 1.2316)" Change the text to: "The assignment of bits for the MultiGBASE-T1 user defined data register is shown in Table 45–155f. The values of the bits in this register are outside the scope of this standard."

In Table 45-155f:

Change the title to: "MultiGBASE-T1 user defined data register bit definitions" Change the Name to: "MultiGBASE-T1 user defined data"

Change the Description to: "16 bits of vendor specific data that the PHY sends to its link partner"

Delete the last row of the table.

Change footnote a to "R/W = Read/Write"

In 45.2.1.199.1:

Change the title to: "PHY vendor specific data (1.2316.15:0)"

Change text to: "Bits 1.2316.15:0 contain vendor specific data that the PHY may communicate to its link partner during training."

Delete 45.2.1.199.2

Create a new level 4 subclause:

"45.2.1.200 MultiGBASE-T1 link partner user defined data register (Register 1.2317)" with text:

"The assignment of bits for the MultiGBASE-T1 link partner user defined data register is shown in Table 45–155g. The values of the bits in this register are outside the scope of this standard."

Create Table 45-155g with title "MultiGBASE-T1 link partner user defined data register bit definitions" and a row with Name entry for 1.2317.15:0 is "Link partner PHY vendor specific data", Description is "16 bits of vendor specific data that the PHY may receive from its link partner", R/W is "RO", and footnote a is "RO = Read only" Create a new level 5 subclause:

"45.2.1.200.1 Link partner PHY vendor specific data (1.2317.15:0)" with text "Bits 1.2317.15:0 contain vendor specific data that the PHY may receive from its link partner during training."

C/ 45	SC 45.2.1.7.4	P33	L 5	# 2
Anslow, Pete		Ciena		
Comment Ty	be E	Comment Status A		EZ

The empty rows in Table 45-9 and Table 45-10 should contain an ellipsis

agestedRemedy

Add an ellipsis to the empty rows (two instances per table)

Response	Response Status	С
ACCEPT		

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

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

	SC 45.2.1.18	P 34	L 24	# 3	C/ 45	SC 45.2.1.		L 50	# 6	
Anslow, Pete		Ciena			Anslow, Pe		Ciena			
Comment Type		Comment Status A		EZ	Comment 7	51	Comment Status A			EZ
Table 45-2		g instruction. changed, so should not be agraph tag "Note"	e shown.		betwee	en them.	in Clause 45 for the values	s of pairs of bits is t	o not include a sp	bace
SuggestedRen	•	ugiuph ug Noto			Suggested	•				
Change th Delete Tal	e editing instru	iction to: "Insert the followi	ng note below Ta	ble 45-21:"	Change Change	e "value of 0 1	" to "value of 00" " to "value of 01" " to "value of 10"			
Response ACCEPT.	• • •	Response Status C			Response ACCEF	PT.	Response Status C			
					C/ 45	SC 45.5.3.3	3 P 54	L8	# 7	I
C/ 45 S	SC 45.2.1.193.	5 P38	L 8	# 4	Anslow, Pe	te	Ciena			
Anslow, Pete		Ciena			Comment 7	Гуре Е	Comment Status A			EZ
Comment Type	e E	Comment Status A		Precoder	The hig	ghest inserted	item is MM231.			
		Table 45-155b is "Actual p			Sugaastad	Domody				
text in the However, f SuggestedRen Change th	description cel the title of 45.2 <i>nedy</i> le title of 45.2.1	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual preco	2.1.193.5. er selected" which	h does not match	Suggestedl Change Response ACCEF	e "through MN	227" to "through MM231" Response Status C			
text in the However, f SuggestedRen Change th precoder r	description cel the title of 45.2 <i>nedy</i>	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual preco 310.4:3)"	2.1.193.5. er selected" which	h does not match	Change Response ACCEF	e "through MM	Response Status C	/ 52	# [0	
text in the However, SuggestedRen Change th precoder r Response	description cel the title of 45.2 <i>nedy</i> ne title of 45.2.1 requested (1.23	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual preco 310.4:3)" <i>Response Status</i> C	2.1.193.5. er selected" which	h does not match	Change Response ACCEF CI 78	e "through MM PT. SC 78.2	Response Status C	L 53	# 8	
text in the However, SuggestedRen Change th precoder r Response	description cel the title of 45.2 <i>nedy</i> le title of 45.2.1	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual preco 310.4:3)" <i>Response Status</i> C	2.1.193.5. er selected" which	h does not match	Change Response ACCEF Cl 78 Anslow, Pe	e "through MM PT. SC 78.2 te	Response Status C P58 Ciena	L 53	# 8	
text in the However, SuggestedRen Change th precoder r Response ACCEPT I Change pe	description cel the title of 45.2 nedy he title of 45.2.1 requested (1.23 IN PRINCIPLE er comment #1	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual preco 310.4:3)" <i>Response Status</i> C	2.1.193.5. er selected" which der selected (1.23	h does not match 310.4:3)" to: "Actual	Change Response ACCEF CI 78 Anslow, Pe Comment 1	e "through MM PT. SC 78.2 te <i>Type</i> E	Response Status C		# 8	EZ
text in the However, SuggestedRen Change th precoder r Response ACCEPT I Change pe Change th "PrecodeS	description cel the title of 45.2 nedy he title of 45.2.1 equested (1.23 IN PRINCIPLE er comment #1 he title of 45.2.1 Sel (1.2310.4:3)	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual preco .10.4:3)" <i>Response Status</i> C 23 .193.5 from "Actual preco	2.1.193.5. er selected" which der selected (1.23 der selected (1.23	h does not match 310.4:3)" to: "Actual 310.4:3)" to:	Change Response ACCEF Cl 78 Anslow, Pe Comment 1 The bo Suggested	e "through MM PT. SC 78.2 te Type E ttom ruling of Remedy	Response Status C P58 Ciena Comment Status A	Very Thin"	# 8	EZ
text in the However, Change th precoder r Response ACCEPT I Change pe Change th "PrecodeS	description cel the title of 45.2 nedy the title of 45.2.1 equested (1.23 IN PRINCIPLE er comment #1 the title of 45.2.1	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual precod .10.4:3)" Response Status 23 .193.5 from "Actual precod " 4 P39	2.1.193.5. er selected" which der selected (1.23	h does not match 310.4:3)" to: "Actual	Change Response ACCEF Cl 78 Anslow, Pe Comment 1 The bo Suggestedl remove	e "through MM PT. SC 78.2 te Type E ttom ruling of Remedy	Response Status C P58 Ciena Comment Status A Table 78-2 should not be "	Very Thin"	# 8	EZ
text in the However, Change th precoder r Response ACCEPT I Change pe Change th "Precodes C/ 45 S	description cel the title of 45.2 nedy e title of 45.2.1 equested (1.23 IN PRINCIPLE er comment #1 be title of 45.2.1 Sel (1.2310.4:3) 56 45.2.1.194 .	I as well as the text in 45.2 .1.193.5 is "Actual precoded .193.5 from "Actual precoded .10.4:3)" Response Status C .193.5 from "Actual precoded .193.5 from Table (Actual precoded) .193.5 from Table (Actual precod) .193.5 fro	2.1.193.5. er selected" which der selected (1.23 der selected (1.23	h does not match 310.4:3)" to: "Actual 310.4:3)" to: # 5	Change Response ACCEF Cl 78 Anslow, Pe Comment 1 The bo Suggested remove Response	e "through MM PT. SC 78.2 te Type E ttom ruling of Remedy e the override	Response Status C P58 Ciena Comment Status A Table 78-2 should not be "	Very Thin"	# <u>8</u>	EZ
text in the However, SuggestedRen Change th precoder r Response ACCEPT I Change pe Change th "Precodes" C/ 45 S Anslow, Pete Comment Type	description cel the title of 45.2 nedy le title of 45.2.1 equested (1.23 IN PRINCIPLE er comment #1 bet title of 45.2.1 Sel (1.2310.4:3) c 45.2.1.194. e E	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual precod .10.4:3)" Response Status 23 .193.5 from "Actual precod " 4 P39	2.1.193.5. er selected" which der selected (1.23 der selected (1.23	h does not match 310.4:3)" to: "Actual 310.4:3)" to: # 5	Change Response ACCEF Cl 78 Anslow, Pe Comment 1 The bo Suggestedl remove	e "through MM PT. SC 78.2 te Type E ttom ruling of Remedy e the override	Response Status C P58 Ciena Comment Status A Table 78-2 should not be "	Very Thin"	# 8	EZ
text in the However, SuggestedRen Change th precoder r Response ACCEPT I Change pe Change th "PrecodeS C/ 45 S Anslow, Pete Comment Type The conve 0".	description cel the title of 45.2 nedy he title of 45.2.1 requested (1.23 IN PRINCIPLE er comment #1 he title of 45.2.1 Sel (1.2310.4:3) SC 45.2.1.194. e E ention used in C	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual precod .10.4:3)" <i>Response Status</i> C	2.1.193.5. er selected" which der selected (1.23 der selected (1.23	h does not match 310.4:3)" to: "Actual 310.4:3)" to: # 5	Change Response ACCEF Cl 78 Anslow, Pe Comment 1 The bo Suggested remove Response	e "through MM PT. SC 78.2 te Type E ttom ruling of Remedy e the override	Response Status C P58 Ciena Comment Status A Table 78-2 should not be "	Very Thin"	# 8	EZ
text in the However, SuggestedRen Change th precoder r Response ACCEPT I Change pe Change th "PrecodeS CI 45 S Anslow, Pete Comment Type The conve 0". SuggestedRen Change "is	description cel the title of 45.2 nedy he title of 45.2.1 requested (1.23 IN PRINCIPLE er comment #1 he title of 45.2.1 Sel (1.2310.4:3) SC 45.2.1.194. e E ention used in C	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual precod .10.4:3)" <i>Response Status</i> C .193.5 from "Actual precod .193.5 from "Actual p	2.1.193.5. er selected" which der selected (1.23 der selected (1.23	h does not match 310.4:3)" to: "Actual 310.4:3)" to: # 5	Change Response ACCEF Cl 78 Anslow, Pe Comment 1 The bo Suggested remove Response	e "through MM PT. SC 78.2 te Type E ttom ruling of Remedy e the override	Response Status C P58 Ciena Comment Status A Table 78-2 should not be "	Very Thin"	# 8	EZ
text in the However, SuggestedRen Change th precoder r Response ACCEPT I Change pe Change th "PrecodeS Cl 45 S Anslow, Pete Comment Type The conve 0". SuggestedRen Change "is	description cel the title of 45.2 nedy he title of 45.2.1 requested (1.23 IN PRINCIPLE er comment #1 he title of 45.2.1 Sel (1.2310.4:3) SC 45.2.1.194. e E ention used in C nedy s 1" to "is one".	I as well as the text in 45.2 .1.193.5 is "Actual precod .193.5 from "Actual precod .10.4:3)" <i>Response Status</i> C .193.5 from "Actual precod .193.5 from "Actual p	2.1.193.5. er selected" which der selected (1.23 der selected (1.23	h does not match 310.4:3)" to: "Actual 310.4:3)" to: # 5	Change Response ACCEF Cl 78 Anslow, Pe Comment 1 The bo Suggested remove Response	e "through MM PT. SC 78.2 te Type E ttom ruling of Remedy e the override	Response Status C P58 Ciena Comment Status A Table 78-2 should not be "	Very Thin"	# <u>8</u>	EZ

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

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 78 SC 78.	5 <i>P</i> 59	L17	# 9		C/ 104	SC 104	.9.4.3	P 69	L3	# 12	
Anslow, Pete	Ciena				Anslow, Pe	te		Ciena			
Comment Type E	Comment Status A			EZ	Comment 1	уре Е		Comment Status A			ΕZ
"Insert an 10th pa	aragraph" should be "Insert a 10th	paragraph"			"Modify	is not a	valid edit	ing instruction.			
S <i>uggestedRemedy</i> Change "an" to "a	a"				Suggestedl Change	•	tem" to "	Change item"			
Response ACCEPT.	Response Status C				Response ACCEF	PT.		Response Status C			
C/ 104 SC 104	.9 <i>P</i> 68	L1	# 10		C/ 149	SC 149	.3.2.2.2	P93	L 52	# 13	
nslow, Pete	Ciena				Anslow, Pe	te		Ciena			
comment Type E	Comment Status A			ΕZ	Comment 7	⁻ уре Е		Comment Status A			ΕZ
editing instruction "Modify" is not a	iction at the top of page 68 is reduin. N valid editing instruction. too vague to be of any use anywa		ange has its own		When t notes ir	here is mo	ore than e should	now contain two notes one note, the IEEE-SA be numbered "NOTE spaces either side of th	Standards Style M 1—", "NOTE 2—",		lultiple
SuggestedRemedy					Suggestedl	Remedy					
Delete the editing	instruction at the top of page 68					res 149-6					
Response	Response Status C							"NOTE 1—This" to "NOTE 2—Figure"			
ACCEPT.					Response		U	Response Status C			
C/ 104 SC 104	.9.3 <i>P</i> 68	L 8	# 11		ACCEF	PT.					
nslow, Pete	Ciena			_	C/ 149	SC 149	.3.9.2.13	P130	L 6	# 14	
omment Type E	Comment Status A			EZ	Anslow, Pe	te		Ciena			
	SETE and *PDTE are being insert				Comment 1			Comment Status A			ΕZ
	instruction at the top of the page in the page in the tage the fact that this editing					•••	s been c	hanged so that the co	efficient "A2 = 1" is	adjacent to an arr	ow
uggestedRemedy	0							line. Previously, this			
,	ble in 104.9.3 as follows" to "in the	e table in 104.9.3	(as modified by IEEE				the ligun	e it is unclear what fun	cuon is periormed	with A2 - I	
Change "in the ta					Suggestedl	•	aimplym	ultiply by 1, then reins	tata tha multiply av	mbol	
Change "in the ta Std 802.3cg-20xx								m this then clarify what		IIDOI.	
Std 802.3cg-20xx	Response Status C										
Std 802.3cg-20xx					Response			Response Status C			
Std 802.3cg-20xx Response					Response			Response Status C			

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 SC 149.4.2.6.4 P151	L 25	# <u>1</u> 5		C/ 149	SC 149.4.5	P155	L 4	# <u>1</u> 6	
Wienckowski, Natalie General Mot	tors			Wienckows	ski, Natalie	General Motor	rs		
Comment Type E Comment Status A			EZ	Comment	Туре Е	Comment Status A			EZ
In state diagrams, the transitions shouldn't include have the variable_name for true and !variable_name		", instead you sho	uld		•	transitions shouldn't include " he for true and !variable_name		e", instead you sho	bluc
SuggestedRemedy				Suggested	Remedy				
In Figure 149-32, change the following: L25 & L31: "send_s_sigdet = false" to "!send_s_s L39: "power_on = true" to "power_on" L40: "mr_main_reset = true" to "mr_main_reset" L40: "mr_autoneg_enable = true" to "mr_autoneg L49: "mr_autoneg_enable = false" to "!mr_autoneg Response Response Status C ACCEPT IN PRINCIPLE.	_enable"			L4 & L L4 & L L6 & L L6 & L L45: " L46: " L46: "	12: "auto_neg_ 12: "mr_autone 14: "auto_neg_ 14: "mr_autone hi_rfer = false" t hi_rfer = true" to block_lock = tru		neg_enable" p"		
This comment does not apply to the substantive cl D2.0 and D2.1 or the unsatisfied negative commer is not within the scope of the recirculation ballot.	nts from earlier ba	Illots. Hence it		Response ACCEI This co	PT IN PRINCIP	Response Status C E. bt apply to the substantive cha			
Make the suggested change to match the IEEE802 of send_s_sigdet.	2 style. In addition	n, correct the spell	ling			insatisfied negative comments of the recirculation ballot.	s from earlier b	oallots. Hence it	
				Make t	he suggested c	hange to match the IEEE802	style.		

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 SC 14	9.4.5	P 156	L 2	# 17		C/ 149B	SC 149B.4.2	3	P 202	L15	# 19	
/ienckowski, Nata	e	General Motors				Wienckowski	i, Natalie		General Motor	rs		
In state diagrar	s, the transition	ment Status A as shouldn't include "=t a and !variable_name f		e", instead you shou	<i>EZ</i> uld	Comment Ty Different SuggestedRe	, font sizes in I		nt Status A -2			E
uggestedRemedy In Figure 149-3	1 change the fo	llowing.				00	all text in figur	e to be 8.0 p	ot			
L2: "auto_neg_ L2: "mr_autone	imp = true" to "a g enable = true		ble"			Response ACCEPT	۲.	Respons	e Status C			
		e" to "!mr_autoneg_en o "pcs_data_mode"	able"			C/ 149B	SC 149B.4.2	3	P 202	L 38	# 20	
esponse		onse Status C				Wienckowski	,		General Moto	ſS		
ACCEPT IN PF						Comment Ty Different	pe E font sizes in I		nt Status A -3			E.
D2.0 and D2.1	or the unsatisfie	o the substantive chan d negative comments t circulation ballot.				SuggestedRe Change	e <i>medy</i> all text in figur	e to be 8.0 p	ot			
Make the sugge	sted change to	match the IEEE802 st	yle.			Response ACCEPT	г.	Respons	e Status C			
/ 149B SC 1 4 /ienckowski. Nata	9B.4.2.3	P 202 General Motors	L15	# 18		C/ 149B	SC 149B.4.2	3	P 202	L 44	# 21	
,		ment Status A			EZ	Wienckowski	i, Natalie		General Moto	ſS		
51		is shouldn't include "=t	rue" or "=false	instead you sho		Comment Ty	pe E	Comme	nt Status 🔺			E
have the variab		and !variable_name f		, matead you and					shouldn't include " nd !variable name		', instead you sho	ould
uggestedRemedy						SuggestedRe	emedv					
	_rx_clear_rec=t	bllowing: rue" to "mr_rx_clear_re o "!mr_rx_clear_rec"	ec"			L44: ̈́"mi		rec_clear = t	wing" true" to "mr_tx_re o "mr_rx_rec_clea			
esponse	Respo	onse Status C				Response				lou		
ACCEPT.							IN PRINCIPI	•	e Status C			
						L44: Tmi		rec_clear = t	wing" true" to "mr_tx_cle o "mr_rx_rec_clea			

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 SC 149.3.2.	2.20 <i>P</i> 102	L51	# 22		C/ 104 SC 104.9.4.	3 <i>P</i> 69	L12	# 25	
Vienckowski, Natalie	General Motors	3			Wienckowski, Natalie	General Motor	S		
Comment Type E What is "PAM4 mode"	Comment Status A		P	recoder	Comment Type E	Comment Status A			E
SuggestedRemedy Change: PAM4 mode To: PAM4 encoding					SuggestedRemedy Make "Table 104-7" a	hyperlink.			
Response ACCEPT IN PRINCIP	Response Status C LE.				Response ACCEPT.	Response Status C			
					C/ 125 SC 125.1.4	P 72	L34	# 26	
	ot apply to the substantive char unsatisfied negative comments				Wienckowski, Natalie	General Motor	S		
	of the recirculation ballot.				Comment Type E	Comment Status A			E
Make the following ch	ange to increase reader unders	tanding.							
Change: when enterin To: when transitioning	ng PAM4 mode	0			<i>SuggestedRemedy</i> Make "78" a hyperlink				
					Response	Response Status C			
7 104 SC 104.5.6.		L 40	# 23		ACCEPT IN PRINCIP	LE.			
Vienckowski, Natalie Comment Type E	General Motors Comment Status A	3		EZ	D2.0 and D2.1 or the	ot apply to the substantive cha unsatisfied negative comments e of the recirculation ballot.			
SuggestedRemedy									
Make "Table 104-7" a Also, P67 L4	hyperlink.				C/ 149 SC 149.3.9.	2.12 P129	L17	# 27	
Response	Response Status C				Wienckowski, Natalie	General Motor	s		
ACCEPT.					Comment Type E	Comment Status A			E
X 104 SC 104.5.6.	4 P67	L5	# 24						
Vienckowski, Natalie	General Motors				SuggestedRemedy				
Comment Type E	Comment Status A	-		EZ	Change: 149B To: Annex 149B				
SuggestedRemedy					Response ACCEPT IN PRINCIF	Response Status C PLE.			
	hyperlink and remove the "form	est green" color	-		This comment does n	ot apply to the substantive cha	inaes hetween II	FFF P802 3ch	
						unsatisfied negative comments			
Also, P67 L6, P67 L1 ⁻ Response ACCEPT.	Response Status C					e of the recirculation ballot.			

