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

C/FM SC	P2	L 5	# 40	C/ FM	SC FM	<i>P</i> 10	L 48	# 57
Marris, Arthur	Cadence Des	sign Systems		Wienckow	vski, Natalie	General Moto	rs	
Comment Type E	Comment Status X	0		Comment	Type E	Comment Status X		
"This amendment to	o IEEE Std 802.3-2018 adds phy	/sical layer specifi	cations and	IEEE	Std 802.3cn-20	xx - Amendment 4		
	neters for 2.5 Gb/s, 5 Gb/s, and suitable for applications." does no		on a single balanced	Suggeste	dRemedy			
SuggestedRemedy	suitable for applications. does no	or read right		Add:	IEEE Std 802.3	3cn™-20xx		
Change to: "This amendment to	o IEEE Std 802.3-2018 adds phy			Gb/s,	200 Gb/s, and	amendment includes changes t 400 Gb/s Physical Layer specifi gle-mode fiber with reaches of	cations and mar	
0 1	neters for 2.5 Gb/s, 5 Gb/s, and suitable for automotive applicatio		on a single balanced	Proposed	Response	Response Status O		
Proposed Response	Response Status O			. <u> </u>				
				C/ FM	SC FM	P 10	L 51	# 58
C/FM SC	P 22	L 6	# 41	Wienckow	vski, Natalie	General Moto	rs	
Marris, Arthur Comment Type E	Cadence Des Comment Status X	sign Systems		Comment IEEE	51	Comment Status X xx - Amendment 5		
Title is wrong.				Suggeste	dRemedy			
SuggestedRemedy				Add:	Amendment 5-	 after the title for cg and before 	e "This amendm	ent"
Change title to: "Draft Standard for	Ethernet Amendment:			Proposed	Response	Response Status O		
Physical Layer Spe Gb/s Automotive El	cifications and Management Par ectrical Ethernet"	rameters for 2.5 G	b/s, 5 Gb/s and 10	C/ FM	SC FM	P 11	L 4	# 37
Also consider chan	ging page headers to something	other than "IFFF	P802 3ch Multi-Gia	Wienckow	vski, Natalie	General Moto	rs	
Automotive Etherne	et PHY Task Force"		Ũ	Comment	Туре Е	Comment Status X		
	"IEEE P802.3ch Task Force: Pr neters for 2.5 Gb/s, 5 Gb/s and 2			Missi	ng 149C in the o	description of the ammendment		
Proposed Response	Response Status O			Suggeste	dRemedy			
						se 149 and Annex 149A and An 9 and Annex 149A, Annex 149B		PC.
				Proposed	Response	Response Status O		

C/ FM SC FM

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

FM SC FM	<i>P</i> 11	L 6	# 60	CI 00	SC O	Р	L	# 124
Vienckowski, Natalie	General Moto	ors		Zimmerma	an, George	CME Consu	ulting/ADI, APL G	o, Aquantia, BMW, Cisc
Comment Type E	Comment Status X			Comment	Туре Т	Comment Status X		
IEEE Std 802.3cm-20	0xx - Amendment 7					the user to set precoder sele		
Clause 150. This am Physical Layer (PHY	amendment includes changes endment adds) specifications and manageme ASE-SR4.2) and eight pairs (40	ent parameters fo	or 400 Gb/s operation	now be force h be put the con determ Also, r	etter delegated his precoder fro in the test mo- ntrol register to hined by the Pl howhere do we	equest have made these regis to just control the test mode om the remote device. For test de register as well, but in no ro o modify the precoder (either HY or by the link partner regis link PrecodeSel to the preco	precoder forcing, sting purposes, ar normal operation o /ou do it by link pa ters forcing a con	since the user can n override control could case would you want artner request figuration).
100 m.				Suggested	•			
Proposed Response	Response Status O			Delete	e row for 1.2309	9.10:9 from Table 45-155a (pa	age 35 lines 40-44	1)
				Chang	je reserved rov	v in Table 45-155a (page 35 l	ne 45) from 1.230	09.8:0 to 1.2309.10:0
FM SC FM	P 11	L 6	# 59	Delete	page 36 lines	40-48, subclause 149.2.1.19	2.4 and renumber	
Vienckowski, Natalie	General Moto	ors		On pa	ge 41 line 33, (Change Reserved row to be :	1.2313.12 Rese	rved Value always 0
omment Type E	Comment Status X			RO				
IEEE Std 802.3cq-20	0xx - Amendment 6					rows below the new reserved smitter precoder override 0		on
SuggestedRemedy					ser Overrride			
	amendment includes editorial a		rrections, refinements,	1.2313 01 = t	3.10:9 Local t ransmit with 1-	ransmit precoder setting 00 D precoder	= transmit with n	o precoder
and clarifications to (Clause 33 and related portions	of the standard.			ransmit with 1-	⊦D precoder D2 precoder R/W		
Proposed Response	Response Status O					d Value always 0 RO		
				On pa	ge 41 line 47, a	add new subclauses after 45.	2.1.196.1 and ren	umber appropriately:
				When value o shall b 1.2313	bit 1.2313.11 i of bits 1.2313.7 be ignored. Wh 3.10:9, and the	ansmitter precoder override (s set to one, the local transmi l0:9, and the precoder reques then bit 1.2313.11 is set to zero precoder is set according to ecified in 149.3.2.2.20. The o	tter's precoder sh sted by the link pa o, the transmitter s the value of Preco	rtner in PrecodeSel shall ignore the bits odeSel received from
				When transm the pre using t 1.2313	bit 1.2313.11 i nitter, as define ecoder can be these bits, bit 1 3.11 is set to ze	ansmit precoder setting (1.23 s set to one, bits 1.2313.10:9 ed in 149.3.2.2.20 in the varial set using these bits, and the s .2313.11, and enabling test r ero, and the precoder is set a c partner, and bits 1.2313.10:	control the precoder_type specified test can node 3. During no ccording to the va	 For testing purposes, be carried out in by ormal operation, bit
				Add P	ICS items MM	232 and MM233(editorial licer	use to number and	d position appropriately
						(- F