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

Comment ID 27

Page 6 of 45 9/12/2019 2:10:21 PM P802.3ch D2.1 D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 SC 149.11.4.1 P175 L28 # 28 C/ 149 SC 149.11.4.3	3.4 P184 L7 # 31
	··• / 10• L/ # 01
Wienckowski, Natalie General Motors Wienckowski, Natalie	General Motors
Comment Type E Comment Status A EZ Comment Type E	Comment Status A EZ
SuggestedRemedy SuggestedRemedy Make "Clause 98" in Feature column a hyperlink. Make "Table 149-11" in	Feature column a hyperlink.
Response Response Status C Response ACCEPT IN PRINCIPLE. ACCEPT. ACCEPT.	Response Status C
This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.CI 149SC 149.11.4.3Correct the link to improve readability of the draft.Comment TypeE	3.6 P185 L33 # 32 General Motors Comment Status A EZ
Cl 149 SC 149.11.4.2.1 P176 L27 # 29 SuggestedRemedy	
	ature column a hyperlink.
Comment Type E Comment Status A EZ Response Incorrect link trying to go outside the document. ACCEPT IN PRINCIPLE	Response Status C
Change: 149.3.4.2 to 149.3.5.1 (hyperlink in the document) D2.0 and D2.1 or the unis not within the scope of the sc	apply to the substantive changes between IEEE P802.3ch satisfied negative comments from earlier ballots. Hence it of the recirculation ballot. we readability of the draft.
C/ 149 SC 149.11.4.3.4 P184 L6 # 30 C/ 149 SC 149.11.4.3	3.6 P185 L38 # 33
Wienckowski, Natalie General Motors Wienckowski, Natalie	General Motors
Comment Type E Comment Status A EZ Comment Type E	Comment Status A EZ
SuggestedRemedy SuggestedRemedy Make "Table 149-10" in Feature column a hyperlink. Make "Figure 149–32" in	n Feature column a hyperlink.
Response Response Status C Response ACCEPT. ACCEPT IN PRINCIPLE	Response Status C =.
D2.0 and D2.1 or the ur	apply to the substantive changes between IEEE P802.3ch isatisfied negative comments from earlier ballots. Hence it of the recirculation ballot.
Correct the link to impro	ove readability of the draft.

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

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 S	SC 149.11.4.6	P189	L 27	# 34		C/ FM	SC FM	P11	L 4	# 37	
Wienckowski,	Natalie	General Motors				Wienckows	ski, Natalie	General Motors			
Comment Type	e E	Comment Status A			ΕZ	Comment 7 Missing		<i>Comment Status</i> A escription of the ammendment.			EZ
SuggestedRen	nedy					Suggestedl	Remedy				
Make "149	9.5.2" in Featu	re column a hyperlink.						e 149 and Annex 149A and Anne			
Response		Response Status C					ds Clause 149 a	and Annex 149A, Annex 149B, a	and Annex 149C.		
ACCEPT.						Response ACCEF	PT.	Response Status C			
C/ 149 S	SC 149.11.4.6	P 189	L 28	# 35		C/ 149C	SC 149C.1	P203	L11	# 38	
Wienckowski,	Natalie	General Motors							LII	# 38	
Comment Type	e E	Comment Status A			ΕZ	Wienckows	,	General Motors			1 400
0						<i>Comment 1</i> 149C h		Comment Status D onon return loss			149C
SuggestedRen	•	re column a hyperlink.				Suggestedl	Remedy				
Response	.5.5 III Featu	Response Status C						rmation on insertion loss and re on on insertion loss parameters	turn loss parame	ters	
ACCEPT.						Proposed F		Response Status Z			
C/ 149A S	SC 149A.5.4	P197	L 41	# 36		REJEC	CT.				
Wienckowski,	Natalie	General Motors				This co	omment was WI	THDRAWN by the commenter.			
Comment Type	e E	Comment Status A			ΕZ	C/ 104	SC 104.9.4.3	B P69	L17	# 39	
						Wienckows	ski, Natalie	General Motors			
SuggestedRen Make "Fig	,	n Feature column a hyperlink.				Comment 7	Type E	Comment Status A			EZ
Response ACCEPT I	N PRINCIPLE	Response Status C				Suggestedi Make "		perlink and remove the "forrest	green" color.		
D2.0 and [D2.1 or the un	apply to the substantive chang satisfied negative comments fr f the recirculation ballot.				Response ACCEF	PT.	Response Status C			
Correct the	e link to impro	ve readability of the draft.									

02.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/FM SC	P 2	L5	# 40		C/ 149	SC	149.1.3.3	P78	L 27	# 42	
Marris, Arthur	Cadence Des	ign Systems			Slavick, Je	ff		Broadcom			
Comment Type E	Comment Status A			ΕZ	Comment	Туре	Е	Comment Status A			Ež
	EEE Std 802.3-2018 adds phy				Extra o	or inste	ad of a per	iod.			
	ers for 2.5 Gb/s, 5 Gb/s, and able for applications." does no		n on a single balai	nced	Suggestea	Reme	dy				
SuggestedRemedy		ot roug right			Replac	ce the	or with a "."				
Change to:					Response			Response Status C			
"This amendment to I	EEE Std 802.3-2018 adds phy				ACCE	PT IN	PRINCIPLE				
	ers for 2.5 Gb/s, 5 Gb/s, and able for automotive applicatio		n on a single balar	nced	The w	ard "aa	munto d" wa	a appaidentally delated from	the and of the	aantanaa Addit	hook
•		115.			per co			is acccidentally deleted from	the end of the s	semence. Add it	Dack
Response ACCEPT.	Response Status C										
AUGEPT.					C/ 149		149.3.2.2	P 91	L13	# 43	
C/FM SC	P 22	L 6	# 41		Slavick, Je			Broadcom			
Marris, Arthur	Cadence Des	ign Systems			Comment	51	E	Comment Status A			EZ
Comment Type E	Comment Status A			ΕZ	Missin	0					
Title is wrong.					Suggestea						
SuggestedRemedy					Chang	e "RS-	FE symbols	s" to "RS-FEC symbols"			
Change title to:					Response			Response Status C			
"Draft Standard for Eth				0	ACCE	PT.					
Gb/s Automotive Elect	cations and Management Par trical Ethernet"	ameters for 2.5 C	SD/S, 5 GD/S and 1	0							
Also consider changin Automotive Ethernet F	g page headers to something	other than "IEEE	E P802.3ch Multi-G	Sig							
	EEE P802.3ch Task Force: Pl	hysical Layer Spe	ecifications and								
Management Paramet	ters for 2.5 Gb/s, 5 Gb/s and	10 Gb/s Automoti	ve Electrical Ethe	rnet"							
Response	Response Status C										
ACCEPT IN PRINCIP	LE.										
Change title to match	the first page adding missing	comma: "Draft S	Standard for Etherr	net							
Amendment:											
Physical Layer draftific Gb/s Automotive Elect	cations and Management Para trical Ethernet"	ameters for 2.5 G	ib/s, 5 Gb/s, and 1	0							

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

Actual precoder requested doesn't really make any sense to me based upon description. I believe this field should be indicating the actual state/control of the receive precoder. In the precoder type is suppose to be assigned to two bits from the InfoFields, which contains 96 bits of information. So which 2 bits should be used? SuggestedRemedy See Presentation tu_3ch_01_0919.pdf See Presentation tu_3ch_01_0919.pdf Response Response Status C ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Response "Actual precoder requested" to "PrecodeSel" Page 37 line 21 (Table 45-155b) change "Actual precoder selected" to "PrecodeSel", and replace text of 45.2.1.193.5 header) change "Actual precoder selected" to "PrecodeSel", and replace text of 45.2.1.193.5 (P38 lines 10-12) to read as follows: This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Make the requested change to increase reader understanding. C/ 149 SC 149.5.1.1 P158 L24 # #6 Gubow, Marty Keysight Technologies	CI 45 SC 45.2.1.193.5 P38 L8 # 44	C/ 149 SC 1	49.3.2.2.20	P 102	L 27	# <u>4</u> 5
Actual precoder requested doesn't really make any sense to me based upon description. I believe this field should be indicating the actual state/control of the receive precoder. The precoder requested doesn't really make any sense to me based upon description. I believe this field should be indicating the actual state/control of the receive precoder. SuggestedRemedy See Presentation tu_3ch_01_0919.pdf Response Response Status ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" Page 38 line 16 (45.21.1193.5 (Pa8 lines 10-21) to read as follows: "Bits 12310.4.3 contain the requested precoder setting communicated by the PHY to the link partner via the Precoder Sellection", and replace text (P38 lines 46 (45.2.1.193.1 for 38 line 45 (155c) and Page 38 line 45 (152.1.194.2.1.194.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3.2 for the value of PrecodeSel, PrecodeSel, PrecodeSel, Precoder setting communicated by the PHY to the link partner via the Intofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change The most common transmitter connection to	Slavick, Jeff Broadcom	Slavick, Jeff		Broadcom		
believe this field should be indicating the actual state/control of the receive precoder. SuggestedRemedy See Presentation tu_3ch_01_0919.pdf Response Response Status C ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" Page 38 line 15 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" ink partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Page 38 line 15 (Table 45-155b) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder requested verified" to "Precodef Selection", and replace text (P38 lines 47-48) to desired precoder setting communicated by the PHY to the link partner via the Infofield specified in 149.4.2.4.4." Page 38 line 13 (Table 45-155c) and Page 38 line 45 (45.2.1.194.4 header) change "Precoder requested to "User precoder selection", and replace text (P38 lines 37-48) to desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested to "User precodef selection", and replace text (P39 lines 33-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Card as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Card as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Page 39 line 23 (Table 45.155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested to "	Comment Type TR Comment Status A Prece	der Comment Type	TR Comm	nent Status A		E
See Presentation tu_3ch_01_0919.pdf Response Response Status C ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel", and replace text of 45.2.1.193.5 (P38 lines 10-12) to read as follows: Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder Seli Is the Infofield (see 149.4.2.4.)." Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder setting communicated by the PHY to the link partner via the PHY sonto Is the value of PrecodeSel, and When 1.2311.5 is set to a one, the PHY sonto Is the value of PrecodeSel, and when set to a zero the PHY contols the value of PrecodeSel, and when set to a zero the PHY sonto Is the value of PrecodeSel, setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder setting communicated by the PHY to the link partner via the PrecodeSel plits in the Infofield (see 149.4.2.4.)." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder setting communicated by the PHY to the link partner via the PrecodeSel plits in the Infofield (see 149.4.2.4.)." Response Response Status C ACCEPT IN PRINCIPLE. Accept IN PRINCIPLE.						nfoFields, which
Response Response Status C ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel", and replace text of 45.2.1.193.5 (Pis lines 10.12) to read as follows: "Bits 1.2310.4:3 contain the requested precoder selection", and replace text (P38 lines 47.48) to read as follows: "When as to a zero the PHY controls the value of PrecodeSel. PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "Iser precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)."	SuggestedRemedy	SuggestedRemedy	,			
Response Response Status C ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" and replace text of 45.2.1.193.5 (P38 lines 10-12) to read as follows: "Bits 1.2310.4:3 contain the requested precoder selected" to "PrecodeSel" and replace text of 45.2.1.193.5 (P38 lines 10-12) to read as follows: "Bits 1.2310.4:3 contain the requested precoder selected" to "PrecodeSel" and replace text of 45.2.1.194.2 header) change "Precoder requested precoder Selection", and replace text (P38 lines 47-48) to read as follows: "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the Infofield (see 149.4.2.4.4)." Response Response Status C ACCEPT IN PRINCIPLE. Response Status C ACCEPT IN PRINCIPLE.	See Presentation tu_3ch_01_0919.pdf			l messages" to "the	PrecodeSel fiel	d from the InfoField
ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" and replace text of 45.2.1.193.5 (pa8 lines 10-12) to read as follows: "Bits 1.2310.4:3 contain the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Therecoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Make the requested change to increase reader understanding. (/ 149 SC 149.5.1.1 P158 L24 # 46 Gubow, Marty Keysight Technologies Comment Type T Comment Status A The most common transmitter connection to an oscilloscope utilizes two 50-ohm channels Figure 149-36 Make the requested to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)."	Response Response Status C	0 (,			
Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder selected" to "PrecodeSel" Page 38 line 8 (45.2.1.193.5 (P38 lines 10-12) to read as follows:This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "Precoder Selection", and replace text (P38 lines 47-48) to read as follows:P158L24# 46Gubow, Marty Men 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel is the desired precoder seling communicated to the link partner via the Infofield specified in 149.4.2.4.4."To Comment Tapsmitter connection to an oscilloscope utilizes two 50-ohm channels Figure 149-36 should be updated.Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested to "User precoder selection", and replace text (P39 lines 38-39) to read as follows:To September 1282 CWhen 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)."Response Status C ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE.	,	,	nse Status C		
link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." C/ 149 SC 149.5.1.1 P158 L24 # 46 Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "Precoder Selection", and replace text (P38 lines 47-48) to read as follows: "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel, and when set to a zero the PHY controls the value of PrecodeSel. PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." C/ 149 SC 149.5.1.1 P158 L24 # 46 Bubow, Marty Keysight Technologies Comment Type T Comment Status A testi Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: When 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Response Response Status C ACEPT IN PRINCIPLE.	Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" Page 38 line 8 (45.2.1.193.5 header) change "Actual precoder selected" to "PrecodeSel" and replace text of 45.2.1.193.5 (P38 lines 10-12) to read as follows:	D2.0 and D2.1 is not within the	or the unsatisfied e scope of the rec	l negative comment circulation ballot.	ts from earlier ba	
 Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "Precoder Selection", and replace text (P38 lines 47-48) to read as follows: "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel, and when set to a zero the PHY controls the value of PrecodeSel. PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." <i>Response Response Status</i> C ACCEPT IN PRINCIPLE. 		C/ 149 SC 1	49.5.1.1	P158	L 24	# 46
 "Precoder request override" to "Precoder Selection", and replace text (P38 lines 47-48) to read as follows: "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel, and when set to a zero the PHY controls the value of PrecodeSel. PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." <i>Response Response Status</i> C ACCEPT IN PRINCIPLE. 	Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45 2 1 194 2 beader) change	Gubow, Marty		Keysight Tec	hnologies	
 "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel, and when set to a zero the PHY controls the value of PrecodeSel. PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Response Response Status C ACCEPT IN PRINCIPLE. 	"Precoder request override" to "Precoder Selection", and replace text (P38 lines 47-48) to	Comment Type	T Comm	nent Status A		testin
desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." SuggestedRemedy Receommned new figure 149-36 Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Response Response Status C ACCEPT IN PRINCIPLE.	"When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSe				cilloscope utilizes	s two 50-ohm channels.
149.4.2.4.4." Receommned new figure 149-36 Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. C		SuggestedRemedy	,			
"Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Response Response Status C ACCEPT IN PRINCIPLE.		Receommned	new figure 149-36	6		
"When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)."	"Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to					
by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." ACCEPT IN PRINCIPLE.		Response	Respo	nse Status C		
Replace Figure 149-36 with the figure in gubow, 3ch, 01a, 0919 pdf		ACCEPT IN PI	RINCIPLE.			
		Replace Figure	e 149-36 with the	figure in gubow_3cl	h_01a_0919.pdf	

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 125 SC 125.3	P 74	L12	# 47		C/ 149B	SC 14	9B.4.2.3		P 202	L 8	# <u>5</u> 0	
_o, William	Axonne Inc.				Lo, Williar	n		A	xonne Inc.			
Comment Type E	Comment Status D			EZ	Comment	Туре Е	E	Comment St	atus A			EZ
Table fix gap in colu	mn 2 numbers				Font s	size of text	in boxes	and text in ar	rows are not o	consistent		
SuggestedRemedy					Suggested	dRemedy						
Remove the gaps in	all the numbers in column 2.				Make	font sizes	of text c	onsistent				
Proposed Response REJECT.	Response Status Z				Response ACCE			Response Sta	atus C			
This comment was \	WITHDRAWN by the commenter.				D2.0 a	and D2.1 o	r the uns		ive comments	nges between l from earlier ba		
C/ 149 SC 149.3.2	2.2 P 91	L 13	# 48		Malaa	- 11 4 4 1		!				
Lo, William	Axonne Inc.				Маке	all text size		e consistent.				
Comment Type E	Comment Status A			ΕZ	C/ 149	SC 14	9.3.6.1		P 110	L 26	# 51	
Spelling					Lo, Williar	n		A	xonne Inc.			
SuggestedRemedy					Comment	Туре Т		Comment St	atus A			PCS
RS-FE should be RS Response ACCEPT.	S_FEC Response Status C				intend overla	led benefit p a little bi	is that th t given tl	ne ALERTs do	not overlap, b the standard	out we determin . The fact that t	und like a benefit. ed that they may he ALERTs mostl	
C/ 149 SC 149.10	P173	L23	# 49		Suggested	dRemedy						
Lo, William	Axonne Inc.	L 20	# 49		Chang	<i>.</i>						
Comment Type E	Comment Status D			EZ		overlap" to ly will not c						
Table fix gap in colu					Response	,		Response Sta	atus C			
SuggestedRemedy						EPT IN PRI	NCIPLE	,				
	all the numbers in column 3.				Chain						av alant nariad/0	م به ما
Proposed Response REJECT.	Response Status Z				provid	les the follo	owing tw	o benefits: The	MASTER an	d SLAVE allow rlap the device		and
This comment was \	WITHDRAWN by the commenter.				provid device	les two ber e's own ref	nefits. T resh. Th	he first benefit e second bene	is that ALER [®] fit is that the	art times by ale I transmissions MASTER and S rlap at the limite		ith the

02.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

William Axonne Inc. nment Type TR Comment Status A AN Cannot condense into 1 variable (mGigT1). If one device can do 2.5G only and another can do 10G only how would the incompatible_link work as both would assert mGigT1? AN Fixing the footnote in page 156 is the proper way to address D2.0 comment 224. gestedRemedy Undo changes from D2.0 comment 224 Page 156 line 22 change link_status_mGigT1 to link_control_mGigT1 and link_status_mGigT1 where mGigT1 is 2.5GigT1, 5GigT1, or	Lo, William Axonne Inc. Comment Type TR Comment Status A Fix corner case out of sync condition between Figure 149-17 and 149-20 Scenario: LPI is send at the initial RS frame just as lp_low_snr=1 TX_L state is entered and tx_lpi_req never gets set to true Stuck in TX_L state since it is waiting for tx_lpi_active to go true. Meanwhile in Figure 149-20 stuck at TX_NORMAL since tx_lpi_req remains false so never enters into SEND_SLEEP to set tx_lpi_active to go true. So we are deadlocked Figure 149-17 waiting for tx_lpi_active to go true while Figure 149-20 is waiting for tx_lpi_req to go true. Remedy below breaks the dead lock.	EEE
Cannot condense into 1 variable (mGigT1). If one device can do 2.5G only and another can do 10G only how would the incompatible_link work as both would assert mGigT1? Fixing the footnote in page 156 is the proper way to address D2.0 comment 224. gestedRemedy Undo changes from D2.0 comment 224 Page 156 line 22 change link_control_mGigT1 and link_status_mGigT1 to	Fix corner case out of sync condition between Figure 149-17 and 149-20 Scenario: LPI is send at the initial RS frame just as lp_low_snr=1 TX_L state is entered and tx_lpi_req never gets set to true Stuck in TX_L state since it is waiting for tx_lpi_active to go true. Meanwhile in Figure 149-20 stuck at TX_NORMAL since tx_lpi_req remains false so never enters into SEND_SLEEP to set tx_lpi_active to true. So we are deadlocked Figure 149-17 waiting for tx_lpi_active to go true while Figure 149-20 is waiting for tx_lpi_req to go true.	EEE
can do 10G only how would the incompatible_link work as both would assert mGigT1? Fixing the footnote in page 156 is the proper way to address D2.0 comment 224. <i>gestedRemedy</i> Undo changes from D2.0 comment 224 Page 156 line 22 change link_control_mGigT1 and link_status_mGigT1 to	Scenario: LPI is send at the initial RS frame just as lp_low_snr=1 TX_L state is entered and tx_lpi_req never gets set to true Stuck in TX_L state since it is waiting for tx_lpi_active to go true. Meanwhile in Figure 149-20 stuck at TX_NORMAL since tx_lpi_req remains false so never enters into SEND_SLEEP to set tx_lpi_active to true. So we are deadlocked Figure 149-17 waiting for tx_lpi_active to go true while Figure 149-20 is waiting for tx_lpi_req to go true.	
10GigT1. ponse Response Status ACCEPT IN PRINCIPLE. Undo changes from D2.0 comment 224 P156 L22 change: The variables link_control and link_status are designated as link_control_mGigT1 and link_status_mGigT1, respectively, Tay translates link_control and link_status are designated as link_control_mGigT1 and link_status_mGigT1, respectively,	SuggestedRemedy Change: (lp_low_snr + T_TYPE(tx_raw) = (C + D + E + S + T)) * tx_lpi_active To: (lp_low_snr + T_TYPE(tx_raw) = (C + D + E + S + T)) * (!tx_lpi_req + tx_lpi_active) Response Response Status C ACCEPT.	
To: The variables link_control and link_status are designated as link_control_2.5GigT1 and link_status_2.5GigT1 for 2.5GBASE-T1, link_control_5GigT1 and link_status_5GigT1 for	C/ Annex SC 149C.2 P203 L43 # 54	
5GBASE-T1, and link_control_10GigT1 and link_status_10GigT1 for 10GBASE-T1	DiMinico, Christopher MC Communications	
	Comment Type E Comment Status A	ΕZ
	SuggestedRemedy correct text for space circuit	
	Response Response Status C ACCEPT IN PRINCIPLE.	
	Change "circ uit" to "circuit"	