 IYPE: IR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 00
 Page 2 of 31

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 0
 8/23/2019 10:10:19 AM

 SORT ORDER: Clause, Subclause, page, line
 SC 0
 8/23/2019 10:10:19 AM

P802.3ch D2.1 D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autor

, , , , , , , , , , , , , , , , , , ,	
(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	Cl44SC44.1.3P 28L 50#Zimmerman, GeorgeCME Consulting/ADI, APL Gp, Aquantia, BMW, CiscComment TypeTComment StatusX
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 Pr decoding two bits in InfoField messages received from the remote PHY during training a 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	* AUTO-NEGOTIATION IS OPTIONAL should read 'for 10GBASE-T1' otherwise the asterisk looks like a general comment on auto-negotiation rather than specific to the
149.4.2.4.5):"	add "FOR 10GBASE-T1" after "AUTO-NEGOTIATION IS OPTIONAL"
(this PICS is already covered by PCT21)	Proposed Response Response Status O
Proposed Response Response Status O	
	C/ 44 SC 44.1.4.4 P 30 L 43 # 66
C/00 SC 0 P1 L18 # 64	Tu, Mike Broadcom
Maguire, Valerie The Siemon Company	Comment Type E Comment Status X
Comment Type E Comment Status X	I think "gray code" should be "Gray code".
Use oxford comma.	SuggestedRemedy
SuggestedRemedy	Change "gray code" to "Gray code"
Replace, "2.5 Gb/s, 5 Gb/s and 10 Gb/s" with "2.5 Gb/s, 5 Gb/s, and 10 Gb/s".Proposed ResponseResponse StatusO	Proposed Response Response Status O
	C/ 45 SC 45.2.1 P 32 L 29 # 120
C/00 SC 0 P10 L47 # 117	Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisc
Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, C	
Comment Type E Comment Status X	"Minimum SNR margin" - Minimum should not be capitalized (it isn't the first word or an acronym)
There are multiple amendments missing from the front matter (802.3cn, 802.3cq, and so 802.3cm) which are now in SA ballot. 802.3cn is now Amendment four, before 802.3cg well.	as SuggestedRemedy
SuggestedRemedy	Change Minimum to minimum.
Insert missing amendments in correct order in front matter	Proposed Response Response Status O
Proposed Response Response Status O	

C/ 45 SC 45.2.1

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

C/ 45 SC 45.2.1	P 32	L 30	# 119	C/ 45	SC 45.2.1	P 32	L 31	# 1
Zimmerman, George	CME Consult	ing/ADI, APL G	o, Aquantia, BMW, Cisc	Anslow, Pe	ete	Ciena		
Comment Type E	Comment Status X			Comment	Туре Т	Comment Status X		
for these registers, in T1. As labeled, they l name to "MultiGBASE	" and "Link Partner vendor spe the context of clause 45. The ook like general registers for A -T1 PHY vendor specific data Note also capitalization and a	se registers are NY 802.3 PHY " and "MultiGBA	specific to MultiGBASE- type. Suggest change SE-T1 link partner PHY	45 con The na	iventions or in ames of the reg standard it will	sters 1.2316 and 1.2317 is not keeping with "user defined dat jisters are such that when this not be clear what they are for.	a" as used in pric	or BASE-T PHYs.
				In Tab	le 45-3:			
SuggestedRemedy						register 1.2316 to "MultiGBAS	E-T1 user define	d data" in subclause
Change as per comm	ent. Also change names in 45	6.2.1.199 and tai	ble 45-155f	45.2.1 Chang		register 1.2317 to "MultiGBAS	E-T1 link partner	user defined data" in
Proposed Response	Response Status O			subcla In 45.2 Chang Chang registe unless OUIs u In Tab Chang Delete Chang Delete Chang Delete Create "45.2.1 text: "The a shown identifi NEXT Create definiti entry fo Read o Create "45.2.1	use 45.2.1.200 2.1.199: le the title to "M le the text to: " r is shown in 1" the PHY iden using the NEX" le 45-155f: le the title to: "I the last row o le footnote a to 2.1.199.1: le the title to: "I 45.2.1.199.2 e a new level 4 1.200 MultiGB/ ssignment of t in Table 45–155 ons" and a bo or 1.2317.15:0 only" a new level 5 1.200.1 Link par	MultiGBASE-T1 user defined da The assignment of bits for the Table 45–155f. The values of the Table 45–155f. The values of the ifies the link partner during Au Γ pages." MultiGBASE-T1 user defined of the table. "R/W = Read/Write" PHY vendor specific data (1.23 subclause: ASE-T1 link partner user define bits for the MultiGBASE-T1 link 55g. The values of the bits in the ther during Auto-Negotiation the g with title "MultiGBASE-T1 link dy the same as the last row of is "Link partner PHY vendor s subclause: artner PHY vendor specific data	ata register (Regi MultiGBASE-T1 o he bits in this register-Negotiation the ata register bit de ata register bit de ata register bit de ata register bit de ata register are a rough communic k partner user de Table 45-155f ex pecific data" and	Ister 1.2316)" user defined data ister are all zeros rough communicating efinitions" Register 1.2317)" with ined data register is Il zeros unless the PHY cating OUIs using the efined data register bit cept that the Name footnote a is "RO =
				existin	g 45.2.1.199.2			