02.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ Annex SC 149C.1	P 203	L35	# <u>5</u> 5	C/ FM	SC FM	P 10	L 48	# 57	
DiMinico, Christopher	MC Communic	cations		Wienckow	vski, Natalie	General Motors	3		
Comment Type T	Comment Status A		149C	Comment	Туре Е	Comment Status A			E
Change Max PCB length	from 4.5" to 3" more repres	sentative of MAX	K implementations.	IEEE	Std 802.3cn-20	0xx - Amendment 4			
SuggestedRemedy				Suggested	dRemedy				
In Figure 149C–1 delete In equation (149C–1) cha In equation (149C–4) cha Change Table 149C–1 va	inge 4.5" to 3".	itation.		Amen Gb/s,	200 Gb/s, and	3cn™-20xx amendment includes changes to 400 Gb/s Physical Layer specific ngle-mode fiber with reaches of a	cations and ma		
diminico 3ch 01 0919.p	df			Response	;	Response Status C			
Response	Response Status C			ACCE	EPT.				
ACCEPT IN PRINCIPLE	,			C/ FM	SC FM	P10	L 51	# 58	
Make the suggested text	changes on slide 2 and cha	ange Table 1/0	C-1 per slide 3 of	Wienckow	vski. Natalie	General Motors	6		
diminico_3ch_01a_0919.				Comment	Type E	Comment Status A			E
la seletitisa to the low other			4	IEEE	Std 802.3cg-20	0xx - Amendment 5			
	hange, the lengths were ch	langed to SI uni	is, mm.	Suggested	dRemedv				
CI Annex SC 149C.1	P 203	L 12	# 56		•	 after the title for cg and before 	"This amendn	nent"	
DiMinico, Christopher	MC Communic	cations		Response)	Response Status C			
Comment Type TR	Comment Status A		149C	ACCE					
	rmation on return loss para		nannel defined	C/ FM	SC FM	P11	L 6	# 59	
	RX function illustrated in Fi	igure 149C-1.		Wienckow	vski, Natalie	General Motors	3		
SuggestedRemedy				Comment	Туре Е	Comment Status A			EZ
See presentation diminic	o 3ch 02 0919.pdf			IEEE	Std 802.3cq-20	0xx - Amendment 6			
Response	Response Status C			Suggested	dRemedy				
ACCEPT IN PRINCIPLE	,	If with editorial I	icense to conform to	Amen		3cq™-20xx amendment includes editorial a Clause 33 and related portions of		rrections, refinem	ients,
Add the text bronosed in	anninioo_oon_ozo_oo ro.pa			Response		Desmanas Status C			
IEEE 802.3 style.				Response	•	Response Status C			

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/FM SC FM	P11	L 6	# 60		C/ 149	SC	149.7.1.3	P 166	L 24	# <u>6</u> 2
Wienckowski, Natalie	General Motor	s			Ohni, Jose	f		MD Elektronik		
Comment Type E	Comment Status A			ΕZ	Comment	Туре	Е	Comment Status A		E.
IEEE Std 802.3cm-20>	x - Amendment 7							by parts (149–22). The frequ		
SuggestedRemedy Add: IEEE Std 802.3c	m™-20xx				first pa consis		frequency	point 3000 belongs to the s	econd and thire	d part. This ist not
	mendment includes changes	to IEEE Std 80	2.3-2018 and adds		Suggested	Remed	'y			
Clause 150. This amer					Chang	e the s	econd par	t "480/2N ≤ f ≤ 3000 MHz" to	9 "480/2N ≤ f <	3000"
	specifications and manageme SE-SR4.2) and eight pairs (40				Response			Response Status C		
over reaches of at leas			or mattimode liber,		ACCE	PT IN F	PRINCIPLE	Ξ.		
Response ACCEPT.	Response Status C				D2.0 a	nd D2.	1 or the ur	apply to the substantive cha satisfied negative comment of the recirculation ballot.		
					10 1101	with the ci	10 00000 0			
C/ 149A SC 149A.2	P 192	L 36	# 61		Make	change	to fix typo			
Wienckowski, Natalie	General Motor	S			C/ 149	SC	149.7.1.4	P167	L 35	# 63
Comment Type E	Comment Status A		te	esting	Ohni, Jose	f		MD Elektronik		
5	mental conditions in 149A are	the applicable	conditions for the		Comment	Type	Е	Comment Status A		E
defined test method. SuggestedRemedy					In the second		n defined	by parts (149–24). The frequ	ency point 750	belongs to the first and
Change: Measuremer	•				Suggested	•	lv.			
To: These test method	s are applicable for temperatu	ire of			00		-) ≤ f ≤ 750 MHz" to "30 ≤ f <	750 MHz"	
Response	Response Status C				•		lot pure of		100 11112	
ACCEPT IN PRINCIPI	.E.				Response ACCE		RINCIPLE	Response Status C <u>=</u> .		
Change: Measuremer	its are performed at 23°C ± 5°	C and relative	humidity of 25% to 7	75%.	This		4	ann bu ta tha an batantina ab.		
To: These test method 62153-4-7.	ds are applicable for temperat	ure and humidi	ty as specified by IE	C	D2.0 a	nd D2.	1 or the ur	apply to the substantive chansatisfied negative comment of the recirculation ballot.		

Make change to fix typo.

P802.3ch D2.1	02.1 Physical Lay	er Specificati	ons and Mana	gement F	Parameters	for 2.	5 Gb/s,	5 Gb/s,	and 10 Gb/s Au	tom		
C/ 00 SC 0	P1	L18	# <u>6</u> 4		C/ 45	SC 4	45.2.1.19	2.3	P 36	L35	# <u>6</u> 7	
Maguire, Valerie	The Siemon C	Company			Tu, Mike				Broadcom			
Comment Type E Use oxford comma.	Comment Status A			EZ		exiting th		wer mode	nent Status A e, the PHY should go going to Figure 149			EEE HY
SuggestedRemedy Replace, "2.5 Gb/s, s	5 Gb/s and 10 Gb/s" with "2.5 G	b/s, 5 Gb/s, and	l 10 Gb/s".		Suggested	dRemed					0	
Response ACCEPT.	Response Status C				Response	1	RINCIPL	Respo	nse Status C			
SuggestedRemedy	A.2.3 P202 Broadcom Comment Status A request_rec_clear" is not define e transition condition should be		# 65	EZ	D2.0 a is not Delete	and D2. [.] within th e "The N	1 or the u ne scope 1ultiGBA	of the rec	the substantive cha negative comments irculation ballot. Y executes a full ret node."	s from earlier ba	Illots. Hence it	after
Response ACCEPT IN PRINCI	Response Status C		<u></u> 01041_100 1									
Change "mr_tx_requ	est_rec_clear = true" to "mr_tx_	_clear_rec"										
Cl 44 SC 44.1.4. Tu, Mike Comment Type E I think "gray code" sl	4 P 30 Broadcom Comment Status A nould be "Gray code".	L 43	# 66	EZ								
SuggestedRemedy Change "gray code"	to "Gray code"											
Response ACCEPT IN PRINCI	Response Status C											
	not apply to the substantive cha ed negative comments from ear ation ballot.											

Change "gray code" to "Gray-code" as "Gray" is based on a name and this is how it is written in this and other Clauses.

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

Comment Type E Comment Status A Precoder Comment Type E Comment Status A The "actual precoder selected" name is confusing to readers. Precoder "Reed-Solomon 'receiver' interleave setting" does not sound right. Delete the word 'receiver' SuggestedRemedy SuggestedRemedy Change from: " the Reed-Solomon receiver interleave setting" See proposed changes in tu_3ch_01_0919.pdf. Change from: " the Reed-Solomon interleave setting"	Cl 45 SC 45.2.1.193.5 P38	L 8 # <u>6</u> 8	C/ 45	SC 45.2.1.1	94.1	P 38	L 41	# <u>6</u> 9	
The "actual precoder selected" name is confusing to readers. SuggestedRemedy See proposed changes in tu_3ch_01_0919.pdf. Response Response Status C ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 37 line 21 (Table 45-1550) change "Actual precoder requested" to "PrecodeSel" and replace text of 45.2.1.193.5 (Pa38 lines 10-12) to read as follows: "This 1.3211.5 is an en, the PHY shall use 1.2311.3.2 for the value of PrecodeSel is the desired precoder selector", and replace text (P38 lines 47.48) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3.2 are the request precoder selector", and replace text (P39 lines 36-39) to the substantive changes of local device" and "local PHY" at the following the destined precoder selector", and replace text (P39 lines 36-39) to the substantive changes of local device" to "local device" by "local PHY" throughout the document. Response Response Status C ACCEPT IN PRINCIPLE. This comment is to a zero the PHY shall use 1.2311.3.2 for the value of PrecodeSel is the desired precoder selector", and replace text (P39 lines 36-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3.2 are the request precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)."	Tu, Mike Broadcom		Tu, Mike			Broadcom			
SuggestedRemedy See proposed changes in tu_3ch_01_0919.pdf. Response Response Status C ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 33 line 8 (45.21.193.5 header) change "Actual precoder requested" to "PrecodeSel" Page 33 line 8 (45.21.193.5 header) change "Actual precoder selected" to "PrecodeSel" and replace text of 45.2.1.193.5 (Pash est 0.12) to read as follows: "Bits 1.2310.4.3 contain the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "PrecodeSel. PrecodeSel. PrecodeSel. PrecodeSel. PrecodeSel. PrecodeSel. PrecodeSel. PrecodeSel. PrecodeSel. PrecodeSel. Status of the status of PrecodeSel. Prec	Comment Type E Comment Status A	Precoder	Comment	Туре Е	Comme	nt Status A			ΕZ
See proposed changes in tu _3ch_01_0919.pdf. Response Response Status C ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 38 line 8 (45.2.1.193.5 header) change "Actual precoder requested" to "PrecodeSel", and replace text of 45.2.1.193.5 (Patader) change "Actual precoder selected" to "PrecodeSel", and when set to a zero the PHY shall use 1.2311.3:2 for the value of PrecodeSel is the desired precoder selecitor", and replace text (1928 lines 47.48) to read as follows: "When 1.2311.5 is a one, hits 1.2311.3:2 are the requested precoder selector", and replace text (1939 lines 38.39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder selector", and replace text (1939 lines 38.39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder selector", and replace text (1939 lines 38.39) to the solutions: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder selector", and replace text (1939 lines 38.39) to the distributions: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder selector", and replace text (1939 lines 38.39) to the distributions: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder selector", and replace text (1939 lines 38.39) to the distributions: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder selector", and replace text (1939 lines 38.39) to the distributions: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder selector", and replace text (1939 line	The "actual precoder selected" name is confusing to rea	aders.	"Reed	I-Solomon 'recei	ver' interleav	e setting" does n	ot sound right. D	Delete the word 'rec	eiver'.
Response Response Status C ACCEPT IN PRINCIPLE. This comment has the same response as #123. Response Response Status C Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" and replace text of 45.2.1.193.5 (Pa8 lines 10-12) to read as follows: This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Page 38 line 31 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder requested to "PrecodeSel is in the Infofield (see 149.4.2.4.4)." Make usggested change and additional change to correct "Infofields" to "InfoField". Viben 1.2311.5 is set to a one, the PHY shall use 1.2311.3.2 for the value of PrecodeSel is the desired precoder seleting communicated to the link partner via the Infofield (see 149.4.2.4.4.)" Nuke Broadcom Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder seleting communicated to the link partner via the Infofield (see 149.4.2.4.4)." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder" to "User precoder seleting communicated to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Suggested/Remedy When 1.2311.5 is a one, bit 1.2311.3.2 are the requested precoder setting communicated to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Response Status C <	SuggestedRemedy		Suggestee	dRemedy					
Response Response Status C ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 38 line 8 (45.2.1.193.5 (F) badder) change "Actual precoder requested" to "PrecodeSel", and replace text of 45.2.1.193.5 (F) badder) change "Actual precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "PrecodeSel is the desired precoder setting communicated to the link partner via the PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder setting", and replace text (P38 lines 33.9) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows:	See proposed changes in tu_3ch_01_0919.pdf.						eave setting"		
ACCEPT IN PRINCIPLE. This comment has the same response as #123. Make the following changes: Page 37 line 21 (Table 45-1556) change "Actual precoder requested" to "PrecodeSel", and replace text of 45.2.1.193.5 header) change "Actual precoder selected" to "PrecodeSel", and replace text of 45.2.1.193.5 header) change "Actual precoder selected" to "PrecodeSel", and replace text of 45.2.1.193.5 (P38 lines 10-12) to read as follows: "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel, and when set to a zero the PHY contos the value of PrecodeSel, and when set to a zero the PHY shall use 1.2311.3:2 for the value of PrecodeSel, desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4.)" When PHY to the link partner via the PrecodeSel bits in the Infofield (se	Response Response Status C					•			
This comment has the same response as #123. Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" Page 38 line 8 (45.2.1.193.5 (P38 lines 10-12) to read as follows: "Bits 1.2310.43 contain the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder Selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Cl 45 SC 45.2.1.195.4 P41 L5 # 70 Tu, Mike Broadcom Comment Type E Comment Status A Both "local device" and "local PHY" are used in this document. Maybe we should stay wi "local PHY"? Suggested/Remedy Replace all occurrences of "local device" by "local PHY" throughout the document. Response Status C ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Change "local device" to "local PHY" at the following locations to make the draft consister is not within the scope of the recirculation ballot.	ACCEPT IN PRINCIPLE.				,	e Status C			
Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" Page 38 line 8 (45.2.1.193.5 header) change "Actual precoder selected" to "PrecodeSel", rand replace text of 45.2.1.193.5 (Page 38 line 45.12) to read as follows: "Bits 1.2310.43 contain the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request to virile" to "PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder request tor" user precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Change "local device" to "local PHY" at the following locations to make the draft consiste	This commont has the same response as #123		ACCE	PT IN PRINCIP	LE.				
link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." C/ 45 SC 45.2.1.195.4 P41 L5 # 70 Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "Precoder Selection", and replace text (P38 lines 47-48) to read as follows: Broadcom "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." C/ 45 SC 45.2.1.195.4 P41 L5 # 70 Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." C/ 45 SC 45.2.1.195.4 P41 L5 # 70 Wile Broadcom Broadcom Broadcom Comment Status A Both "local device" and "local PHY" are used in this document. Maybe we should stay with "local PHY"? SuggestedRemedy Replace all occurrences of "local device" by "local PHY" throughout the document. Response Status C ACCEPT IN PRINCIPLE. This comment does not apply to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." This comment does not apply to the substantive change	Make the following changes: Page 37 line 21 (Table 45-155b) change "Actual precod Page 38 line 8 (45.2.1.193.5 header) change "Actual pre and replace text of 45.2.1.193.5 (P38 lines 10-12) to rea	ecoder selected" to "PrecodeSel", ad as follows:	D2.0 a is not	and D2.1 or the within the scope	unsatisfied no e of the recirc	egative comment culation ballot.	s from earlier ba	allots. Hence it	
Page 39 line 15 (1 able 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "Precoder Selection", and replace text (P38 lines 47-48) to read as follows: "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel, and when set to a zero the PHY controls the value of PrecodeSel. PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." When PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Change "local device" to "local PHY" at the following locations to make the draft consister			C/ 45	SC 45.2.1.1	95.4	P 41	L 5	# 70	,
 "Precoder request override" to "Precode Selection", and replace text (P38 lines 47-48) to read as follows: "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel, and when set to a zero the PHY controls the value of PrecodeSel. PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P38 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Comment Type E Comment Status A Both "local device" and "local PHY" are used in this document. Maybe we should stay wi "local PHY"? SuggestedRemedy Replace all occurrences of "local device" by "local PHY" throughout the document. Response Response Status C ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Change "local device" to "local PHY" at the following locations to make the draft consister 	Dana 20 line 45 (Table 45 455a) and Dana 20 line 45 (4		Tu, Mike			Broadcom			
read as follows: "When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel, and when set to a zero the PHY controls the value of PrecodeSel. PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." Both "local device" and "local PHY" are used in this document. Maybe we should stay wi "local PHY"? SuggestedRemedy Replace all occurrences of "local device" by "local PHY" throughout the document. Response Response Status C ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Change "local device" to "local PHY" at the following locations to make the draft consister			Comment	Туре Е	Comme	nt Status A			ΕZ
desired precoder setting communicated to the link partner via the Infofield specified in 149.4.2.4.4." Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." SuggestedRemedy Replace all occurrences of "local device" by "local PHY" throughout the document. Response Response Status C ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Change "local device" to "local PHY" at the following locations to make the draft consister	read as follows: "When 1.2311.5 is set to a one, the PHY shall use 1.23	11.3:2 for the value of PrecodeSel,			d "local PHY	" are used in this	document. May	/be we should stay	with
149.4.2.4." Replace all occurrences of "local device" by "local PHY" throughout the document. Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: Response Status C "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Change "local device" to "local PHY" at the following locations to make the draft consister			Suggestee	dRemedy					
ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Change "local device" to "local PHY" at the following locations to make the draft consister			Repla	ce all occurrene	cs of "local d	evice" by "local F	HY" throughout	t the document.	
"Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows: ACCEPT IN PRINCIPLE. "When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Change "local device" to "local PHY" at the following locations to make the draft consister	Page 30 line 23 (Table 45-155c) and Page 30 line 37 (A	5 2 1 104 4 header) change	Response		Respons	e Status C			
"When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)." This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Change "local device" to "local PHY" at the following locations to make the draft consister	"Precoder requested" to "User precoder selection", and		ACCE	PT IN PRINCIP	LE.				
	"When 1.2311.5 is a one, bits 1.2311.3:2 are the reques		D2.0 a	and D2.1 or the	unsatisfied n	egative comment			
P41 L5, P41 L12, P46 L8, P55 L45, P55 L49, P153 L40, P153 L43, P153 L44			Chan	ge "local device"	to "local PH	Y" at the following	g locations to m	ake the draft consis	stent:
			P41 L	5, P41 L12, P46	6 L8, P55 L45	5, P55 L49, P153	L40, P153 L43,	P153 L44	

P802.3ch D2.1))2	2.1 Physical Laye	er Specificatio	ons and Management	Parameters	for 2.5 Gb/s	, 5 Gb/s, ar	nd 10 Gb/s Au	utom	
C/45 SC 4	5.2.1.199	P42	L30	# <u>7</u> 1	C/ 149	SC 149.2.1.	1	P81	L16	# <u>7</u> 4
Tu, Mike		Broadcom			Tu, Mike			Broadcom		
Comment Type Register 1.231		<i>nent Status</i> A k partner vendor sp	ecific data.	Vendor	<i>Comment</i> It is su	•••		<i>t Status</i> A chronization". De	<i>hno:</i> "elete "algorithm	logy Dependent Interface
SuggestedRemedy Under column Response	"Name", change "	Reserved" to "Link nse Status C	oartner vendor s	pecific data"		,		nchronization alg	jorithm to"	
ACCEPT IN P					Response		Response	Status C		
					ACCE	PT IN PRINCIP	LE.			
Cl 149 SC 1 Tu, Mike Comment Type Need to define SuggestedRemedy Change line 4 VendorSpecific	the bit mapping o 7 from" "Oct8<7:0 cData."	P145 Broadcom nent Status A of VendorSpecificDa > = VendorSpecificE	ata, and Oct9<7	# <u>72</u> <i>Vendor</i> 7:0> = *SpecificData[15:8]."	D2.0 a is not Make Chang "This	and D2.1 or the within the scope the following ch ge page 81, line primitive allows	unsatisfied ne e of the recircu ange to correc 16 and line 1 the Auto-Nego	gative comment ulation ballot. ct the draft. 7 from: otiation or the Pt	anges between l ts from earlier ba HY Link Synchro ied in 98.4.2, res	allots. Hence it nization algorithm to
Response ACCEPT.		nse Status C		j.	specif	ied in 98.4.2."				eration of the PMA, as
		DAAE	1.45	# 20	C/ 149	SC 149.2.1.	1.1	P81	L 24	# <u>7</u> 5
	49.4.2.4.5	P145	L 45	# 73	Tu, Mike			Broadcom		
Tu, Mike Comment Type Need to define	-	Broadcom <i>nent Status</i> A of InterleaverDepth a	ind PrecodeSel	EZ		51		t Status D ther the Auto-Ne	gotiation or the	EZ PHY Link
SuggestedRemedy					Suggested	dRemedy				
Change line 45 = PrecodeSel, To: " PHY ca PrecodeSel[1:	5 from: "… PHY ca …" apability bits is Oc 0], …"	t10<2:1> = Interleav		averDepth, Oct10<4:3> ct10<4:3> =	DIABL the Pl	HY. BLE Used by th	e Auto-Negoti		-	on function to disable on function to enable
Response ACCEPT.	Respoi	nse Status C			Proposed REJE		Response	e Status Z		

This comment was WITHDRAWN by the commenter.