C/ **45** SC **45.2.1**

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

C/ 45 SC 45.2.	1.7.4 P	33	L 5	# 2	C/ 45	SC 45.	5.2.1.192.3	3	P 36	L 35	# 67
Anslow, Pete	Cier	na			Tu, Mike				Broadcom		
Comment Type E	Comment Status	s X			Comment T	уре Т	т	Comment	Status 🗙		
The empty rows in	Table 45-9 and Table 4	5-10 should co	ontain an ellip	sis							Negotiation or PHY
SuggestedRemedy					-		ation, inst	tead of goir	ig to Figure 14	9-33 PHY Contro	ol state diagram.
Add an ellipsis to the	ne empty rows (two insta	ances per table	e)		SuggestedF	•					
Proposed Response	Response Status	0					e paragra	ph.			
					Proposed R	Response	9	Response	Status O		
C/ 45 SC 45.2.	1.7.5 P	33	L 3	# 121		00.45	0.4.400		Ree	1.40	# 405
Zimmerman, George	CM	E Consulting/A	DI, APL Gp,	Aquantia, BMW, Cisc	C/ 45		5.2.1.192.4	4	P 36	L 43	# 165
Comment Type E	Comment Status	S X			McClellan,				Marvell		
PHY names should	I not break across lines.				Comment T	уре Т	TR	Comment	Status X		
Widen first column	of Tables 45-9 and 45-				First - " this se	Setting th ntence m	hese bits i nakes it ap	, ppear that s	precoder to the simply writing to	o these bits will c	ause precoder to use
	- this way no matter wh				First - " this se	Setting th ntence m ten settin	hese bits i nakes it ap	forces the p ppear that s	precoder to the simply writing to	o these bits will c	
Widen first column instances. (do both break across lines.	- this way no matter wh	at happens in			First - " this sei the writ mode 3 Second by the li	Setting th ntence m ten settin 3. d - "During ink partne	hese bits nakes it ap ng without g normal er in the l	forces the p ppear that s t other actio operation, t Infofield, an	precoder to the simply writing to n required whe hese bits are s d reading bits	o these bits will c en in fact this set set according to t 1.2309.10:9 will r	ause precoder to use ting is used only for tes he precoder requested epresent the value of
Widen first column instances. (do both break across lines. Proposed Response	- this way no matter wh) <i>Response Status</i>	at happens in O			First - " this sei the writ mode 3 Second by the li the requ	Setting th ntence m ten settin 3. I - "During ink partne uest, whic	hese bits nakes it ap ng without g normal er in the I ich has be	forces the p ppear that s t other actio operation, t infofield, an een received	precoder to the simply writing to n required whe hese bits are s d reading bits of d and set into t	o these bits will c en in fact this set set according to t 1.2309.10:9 will r he transmitter. "	ting is used only for tes he precoder requested
Widen first column instances. (do both break across lines. Proposed Response Cl 45 SC 45.2.	- this way no matter wh) <i>Response Status</i>	O 34	the future, P	HY names won't	First - " this set the writ mode 3 Second by the li the requ It is ver causes	Setting th ntence m ten settin 3. 1 - "During ink partne uest, whic y poor pra- issues w	hese bits nakes it ap ng without g normal er in the I ich has be ractice to vhen read	forces the p ppear that s t other actio operation, t Infofield, an een received use configu I-modify-wri	precoder to the simply writing to n required whe hese bits are s d reading bits d and set into t iration bits (R/V te operations a	o these bits will c en in fact this set set according to t 1.2309.10:9 will r he transmitter. " W) also as status are performed. It	ting is used only for tes he precoder requested epresent the value of bits (usually RO). It is also not clear
Widen first column instances. (do both break across lines. Proposed Response Cl 45 SC 45.2. Anslow, Pete	- this way no matter wh) Response Status 1.18 P	o O 34	the future, P	HY names won't	First - " this set the writ mode 3 Second by the li the requ It is ver causes whethe	Setting th ntence m ten settin 3. d - "During ink partne uest, whic y poor pra issues w r these bi	hese bits nakes it ap ng without er in the I ch has be ractice to when read its are su	forces the p ppear that s t other actio operation, t infofield, an een received use configu l-modify-wri pposed to a	precoder to the simply writing to n required whe hese bits are s d reading bits d and set into t irration bits (R/V te operations a act as RO in no	o these bits will c en in fact this set set according to t 1.2309.10:9 will r he transmitter. " W) also as status are performed. It pormal mode but F	ting is used only for tes he precoder requested epresent the value of bits (usually RO). It is also not clear R/W during test mode.
Widen first column instances. (do both break across lines. Proposed Response Cl 45 SC 45.2. Anslow, Pete Comment Type E "Add" is not a valid	- this way no matter wh Response Status 1.18 P Cier Comment Status editing instruction.	at happens in O 34 na S X	the future, P	HY names won't	First - " this set the writ mode 3 Second by the li the requ It is ver causes whethe Further	Setting th ntence m ten settin 3. I - "During ink partne uest, whic y poor pra- issues w r these bi , during n	hese bits nakes it ap ng without g normal er in the I cach has be ractice to vhen read vhen read its are su normal op	forces the p ppear that s t other actio operation, t infofield, an even received use configu l-modify-wri pposed to a veration the	precoder to the simply writing to n required whe hese bits are s d reading bits d and set into t irration bits (R/V te operations a act as RO in no	o these bits will c en in fact this set set according to t 1.2309.10:9 will r he transmitter. " W) also as status are performed. It prmal mode but F precoder can alre	ting is used only for tes he precoder requested epresent the value of bits (usually RO). It is also not clear
Widen first column instances. (do both break across lines. Proposed Response Cl 45 SC 45.2. Anslow, Pete Comment Type E "Add" is not a valid Table 45-21 is not	- this way no matter wh Response Status 1.18 P Cier Comment Status editing instruction. being changed, so shou	at happens in O 34 ha 5 X Id not be show	the future, P	HY names won't	First - " this set the writ mode 3 Second by the li the requ It is ver causes whethe Further	Setting th ntence m ten settin 3. 4 - "During ink partne uest, which y poor pra- issues w r these bi c, during n .3:2 status	hese bits nakes it ap ng without g normal er in the I cach has be ractice to vhen read vhen read its are su normal op	forces the p ppear that s t other actio operation, t infofield, an even received use configu l-modify-wri pposed to a veration the	precoder to the simply writing to n required whe hese bits are s d reading bits d and set into t irration bits (R/V te operations a act as RO in no setting of the p	o these bits will c en in fact this set set according to t 1.2309.10:9 will r he transmitter. " W) also as status are performed. It prmal mode but F precoder can alre	ting is used only for teached precoder requested epresent the value of bits (usually RO). It is also not clear R/W during test mode.
Widen first column instances. (do both break across lines. Proposed Response Cl 45 SC 45.2. Anslow, Pete Comment Type E "Add" is not a valid Table 45-21 is not Notes should use t	- this way no matter wh Response Status 1.18 P Cier Comment Status editing instruction.	at happens in O 34 ha 5 X Id not be show	the future, P	HY names won't	First - " this set the writ mode 3 Second by the li the requ It is ver causes whether Further 1.2312. SuggestedF change	Setting th ntence m ten settin 3. 1 - "During ink partne uest, which y poor pra- issues w r these bi , during n .3:2 status Remedy the text a	hese bits nakes it ap ng without g normal er in the I ich has be ractice to when read normal op us bits (Li as follows	forces the p ppear that s t other actio operation, t infofield, an een received use configu l-modify-wri pposed to a peration the nk partner p s:	brecoder to the simply writing to n required whe hese bits are s d reading bits of and set into t and set into t wration bits (R/V te operations a act as RO in no setting of the p precoder reque	o these bits will c en in fact this set set according to t 1.2309.10:9 will r he transmitter. " <i>N</i>) also as status are performed. It pormal mode but F porecoder can alre- ested)	ting is used only for test he precoder requested epresent the value of bits (usually RO). It is also not clear X/W during test mode. eady be inferred from
Widen first column instances. (do both break across lines. Proposed Response Cl 45 SC 45.2. Anslow, Pete Comment Type E "Add" is not a valid Table 45-21 is not Notes should use t SuggestedRemedy	- this way no matter wh Response Status 1.18 P Cier Comment Status editing instruction. being changed, so shou he paragraph tag "Note"	A happens in O 34 ha 5 X Id not be show	the future, P	HY names won't	First - " this set the writ mode 3 Second by the li the requ It is ver causes whether Further 1.2312. SuggestedF change Bits 1.2	Setting th ntence m ten settin 3. 4 - "During ink partne uest, whic y poor pra- issues w r these bin , during n .3:2 status Remedy the text a 2309.10:9	hese bits nakes it ap ng without g normal er in the I ch has be ractice to when read normal op us bits (Li as follows determin	forces the p ppear that s t other actio operation, t infofield, an een received use configu l-modify-wri pposed to a peration the nk partner p s: ne the preco	brecoder to the simply writing to n required whe hese bits are s d reading bits of d and set into t and set into t irration bits (R/V te operations a act as RO in no setting of the p brecoder reque	b these bits will c en in fact this set set according to t 1.2309.10:9 will r he transmitter. " <i>N</i>) also as status are performed. It pormal mode but F porecoder can alre ested) the transmitter, a	ting is used only for teach epresent the value of bits (usually RO). It is also not clear X/W during test mode. bady be inferred from
Widen first column instances. (do both break across lines. Proposed Response Cl 45 SC 45.2. Anslow, Pete Comment Type E "Add" is not a valid Table 45-21 is not Notes should use t SuggestedRemedy Change the editing Delete Table 45-21	- this way no matter wh Response Status 1.18 P Cier Comment Status editing instruction. being changed, so shou he paragraph tag "Note" instruction to: "Insert th	A happens in O 34 ha 5 X Id not be show	the future, P	HY names won't	First - " this set the writ mode 3 Second by the li the requ It is ver causes whether Further 1.2312. SuggestedF change Bits 1.2	Setting th ntence m ten settin 3. d - "During ink partne uest, whice y poor pra- issues w r these bi , during n .3:2 status Remedy the text a 2309.10:9 2.2.20 in t	hese bits makes it ap ng without g normal er in the I ich has be ractice to when read its are su hormal op is bits (Li as follows determin the variab	forces the p ppear that s t other actio operation, t infofield, an een received use configu l-modify-wri pposed to a peration the nk partner p s: ne the preco	brecoder to the simply writing to n required whe hese bits are s d reading bits ² d and set into t tration bits (R/V te operations a act as RO in no setting of the p precoder reque	b these bits will c en in fact this set set according to t 1.2309.10:9 will r he transmitter. " <i>N</i>) also as status are performed. It pormal mode but F porecoder can alre ested) the transmitter, a	ting is used only for teach epresent the value of bits (usually RO). It is also not clear X/W during test mode. bady be inferred from