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 SC 149.2.1.1.	2 <i>P</i> 81	L 30	# <u>7</u> 6		C/ 149	SC ·	149.3.2.2		P 91	L13	# <u>7</u> 9
u, Mike	Broadcom				Tu, Mike			Br	oadcom		
comment Type T	Comment Status D			ΕZ	Comment	Туре	т	Comment Sta	tus A		RS-F
PMA_Link.request can Synchronization.	be set by either the Auto-Neg	potiation or the	PHY Link							he same time wit symbols" should l	h the RS-FEC be "RS-FEC symbols
SuggestedRemedy					Suggested	Remed	У				
To: "Auto-Negotiation o	itence from: "Auto-Negotiatio r PHY Link Synchronization ("		interlea	ave the	RS-FE sy	mbols,"		d 340 bits of parit of parity for the F	y for the RS-FEC,
Proposed Response	Response Status Z				Response			Response Stat			(0-1 LO,
REJECT.							RINCIPLI	,	us C		
This comment was WIT	HDRAWN by the commente	r. 	# 77		Chang 65B bl OAM f	e: The ocks, a ield, the	subseque	ent functions of th 0-bit) bits of parity for			en take a block of fift RS-FE symbols, and
Γu, Mike	Broadcom										
Comment Type T	Comment Status D			EZ	To: Tr	ie subs	equent fui	nctions of the PC	S Transmi	t process take L p. This forms the	groups of fifty 65B
••	so goes to the PHY Link Synd	chronization		62	interlea	and ap	S-FEC wh	ich adds L x 340	parity bits.	The resulting L	x 3600 bits are then
—					scraml					Ū	
	he Auto-Negotiation function egotiation or PHY Link Syncl		ction"		<i>Cl</i> 149 Tu, Mike	SC [,]	149.3.2.2		P 91 oadcom	L 41	# 80
Proposed Response	Response Status Z				Comment	Tune	т	Comment Sta			F
REJECT.	,									es. So scale both	
T I: () (1)					Suggested			le talling about	ouponnume		
	HDRAWN by the commente	r.			00	e "3600	,	3600xL bits", and	l change "1	800 PAM4 symb	ols" to "1800xL PAM
C/ 149 SC 149.2.1.2.	3 P82	L 8	# <u>7</u> 8		Response			Response Stat	us C		
īu, Mike	Broadcom				-	PT IN F	RINCIPLI	,			
Comment Type T	Comment Status D			EZ							
Add a reference to 149.	4.2.6.4 PHY Link Synchroniz	ation State Dia	igram.		Delete	this se	ntence pe	r comment #156			
SuggestedRemedy											
	ct of receipt of this primitive i ot of this primitive is specified k Synchronization."			nd in							
Proposed Response	Response Status Z										
REJECT.	-										
		-									
This comment was WIT	HDRAWN by the commente	r.									

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

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149	SC 149.3.2.2	P 92	L 5	# <u>8</u> 1	C/ 149	SC	149.3.2.2	2.17	P 100	L10	# <u>8</u> 3	
Гu, Mike		Broadcom			Tu, Mike				Broadcom			
Comment T	ype E	Comment Status A		EZ	Comment	Туре	т	Comme	nt Status 🔺			ΕZ
The blo	ck diagramis "s	hown" in Figure 149-5.				dditive : correct.		r is added af	fter the encoder a	nd interleaver. S	this sentence is	s not
SuggestedR	•				Suggester							
Change Figure 1		o: "A block diagram of the PC	S Transmit fund	tions is shown in	Chang	ge from	: "tx_RSr				is formed as follo	
Response		Response Status C			lo: "t	x_RSm	essage<:	3259:0> prior	r to the RS-FEC (360,326) encode	er is formed as fol	lows:"
ACCEP	T IN PRINCIPL	E.			Also a	add inde	ents at lin	e 12 and line	e 14.			
This cor	mment does no	t apply to the substantive cha	nges between l	EEE 0802 3ch	Response	9		Respons	e Status C			
D2.0 an	d D2.1 or the u	nsatisfied negative comments of the recirculation ballot.			ACCE	EPT IN I	PRINCIP	LE.				
Make th Change	ne following cha :: A block diagr	nge to be consistent with wor am of the PCS Transmit func f the PCS Transmit function is	tions is in Figure	e 149–5.	D2.0 a	and D2.	.1 or the u	unsatisfied n	e substantive cha egative comment culation ballot.			
	-		-		Make	the req	quested cl	hange to fix a	an error in the dra	ft.		
C/ 149	SC 149.3.2.2		L 3	# 82	C/ 149	SC	149.3.2.2	2.18	P101	L35	# 84	
Tu, Mike		Broadcom			Tu, Mike				Broadcom			
Comment T		Comment Status D		Reject OOS	Comment	Type	Е	Comme	nt Status A			EZ
Should	we use "MultiG	BASE-T1" instead of "2.5G/5	G/10GBASE-11	<u>"?</u>					ndex "n" in Dn[0]	and Dn[1].		
SuggestedR	•				Suggester		•					
		BASE-T1 PCS" to "MultiGBA 1 control codes" to "MultiGBA					•	tting on the i	ndex "n" in Dn[0]	and Dn[1].		
Proposed R	esponse	Response Status Z			Response	9		Respons	e Status C			
REJEC	т.				ACCE	EPT.						
This cor	mment was WI ⁻	THDRAWN by the commente	r.									
D2.0 an	d D2.1 or the u	t apply to the substantive chansatisfied negative comment										
		of the recirculation ballot.										
		ully reviewed to see if this has was intentionally left in the d										

Commenter is encouraged to resubmit this comment at SA ballot if it is deemed not to impact the draft.

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 SC 149.3.2.2.18 P101 L42 # 85	C/ 149 SC 149.3.2.3 P104 L39 # 86
Tu, Mike Broadcom	Tu, Mike Broadcom
Comment TypeTComment StatusATerminologyUse "n" as the common index of symbol numbers in time, in 149.3.2.2.18, 149.3.2.2.19, 149.3.2.2.20, and 149.3.2.2.21.	Comment Type E Comment Status A EZ Redundant statement?
SuggestedRemedy 1. On page 101, line 35, insert a new paragraph as follows: "n is an index indicating the symbol number".	SuggestedRemedy Change from: " separated into a 10-bit OAM field, separated from the 64B/65B blocks, and fifty 64B/65B blocks." To: " separated into a 10-bit OAM field and fifty 64B/65B blocks."
2. In in 149.3.2.2.18, 149.3.2.2.19, 149.3.2.2.20, and 149.3.2.2.21, applying the following changes:	Response Response Status C ACCEPT IN PRINCIPLE.
 2.1 Change all bit notation "A" to "A_n", where "_" means subscript formatting. 2.2 Change all bit notation "B" to "B_n", where "_" means subscript formatting. 2.3 Change all "G(j)" to "G(n)". 2.4 Change all "P(j)" to "P(n)", all "P(j-1)" to "P(n-1)", and "P(j-2)" to "P(n-2)". 2.5 Change "M(u)" to "M(n)". 2.5 Change "P(u)" to "P(n)". 	This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Make the requested change to increase reader understanding.
 Change page 103, line 6 from "The PAM4 encoded symbols are denoted M(u), where:" to "The PAM4 encoded symbols are denoted M(n)." Delete page 103, line 8. 	Cl 149 SC 149.3.2.3.1 P 105 L 37 # 87 Tu, Mike Broadcom
Response Response Status C ACCEPT IN PRINCIPLE.	Comment Type T Comment Status D Reject OOS The description should consider the interleved cases. Comment Status Comment Statu
This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.	SuggestedRemedy Change from: " from rx_PAM4_0 to rx_PAM4_1799 (see Figure 149–7)." To: " from rx_PAM4_0 to rx_PAM4_1800xL-1, where L is the interleaving depth (see Figure 149–7 for the L=1 case)."
Make the changes requested in tu_3ch_02_0919.pdf on slides 4, 5, 6, 7, & 9.	Proposed Response Response Status Z REJECT.
	This comment was WITHDRAWN by the commenter.

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 SC 149.3.8.3	P125	L3	# 88		C/ 149	SC 149.3	.2.2.14	P 98	L 31	# 90	
Tu, Mike	Broadcom				Tu, Mike			Broadcom			
Comment Type T C Although both 3.0.14 and 3. 3.2322.14 here.	<i>Comment Status</i> A .2322.14 are copies of ea	ch other, I thn	t it is better to refer t	EZ to		6-FEC encod		ent Status A 60 bits consist of t	x_group50x65B /	AND the 10-bit OAM	<i>EZ</i> 1.
SuggestedRemedy Change "3.0.14" to "3.2322	.14".					e line 31 from		e 3260-bit vector t tx_group50x65B a			
Response Re	esponse Status C				Response		Respon	se Status C			
ACCEPT IN PRINCIPLE.					ACCE	PT IN PRINC	IPLE.				
This comment does not app D2.0 and D2.1 or the unsati is not within the scope of th Make change to improve ur instead of the generic bits e	isfied negative comments e recirculation ballot. nderstanding. Other Clau	from earlier ba	allots. Hence it their specific bits		D2.0 a is not v Make t Chang	nd D2.1 or th vithin the sco he following e line 31 fror	e unsatisfied ope of the reci change to fix a n: " takes th	the substantive ch negative commen rculation ballot. an error in the draf e 3260-bit vector f consisting of tx_g	ts from earlier ba t. tx_group50x65B,	llots. Hence it	d,
C/ 149 SC 149.3.2.2.17	P100	L12	# 89		and				•	_	
Tu, Mike	Broadcom				C/ 149	SC 149.3	.2.2.14	P 98	L28	# 91	
, , , , , , , , , , , , , , , , , , ,	Comment Status A			ΕZ	Tu, Mike			Broadcom			
The mapping on line 12 and appended after the fifty 65B FEC encoder. But the mapp one to enter the RS FEC er	blocks, and should be th bing on line 12 and line 14	e last symbol e	entering into each R	S	<i>Comment</i> Figure	149-6 shows		ent Status A ordering, not Figur	e 149-8.		ΕZ
SuggestedRemedy					Suggested	-) 0" to "Cimuna	140.0"			
Change line 12 from: "tx_R	Smessage<3259:10> = t	group50x65B	<3249:0>."		_	e Figure 14	9-8" to "Figure				
To: "tx_RSmessage<3249:0	0> = tx_group50x65B<32	49:0>."			Response ACCE	PT.	Respon	se Status C			
Change line 14 from: "tx_R To: "tx_RSmessage<3259:											
Response Re	esponse Status C										
ACCEPT IN PRINCIPLE.											
This comment does not app D2.0 and D2.1 or the unsati is not within the scope of th	isfied negative comments										
Make the requested change	e to fix an error in the draf	t.									

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

The PMA Transmit electrical specifications are given in 149.5.2. SuggestedRemedy Change "149.1.3" to "149.5.2". Response Response Status C ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Correct the link to improve readability of the draft. C/ 149 SC 149.4.2.4 P143 L31 # 93 Souvignier, Tom Broadcom Comment Type TR Comment Status A EZ It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. The SLAVE should align its tr will need to redo frame aligner SuggestedRemedy Change from: "During startup, align" To: "During startup, prior to er Response Response R	nents during training. , prior to entering the C ntering the TRAINING ponse Status C to the substantive cha- ied negative comment recirculation ballot. deficiency in current of P143 Broadcom	COUNTDOWN state, the SLA\ anges between ts from earlier b	state, the SLAVE shall VE shall align" IEEE P802.3ch
The PMA Transmit electrical specifications are given in 149.5.2.SuggestedRemedy Change "149.1.3" to "149.5.2".Response Response Status C ACCEPT IN PRINCIPLE.ACCEPT IN PRINCIPLE.This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.Correct the link to improve readability of the draft.CI 149SC 149.4.2.4P143L 31# 93Make requested change to fixCI 149SC 149.4.2.4P143L 31# 93Make reques	anmit frames before it nents during training. , prior to entering the C ntering the TRAINING <i>ponse Status</i> C to the substantive cha ied negative comment recirculation ballot. deficiency in current of <i>P</i> 143 Broadcom	COUNTDOWN state, the SLAV anges between ts from earlier b draft.	sion. Otherwise MASTER state, the SLAVE shall VE shall align" IEEE P802.3ch pallots. Hence it
SuggestedRemedy will need to redo frame alignm Change "149.1.3" to "149.5.2". Response Response Response Status C ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch Change from: "During startup, prior to er D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. This comment does not apply to the draft. ACCEPT IN PRINCIPLE. C/ 149 SC 149.4.2.4 P143 L31 # 93 Souvignier, Tom Broadcom Ez Make requested change to fix C/ 149 SC 149.4.2.4 P143 L31 # 93 It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. Ez C/ 149 SC 149.4.2.4 Souvignier, Tom Gourign after each PAM2 PHY training frame. Ez Souvignier, Tom C/ 149 SC 149.4.2.4	nents during training. , prior to entering the C ntering the TRAINING ponse Status C to the substantive cha- ied negative comment recirculation ballot. deficiency in current of P143 Broadcom	COUNTDOWN state, the SLAV anges between ts from earlier b draft.	state, the SLAVE shall VE shall align" IEEE P802.3ch pallots. Hence it
SuggestedRemedy SuggestedRemedy Change "149.1.3" to "149.5.2". SuggestedRemedy Response Response Status C ACCEPT IN PRINCIPLE. Change irom: "During startup, prior to er This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Free Status C Correct the link to improve readability of the draft. This comment does not apply D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. This comment does not apply D2.0 and D2.1 or the unsatisfies not within the scope of the draft. C/ 149 SC 149.4.2.4 P143 L 31 # 93 Souvignier, Tom Broadcom Make requested change to fix C/ 149 SC 149.4.2.4 Sc 149.4.2.4 It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. EZ C/ 149 Sc 149.4.2.4 Souvignier, Tom Comment Type To Comment Type To	, prior to entering the C ntering the TRAINING ponse Status C to the substantive cha ied negative comment recirculation ballot. deficiency in current of P143 Broadcom	state, the SLA anges between ts from earlier b draft.	VE shall align …" IEEE P802.3ch pallots. Hence it
Change 149.1.3 to 149.3.2. Response Response Status C ACCEPT IN PRINCIPLE. Change from: "During startup, rior to er This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Correct the link to improve readability of the draft. This comment does not apply D2.0 and D2.1 or the unsatisfied scope of the recirculation ballot. C/ 149 SC 149.4.2.4 P143 L 31 # 93 Souvignier, Tom Broadcom EZ C/ 149 SC 149.4.2.4 It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. EZ C/ 149 SC 149.4.2.4	ntering the TRAINING ponse Status C to the substantive cha ied negative comment recirculation ballot. deficiency in current of P143 Broadcom	state, the SLA anges between ts from earlier b draft.	VE shall align …" IEEE P802.3ch pallots. Hence it
Response Response Status C ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Correct the link to improve readability of the draft. C/ 149 SC 149.4.2.4 P143 L31 Broadcom Comment Type TR Comment Status A EZ It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. EZ	ntering the TRAINING ponse Status C to the substantive cha ied negative comment recirculation ballot. deficiency in current of P143 Broadcom	state, the SLA anges between ts from earlier b draft.	VE shall align …" IEEE P802.3ch pallots. Hence it
This comment does not apply to the substantive changes between IEEE P802.3ch Response Response D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. ACCEPT IN PRINCIPLE. Correct the link to improve readability of the draft. This comment does not apply D2.0 and D2.1 or the unsatisfied negative comment apply D2.0 and D2.1 or the unsatisfies not within the scope of the recirculation ballot. C/ 149 SC 149.4.2.4 P 143 L 31 # 93 Souvignier, Tom Broadcom Make requested change to fix Comment Type TR Comment Status EZ It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. EZ C/ 149 SC 149.4.2.4	ponse Status C to the substantive cha ied negative comment recirculation ballot. deficiency in current of P143 Broadcom	anges between ts from earlier b draft.	IEEE P802.3ch ballots. Hence it
ACCEPT IN PRINCIPLE. D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Correct the link to improve readability of the draft. C/ 149 SC 149.4.2.4 P 143 L 31 # 93 Souvignier, Tom Broadcom Comment Type TR Comment Status A EZ It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. EZ C/ 149 SC 149.4.2.4	to the substantive cha ied negative comment recirculation ballot. deficiency in current o P143 Broadcom	ts from earlier b draft.	pallots. Hence it
D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. ACCEPT IN PRINCIPLE. Correct the link to improve readability of the draft. This comment does not apply D2.0 and D2.1 or the unsatisfies not within the scope of the recirculation ballot. This comment does not apply D2.0 and D2.1 or the unsatisfies not within the scope of the recirculation ballot. C/ 149 SC 149.4.2.4 P143 L 31 # 93 Souvignier, Tom Broadcom Make requested change to fix Comment Type TR Comment Status A EZ It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. C/ 149 SC 149.4.2.4	ied negative comment recirculation ballot. deficiency in current of P143 Broadcom	ts from earlier b draft.	pallots. Hence it
Correct the link to improve readability of the draft. This comment does not apply D2.0 and D2.1 or the unsatisfies not within the scope of the results of the draft. C/ 149 SC 149.4.2.4 P143 L 31 # 93 Souvignier, Tom Broadcom Make requested change to fix Comment Type TR Comment Status A EZ It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. C/ 149 SC 149.4.2.4 Souvignier, Tom Comment Type To comment Type To comment Type	ied negative comment recirculation ballot. deficiency in current of P143 Broadcom	ts from earlier b draft.	pallots. Hence it
C/ 149 SC 149.4.2.4 P 143 L 31 # 93 Souvignier, Tom Broadcom Comment Type TR Comment Status A EZ C/ 149 SC 149.4.2.4 It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. EZ C/ 149 SC 149.4.2.4 Souvignier, Tom Comment Type T Comment Type T Comment Type	recirculation ballot. deficiency in current of P143 Broadcom	draft.	
C/ 149 SC 149.4.2.4 P 143 L 31 # 93 Make requested change to fix Souvignier, Tom Broadcom Comment Type TR Comment Status A EZ C/ 149 SC 149.4.2.4 It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. EZ C/ 149 SC 149.4.2.4 Souvignier, Tom Comment Type T Comment Type T Comment Type	deficiency in current of P143 Broadcom		# 95
Souvignier, Tom Broadcom Comment Type TR Comment Status A EZ Cl 149 SC 149.4.2.4 It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame. Souvignier, Tom Comment Type T Control	P143 Broadcom		# 95
It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be Souvignier, Tom changing after each PAM2 PHY training frame. Comment Type T Course	Broadcom	L 46	# 95
changing after each PAM2 PHY training frame. Comment Type T Con			
Comment type 1 Con			
Suggested Remedy	mment Status A		E
	AINING format octets		
Change this sentence from: "Each InfoField shall be transmitted at least 256 times" Capability Bits" as indicated in To: "InfoField shall be transmitted at least 256 times with each change to octets 7-10 to	n subclause 149.4.2.4.	.5 and Table 14	19-12
ensure detection at link partner."		140.00	
Response Response Status C Change "UsrCfgCap" to "PHY		gure 149–28	
ACCEPT IN PRINCIPLE.	ponse Status C		
ACCEPT IN PRINCIPLE.			
This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it This comment does not apply	to the substantive cha	anges between	IEEE P802.3ch
is not within the scope of the recirculation ballot. D2.0 and D2.1 or the unsatisf	ied negative comment		
is not within the scope of the r Make the suggested change to improve clarity.	recirculation dallot.		
Make suggested change to minimum starting starting to minimum starting to minimum starting to minimum starting starting to minimum starting s	move issue which cou	uld lead to comm	ments during SA ballot.

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

Field "MSG24" i figures 149-28 a SuggestedRemedy Remove Figure 12-octet InfoFiel Figure 149–28 a Response ACCEPT IN PR This comment d D2.0 and D2.1 c is not within the Make suggested C/ 45 SC 45 Graba, Jim	" in Figure 149- and Figure 14 e 149-27 and c ield shall includ and Figure 14 <i>Res</i> RINCIPLE. does not apply or the unsatist e scope of the	Broadcom mment Status A 27 not defined. Figure 9-29 for both PMA statu hange first sentence of e the fields in 149.4.2.4 9-29." ponse Status C r to the substantive cha- ied negative comment recirculation ballot. emove issue which cou P37	tes. of paragraph on p .4.2 through 149 anges between I ts from earlier ba uld lead to comm	page 143 line 30 to " .4.2.4.8, also shown IEEE P802.3ch allots. Hence it nents during SA ball	'The in	Suggested Chang docum Response ACCEF This cc D2.0 a is not v Make c P39 L1	Type E le 45-155c, o <i>Remedy</i> le all occurre lent. PT IN PRING omment doe ind D2.1 or t within the sc changes def 19 - change	change "Slow w nces of "Slow w <i>Respons</i> CIPLE. s not apply to th ne unsatisfied r ope of the recir ned below to m 'Slow wake" to	se Status C he substantive cha negative comment culation ballot. nake draft consiste	vake" into "Slow \ anges between II ts from earlier ba ent.	Wake" througout the EEE P802.3ch allots. Hence it
Field "MSG24" i figures 149-28 a SuggestedRemedy Remove Figure 12-octet InfoFiel Figure 149–28 a Response ACCEPT IN PR This comment d D2.0 and D2.1 c is not within the Make suggested C/ 45 SC 45 Graba, Jim	in Figure 149- and Figure 14 e 149-27 and c ield shall includ and Figure 14 <i>Res</i> RINCIPLE. does not apply or the unsatist e scope of the ed change to re	27 not defined. Figure 9-29 for both PMA state hange first sentence of e the fields in 149.4.2.4 9-29." ponse Status C to the substantive cha fied negative comment recirculation ballot.	tes. of paragraph on p .4.2 through 149 anges between I ts from earlier ba uld lead to comm	page 143 line 30 to " .4.2.4.8, also shown IEEE P802.3ch allots. Hence it nents during SA ball	n in 'The i in	In Tabl Suggested Chang docum Response ACCEF This cc D2.0 ai is not v Make c P39 L1	Ie 45-155c, o Remedy Je all occurrent nent. PT IN PRING omment doe ind D2.1 or t within the sc changes def 19 - change	change "Slow w nces of "Slow w <i>Respons</i> CIPLE. s not apply to th ne unsatisfied r ope of the recir ned below to m 'Slow wake" to	wake" to "Slow Wa wake" and "slow w se Status C he substantive cha negative comment culation ballot. nake draft consiste "Slow Wake"	vake" into "Slow \ anges between II ts from earlier ba ent.	Wake" througout the EEE P802.3ch allots. Hence it
figures 149-28 a SuggestedRemedy Remove Figure 12-octet InfoFiel Figure 149–28 a Response ACCEPT IN PR This comment d D2.0 and D2.1 c is not within the Make suggested C/ 45 SC 45 Graba, Jim	and Figure 14 (e 149-27 and c ield shall includ and Figure 14 Res RINCIPLE. does not apply or the unsatist e scope of the ed change to re	9-29 for both PMA state hange first sentence of e the fields in 149.4.2.4 9-29." ponse Status C to the substantive cha- ied negative comment- recirculation ballot.	tes. of paragraph on p .4.2 through 149 anges between I ts from earlier ba uld lead to comm	page 143 line 30 to " .4.2.4.8, also shown IEEE P802.3ch allots. Hence it nents during SA ball	'The in	Suggested Chang docum Response ACCEF This cc D2.0 a is not v Make c P39 L1	Remedy le all occurre lent. PT IN PRING omment doe ind D2.1 or t within the sc changes def 19 - change	nces of "Slow v <i>Respons</i> CIPLE. s not apply to the unsatisfied r ope of the recirr ned below to m 'Slow wake" to	wake" and "slow w se Status C he substantive cha negative comment culation ballot. nake draft consiste "Slow Wake"	vake" into "Slow \ anges between II ts from earlier ba ent.	Wake" througout the EEE P802.3ch allots. Hence it
SuggestedRemedy Remove Figure 12-octet InfoFiel Figure 149–28 a Response ACCEPT IN PR This comment d D2.0 and D2.1 c is not within the Make suggested C/ 45 SC 45 Graba, Jim	e 149-27 and c ield shall includ and Figure 14 <i>Res</i> RINCIPLE. does not apply or the unsatist e scope of the ed change to re	hange first sentence of e the fields in 149.4.2.4 9–29." ponse Status C to the substantive cha ied negative comment recirculation ballot.	of paragraph on p .4.2 through 149 anges between I ts from earlier ba uld lead to comm	.4.2.4.8, also shown IEEE P802.3ch allots. Hence it nents during SA balle	ı in	Changu docum <i>Response</i> ACCEF This cc D2.0 au is not v Make c P39 L1	e all occurre ient. PT IN PRING omment doe ind D2.1 or t within the sc changes def 19 - change	Respons CIPLE. Is not apply to the ope of the recire ned below to m 'Slow wake" to	se Status C he substantive cha negative comment culation ballot. nake draft consiste "Slow Wake"	anges between II ts from earlier ba ent.	EEE P802.3ch illots. Hence it
Remove Figure 12-octet InfoFiel Figure 149–28 a Response ACCEPT IN PR This comment d D2.0 and D2.1 c is not within the Make suggested C/ 45 SC 45 Graba, Jim	e 149-27 and c ield shall includ and Figure 14 <i>Res</i> RINCIPLE. does not apply or the unsatist e scope of the ed change to re	e the fields in 149.4.2.4 9–29." ponse Status C to the substantive cha ied negative comment recirculation ballot. emove issue which cou	4.2 through 149 anges between I ts from earlier ba uld lead to comm	.4.2.4.8, also shown IEEE P802.3ch allots. Hence it nents during SA balle	ı in	docum Response ACCEF This cc D2.0 ai is not v Make c P39 L1	ent. PT IN PRING omment doe ind D2.1 or t within the sc changes def 19 - change	Respons CIPLE. Is not apply to the ope of the recire ned below to m 'Slow wake" to	se Status C he substantive cha negative comment culation ballot. nake draft consiste "Slow Wake"	anges between II ts from earlier ba ent.	EEE P802.3ch illots. Hence it
Figure 149–28 a Response ACCEPT IN PR This comment d D2.0 and D2.1 c is not within the Make suggested C/ 45 SC 45 Graba, Jim	and Figure 14 <i>Res</i> RINCIPLE. does not apply or the unsatist e scope of the ed change to re	9–29." ponse Status C to the substantive cha ied negative comment recirculation ballot. emove issue which cou	anges between I ts from earlier ba uld lead to comm	IEEE P802.3ch allots. Hence it nents during SA ball		ACCEF This cc D2.0 ai is not v Make c P39 L1	omment doe Ind D2.1 or t within the sc changes def 19 - change	CIPLE. s not apply to the ne unsatisfied r ppe of the recirr ned below to m 'Slow wake" to	he substantive cha negative comment culation ballot. nake draft consiste "Slow Wake"	ts from earlier ba ent.	allots. Hence it
Response ACCEPT IN PR This comment d D2.0 and D2.1 c is not within the Make suggested C/ 45 SC 45 Graba, Jim	Res RINCIPLE. does not apply or the unsatist e scope of the ed change to re	ponse Status C to the substantive cha ied negative comment recirculation ballot.	ts from earlier ba	allots. Hence it nents during SA ball	ot	This cc D2.0 ar is not v Make c P39 L1	omment doe Ind D2.1 or t within the sc changes def 19 - change	s not apply to the ne unsatisfied r ope of the recir ned below to m 'Slow wake" to	negative comment culation ballot. nake draft consiste "Slow Wake"	ts from earlier ba ent.	allots. Hence it
This comment d D2.0 and D2.1 c is not within the Make suggested C/ 45 SC 45 Graba, Jim	does not apply or the unsatis e scope of the ed change to re	ied negative comment recirculation ballot. move issue which cou	ts from earlier ba	allots. Hence it nents during SA ball	ot.	D2.0 at is not v Make c P39 L1	nd D2.1 or t within the sc changes def 19 - change	ne unsatisfied r ope of the recir ned below to m 'Slow wake" to	negative comment culation ballot. nake draft consiste "Slow Wake"	ts from earlier ba ent.	allots. Hence it
Graba, Jim	5.2.1.193	P37	, -								
,			L 7	# 97		CI 45	SC 45.2.	1.195.1	P 40	L 41	# 99
Commont Tuno		Broadcom				Graba, Jim	i		Broadcom		
51		<i>mment Status</i> A y" should be "EEE abil	lity".		EZ	Comment 7 These	21		ent Status A nk partner via Info	field. The curren	it text is confusing.
SuggestedRemedy	/					Suggested	Remedy				
Change "EEE A	Ability" to "EEE	ability"							to the link partner		•
Response	Res	ponse Status C					. communica	,	partner via InfoFie	elds"	
ACCEPT IN PR	RINCIPLE.					Response		,	se Status C		
D2.0 and D2.1 c is not within the	or the unsatisties or the scope of the	to the substantive cha ied negative comment recirculation ballot. Ilow IEEE802.3 style.				This co D2.0 a	omment doe Ind D2.1 or t	s not apply to th	he substantive changes in the substantive comment comment culation ballot.		
	0	,				Make r	requested ch	ange to improv	/e clarity.		

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

		, ,		5		-	_ , _	_ ,		
C/ 149	SC 149.1.3.3	P78	L 27	# <u>1</u> 00	C/ 149	SC 1	49.1.3.4	P78	L 45	# <u>1</u> 02
Graba, Jim		Broadcom			Graba, Jin	ı		Broadcom		
Comment T	Туре Е	Comment Status A		EZ	Comment	Туре	т	Comment Status A		Synchronizatio
The las	st part of the sent	ence is missing?						in the sentences between lin		
Suggested	•	last part of contance from ."	to be last or"			e 97 as ti se 149).	he baselin	e, and apply the scaling fror	n 1 usec (Claus	se 97) to 1.25 usec
	to be lost or corr	last part of sentence from: ".	to be lost of		Suggested	lRemedy	,			
Response		Response Status C						from: "The MASTER PHY		
ACCE	PT.				there i seque	s no resp nce. If th	e slave de	n the SLAVE, the MASTER stects the sequence, it respo	nds with a synd	chronization sequence."
C/ 149	SC 149.1.3.3	P78	L33	# 101				sends a synchronization sec E, the MASTER repeats by		
Graba, Jim		Broadcom						e detects the sequence, it re		
Comment T	Туре Т	Comment Status R		Reject OOS				er the MASTER has stoppe		
PHY H	ealth status is on	ly available when the optiona	al OAM is enable	ed.	Response			Response Status C		
uggested	Remedy				ACCE	PT IN PF	RINCIPLE			
receive Response REJEC		Response Status C			happe	ns after t	the SLAVE	responds with a synchroniza E response then Link Synch arted, and the PHY Control	onization is su	ccessfully complete,
This co	omment does not	apply to the substantive cha	nges between IE	EEE P802.3ch	C/ 149	SC 1	49.3.2.2.3	P 93	L17	# <u>1</u> 03
		satisfied negative comments	s from earlier bal	llots. Hence it	Graba, Jin	า		Broadcom		
is not v	within the scope of	of the recirculation ballot.			Comment	Туре	Е	Comment Status A		E
		ly received when MultiGBAS	E-T1 OAM is en	abled, so making this	To be	consiste	nt, "TxB" s	should be "tx_coded" and "R	xB" should be '	'rx_coded".
	e would add redui	ndancy. ants this change, he is encou	read to require	ait this commont at SA	Suggested	Remedy	,			
ballot.			laged to resubli		where To "Th rx_coo	TxB<0> ne bits of	and RxB< a transmit > respecti	nsmitted or received block a 0> represent the first transm tted or received block are la vely where tx_coded<0> and	nitted bit." beled tx_coded	<64:0> and
					Response			Response Status C		
					ACCE	PT IN PF	RINCIPLE	•		
					D2.0 a	and D2.1	or the uns	apply to the substantive cha atisfied negative comments the recirculation ballot.		
					Mala	4			- :	

Make the requested change so the text matches the Figure.

P802 3ch D2 1

. 22.1 Physical Laver Specifications and Management Parameters for 2.5 Gb/s. 5 Gb/s. and 10 Gb/s Autom

Graba, Jim	SC 149.3.6.1	P 109	L 47	# <u>1</u> 04		C/ 149	SC	149.3.6.1	P110	L3	# <u>1</u> 06
		Broadcom				Graba, Jim			Broadcom		
Comment T	ype E	Comment Status A			EZ	Comment T	уре	т	Comment Status A		E
The wor PFC co	rding of this sen unter alignment	tence is confusing and redund can be found in 149.4.2.4.10	dant. A better s , page 147 line	pecification regar 26:	ding			U	e term "RS-FEC frame cou e count" is a continous cou		FC frames Dut in Tal
		entering the COUNTDOWN a rame to within +0/-4 × S (See)	149-5, i	it is us	sed to indica	ate the length of LPI signal		
partial F	PHY frames of the	ne MASTER as seen at the S	LAVE MDI. The	e SLAVE InfoField	d	Suggested		•	u		
	PHY frame Cour ned frame."	nt shall match the MASTER Ir	1foField partial	PHY frame Count	t for				the top row of the second c me periods".	column from "RS	-FEC frame count" to
- SuggestedF	Remedy					Response			Response Status C		
Replace	e the last two se	ntences: "For 10GBASE-T1, /–4, +0/–2, and +0/–1 partial				ACCEF	PT IN F	PRINCIPLE	Ξ.		
MASTE	R's PFC24." r the requiremer	nts on the SLAVE and the MA	·	,		D2.0 ar	nd D2.	1 or the un	apply to the substantive ch satisfied negative commen f the recirculation ballot.		
Response		Response Status C				Make th	ne sua	agested cha	ange to correct an error in t	he draft.	
ACCEP	T IN PRINCIPL	Ξ.							-		
This co	mment does not	apply to the substantive cha	nges hetween	FFF P802 3ch		C/ 149	SC	149.3.6.2	P111	L3	# 107
		nsatisfied negative comments				Graba, Jim			Broadcom		
is not w	ithin the scope of	of the recirculation ballot.				Comment T		т	Comment Status A		E
Make th	ne suaaested ch	ange to eliminate redundant	specifications in	n the draft.		It is not	clear	what it mea	ans by "the transmitter sha	III stop transmittir	ng".
		-	·			Suggested		•			
C/ 149	SC 149.3.6.1	P109	L 52	# 105		Change	e the s	sentence fro	om: "During the quiet period	d the transmitter	shall stop transmitting
Graba, Jim Comment T	ype T	Broadcom Comment Status A			EEE				riod the PCS transmitter sh st interface."	nall pass zeros to	o the PMA via the
The form	mula may result	in non-integer output for the l	RS-FEC frame	count.		Response			Response Status C		
SuggestedF	Remedy					ACCEF	T IN F	PRINCIPLE	E.		
Change	the formula to:	" RS-FEC frame count = floo	or (PFC24 / 4) r	nod 96."		This sec					
Response		Response Status C							apply to the substantive ch satisfied negative commen		
	T IN PRINCIPL	<u></u>							f the recirculation ballot.		
		apply to the substantive char nsatisfied negative comments	nges between k s from earlier ba	EEE P802.3ch allots. Hence it		Make th	ne sug	gested cha	ange to correct an error in t	he draft.	
ACCEP This cor D2.0 an	d D2.1 or the ur	of the recirculation ballot.									
ACCEP This cor D2.0 an is not w	d D2.1 or the ur ithin the scope o	of the recirculation ballot. ange to correct an error in the	∍ draft.								
ACCEP This cor D2.0 an is not w	d D2.1 or the ur ithin the scope o	of the recirculation ballot.	ə draft.								
ACCEP This cor D2.0 an is not w	d D2.1 or the ur ithin the scope o	of the recirculation ballot.	ə draft.								