C/ 45 SC 45.2.1.192.4

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

C/ 45 SC 45.2.1	193	P 37	L7	# 97	C/ 45 S	SC 45.2.1.193.5	P 38	L 8	# 123
Graba, Jim		Broadcom			Zimmerman, C	George	CME Consu	lting/ADI, APL G	o, Aquantia, BMW, Cisc
Comment Type E In Table 45-155b, "E SuggestedRemedy Change "EEE Ability Proposed Response	EE Ability" sho		ity".		messed up which to th	t PRECD1) The langu o and confusing. Whi he request of the link all clear, leaving me to e.	ment Status X lage of "Actual prec ich precoder parami partner's transmitter	oder requested" o ters relate to the l r is not consistent	or "selected" is all local transmitter and t. The "Link partner"
believe this field sho SuggestedRemedy See Presentation tu	Comment Lested doesn't build be indication _3ch_01_0919.	ng the actual state .pdf		# 44	Make the f Page 37 lii Page 38 lii and replac "Bits 1.231 link partne Page 39 lii "Precoder read as fol	following changes: ne 21 (Table 45-155b ne 8 (45.2.1.193.5 he re text of 45.2.1.193.5 10.4:3 contain the req rr via Infofields in the ne 15 (Table 45-155c request override" to ' llows:	ader) change "Actu 5 (P38 lines 10-12) t uested precoder se PrecodeSel field (se c) and Page 38 line Precoder Selection	al precoder selector to read as follows titing communicate te 149.4.2.4.4)." 45 (45.2.1.194.2 ", and replace te	ted" to "PrecodeSel", : red by the PHY to the
Proposed Response	Response	e Status O			and when desired pro 149.4.2.4.4 Page 39 lin "Precoder read as fol When bit 1	set to a zero the PHY ecoder setting comm 4." ne 23 (Table 45-155c requested" to "User p llows: 1.2311.5 is a one, bits rated by the PHY to th	controls the value nunicated to the link and Page 39 line precoder selection", 1.2311.3:2 are the	of PrecodeSel. P partner via Infofio 37 (45.2.1.194.4 and replace text requested preco	recodeSel is the elds specified in header) change (P39 lines 38-39) to der setting

C/ 45 SC 45.2.1.193.5

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

CI 45	SC 45.2.1.193.5	P 38	L 8	# 4	C/ 45	SC 45.2.1.1	94 P 39	L 19	# 98
Anslow, Pete	e	Ciena			Graba, Jirr	ı	Broadcom		
Comment Ty	vpe E Comme	ent Status 🗙			Comment	Туре Е	Comment Status X		
	ameter name in Table 45-			d" and this fits with the	In Tabl	le 45-155c, cha	ange "Slow wake" to "Slow W	ake" in order to be	e consistent.
	e description cell as well r, the title of 45.2.1.193.5			a does not match	Suggested	Remedy			
SuggestedRe		is Actual precoue	a selected which	Tudes not match	Chang	e all occurrenc	es of "Slow wake" and "slow	wake" into "Slow \	Wake" througout the
	the title of 45.2.1.193.5 fr	rom "Actual precor	ler selected (1.2	810 4·3)" to: "Actual	docum				
	r requested (1.2310.4:3)"			10.4.0) IO. Adida	Proposed I	Response	Response Status O		
Proposed Re	esponse Respon	se Status O							
					C/ 45	SC 45.2.1.1	94.1 <i>P</i> 38	L 41	# 69
C/ 45	SC 45.2.1.193.5	P 38	L8	# 68	Tu, Mike		Broadcom		
Tu, Mike		Broadcom	-•		Comment	Туре Е	Comment Status X		
Comment Ty	vpe E Comm	ent Status X					iver' interleave setting" does	not sound right. D	elete the word
	ual precoder selected" na		readers		'receiv				
SuggestedRe	•				Suggested	•			
00	oosed changes in tu 3ch	01 0919 ndf					Reed-Solomon receiver inte omon interleave setting"	leave setting"	
Proposed Re	o <u>-</u>	se Status O			Proposed I		Response Status O		
Toposed Ne	esponse Respon				, , opeccu ,				
CI 45	SC 45.2.1.193.5	P 38	L 8	# 122	C/ 45	SC 45.2.1.1	94.4 <i>P</i> 39	L 38	# 5
Zimmerman,	, George	CME Consul	ting/ADI, APL Gp	, Aquantia, BMW, Cisc	Anslow, Pe	ete	Ciena		
Comment Ty	vpe ER Comm	ent Status 🗙			Comment	Туре Е	Comment Status X		
	precoder selected" - title o (Actual precoder reques				The co 0".	onvention used	in Clause 45 is to use "is one	e" and "is zero" rat	ther than "is 1" and "i
	e (comment PRECD1) is	00		1 (0	Suggested	Remedy			
become	moot and should be acco	omodated by the re	esolution).			e "is 1" to "is o	ne"		
SuggestedRe	emedy					e "is 0" to "is ze			
Change	"Actual precoder selected	d" to "Actual preco	der requested".		Proposed I	Response	Response Status O		
					•		,		