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

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

	P111	L8	# <u>1</u> 08		C/ 149	30	149.3.6.3	P111	L11	# <u>1</u> 10
iraba, Jim	Broadcom				Graba, Jim			Broadcom		
• •	nment Status A			EEE	Comment T		Е	Comment Status A		EEI
The "side-stream scrambler" is	s in the PCS, not in the	e PMA.						ing sequence described in rs free-running from PCS F		
uggestedRemedy					informa					ig and adds no new
Delete "PMA" from this senten	ce.				SuggestedF	Remea	dy			
	oonse Status C				Delete t	this se	entence.			
ACCEPT IN PRINCIPLE.					Response			Response Status C		
This comment does not apply					ACCEP	T IN F	PRINCIPLE			
D2.0 and D2.1 or the unsatisfie is not within the scope of the re		from earlier ba	llots. Hence it		This co	mmen	nt does not	apply to the substantive ch	anges between l	FFF P802 3ch
					D2.0 an	nd D2.	1 or the un	satisfied negative comment		
Make the suggested change to	o correct an error in the	e draft.			is not w	ithin th	he scope o	f the recirculation ballot.		
149 SC 149.3.6.3	P111	L 9	# 109		Make th	ne follo	owing chan	ge to correct an error in the	draft.	
raba, Jim	Broadcom				change	"Two		refresh symbols are gener	ated using the P	MA side-stream
omment Type T Con	nment Status A			EEE				escribed in 149.3.4 and exa		
Mention of Infofield is distracting					fofield consists of a sequen					
uggestedRemedy								is XORed with the last 10 escribed in 149.3.4 shall be		
Remove " with the exception the	nat the				scramb	lers fre	ee-running	from PCS Reset. "	-	
Infofield consists of a sequenc	e of 128 zeros".							sh symbols are generated fi in 149.3.5, with the except		
	oonse Status C				The 10-	bit OA	AM symbol	to be transmitted is XORed		
ACCEPT IN PRINCIPLE.					refresh	transr	mission."			
This comment does not apply					C/ 149	SC	149.3.7.3	P116	L 50	# 111
D2.0 and D2.1 or the unsatisfient is not within the scope of the re		from earlier ba	llots. Hence it		Graba, Jim			Broadcom		
	sonoulation bandt.				Comment T	ype	т	Comment Status A		E.
Make the following change to o	correct an error in the o	draft.			The RF	ER M	onitor state	monitors the RS-FEC fram	e error ratio.	
change "Two-level PAM refree	sh symbols are genera	ted using the P	MA side-stream		SuggestedF	Remea	dy			
scrambler polynomials describ				1 with				ors the received signal for h		
the exception that the Infofield symbol to be transmitted is XC				sion.		monite	ors the rece	eived signal for high RS-FE	C frame error rat	lio."
The training sequence describ	ed in 149.3.4 shall be				Response	-		Response Status C		
scramblers free-running from F to "Two-level PAM refresh sym		om the T in mar	oping defined in		ACCEP	TINF	PRINCIPLE			
	9.3.5, with the exception	on that the Infof	ield consists of ze					apply to the substantive cha		
			LAN SALE DAMO		D2 0 an	D2	1 or the un	satisfied negative comment	a from oarliar ba	11 - 4 - 11
The 10-bit OAM symbol to be	transmitted is XORed	with the last 10	bits of the PAIVI2							lliots. Hence It
	transmitted is XORed	with the last 10	Dits of the PAM2					f the recirculation ballot.	s nom eanler ba	liots. Hence It

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

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02.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

/ 149 SC 149.3.7.3	P117	L 1	# <u>1</u> 12		C/ 149	SC 1	149.3.8.1	P117	L 45	# 114
iraba, Jim	Broadcom				Graba, Jim			Broadcom		
comment Type E Cor	mment Status A			EZ	Comment T	Гуре	т	Comment Status A		E
"65B-RS_FEC" should be "65	B RS-FEC".									D_WAKE". In Figure 149
uggestedRemedy					20, the Figure			E, but no SEND_LPI. T	he text should refe	er to the correct states in
Change "65B-RS_FEC" to "65	B RS-FEC".				0					
esponse Res	ponse Status C				Suggested	-		to "TX L".		
ACCEPT IN PRINCIPLE.					2. Cha	nge "SE	END WAK	E" to "TX_WN". 6" to "Figure "149-17".		
This comment does not apply					Response			Response Status C		
D2.0 and D2.1 or the unsatisfi is not within the scope of the r		s from earlier ba	allots. Hence it		-	PT IN P	RINCIPLE	, 		
Make requested change to fix	typo.							apply to the substantive satisfied negative comm		
/ 149 SC 149.3.8.1	P117	L 40	# 113					f the recirculation ballot.		
iraba, Jim	Broadcom				Make s	uggest	ed change	es to fix errors in the dra	t.	
51	nment Status A			ΕZ	C/ 149	SC 4	149.4.2.6.4	P 151	L25	# 115
In Figure 149-18, there are no	states named "RECE	IVE_LPI" or "R	ECEIVE_WAKE".				149.4.2.0.4		L 2 3	# 115
uggestedRemedy					Edem, Bria		_	Aquantia		
1. Change "RECEIVE_LPI" to					Comment 7		E	Comment Status A		E
2. Change "RECEIVE_WAKE 3. Change "Figure 149-18" to					-			from SIGDET_WAIT to	SILENI_WAII th	e condition is misspelled
0 0	0				Suggested	Remed	У			
	oonse Status C				Change	e send_	_s_sidget 1	o send_s_sigdet		
ACCEPT IN PRINCIPLE.					Response			Response Status C		
This comment does not apply D2.0 and D2.1 or the unsatisfi					ACCEF	PT IN P	RINCIPLE			
is not within the scope of the r								apply to the substantive satisfied negative comm		
Make suggested changes to f	ix errors in the draft.							f the recirculation ballot.		
					Make s	uggest	ed change	e to fix typo.		

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149	SC 149.3.2.2.3	P 94	L 7	# <u>1</u> 16	Ci	/ 45	SC 45.2.1	
Edem, Bria	in	Aquantia			Zi	immerman	, George	
Comment	Туре Е	Comment Status A			EZ Co	omment Ty	/pe E	Comment
		arrows from the "Input to de rawing should be pointing u				for these	e registers, in	" and "Link Pa the context of
Suggested Revers	<i>Remedy</i> se the arrows					name to	"MultiGBAS	look like gener E-T1 PHY veno . Note also caj
Response		Response Status C				name	•	
ACCEI	PT.				S	uggestedR	emedy	
						Change	as per comm	nent. Also chai
C/ 00	SC O	P10	L 47	# 117	R	esponse		Response
Zimmerma	n, George	CME Consulti	ng/ADI, APL G	o, Aquantia, BMW, 0	Cisco	ACCEP	T IN PRINCIF	PLE.
Comment	Туре Е	Comment Status A			EZ			
		dments missing from the fro				Resolve	d by the resp	onse to comm
802.3c well.	m) which are now	in SA ballot. 802.3cn is no	w Amendment	four, before 802.3cc	l, as	In Table	45-3:	
	Densedu							register 1.2316
Suggested	•					45.2.1.1 Change		register 1.2317
	missing amendme	nts in correct order in front	natter				se 45.2.1.200	
Response		Response Status C				In 45.2.1		
ACCE	PT.							lultiGBASE-T1
	00 44 4 2	D00	/ 50	# 440				The assignmen able 45–155f.
C/ 44	SC 44.1.3	P28	L 50	# 118		scope of	f this standar	
Zimmerma			ng/ADI, APL Gp	o, Aquantia, BMW, 0			45-155f:	
Comment	51	Comment Status D			EZ			/ultiGBASE-T [^] : "MultiGBASE
asteris	k looks like a gene	IS OPTIONAL should read eral comment on auto-negot					the Descripti	on to: "16 bits
	ASE-T1 stack						he last row of	
Suggested	,					Change In 45.2.2		"R/W = Read/
add "F	OR 10GBASE-T1"	after "AUTO-NEGOTIATIC	IS OPTIONA	AL"				PHY vendor sp
Proposed I	Response	Response Status Z				Change	text to: "Bits	1.2316.15:0 c
REJEC	CT.					Delete 4	5.2.1.199.2	nk partner durir
This co	omment was WITH	IDRAWN by the commente	r.			"45.2.1.2	a new level 4 200 MultiGBA	subclause: \SE-T1 link pai
						text: "The asy	signment of h	its for the Mult
							n Table 45–1	55g. The value
								g with title "Mul

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

				1
-5	SC 45.2.1	P32	L 30	# 119
nerm	an, George	CME Consul	ting/ADI, APL G	p, Aquantia, BMW, Cisco
	Туре Е	Comment Status A	0	Vendor
for the T1. A name	ese registers, in tl s labeled, they lo to "MultiGBASE- or specific data"	and "Link Partner vendor sp ne context of clause 45. The ok like general registers for T1 PHY vendor specific data Note also capitalization and	ese registers are ANY 802.3 PHY a" and "MultiGB/	specific to MultiGBASE-
geste	dRemedy			
Chan	ge as per comme	nt. Also change names in 4	5.2.1.199 and ta	able 45-155f
oonse		Response Status C		
ACCE	PT IN PRINCIPL	E.		
Resol	ved by the respo	nse to comment 1, copied be	elow.	
	ble 45-3:	nintor 1 0216 to "MultiCDAC		ad data" in autolous-
Cnan 45.2.1		gister 1.2316 to "MultiGBAS	s⊏-i i user aetin	eu uata in sudciause
subcla	ge the name of re ause 45.2.1.200 2.1.199:	gister 1.2317 to "MultiGBAS	E-T1 link partne	er user defined data" in
Chan Chan regist scope	ge the title to "Mu ge the text to: "Th	ltiGBASE-T1 user defined d e assignment of bits for the ble 45–155f. The values of tl "	MultiGBASE-T1	user defined data
Chan	ge the title to: "Mu	ultiGBASE-T1 user defined of		definitions"
	ge the Description	MultiGBASE-T1 user define to: "16 bits of vendor speci		PHY sends to its link
Delete Chan	e the last row of t	ne table. R/W = Read/Write"		
Chan Chan comm	ge the title to: "PH ge text to: "Bits 1	Y vendor specific data (1.23 .2316.15:0 contain vendor s partner during training."		t the PHY may
	e a new level 4 su 1.200 MultiGBAS	ıbclause: E-T1 link partner user define	ed data register	(Register 1.2317)" with
"The a	n in Table 45–155	s for the MultiGBASE-T1 link ig. The values of the bits in t		
		with title "MultiGBASE-T1 lin	ik partner user d	lefined data register bit

ultiGBASE-T1 link partner user defined data register bit entry for 1.2317.15:0 is "Link partner PHY vendor specific

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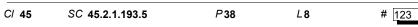
D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

		bits of vendor specific data and footnote a is "RO = Re		receive from its link	C/ 45	SC 45.2.1	.193.5	P 38	L 8	# <u>1</u> 22
Create	e a new level 5 su	bclause:	-		Zimmern	ian, George		CME Consul	lting/ADI, APL G	Sp, Aquantia, BMW, Cisco
		er PHY vendor specific dat dor specific data that the P			Commen	t Type ER	Comm	ent Status A		Precoder
during	SC 45.2.1	P 32	L 29	# [120 Aquantia, BMW, Cisco	the t lang	able (Actual pre lage (comment	coder reques PRECD1) is	sted" - suggest the	e table is more a pted in principle	as the name of the bit in appropriate. (If the larger e, this comment should
Comment	-	Comment Status A	ung/ADI, AFL Op,	EZ	Suggeste	dRemedy				
	51	- Minimum should not be d	anitalized (it isn't t		Char	ige "Actual pred	coder selecte	d" to "Actual prec	oder requested"	'.
acrony	•				Respons	е	Respon	se Status C		
Suggested	dRemedy				ACC	EPT IN PRINC	IPLE.			
Chang	ge Minimum to mi	nimum.			Cha	ige per comme	nt #123			
Response	,	Response Status C			Char	ige the title of 4	5.2.1.193.5 f	rom "Actual preco	oder selected (1.	.2310.4:3)" to:
ACCE	PT IN PRINCIPLE				"Pre	codeSel (1.2310).4:3)"			
D2.0 a is not	and D2.1 or the ur within the scope c	apply to the substantive ch satisfied negative comment of the recirculation ballot.	its from earlier ball							
C/ 45	SC 45.2.1.7.5	P33	L 3	# 121						
Zimmerma	an, George	CME Consul	ting/ADI, APL Gp,	Aquantia, BMW, Cisco						
Comment PHY r	••	Comment Status A break across lines.		EZ						
Suggested	dRemedy									
instan		ables 45-9 and 45-10 and u s way no matter what happ								
Response	,	Response Status C								
-										

ACCEPT.

Comment ID 122

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom



Zimmerman, Geo	rge	CME Consulting/ADI, AP	L Gp, Aquantia, BMW, Cisco
Comment Type	TR	Comment Status A	Precoder

(Comment PRECD1) The language of "Actual precoder requested" or "selected" is all messed up and confusing. Which precoder paramters relate to the local transmitter and which to the request of the link partner's transmitter is not consistent. The "Link partner" ones are all clear, leaving me to think that it is just the local PHY's REQUEST, which is meant here.

SuggestedRemedy

Make the following changes:

Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" Page 38 line 8 (45.2.1.193.5 header) change "Actual precoder selected" to "PrecodeSel", and replace text of 45.2.1.193.5 (P38 lines 10-12) to read as follows:

"Bits 1.2310.4:3 contain the requested precoder setting communicated by the PHY to the link partner via Infofields in the PrecodeSel field (see 149.4.2.4.4)."

Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "Precoder Selection", and replace text (P38 lines 47-48) to read as follows:

"When 1.2311.5 is set as a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel, and when set to a zero the PHY controls the value of PrecodeSel. PrecodeSel is the desired precoder setting communicated to the link partner via Infofields specified in 149.4.2.4.4."

Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows:

When bit 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via Infofields in the PrecodeSel field (see 149.4.2.4.4).

Response

Response Status C

ACCEPT IN PRINCIPLE.

Make the following changes:

Page 37 line 21 (Table 45-155b) change "Actual precoder requested" to "PrecodeSel" Page 38 line 8 (45.2.1.193.5 header) change "Actual precoder selected" to "PrecodeSel", and replace text of 45.2.1.193.5 (P38 lines 10-12) to read as follows: "Bits 1.2310.4:3 contain the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)."

Page 39 line 15 (Table 45-155c) and Page 38 line 45 (45.2.1.194.2 header) change "Precoder request override" to "Precoder Selection", and replace text (P38 lines 47-48) to read as follows:

"When 1.2311.5 is set to a one, the PHY shall use 1.2311.3:2 for the value of PrecodeSel, and when set to a zero the PHY controls the value of PrecodeSel. PrecodeSel is the desired precoder setting communicated to the link partner via the Infofield specified in

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

149.4.2.4.4."

Page 39 line 23 (Table 45-155c) and Page 39 line 37 (45.2.1.194.4 header) change "Precoder requested" to "User precoder selection", and replace text (P39 lines 38-39) to read as follows:

"When 1.2311.5 is a one, bits 1.2311.3:2 are the requested precoder setting communicated by the PHY to the link partner via the PrecodeSel bits in the Infofield (see 149.4.2.4.4)."

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 45	SC 45.2.1.192	P35	L 41	# <u>1</u> 24
Zimmerman	, George	CME Consulti	ng/ADI, APL Gp,	Aquantia, BMW, Cisco
Comment Ty	vpe T	Comment Status A		Precoder

 Comment Type
 T
 Comment Status
 A
 Precode

 the changes to allow the user to set precoder selection and the reporting of the link monitor's precoder request have made these registers confusing and duplicate. They are now better delegated to just control the test mode precoder forcing, since the user can force his precoder from the remote device. For testing purposes, an override control could be put in the test mode register as well, but in no normal operation case would you want the control register to modify the precoder (either you do it by link partner request determined by the PHY or by the link partner registers forcing a configuration).

Also, nowhere do we link PrecodeSel to the precoder setting with a requirement (shall).

SuggestedRemedy

Delete row for 1.2309.10:9 from Table 45-155a (page 35 lines 40-44)

Change reserved row in Table 45-155a (page 35 line 45) from 1.2309.8:0 to 1.2309.10:0

Delete page 36 lines 40-48, subclause 149.2.1.192.4 and renumber.

On page 41 line 33, Change Reserved row to be : 1.2313.12 | Reserved | Value always 0 | RO

and insert three new rows below the new reserved row:

- 1.2313.11 |Local transmitter precoder override | 0 = Normal Operation
- 1 = User Overrride | R/W

1.2313.10:9 | Local transmit precoder setting | 00 = transmit with no precoder

01 = transmit with 1-D precoder

10 = transmit with 1+D precoder

11 = transmit with 1-D2 precoder | R/W

1.2313.8:2 | Reserved | Value always 0 | RO

On page 41 line 47, add new subclauses after 45.2.1.196.1 and renumber appropriately:

45.2.1.196.2 Local transmitter precoder override (1.2313.11)

When bit 1.2313.11 is set to one, the local transmitter's precoder shall be controlled by the value of bits 1.2313.10:9, and the precoder requested by the link partner in PrecodeSel shall be ignored. When bit 1.2313.11 is set to zero, the transmitter shall ignore the bits 1.2313.10:9, and the precoder is set according to the value of PrecodeSel received from the link partner as specified in 149.3.2.2.20. The default value of 1.2313.11 is zero.

45.2.1.196.3 Local transmit precoder setting (1.2313.10:9)

When bit 1.2313.11 is set to one, bits 1.2313.10:9 control the precoder setting of the local transmitter, as defined in 149.3.2.2.20 in the variable precoder_type. For testing purposes, the precoder can be set using these bits, and the specified test can be carried out in by using these bits, bit 1.2313.11, and enabling test mode 3. During normal operation, bit 1.2313.11 is set to zero, and the precoder is set according to the value of PrecodeSel received from the link partner, and bits 1.2313.10:9 are ignored.

Add PICS items MM232 and MM233(editorial license to number and position appropriately):

(Feature | Subclause | Value/comment | Status | Support) When bit 1.2313.11 is set to one, the value in bits 1.2313.10:9 control the local transmitter's precoder | 45.2.1.196.2 | | M | Yes[] No[] When bit 1.2313.11 is set to zero, the value in bits 1.2313.10:9 are ignored and the link partner's request controls the local transmitter's precoder | 45.2.1.196.2 | M | Yes [] No []

On page 102 line 27 (149.3.2.2.20), change "The precoder_type is determined by the PCS decoding two bits in InfoField messages received from the remote PHY during training as:" to: "In normal operation (see 45.2.1.196.3) the value of precoder_type shall be set to the value of PrecodeSel received from the link partner in the InfoField messages (see 149.4.2.4.5):"

(this PICS is already covered by PCT21)

Response Response Status C

ACCEPT IN PRINCIPLE.

The following response has minor editorial corrections to the Suggested Remedy.

Delete row for 1.2309.10:9 from Table 45-155a (page 35 lines 40-44)

Change reserved row in Table 45-155a (page 35 line 45) from 1.2309.8:0 to 1.2309.10:0

Delete page 36 lines 40-48, subclause 149.2.1.192.4 and renumber.

On page 41 line 33, Change Reserved row to be : 1.2313.12 | Reserved | Value always 0 | RO

and insert three new rows below the new reserved row:

- 1.2313.11 |Local transmitter precoder override | 0 = Normal Operation
- 1 = User Overrride | R/W
- 1.2313.10:9 | Local transmit precoder setting | 00 = transmit with no precoder
- 01 = transmit with 1-D precoder
- 10 = transmit with 1+D precoder
- 11 = transmit with 1-D2 precoder | R/W
- 1.2313.8:2 | Reserved | Value always 0 | RO

On page 41 line 47, add new subclauses after 45.2.1.196.1 and renumber appropriately:

45.2.1.196.2 Local transmitter precoder override (1.2313.11)

When bit 1.2313.11 is set to one, the local transmitter's precoder shall be controlled by the value of bits 1.2313.10:9, and the precoder requested by the link partner in PrecodeSel shall be ignored. When bit 1.2313.11 is set to zero, the transmitter shall ignore bits 1.2313.10:9, and the precoder is set according to the value of PrecodeSel received from the link partner as specified in 149.3.2.2.20. The default value of 1.2313.11 is zero.

45.2.1.196.3 Local transmit precoder setting (1.2313.10:9)

When bit 1.2313.11 is set to one, bits 1.2313.10.9 control the precoder setting of the local transmitter, as defined in 149.3.2.2.20 in the variable precoder_type. For testing purposes, the precoder can be set using these bits, and the specified test can be carried out by using these bits, bit 1.2313.11, and enabling test mode 3. During normal operation, bit 1.2313.11 is set to zero, and the precoder is set according to the value of PrecodeSel received from

Comment ID 124

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

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D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

the link partner, and bits 1.2313.10:9 are ignored.

Add PICS items MM232 and MM233(editorial license to number and position appropriately): (Feature | Subclause | Value/comment | Status | Support) When bit 1.2313.11 is set to one, the value in bits 1.2313.10:9 control the local transmitter's precoder | 45.2.1.196.2 | | M | Yes[] No[] When bit 1.2313.11 is set to zero, the value in bits 1.2313.10:9 are ignored and the link partner's request controls the local transmitter's precoder | 45.2.1.196.2 | M | Yes [] No []

On page 102 line 27 (149.3.2.2.20), change "The precoder_type is determined by the PCS decoding two bits in InfoField messages received from the remote PHY during training as:" to: "In normal operation (see 45.2.1.196.3) the value of precoder_type shall be set to the value of PrecodeSel received from the link partner in the InfoField messages (see 149.4.2.4.5):"

(this PICS is already covered by PCT21)

C/ 45 S	SC 45.2.1.19	94.5 P 39	L 45	# 125
Zimmerman, 0	George	CME Consult	ting/ADI, APL Gp,	, Aquantia, BMW, Cisco
Comment Typ	e TR	Comment Status A		Registers

"This bit shall be set" puts a requirement on the user and is inappropriate for a read/write bit. Reverse the changes from d2.0 in 45.2.1.194.5, 45.2.1.194.6 (note that this language is appropriate for RO registers but not for situations where the MDIO is supposed to write the value into the register, like the ones cited).

SuggestedRemedy

Change "shall be set" to "should be set" on page 39 line 45 and on page 39 line 52,

Response Response Status C

ACCEPT IN PRINCIPLE.