C/ 45 SC 45.2.1.194.4

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

C/ 45 SC 45.2.	1.194.5	P 39	L 45	# 125	C/ 45	SC 45.2.1.1	96.2	P 41	L 50	# 6
Zimmerman, George		CME Consulti	ng/ADI, APL Gp,	Aquantia, BMW, Cisc	Anslow, P	ete		Ciena		
Comment Type TR	Commen	nt Status 🗙			Comment	Туре Е	Comme	nt Status 🗙		
bit. Reverse the ch	anges from d2.0	in 45.2.1.194.5,	45.2.1.194.6 (no	iate for a read/write ote that this language		onvention used en them.	in Clause 45	for the values of	pairs of bits is to	not include a space
the value into the r			where the MDIO	s supposed to write	Suggested	lRemedy				
SuggestedRemedy	oglotor, into the o					ge "value of 0 0				
Change "shall be s	et" to "should be	set" on nade 39 l	ine 45 and on pa	age 39 line 52		ge "value of 0 1' ge "value of 1 0'				
Proposed Response		e Status O		.go oo iii o oz,		Response		e Status O		
C/ 45 SC 45.2.	1 105 1	P 40	L 41	# 99	C/ 45	SC 45.2.1.1	96.2	P 41	L 51	# 146
	1.195.1		L 4 I	# 99	McClellan		50.2	Marvell	201	" 140
Graba, Jim	C	Broadcom			Comment		Comme	nt Status X		
Comment Type T These bits are requ		nt Status X < partner via Infofi	eld. The current	text is confusing.		node 2 is descri				
SuggestedRemedy					Suggested	Remedy				
Change from: " o To: " communica						e "149.5.2.3" 9.5.2.3.1"				
Proposed Response	Response	e Status O			Proposed	Response	Respons	e Status O		
C/ 45 SC 45.2.	1.195.4	P 41	L 5	# 70	C/ 45	SC 45.2.1.1	97	P 42	L 5	# 155
Tu, Mike		Broadcom			McClellan	, Brett		Marvell		
Comment Type E	Commen	nt Status X			Comment	Туре Т	Comme	nt Status 🗙		
Both "local device" "local PHY"?	and "local PHY"	are used in this c	locument. Maybe	e we should stay with				the register defir 60 instead of 0.10	hitions for 1.2314 a	and 1.2315. The
SuggestedRemedy					Suggested	Remedy				
	enecs of "local de	evice" by "local P⊦	HY" throughout th	ne document.		5 and 13, delete sented by 0x010		e text ", 12.7 dB re	epresented by 0xF	F00, and –12.7 dE
Replace all occurre Proposed Response		e Status O			repres	sented by 0x0 ru	10			

C/ 45 SC 45.2.1.197

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

C/ 45 SC 45.2.1.1	99 P 42	L 18	# 166	C/ 45	SC 45.2.1.199	P 42	L 30	# 71
McClellan, Brett	Marvell			Tu, Mike		Broadcom		
Comment Type TR	Comment Status X			Comment Ty	rpe T	Comment Status X		
	s in these registers are all zero			Register	1.2317 contains	s the Link partner vendor s	pecific data.	
	egotiation through communica k partner is not defined and is			SuggestedR	emedy			
	ne text from Clause 55.	beyond the scop		Under co	olumn "Name", o	hange "Reserved" to "Linl	k partner vendor s	specific data"
SuggestedRemedy				Proposed Re	esponse	Response Status O		
	ng Auto-Negotiation both devi					, -		
specific messages, th set to zero."	ey may be used as a commur	nication channel; o	otherwise the bits are		00 45 0 0 74	D 40	1 40	# 400
Proposed Response				C/ 45	SC 45.2.3.71.1		L 42	# 126
Toposed Response	Response Status O			Zimmerman	0		ilting/ADI, APL G	p, Aquantia, BMW, Cisc
				Comment Ty		Comment Status X	74.4	
C/ 45 SC 45.2.1.1	99 P 42	L 28	# 167			15 description and 45.2.3 n (45.2.3.72.1 and the sh		
AcClellan, Brett	Marvell			odd, refe	erring to 'state m	achine' inappropriately. T		
Comment Type TR	Comment Status X				diagram.	nges in the receive registe	or 15-213 subject	of maintenance
	specific messages is beyond					to submit it as a maintena		ormaintenance
	بملمينيط لمحمدن حطينا مرم بيحمد مستنج مالات	vione from the ear		A 41			and all all a second as a second	14 I I III .
there a restriction that	t they may only be used by de	vices norn the sai	me vendor?			he defect that the OAM st		
	t they may only be used by de	vices nom the sai	me vendor?	associat	ed with them. T	his defect is also in clause	e 97 and makes th	
SuggestedRemedy lines 28 and 31			me vendor?	associat complica	ed with them. T ated, because th		e 97 and makes th	
SuggestedRemedy lines 28 and 31 delete 'when the link p	partner is from the same vend		me vendor?	associat complica SuggestedRe	ed with them. T ated, because th e <i>medy</i>	his defect is also in clause ere are NO PICS in clause	97 and makes the 97 for OAM	ne maintenance reques
SuggestedRemedy lines 28 and 31			me vendor?	associat complica <i>SuggestedR</i> In Table from: "Tł	ed with them. T ated, because th <i>emedy</i> 45-241, Change his bit shall selfe	his defect is also in clause	97 and makes the 97 for OAM 97 for OAM Description of 231 is read."	ne maintenance reques
S <i>uggestedRemedy</i> lines 28 and 31 delete 'when the link p	partner is from the same vend Response Status O		# 147	associat complica SuggestedRi In Table from: "Th to : "This	ed with them. T ated, because th <i>emedy</i> 45-241, Change his bit shall self s bit self clears v	his defect is also in clause ere are NO PICS in clause e the second sentence in I clear when register 3.2317 when register 3.2317 is rea	9 97 and makes the 97 for OAM Description of 231 is read."	ne maintenance reques 3.15
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response	partner is from the same vend Response Status O	or '		associat complica SuggestedR In Table from: "Th to : "This In 45.2.3 and on li	ed with them. T ated, because th emedy 45-241, Change his bit shall self bit self clears v 3.72.1 change "s ne 29 change "	his defect is also in clause ere are NO PICS in clause e the second sentence in I clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clear	9 97 and makes th 9 97 for OAM Description of 231 is read." d." et to one" (P44 L	ne maintenance reques 3.15 27),
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response C/ 45 SC 45.2.1.1 McClellan, Brett	partner is from the same vend Response Status O 99 P42	or '		associat complica SuggestedRe In Table from: "Th to : "This In 45.2.3 and on li to: "This	ed with them. T ated, because th <i>emedy</i> 45-241, Change his bit shall self of bit self clears v 3.72.1 change "s ne 29 change " bit self-clears"	his defect is also in clause ere are NO PICS in clause e the second sentence in I clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clear	9 97 and makes th 9 97 for OAM Description of 231 is read." d." et to one" (P44 L	ne maintenance reques 3.15 27),
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response Cl 45 SC 45.2.1.1 McClellan, Brett Comment Type E	partner is from the same vend Response Status O 99 P 42 Marvell	or ' L 30		associat complica SuggestedR In Table from: "Th to : "This In 45.2.3 and on li	ed with them. T ated, because th <i>emedy</i> 45-241, Change his bit shall self of bit self clears v 3.72.1 change "s ne 29 change " bit self-clears"	his defect is also in clause ere are NO PICS in clause e the second sentence in I clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clear	9 97 and makes th 9 97 for OAM Description of 231 is read." d." et to one" (P44 L	ne maintenance reques 3.15 27),
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response Cl 45 SC 45.2.1.1 McClellan, Brett Comment Type E 'Reserved' should be	partner is from the same vend Response Status O 99 P 42 Marvell Comment Status X	or ' L 30		associat complica SuggestedRe In Table from: "Th to : "This In 45.2.3 and on li to: "This	ed with them. T ated, because th <i>emedy</i> 45-241, Change his bit shall self of bit self clears v 3.72.1 change "s ne 29 change " bit self-clears"	his defect is also in clause ere are NO PICS in clause the second sentence in E clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clear	9 97 and makes th 9 97 for OAM Description of 231 is read." d." et to one" (P44 L	ne maintenance reques 3.15 27),
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response Cl 45 SC 45.2.1.1 McClellan, Brett Comment Type E 'Reserved' should be	partner is from the same vend Response Status O 99 P 42 Marvell Comment Status X	or ' L 30		associat complica SuggestedRe In Table from: "Th to : "This In 45.2.3 and on li to: "This	ed with them. T ated, because th <i>emedy</i> 45-241, Change his bit shall self of bit self clears v 3.72.1 change "s ne 29 change " bit self-clears"	his defect is also in clause ere are NO PICS in clause the second sentence in E clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clear	9 97 and makes th 9 97 for OAM Description of 231 is read." d." et to one" (P44 L	ne maintenance reques 3.15 27),
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response Cl 45 SC 45.2.1.1 McClellan, Brett Comment Type E 'Reserved' should be SuggestedRemedy	partner is from the same vend Response Status O 99 P 42 Marvell Comment Status X 'Link partner vendor specific d	or ' L 30		associat complica SuggestedRe In Table from: "Th to : "This In 45.2.3 and on li to: "This Proposed Re CI 45	ed with them. T ated, because th emedy 45-241, Change is bit shall self of bit self clears v 3.72.1 change "s ne 29 change " bit self-clears" esponse SC 45.5.3.3	his defect is also in clause ere are NO PICS in clause e the second sentence in I clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clean <i>Response Status</i> O <i>P</i> 54	9 97 and makes the 97 for OAM Description of 231 ' is read." d." et to one" (P44 L red by the state m	ne maintenance reques 3.15 27), nachine"
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response Cl 45 SC 45.2.1.1 McClellan, Brett Comment Type E 'Reserved' should be SuggestedRemedy change 'Reserved' to 'Link partner vendo	partner is from the same vend Response Status O 99 P 42 Marvell Comment Status X 'Link partner vendor specific d	or ' L 30		associat complica SuggestedRe In Table from: "Th to : "This In 45.2.3 and on li to: "This Proposed Re Cl 45 Anslow, Pete	ed with them. T ated, because th emedy 45-241, Change is bit shall self of bit self clears v 3.72.1 change "s ne 29 change " bit self-clears" esponse SC 45.5.3.3	his defect is also in clause ere are NO PICS in clause e the second sentence in I clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clean <i>Response Status</i> O <i>P</i> 54 Ciena	97 and makes the 97 for OAM Description of 231 ' is read." d." et to one" (P44 L red by the state m	ne maintenance reques 3.15 27), nachine"
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response Cl 45 SC 45.2.1.1 McClellan, Brett Comment Type E 'Reserved' should be SuggestedRemedy change 'Reserved' to 'Link partner vendo	partner is from the same vend Response Status O 99 P 42 Marvell Comment Status X 'Link partner vendor specific o	or ' L 30		associat complica SuggestedRi In Table from: "Th to : "This In 45.2.3 and on li to: "This Proposed Re Cl 45 Anslow, Pete Comment Ty	ed with them. T ated, because th emedy 45-241, Change is bit shall self of bit self clears v 3.72.1 change "s ne 29 change " bit self-clears" esponse SC 45.5.3.3 e pe E	his defect is also in clause ere are NO PICS in clause the second sentence in E clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clear <i>Response Status</i> O <i>P</i> 54 Ciena <i>Comment Status</i> X	97 and makes the 97 for OAM Description of 231 ' is read." d." et to one" (P44 L red by the state m	ne maintenance reques 3.15 27), nachine"
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response Cl 45 SC 45.2.1.1 McClellan, Brett Comment Type E 'Reserved' should be SuggestedRemedy change 'Reserved' to 'Link partner vendo	partner is from the same vend Response Status O 99 P 42 Marvell Comment Status X 'Link partner vendor specific o	or ' L 30		associat complica SuggestedRe In Table from: "Th to : "This In 45.2.3 and on li to: "This Proposed Re CI 45 Anslow, Pete Comment Ty The high	ed with them. T ated, because th emedy 45-241, Change is bit shall self of bit self clears v 3.72.1 change "s ne 29 change " bit self-clears" esponse SC 45.5.3.3 e pe E nest inserted iter	his defect is also in clause ere are NO PICS in clause the second sentence in E clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clear <i>Response Status</i> O <i>P</i> 54 Ciena <i>Comment Status</i> X	97 and makes the 97 for OAM Description of 231 ' is read." d." et to one" (P44 L red by the state m	ne maintenance reques 3.15 27), nachine"
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response Cl 45 SC 45.2.1.1 McClellan, Brett Comment Type E 'Reserved' should be SuggestedRemedy change 'Reserved'	partner is from the same vend Response Status O 99 P 42 Marvell Comment Status X 'Link partner vendor specific o	or ' L 30		associat complica SuggestedRe In Table from: "Th to : "This In 45.2.3 and on li to: "This Proposed Re Cl 45 Anslow, Pete Comment Ty The high SuggestedRe	ed with them. T ated, because th emedy 45-241, Change is bit shall self of bit self clears v 3.72.1 change "s ne 29 change " bit self-clears" esponse SC 45.5.3.3 e pe E est inserted iter emedy	his defect is also in clause ere are NO PICS in clause e the second sentence in I clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clean <i>Response Status</i> O <i>P</i> 54 <i>C</i> iena <i>Comment Status</i> X n is MM231.	97 and makes the 97 for OAM Description of 231 ' is read." d." et to one" (P44 L red by the state m	ne maintenance reques 3.15 27), nachine"
SuggestedRemedy lines 28 and 31 delete 'when the link p Proposed Response Cl 45 SC 45.2.1.1 McClellan, Brett Comment Type E 'Reserved' should be SuggestedRemedy change 'Reserved' to 'Link partner vendo	partner is from the same vend Response Status O 99 P 42 Marvell Comment Status X 'Link partner vendor specific o	or ' L 30		associat complica SuggestedRe In Table from: "Th to : "This In 45.2.3 and on li to: "This Proposed Re Cl 45 Anslow, Pete Comment Ty The high SuggestedRe	ed with them. T ated, because th emedy 45-241, Change is bit shall self of bit self clears v 3.72.1 change "s ne 29 change " bit self-clears" esponse SC 45.5.3.3 e pe E test inserted iter emedy "through MM22"	his defect is also in clause ere are NO PICS in clause the second sentence in E clear when register 3.2317 when register 3.2317 is rea hall be set to one", to "is s This register shall be clear <i>Response Status</i> O <i>P</i> 54 Ciena <i>Comment Status</i> X	97 and makes the 97 for OAM Description of 231 ' is read." d." et to one" (P44 L red by the state m	ne maintenance reques 3.15 27), nachine"