P39 L43 Replace the existing paragraph with:

Support for MultiGBASE-T1 OAM capability shall be advertised if this bit is set to one. Support for MultiGBASE-T1 OAM capability shall not be advertised if this bit is set to zero. Support for MultGBASE-T1 OAM capability should only be advertised if it is supported by the PHY.

And P39 L50 Replace the existing paragraph with:

Support for EEE capability shall be advertised if this bit is set to one. Support for EEE capability shall not be advertised if this bit is set to zero. Support for EEE operation should only be advertised if it is supported by the PHY.

And MM227 Replace the text in the "Feature" column with: Advertisement of support for MultiGBASE-T1 OAM; and in the "Value/Comment" column put: Support is advertised if bit 1.2311.1 is set to one, and not advertised if bit 1.2311.1 is set to zero

And MM228 Replace the text in the "Feature" column with: Advertisement of support for MultiGBASE-T1 EEE; and in the "Value/Comment" column put: Support is advertised if bit 1.2311.0 is set to one, and not advertised if bit 1.2311.0 is set to zero

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 45	SC 45.2.3.72	2 +	^o 43	L 42	# 126		C/ 149	SC	149.3.9		P125	L12	# <u>1</u> 27	
Zimmerman	n, George	CM	IE Consultir	ng/ADI, APL Gp	, Aquantia, BMW	, Cisco	Zimmerma	n, Geo	rge		CME Cons	ulting/ADI, APL O	Sp, Aquantia, BM	W, Cisco
Comment T	ype ER	Comment State	us A			OAM	Comment	Туре	TR	Comment	Status A			OAN
Table 4	5-241 bit 3.230	8.15 description ar	nd 45.2.3.71	.1 contain a trip	licate shalls to th	ie one	There	is no re	quiremen	t for the OAN	l state diagra	ms.		
		am (45.2.3.72.1 al machine' inapprop					Suggested	Remed	ly					
the state This is s request Another associa	e diagram. similar to the cl 1327 and I pla r comment fixe ited with them.	nanges in the receir n to submit it as a s the defect that the This defect is also	ve register maintenanc e OAM state in clause 9	45-243, subject e request. e diagrams don' 7 and makes th	of maintenance t have shall's	-	behavi new fir	or shall st PICS liagram	l conform 5 item to 1	to the state d 149.11.4.2.8 (liagrams in F DAM:	gure 149-24 and	AM is implement Figure 149-25." nd 149-25 OAM	Add
		there are NO PICS	in clause 9	7 for OAM			Response			Response	Status C			
SuggestedF	-						ACCE	PT IN F	PRINCIPL	E.				
from: "T	This bit shall se	ge the second sen If clear when regist when register 3.23	er 3.2317 is	read."	3.15		D2.0 a	nd D2.	1 or the u		ative comme	changes betweer ents from earlier l	IEEE P802.3ch ballots. Hence it	
and on		"shall be set to one "This register sha "					Makes	suggest	ted chang	jes to clarify r	equirement v	/hen OAM is imp		
Response		Response Statu	is C				C/ 125	SC	125.1		P 71	L 46	# 128	
•	T IN PRINCIPI	,					Zimmerma	n, Geo	rge		CME Cons	ulting/ADI, APL G	Sp, Aquantia, BM	W, Cisco
							Comment	Туре	TR	Comment	Status D			EZ
		his register shall be clear when register			17 is read.			2 - AU T1 PH		OTIATION IS	OPTIONAL'	Auto-Negotiation	n is only optional	for the
		gister 3.2313.15 sh		0			<i>Suggested</i> Add "F		-	HYs" after "Al	JTO-NEGOT	IATION IS OPTI	ONAL"	
Bring in 3.2317		and change "Featu	re": Registe	r 3.2313 is clea	red when registe	r	Proposed I	Respon	ise	Response	Status Z			
		clears when registe	er 3.2317 is	read.			, REJEC	•						
Bring in	PICS RM135	and RM136 and "de	elete" them.				This co	ommen	t was WIT	THDRAWN by	y the comme	nter.		
		is bit shall self-clea when registers are												
	9 - Change: This bit self-clears	his register shall be to indicate …	cleared by	the state machi	ne to indicate									
	PICS RM125,													

Comment ID 128

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149	SC 149.1.3.1	PT	77	L 44	# <u>1</u> 29
Zimmerma	an, George	CME	Consultin	g/ADI, APL Gp	, Aquantia, BMW, Cisc
Comment	Type E	Comment Status	5 A		E
		ere the interleaving 2.2.16, where it was			the scrambler is. The
Suggested			in the pre	vious urait	
	•	149.3.2.2.18 to 149	.3.2.2.16		
Response	-	Response Status			
ACCE	PT.				
C/ 149	SC 149.1.3.3	P	78	L 27	# 130
Zimmerma	an, George	CME	Consultin	g/ADI, APL Gp	, Aquantia, BMW, Cisc
Comment	Туре Т	Comment Status	3 A		EE
		n LPI mode shall no and an untestable s		ny MAC frames	s to be lost or" is a
Suggested	dRemedy				
		nt, or change it to re mes to be lost or co		transition to or	from LPI mode should
Response	1	Response Status	С		
ACCE	EPT IN PRINCIPLE	Ξ.			
	ne transition to or t				C frames to be lost or MAC frames to be lost
To: Th or cor	luptou.				
	SC 149.3.2.2	PS	 91	L12	# 131
or cor C/ 149					# 131 , Aquantia, BMW, Cisc
or cor C/ 149	SC 149.3.2.2 an, George		Consultin		
or corr Cl 149 Zimmerma Comment "The s	SC 149.3.2.2 an, George <i>Type</i> E subsequent function	CME Comment Status	Consultin A nsmit proc	g/ADI, APL Gp ess" is meaning	, Aquantia, BMW, Cisc E
or corr Cl 149 Zimmerma Comment "The s	SC 149.3.2.2 an, George <i>Type</i> E subsequent function ding text no longer	CME Comment Status	Consultin A nsmit proc	g/ADI, APL Gp ess" is meaning	, Aquantia, BMW, Cisc E
or con Cl 149 Zimmerma Comment "The s preces Suggested Chang	SC 149.3.2.2 an, George Type E subsequent function ding text no longer dRemedy ge "The subseque	CME Comment Status ons of the PCS Tran r talks about the ge nt functions of the P	Consultin Ansmit proc neration o	g/ADI, APL Gp ess" is meaning f 65B blocks. smit process" to	, Aquantia, BMW, Cisc E
or con Cl 149 Zimmerma Comment "The s preces Suggested Chang	SC 149.3.2.2 an, George Type E subsequent function ding text no longer dRemedy ge "The subseque I transfers to 64B/	CME Comment Status ons of the PCS Tran r talks about the ge nt functions of the P	Consultin A nsmit proc neration o PCS Trans psequent f	g/ADI, APL Gp ess" is meaning f 65B blocks. smit process" to	, Aquantia, BMW, Cisc E gless, because the "After mapping the

		P 91	L13	# <u>1</u> 32
Zimmermar	n, George	CME Consul	ting/ADI, APL Gp,	, Aquantia, BMW, Cisc
Comment T Typo: F	•••	Comment Status A		Ε
SuggestedF Change	Remedy e "RS-FE" to "R	S-FEC"		
Response ACCEF	PT.	Response Status C		
C/ 149	SC 149.3.2.2	.19 <i>P</i> 101	L 53	# 133
Zimmermar	n, George	CME Consul	ting/ADI, APL Gp,	, Aquantia, BMW, Cisc
Comment T	ype E	Comment Status A		E
	comma on par first is converte	enthetical phrase: "Each pai ed to"	r of bits, {A, B}, w	here A is the bit
	Jamadu			
SuggestedF	kernedy			
change	"Each pair of b	its, {A, B}, where A is the bit re A is the bit arriving first, is		onverted to" to "Each
change pair of t <i>Response</i> ACCEF This co	"Each pair of b pits, {A, B}, whe PT IN PRINCIPL mment does no	re A is the bit arriving first, is <i>Response Status</i> C E. t apply to the substantive ch	s converted to" anges between IE	EEE P802.3ch
change pair of t <i>Response</i> ACCEF This co D2.0 ar	"Each pair of b pits, {A, B}, whe PT IN PRINCIPL mment does no id D2.1 or the u	re A is the bit arriving first, is <i>Response Status</i> C E.	s converted to" anges between IE	EEE P802.3ch
change pair of I <i>Response</i> ACCEF This co D2.0 ar is not w	"Each pair of b poits, {A, B}, whe PT IN PRINCIPL mment does no ad D2.1 or the u vithin the scope	re A is the bit arriving first, is <i>Response Status</i> C E. t apply to the substantive ch nsatisfied negative commen	s converted to" anges between IE	EEE P802.3ch
change pair of t <i>Response</i> ACCEF This co D2.0 ar is not w Make th	"Each pair of b poits, {A, B}, whe PT IN PRINCIPL mment does no ind D2.1 or the u vithin the scope	re A is the bit arriving first, is <i>Response Status</i> C E. t apply to the substantive ch nsatisfied negative commen of the recirculation ballot. ange to improve readability.	s converted to" anges between IE	EEE P802.3ch
change pair of t Response ACCEF This co D2.0 ar is not w Make th C/ 149	"Each pair of b bits, {A, B}, whe PT IN PRINCIPL mment does no id D2.1 or the u ithin the scope ne requested ch SC 149.3.2.3	re A is the bit arriving first, is Response Status C E. t apply to the substantive ch nsatisfied negative commen of the recirculation ballot. ange to improve readability. P105	anges between IE ts from earlier bal	EEE P802.3ch llots. Hence it
change pair of t Response ACCEF This co D2.0 ar is not w Make th C/ 149 Zimmermar	"Each pair of b bits, {A, B}, whe PT IN PRINCIPL mment does no ad D2.1 or the u vithin the scope ne requested ch SC 149.3.2.3 n, George	re A is the bit arriving first, is Response Status C E. t apply to the substantive ch nsatisfied negative commen of the recirculation ballot. ange to improve readability. P105	anges between IE ts from earlier bal	EEE P802.3ch llots. Hence it # 134
change pair of t Response ACCEF This co D2.0 ar is not w Make th C/ 149 Zimmermar Comment T "and su	"Each pair of b bits, {A, B}, whe PT IN PRINCIPL mment does no ad D2.1 or the u within the scope ne requested ch SC 149.3.2.3 n, George type T bject to the timi 46.1.7 is the m	re A is the bit arriving first, is Response Status C E. t apply to the substantive ch nsatisfied negative commen of the recirculation ballot. ange to improve readability. P105 CME Consul	s converted to" anges between If ts from earlier bal <i>L</i> 15 ting/ADI, APL Gp, there are no timin	EEE P802.3ch llots. Hence it # <u>134</u> , Aquantia, BMW, Cisc <i>B</i> ng requirements in
pair of t Response ACCEF This co D2.0 ar is not w Make th C/ 149 Zimmermar Comment T "and su 46.1.7. transitic SuggestedF	"Each pair of b bits, {A, B}, whe PT IN PRINCIPL mment does no ad D2.1 or the u ithin the scope he requested ch <i>SC</i> 149.3.2.3 h, George <i>Type</i> T bject to the timi 46.1.7 is the mon?	re A is the bit arriving first, is Response Status C E. t apply to the substantive ch nsatisfied negative commen of the recirculation ballot. ange to improve readability. P105 CME Consul Comment Status A ng requirements of 46.1.7" - apping of primitives. Do you	s converted to" anges between If ts from earlier bal <i>L</i> 15 ting/ADI, APL Gp, there are no timin	EEE P802.3ch llots. Hence it # <u>134</u> , Aquantia, BMW, Cisc <i>B</i> ng requirements in

02.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 SC 149.4.2.6.4 P1	51 L25	# <u>1</u> 35	C/ 149	SC 149.1.6		P80	L 41	# <u>1</u> 37	
Zimmerman, George CME	Consulting/ADI, APL G	p, Aquantia, BMW, Cisco	Zimmerman	n, George		CME Consult	ting/ADI, APL Gp	, Aquantia, BMW, 0	Cisco
Comment Type E Comment Status	Α	EZ	Comment Ty	уре Т	Comment	Status A			E
typo: send_s_sidget = true								an parentheses. T	0
SuggestedRemedy change send_s_sidget to send_s_sigdet			combina	ations of AND		tions, adopting	onal operators (> precedence is re 145.		
Response Response Status	С		SuggestedR	Remedy					
ACCEPT IN PRINCIPLE. This comment does not apply to the substa	ntive changes between	IEEE P802.3ch	notation	n used in the s		ollows the conv	ventions of state	ntions of 21.5." to " diagrams as descri	
D2.0 and D2.1 or the unsatisfied negative c		allots. Hence it	Response		Response	Status C			
is not within the scope of the recirculation b	allot.			T IN PRINCIF					
Make suggested change to fix typo.			This cor	mment does r	not apply to the	substantive ch	anges between II	FFF P802 3ch	
7 149 SC 149.4.2.4.6 P1	46 <i>L</i> 16	# 136	D2.0 an	nd D2.1 or the	unsatisfied neg	ative comment	ts from earlier ba		
mmerman, George CME	Consulting/ADL APL Gr	p, Aquantia, BMW, Cisco	is not wi	ithin the scope	e of the recircul	ation ballot.			
omment Type TR Comment Status	•	PMA	Make th	ne requested o	hange as curre	ent state transit	ions in our diagra	ams assume this	
The only constraint on DataSwPFC24 is that			precede	ence.	Ū		Ū		
interval is 450 baud intervals, which at 10 g	g is 80 nsec. As it is, tl	his allows startup to	C/ 149	SC 149.3.9	1	P125	L36	# 138	
hang for 16776960*80nsec = 1.342 second startup to allocate for a synchronization cou			Zimmerman			=.		, Aquantia, BMW, 0	Cieco
are OK. A constraint of 500 (40 usec) shou			Comment T	, 0	Comment		шіў/АЛ, АРС Ор	, Aquantia, Divivi, V	EISCC E
reasonable at 2.5 gig (160 usec). Also, Data that the link partner might not be able to syn		close to the current PFC	-	51			phrase as OAM1	10-bit field And	⊏.
	0.				d as the OAM fi				
uggestedRemedy Add new final sentence to end of paragraph	in 1/10 / 2 / 6: "Data Su	VPEC24 shall be a	SuggestedR	Remedy					
minimum of 64 and a maximum of 512 fror				e "The OAM10 d for the OAM		h PHY frame" t	o "A 10-bit field in	n each PHY frame	
Response Response Status	С		Response		Response	Status C			
ACCEPT IN PRINCIPLE.			,		,				
This comment does not apply to the substa	ntive changes between	IEEE P802.3ch							
D2.0 and D2.1 or the unsatisfied negative c	omments from earlier ba				not apply to the unsatisfied neg		anges between II		
is not within the scope of the recirculation b	anot.				e of the recircul				

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 SC 149.4.2.1	P 142	L16	# <u>1</u> 39	C/ 149	SC 149.7.1.3	P167	L23	# <u>1</u> 41
Zimmerman, George	CME Consult	ing/ADI, APL G	p, Aquantia, BMW, Cisco	Zimmerm	an, George	CME Consult	ing/ADI, APL G	p, Aquantia, BMW, Cisco
Comment Type T	Comment Status A	-	Startu	p Comment	Туре Т	Comment Status A	-	EZ
"The MultiGBASE-T1 PM after exiting from reset or time requirement. The sta another training state in a	low power mode." is a nor artup time may be allocate	n-interoperable ed to one trainin	way of stating a startup	(this i factor	s due to frequenc , which makes th	e 149-43 says there are 5 cι y overlaps), but is confusing e figure even more confusinς	. Also, 2.5G no	
to phy control states.					,	nto 3 figures, one for 2.5G, o	ne for 5G and c	ne for 10G. Alternately.
SuggestedRemedy					the figure.			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Task force to discuss. (thi	s requires some consensi	us building - so	rry!)	Response	9	Response Status C		
Response	Response Status C			ACCE	EPT IN PRINCIPL	.E.		
ACCEPT IN PRINCIPLE. This comment does not a D2.0 and D2.1 or the unsa is not within the scope of t	atisfied negative comment			D2.0 is not	and D2.1 or the u within the scope	t apply to the substantive ch nsatisfied negative commen of the recirculation ballot. ge to help the reader.	anges between ts from earlier b	IEEE P802.3ch pallots. Hence it
Change: The MultiGBAS		nger than 100 i	ms to enter the	C/ 149	SC 149.7.1.1	P164	L 30	# 142
PCS_DATA state after exi					an, George			p, Aquantia, BMW, Cisco
To: The MultiGBASE-T1 after exiting from reset or	low power mode (see Figu	ure 149-33).	er the PCS_DATA state	While		Comment Status A several link segment param quation 149-18) needs to be		
And: Delete PICS item PI	R2 (149.11.4.5.1, page 10	r = 47		Suggeste	dRemedy			
Cl 149 SC 149.7.1.3 Zimmerman, George Comment Type E The Return loss section a SuggestedRemedy	Comment Status A	-	# 140 p, Aquantia, BMW, Cisco <i>E</i> Y type.	paran show Z Insert Follow	neters are specifi n in Equation 149 (new) Equation ved by "See Tabl e lines 30 through	agraph in 149.7: "For the thre ed to different upper frequen -17". 149-17, which is the current f e 149-1 for definition of S." n 33, so that 149.7.1.1 after t	cies, given by t Equation 149-18	ne parameter Fmax 3: Fmax = 4000 X S
Divide 149.7.1.3 into 149. 5GBASE-T1 link segment loss.						Hz; 1 <= f <= Fmax. ustrated in Figure 149-42.		
	Response Status C			Response		Response Status C		
ACCEPT IN PRINCIPLE.					EPT IN PRINCIPL	,		
This comment does not a D2.0 and D2.1 or the unsa is not within the scope of t	atisfied negative comment			D2.0	and D2.1 or the u	t apply to the substantive ch nsatisfied negative commen of the recirculation ballot.	•	
Make suggested change t	o help the reader.			Make	suggested chang	ge to clarify draft.		
Make suggested change t TYPE: TR/technical required COMMENT STATUS: D/dispa	ER/editorial required GR/			G/general		Comm	ent ID 142	Page 36 of 4 9/12/2019 2:

Alaccepted Threject "Op SORT ORDER: Comment ID

:24 PM

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

ect to this clause ems integrating the gested language is edRemedy nge "shall conform" ected to comply" in se CEPT IN PRINCIPL comment does no 0 and D2.1 or the u	CME Consulting/ADI, APL Gp, Aquantia, BMW, <i>Comment Status</i> A <i>t</i> not specify equipment, and can't put a 'shall' on "All equipment shall conform to the potential environmental stresses", or to the e PHY (149.9.2.2). 802.3cg had similar language in ballots and drawn from the remedies there. " to "is expected to conform" in 149.9.2.1, and "shall comply" with 149.9.2.2. <i>Response Status</i> C
nt Type E E Std 802.3 does n ect to this clause ems integrating the gested language is edRemedy nge "shall conform" ected to comply" in se CEPT IN PRINCIPL comment does no 0 and D2.1 or the u	Comment Status A t not specify equipment, and can't put a 'shall' on "All equipment shall conform to the potential environmental stresses", or to the e PHY (149.9.2.2). 802.3cg had similar language in ballots and a drawn from the remedies there.
E Std 802.3 does n ect to this clause ems integrating the gested language is edRemedy nge "shall conform" ected to comply" in se CEPT IN PRINCIPL comment does no 0 and D2.1 or the u	hot specify equipment, and can't put a 'shall' on "All equipment shall conform to the potential environmental stresses", or to the e PHY (149.9.2.2). 802.3cg had similar language in ballots and b drawn from the remedies there. " to "is expected to conform" in 149.9.2.1, and "shall comply" with a 149.9.2.2. Response Status C LE.
nge "shall conform ected to comply" in se CEPT IN PRINCIPL comment does no) and D2.1 or the u	149.9.2.2. Response Status C LE.
ected to comply" in Se CEPT IN PRINCIPL comment does no and D2.1 or the u	149.9.2.2. Response Status C LE.
se EPT IN PRINCIPL comment does no) and D2.1 or the u	Response Status C _E.
CEPT IN PRINCIPL comment does no and D2.1 or the u	LE.
comment does no) and D2.1 or the u	
) and D2.1 or the u	ot apply to the substantive changes between IEEE P802.3ch
ot within the scope	insatisfied negative comments from earlier ballots. Hence it of the recirculation ballot.
e the suggested ch	hange to conform with latest agreed text in other projects.
, delete PICS ES3	and ES4.
SC 149.9.2.2	2 P 172 L 43 # 145
nan, George	CME Consulting/ADI, APL Gp, Aquantia, BMW,
nt Type T	Comment Status A t
PR 25 test methods	not restrict the EMC test methods ("PHY shall be tested accordin Is"). The integrating system will specify the test methods to be u usually are CISPR25, there is no need to put that here, and e it.
edRemedy	
ete "The PHY shall PHY's EMC perforr	be tested according to CISPR 25 test methods defined to meas mance in terms of radio frequency (RF) immunity and RF emissi
se	Response Status C
EPT IN PRINCIPL	_E.
	ot apply to the substantive changes between IEEE P802.3ch D2. sfied negative comments from earlier ballots. Hence it is not with ulation ballot.
	ng requires the use of CISPR 25, other applications may not use
scope of the recircu le automotive testir	ke it clear that CISPR25 is used for automotive applications.
ele e l ons CC	elete "The PHY shall e PHY's EMC perfor onse CCEPT IN PRINCIPI nis comment does no id D2.1 or the unsati e scope of the recirc