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/45Page 9 of 31COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC45.3.38/23/2019 10:10:20 AMSORT ORDER: Clause, Subclause, page, line

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

CI 78 SC 78.2	P 58	L 53	# 8	C/ 104 SC 104.5.6.	4 <i>P</i> 66	L 40	# 23
Anslow, Pete	Ciena			Wienckowski, Natalie	General Motor	s	
Comment Type E The bottom ruling of T	Comment Status X Table 78-2 should not be "Very	Thin"		Comment Type E	Comment Status X		
SuggestedRemedy				SuggestedRemedy			
remove the override for	or the bottom ruling of Table 78	3-2		Make "Table 104-7" a	hyperlink.		
Proposed Response	Response Status O			Also, P67 L4 Proposed Response	Response Status O		
CI 78 SC 78.5	P 59	L 17	# 9				
Anslow, Pete	Ciena			C/ 104 SC 104.5.6.		L 5	# 24
<i>Comment Type</i> E "Insert an 10th paragr	Comment Status X aph" should be "Insert a 10th p	aragraph"		Wienckowski, Natalie Comment Type E	General Motor Comment Status X	S	
SuggestedRemedy Change "an" to "a"				SuggestedRemedy			
Proposed Response	Response Status O			Make "Table 104-7" a Also, P67 L6, P67 L1 [,]	hyperlink and remove the "form 1, P67 L14.	est green" color	
				Proposed Response	Response Status O		
C/ 98 SC 98.5.1	P 63	L 10	# 52				
Lo, William	Axonne Inc.			C/ 104 SC 104.9	P 68	L 1	# 10
Comment Type TR	Comment Status X			Anslow, Pete	Ciena		
can do 10G only how	o 1 variable (mGigT1). If one do would the incompatible_link wo page 156 is the proper way to a	ork as both woul	ld assert mGigT1?	Comment Type E The editing instructior editing instruction.	Comment Status X at the top of page 68 is redund	dant as each ch	ange has its own
				"Modify" is not a valid			
,				The instruction is too	vague to be of any use anyway		
Undo changes from D							
Undo changes from D Page 156 line 22 char link_control_mGigT1 a	nge and link_status_mGigT1 to			SuggestedRemedy	nuction of the ten of nor- 00		
Page 156 line 22 char link_control_mGigT1 a	nge	mGigT1 is 2.50	∃igT1, 5GigT1, or	,	ruction at the top of page 68 Response Status O		

C/ 104 SC 104.9

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

C/ 104 SC 104.9.3	P 68	L 8	# 11	C/ 104 SC 104.9.4.3	P 69	L 17	# 39
Anslow, Pete	Ciena			Wienckowski, Natalie	General Motors	6	
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
redundant editing instr	and *PDTE are being inserted auction at the top of the page (ange the fact that this editing	proposed to be	deleted in another	SuggestedRemedy			
SuggestedRemedy					perlink and remove the "forrest	green color.	
Change "in the table in Std 802.3cg-20xx) as f	104.9.3 as follows" to "in the ollows"	e table in 104.9.3	(as modified by IEEE	Proposed Response	Response Status O		
Proposed Response	Response Status O			C/ 125 SC 125.1	P 71	L 46	# 128
				Zimmerman, George	CME Consultin	g/ADI, APL Gp	, Aquantia, BMW, Cisc
C/ 104 SC 104.9.4.3 Anslow, Pete Comment Type E	P 69 Ciena Comment Status X	L3	# 12	Comment Type TR "NOTE 2 - AUTO-NEG BASE-T1 PHYs.	Comment Status X OTIATION IS OPTIONAL" Auto	o-Negotiation is	s only optional for the
"Modify" is not a valid e				SuggestedRemedy			
SuggestedRemedy				Add "FOR BASE-T1 PH	HYs" after "AUTO-NEGOTIATI	ON IS OPTION	IAL"
Change "Modify item"	o "Change item"			Proposed Response	Response Status O		
Proposed Response	Response Status O						
				C/ 125 SC 125.1.4	P72	L 34	# 26
C/ 104 SC 104.9.4.3	P 69	L 12	# 25	Wienckowski, Natalie	General Motors	6	
Wienckowski, Natalie	General Moto	ors		Comment Type E	Comment Status X		
Comment Type E	Comment Status X						
				SuggestedRemedy			
SuggestedRemedy				Make "78" a hyperlink.			
Make "Table 104-7" a	nyperlink.			Proposed Response	Response Status O		
Proposed Response	Response Status O						
				C/ 125 SC 125.3	P 74	L 12	# 47
				Lo, William	Axonne Inc.		
				Comment Type E Table fix gap in column	Comment Status X 2 numbers		
				<i>SuggestedRemedy</i> Remove the gaps in all	the numbers in column 2.		
				Proposed Response	Response Status O		