Comment ID 145

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D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

CI 45 SC 45.2.1.196.2 P41 L5'	1 # <u>1</u> 46	C/ 149 SC 149.3.2.2 P91 L33 # 149
IcClellan, Brett Marvell		McClellan, Brett Marvell
Comment Type E Comment Status A Test mode 2 is described in 149.5.2.3.1		EZ Comment Type E Comment Status A EZ incorrect reference. this links to the Link Monitor function. Instead should point to 149.4.2.4
SuggestedRemedy change "149.5.2.3" to "149.5.2.3.1"		SuggestedRemedy change to 149.4.2.5 to 149.4.2.4
Response Response Status C ACCEPT.		Response Response Status C ACCEPT IN PRINCIPLE.
Image: A5 SC 45.2.1.199 P42 L 30 IcClellan, Brett Marvell Comment Type E Comment Status A	0 # <u>147</u> Vend	This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.
'Reserved' should be 'Link partner vendor specific data'	venc	Correct the link to improve readability of the draft.
SuggestedRemedy		C/ 149 SC 149.3.2.2 P92 L12 # 150
change 'Reserved' to 'Link partner vendor specific data'		McClellan, Brett Marvell
Response Response Status C ACCEPT IN PRINCIPLE.		Comment TypeEComment StatusAEZ's_n' should be 'S_n' to match usage in 149.3.4
This is moved to a new subclause with a new name by comm	nent #1.	SuggestedRemedy change 's_n' to 'S_n'
7/ 149 SC 149.3.2.2 P91 L1: IcClellan, Brett Marvell	3 # <u>148</u>	Response Response Status C ACCEPT IN PRINCIPLE.
comment Type E Comment Status A typo	I	EZ This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.
uggestedRemedy change 'RS-FE' to 'RS-FEC' in multiple locations		Make the requested change to be consistent with the terminology used throughout this
Pesponse Response Status C		document.
ACCEPT IN PRINCIPLE.		CI 149 SC 149.3.2.2.3 P94 L7 # 151
		McClellan, Brett Marvell Comment Type E Comment Status A EZ
Change on P91 L13 and P91 L 48		
		arrows are in wrong direction and should point toward the XGMII SuggestedRemedy reverse the arrow directions
		arrows are in wrong direction and should point toward the XGMII SuggestedRemedy

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

Make the requested change to fix an error in the draft.

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

<u> </u>										
C/ 149 S	SC 149.3.2.2.	3 P 94	L 24	# 152	C/ 149	SC 149.3.6	P108	L 31	# 154	
McClellan, Bre	tt	Marvell			McClella	n, Brett	Marvell			
Comment Type 149.3.2.3.2 figure.		Comment Status A m 'descrambler' for the rece	iver. Should prob	_		<i>t Type</i> E et by the link parti vard language	Comment Status A ner's."			EZ
SuggestedRen change 'sc	<i>nedy</i> crambler' to 'd	escrambler'			00	edRemedy ge to "offset betw	een the link partners."			
Response		Response Status C			Respons	е	Response Status C			
ACCEPT I		Ξ.			ACC	EPT IN PRINCIP	.E.			
D2.0 and [D2.1 or the ur	apply to the substantive cha satisfied negative comment of the recirculation ballot.			D2.0	and D2.1 or the u	ot apply to the substantive of insatisfied negative comme of the recirculation ballot.			
						·				
	•	ange so the Figure matches				·	e to improve clarity.			
	requested cha	<u> </u>	the text.	# 153		·				
	SC 149.3.2.2.	<u> </u>		# 153		·				
C/ 149 S	SC 149.3.2.2. tt	17 <i>P</i> 100				·				
Cl 149 S McClellan, Bre Comment Type	SC 149.3.2.2. tt э Е nedy	17 P100 Marvell			Mak	·				

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

D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 45	SC	45.2.1.197		P 42	L 5	# <u>1</u> 55		C/ 149	SC	149.3.2.2		P 91	L 41	# <u>1</u> 56	
McClellar	n, Brett			Marvell				McClellan,	Brett		Μ	larvell			
Commen	nt Type	т	Comme	nt Status A			SNR	Comment	Туре	т	Comment Sta	atus A			PCS
exam S <i>uggeste</i> lines	nples use edRemed s 5 and 13	e a resoluti dy	on of 1/256	the register defin 50 instead of 0.1d text ", 12.7 dB re	Β.	and 1.2315. The FF00, and –12.7	dB	seque This s Follow	ntially tateme <i>i</i> ng the er, the l	to the PMA ent is incorre RS-FEC in bits are scra	" ect.	e is no lon	ger a 3600 bit fra	bols and transferrent me for L=2 or 4.	ed
Respons	se		Respons	e Status C						entence.					
P42,	, L5 Chan	PRINCIPLE nge "0x800 nge "0xFF0)" to "0x80					Response ACCE			Response Sta	tus C			
		nge "0x010						C/ 149	SC	149.3.2.2		P 92	L 2	# 157	
P42	L7 Inser	t the follow	ing text: 1	he assignment o	f bits in the Multi	GBASE-T1 SNR		McClellan,	Brett		Μ	larvell			
opera	ating mai	rgin registe	r is shown	in Table 45–155	Χ.			Comment	Туре	т	Comment Sta	atus A			EZ
				15-155x) with the IR operating marc		ent rows: rrent SNR operat	ina	Per Fi LPI m		8-1 and 46.	4 it is not the M	AC but the	RS and LPI Clier	nt that controls ent	try to
marg 1.231	gin in dB 14.7:0	RO Reserved	Value a	lways 0 RO e: ^aRO = Read o				Suggested Chang		<i>dy</i> C' to 'RS'					
vvitri		wing note t		e. Marto - Reau	Uniy			Response			Response Sta	tus C			
		ange "0x80 ange "0xFF						ACCE	PT IN	PRINCIPLE	≣.				
		ange "0x01						This c	omme	nt does not	apply to the sub	ostantive c	hanges between	IEEE P802.3ch	
				The assignment able 45–155y.	of bits in the Mul	tiGBASE-T1 Mini	mum				nsatisfied negation of the recirculation		nts from earlier ba	allots. Hence it	
1.23 ² marg 1.231	15.15:8 gin in dB 15.7:0	MultiGBA RO Reserved	SE-T1 Mi	45-155y) with the nimum SNR marg lways 0 RO e: ^aRO = Read	jin value of mi	ent rows: nimum observed	SNR	Make	the rec	quested cha	ange to fix an err	or in the d	raft.		

02.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

/IcClellan, Bret	•			# 158		C/ 149	00	49.3.6	P 108	L16	# <u>1</u> 60	
	t	Marvell				McClellan,	Brett		Marvell			
Comment Type		nt Status A			EZ	Comment	• •	т	Comment Status A			E.
SuggestedRem delete TXD	signals defined as TXD redy <0>, TXD<31>, TXD<3 n to align with the arrow	2>, and TXD<63:				mode descril using t awkwa	when it bed in 1 the slee	generates 49.3.2.2.2 o signal" iage and v	the PHY initiates a transitio 8 RS-FEC frames compose 2. The transmit function of th why reference the link partne	d entirely of LP le link partner s	l control character ignals the transition	on
Response	Respons	e Status C				Suggestea	Remed	/				
This comm D2.0 and D	N PRINCIPLE. ent does not apply to th 2.1 or the unsatisfied n	egative commen				chang "The ti genera	e to ransmit ating the	function o sleep sig	the PHY initiates a transition nal comprised of 8 RS-FEC t escribed in 149.3.2.2.22. "			
is not within	n the scope of the recirc	culation ballot.				Response			Response Status C			
	ge as requested as the in the future.	current impleme	ntation could cau	se additional		ACCE	PT IN P	RINCIPLE				
C/ 149 So AcClellan, Bret	C 149.3.2.2.3 t	P 94 Marvell	L 3	# 159		D2.0 a	nd D2.1	or the un	apply to the substantive cha satisfied negative comments f the recirculation ballot.			
Comment Type There's no RXD<31>.	T Comme signals defined as RXE	<i>nt Status</i> A)<32> to RXD<63	>. Only the XGM	III RXD<0> to	EZ	Make	the requ	ested cha	nge to increase reader unde	rstanding.		
	nedy 0<0>, RXD<31>, RXD< n to align with the arrow		3> and move the	XGMII line with	signal							
Response ACCEPT IN	Respons N PRINCIPLE.	e Status C										
D2.0 and D	ent does not apply to th 2.1 or the unsatisfied n n the scope of the recirc	egative commen										
	ge as requested as the in the future.	current impleme	ntation could cau	se additional								

02.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149	SC 149.3.6	P109	L37	# 161		C/ 149	SC	149.3.6.1	P 109	L 47	# 163
McClellan	, Brett	Marvell				McClellan,	Brett		Marvell		
Comment		Comment Status A			ΕZ	Comment	Туре	т	Comment Status A		EZ
chang	rior paragraphs ged topic to rece dRemedy	talk about the transmitter and a iver behavior.	signaling, sudde	nly this paragraph		and +0 This se)/–1 pai	rtial frames e contradic	BASE-T1, and 2.5GBASE-T s respectively with respect to tts the prior sentence which	o the MASTER's	PFC24."
	ge text to					Suggested	Remea	lv			
"The e	end of LPI mode	e occurs at the transmission of	the alert signal i	ndicating the end	of		the ser	-			
	refresh cycle." nove this orphan	ned text prior to figure 149-14				Response			Response Status C		
Response		Response Status C				ACCE	PT IN F	PRINCIPLE	Ξ.		
This c D2.0 a is not Make The e C/ 149 McClellan Comment "An E frame	and D2.1 or the within the scope the requested c ditor will try to m <i>SC</i> 149.3.6. , Brett <i>Type</i> T EE-capable PH Count"	ot apply to the substantive cha unsatisfied negative comment e of the recirculation ballot. hange to increase reader unde nove the text.	s from earlier ba erstanding. <i>L</i> 45 ole for synchroniz	llots. Hence it # 162	EEE	D2.0 a is not v Make t draft. Replac SLAVE MAST To: "Fe	nd D2. within th the cha ce the la E's PFC ER's PI	1 or the un he scope of inge sugge ast two ser C24 are +0 FC24." equiremen	apply to the substantive chasatisfied negative comment of the recirculation ballot. ested by comment 104 to rean intences: "For 10GBASE-T1 /-4, +0/-2, and +0/-1 partia its on the SLAVE and the M	ts from earlier ba move redundant , 5GBASE-T1, a l frames redraftti	illots. Hence it specifications in the nd 2.5GBASE-T1 the ively with redraftt to the
	d <i>Remedy</i> je ""An EEE-cap PHY"	able PHY"									
Response		<i>Response Status</i> C LE.									
D2.0 a	and D2.1 or the	ot apply to the substantive cha unsatisfied negative comment of the recirculation ballot.									
Make	requested chan	ge to fix an error in the draft.									

EEE

C/ 149 SC 149.3.6.3	P111	L9	# 164	C/ 45	SC 45.2.1.192.4	P 36	L 43	# <u>1</u> 65
McClellan, Brett	Marvell			McClellan	, Brett	Marvell		

Comment Type T Comment Status A

There are several problems with this paragraph. Twice it references 149.3.4 however the Infofield and the training sequence are not specified in 149.3.4. It also fails to refer to the appropriate PAM2 mapping.

SuggestedRemedy

change "Two-level PAM refresh symbols are generated using the PMA side-stream scrambler polynomials described in 149.3.4 and exactly as is shown in Figure 149-11 with the exception that the Infofield consists of a sequence of 128 zeros. The 10-bit OAM symbol to be transmitted is XORed with the last 10 bits of the PAM2 refresh transmission. The training sequence described in 149.3.4 shall be used during the LPI mode, with the scramblers free-running from PCS Reset. "

to "Two-level PAM refresh symbols are generated from the T n mapping defined in 149.3.5.1 of S n defined in 149.3.5 with the exception that the Infofield consists of a sequence of 128 zeros. The 10-bit OAM symbol to be transmitted is XORed with the last 10 bits of the PAM2 refresh transmission."

Response

ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Response Status C

Make the following change to correct an error in the draft.

change "Two-level PAM refresh symbols are generated using the PMA side-stream scrambler polynomials described in 149.3.4 and exactly as is shown in Figure 149-11 with the exception that the Infofield consists of a sequence of 128 zeros. The 10-bit OAM symbol to be transmitted is XORed with the last 10 bits of the PAM2 refresh transmission. The training sequence described in 149.3.4 shall be used during the LPI mode, with the scramblers free-running from PCS Reset. "

to "Two-level PAM refresh symbols are generated from the T n mapping defined in 149.3.5.1 of S n defined in 149.3.5, with the exception that the Infofield consists of zeros. The 10-bit OAM symbol to be transmitted is XORed with the last 10 bits of the PAM2 refresh transmission "

C/ 45	SC	45.2.1.192.4	P36	6	L 43	# 165	5
McClellan, B	Brett		Marve				
Comment Ty	/pe	TR	Comment Status	Α			Precoder

There are several problems subclause.

First - "Setting these bits forces the precoder to the mode set."

this sentence makes it appear that simply writing to these bits will cause precoder to use the written setting without other action required when in fact this setting is used only for test mode 3.

Second - "During normal operation, these bits are set according to the precoder requested by the link partner in the Infofield, and reading bits 1,2309,10.9 will represent the value of the request, which has been received and set into the transmitter. "

It is very poor practice to use configuration bits (R/W) also as status bits (usually RO). It causes issues when read-modify-write operations are performed. It is also not clear whether these bits are supposed to act as RO in normal mode but R/W during test mode. Further, during normal operation the setting of the precoder can already be inferred from 1.2312.3:2 status bits (Link partner precoder requested)

SuggestedRemedy

change the text as follows:

Bits 1.2309.10:9 determine the precoder setting of the transmitter, as defined in 149.3.2.2.20 in the variable precoder type while in test mode 3.

Response	Response Status	С	
ACCEPT IN PRINCIPLE			

These lines are removed by comment #124.

P802 3ch D2 1

D2.1 Physical Laver Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 45	SC	45.2.1.199	P 42	L18	# 166				bits of vendor and footnote a i		ata that the PHY ma	ay receive from its	s link
McClellan	. Brett		Marvell					w level 5 sul		S KU - K	teau only		
Comment	,	TR	Comment Status A		Vendo						ata (1.2317.15:0)" v		
"The	values c	of the bits in	these registers are all zero		identifies the link	1.23	17.15:0 ng trainir		idor specific dat	a that the	PHY may receive t	from its link partne	er
			tiation through communica artner is not defined and is			CI	50	45.2.1.199		P 42	L28	# 167	
		•	ext from Clause 55.					45.2.1.195		larvell	L 20	# 107	
Suggeste	dRemed	ly				McClella		TR	Comment St				Vendor
speci	ge text to fic mess zero."	o "If during A ages, they r	uto-Negotiation both devic nay be used as a commun	es agree on the u ication channel; o	se of the vendor therwise the bits are		use of t	he vendor s	pecific message	es is beyo	nd the scope of this devices from the sa	s standard, so why	
Response			Response Status C			Suggest	edReme	dy					
		PRINCIPLE.	Response Status				28 and te 'when		rtner is from the	same vei	ndor '		
Reso	Resolved by the response to comment 1, copied below.						se		Response Sta	tus C			
In To	ble 45-3					ACC	EPT IN	PRINCIPLE	Ξ.				
	ge the n		ster 1.2316 to "MultiGBASE	E-T1 user defined	data" in subclause	This	text is r	emoved as	rewritten by cor	nment #1.			
	•		ster 1.2317 to "MultiGBASE	E-T1 link partner u	ser defined data" in	C/ 149	SC	149.4.2.4.	5	Р	L	# 168	
	ause 45 .2.1.199	.2.1.200				Razavi, /	Alireza		A	quantia			
Chan	ge the ti	tle to "Multio	GBASE-T1 user defined da			Commer	nt Type	Е	Comment St	atus R			ΕZ
			assignment of bits for the N 45–155f. The values of th										
		standard."		e bits in this regist		Suggest	edReme	dv					
In Ta	ble 45-1	55f:				Guggest	curteme	.uy					
			GBASE-T1 user defined da		nitions"	D							
			ultiGBASE-T1 user defined b: "16 bits of vendor specifi		IV sends to its link	Respons			Response Sta	itus C			
partn						REJ	ECT.						
		st row of the				emp	ty comn	nent					
	ge footn .2.1.199		N = Read/Write"										
			vendor specific data (1.23	16.15:0)"									
			316.15:0 contain vendor sp	ecific data that the	e PHY may								
			artner during training."										
	e 45.2.1	level 4 subc											
			T1 link partner user define	d data register (Re	aister 1.2317)" with								
text:			I	5 (5 7								
			or the MultiGBASE-T1 link										
show stand		ie 45–155g.	The values of the bits in the	ils register are out	side the scope of this								
Creat	e Table		h title "MultiGBASE-T1 link Name entry for 1.2317.15										
)/+ ¹		EP/aditorial required CP/			Olanaaral				0-	mont ID 169	Dago 44	-6.45

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

Comment ID 168

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02.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autom

C/ 149 S	C 149.4.2.4	.10	P147	L35	# 169	C/ 45	SC 45.2.1.1	94.1	P38	L 42	# <u>1</u> 70		
Razavi, Alireza	l		Aquantia			Wienckow	/ski, Natalie		General Moto	ors			
Comment Type	e T	Comment	Status A		Startup / late	Comment	Туре Е	Commer	nt Status A			late	
To ensure interoperability during the training phase, certain timing allocations between Master, Slave and other steps of training must be observed. We propose to the text of 802.3bz for interoperability and just scale the timing of 10G mode and deduct the timing for						This comment is "OOS"; however, the change should be made to make the draft consistent. InfoField is the name for the set of bytes used to indicate the PHY capability; however, the capitalization is not consistent in the draft.							
PCS_TEST that is set by min_wait_timer.						SuggestedRemedy							
SuggestedRemedy tModify FIgure 149_33 as attached and Include the associated Table 145.15 in section 149.4.2.4.10 page 147, line 35 to read as follows MASTER SLAVE MAX REQUIRED TIME						Make the following changes: P38 L42, P39 L50, and P147 L31 - Change: Infofields To: the InfoField							
Traning Training	 Silent Training	40.00	msec				.29, P91 L31, an foField	d P144 L11 -	Change: Infofie	ld			
0	PCS Test PCS Test 0.98 msec						P177 L16 - Change: infofield To: InfoField						
Response		Response	Status C			Response	;	Response	e Status C				
ACCEPT I	ACCEPT IN PRINCIPLE.						ACCEPT IN PRINCIPLE.						
This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.						Make the following changes: In 1.4.289 add statement to the effect that Clause 149 uses a 12 octet Infofield							
Implement the changes defined on slide 5 of zimmerman_3ch_01b_0919.pdf, with editorial license to conform to IEEE 802.3 stlye.						Change all instances of "infofield" with any capitalization to be "Infofield" throughout the P802.3ch draft.						ne	

Editorial license to add necessary PICS.