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 C/ 125
 Page 11 of 31

 SORT ORDER: Clause, Subclause, page, line
 C/ 125
 Page 11 of 31

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

C/ 149 SC 149.1.3.1 P77 L 44 # 129	C/ 149 SC 149.1.3.3 P78 L 27 # 130
Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, C	Cisc Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cis
Comment Type E Comment Status X	Comment Type T Comment Status X
149.3.2.2.18 is NOT where the interleaving is described. It is where the scrambler is. Th interleaver IS in 149.3.2.2.16, where it was in the previous draft	he "The transition to or from LPI mode shall not cause any MAC frames to be lost or" is a fragment of a sentence and an untestable shall
SuggestedRemedy	SuggestedRemedy
Change cross-ref from 149.3.2.2.18 to 149.3.2.2.16	delete sentence fragment, or change it to read: "The transition to or from LPI mode should
Proposed Response Response Status O	not cause any MAC frames to be lost or corrupted."
	Proposed Response Response Status O
C/ 149 SC 149.1.3.3 P78 L 27 # 100	
Graba, Jim Broadcom	C/ 149 SC 149.1.3.3 P78 L 33 # 101
Comment Type E Comment Status X	Graba, Jim Broadcom
The last part of the sentence is missing?	Comment Type T Comment Status X PHY Health status is only available when the optional OAM is enabled.
SuggestedRemedy	
Based on D2.0, change last part of sentence from: " to be lost or"	SuggestedRemedy Change from: "When the PHY Health status received"
To: " to be lost or corrupted." Proposed Response Response Status O	To: "When the optional MultiGBASE-T1 OAM is enabled and the PHY Health status received"
	To: "When the optional MultiGBASE-T1 OAM is enabled and the PHY Health status
	To: "When the optional MultiGBASE-T1 OAM is enabled and the PHY Health status received …"
Proposed Response Response Status O	To: "When the optional MultiGBASE-T1 OAM is enabled and the PHY Health status received …"
Proposed Response Response Status O	To: "When the optional MultiGBASE-T1 OAM is enabled and the PHY Health status received" Proposed Response Response Status O
Proposed Response Response Status O C/ 149 SC 149.1.3.3 P78 L 27 # 42 Slavick, Jeff Broadcom	To: "When the optional MultiGBASE-T1 OAM is enabled and the PHY Health status received" Proposed Response Response Status O Cl 149 SC 149.1.3.4 P78 L 45 # 102
Proposed Response Response Status O Cl 149 SC 149.1.3.3 P 78 L 27 # 42 Slavick, Jeff Broadcom Comment Type E Comment Status X Extra or instead of a period. SuggestedRemedy Replace the or with a "."	To: "When the optional MultiGBASE-T1 OAM is enabled and the PHY Health status received" Proposed Response Response Status O C/ 149 SC 149.1.3.4 P 78 L 45 # 102 Graba, Jim Broadcom
Proposed Response Response Status O Cl 149 SC 149.1.3.3 P 78 L 27 # 42 Slavick, Jeff Broadcom Comment Type E Comment Status X Extra or instead of a period. SuggestedRemedy	To: "When the optional MultiGBASE-T1 OAM is enabled and the PHY Health status received" Proposed Response Response Status O Cl 149 SC 149.1.3.4 P 78 L 45 # 102 Graba, Jim Broadcom Comment Type T Comment Status X More details are needed in the sentences between line 45 and line 47. Recommend to use Clause 97 as the baseline, and apply the scaling from 1 usec (Clause 97) to 1.25 usec
Proposed Response Response Status O Cl 149 SC 149.1.3.3 P 78 L 27 # 42 Slavick, Jeff Broadcom Comment Type E Comment Status X Extra or instead of a period. SuggestedRemedy Replace the or with a "."	To: "When the optional MultiGBASE-T1 OAM is enabled and the PHY Health status received" Proposed Response Response Status O Cl 149 SC 149.1.3.4 P 78 L 45 # 102 Graba, Jim Broadcom Comment Type T Comment Status X More details are needed in the sentences between line 45 and line 47. Recommend to use Clause 97 as the baseline, and apply the scaling from 1 usec (Clause 97) to 1.25 usec (Clause 149).
Proposed Response Response Status O Cl 149 SC 149.1.3.3 P 78 L 27 # 42 Slavick, Jeff Broadcom Comment Type E Comment Status X Extra or instead of a period. SuggestedRemedy Replace the or with a "."	To: "When the optional MultiGBASE-T1 OAM is enabled and the PHY Health status received" <i>Proposed Response Response Status O Cl 149 SC 149 SC 149.1.3.4 P 78 L 45 # 102 G G raba, Jim B roadcom Comment Type T Comment Status X</i> More details are needed in the sentences between line 45 and line 47. Recommend to use Clause 97 as the baseline, and apply the scaling from 1 usec (Clause 97) to 1.25 usec (Clause 149). <i>SuggestedRemedy</i> Change line 45 to line 47 from: "The MASTER PHY sends a synchronization sequence. If there is no response from the SLAVE, the MASTER repeats by sending a synchronization

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

Zimmormon Coorgo	6 P 80	L 41	# 137	C/ 149	SC 149.2.1.	1.2	P 81	L 30	# 76
Zimmerman, George	CME Consult	ng/ADI, APL Gp	, Aquantia, BMW, Cisc	Tu, Mike			Broadcom		
Comment Type T	Comment Status X			Comment	Туре Т	Comment S	status X		
avoid parentheses an combinations of AND	grams do not have precedence round logical functions of relatio) and OR operations, adopting p did this work and it is in clause	nal operators (>, precedence is re	, =, <, etc.) or	Synch Suggested	ronization. Remedy		·	gotiation or the F	
SuggestedRemedy						entence from: "A or PHY Link Syı			
notation used in the	n used in the state diagrams fol state diagrams follows the conv e extensions described in 145.2	entions of state of		Proposed I	•	Response S			
Proposed Response	Response Status O			C/ 149	SC 149.2.1.	2	P 81	L 40	# 77
				Tu, Mike			Broadcom		
C/ 149 SC 149.2.1	.1 <i>P</i> 81	L 16	# 74	Comment	Туре Т	Comment S	tatus X		
Tu, Mike	Broadcom			PMA_I	_ink.indication a	also goes to the	PHY Link Synd	chronization.	
	Comment Status X 'PHY Link Synchronization". De	lete "algorithm".			e from: ", and	d the Auto-Nego Negotiation or P		ns " hronization funct	tion"
SuggestedRemedy		with mate "		Proposed I	Response	Response S	tatus O		
	PHY Link Synchronization algorithms Synchronization to"			-1		Response o			
To: " the PHY Link				C/ 149	SC 149.2.1.		P 82	L 8	# 78
To: " the PHY Link	Synchronization to"							L 8	# [78
To: " the PHY Link proposed Response	Synchronization to" Response Status O	L 24	# 75	C/ 149	SC 149.2.1.		P 82 Broadcom	L 8	# [78
To: " the PHY Link Proposed Response	Synchronization to" Response Status O		# 75	C/ 149 Tu, Mike Comment	SC 149.2.1. Type T	2.3 Comment S	P 82 Broadcom	L 8	
To: " the PHY Link Proposed Response Cl 149 SC 149.2.1 Tu, Mike	Synchronization to" Response Status O		# 75	C/ 149 Tu, Mike Comment	SC 149.2.1. Type T reference to 14	2.3 Comment S	P 82 Broadcom	-	
To: " the PHY Link Proposed Response C/ 149 SC 149.2.1 Fu, Mike Comment Type T PMA_Link.request ca Synchronization.	Synchronization to" Response Status O .1.1 P81 Broadcom	L 24		C/ 149 Tu, Mike Comment Add a Suggested Chang To: "Ti	SC 149.2.1. Type T reference to 14 Remedy e from: "The eff ne effect of rece	2.3 <i>Comment S</i> 9.4.2.6.4 PHY L fect of receipt of eipt of this primiti	P 82 Broadcom Status X ink Synchroniz this primitive i ve is specified	zation State Diag	gram.
To: " the PHY Link Proposed Response To: 149 SC 149.2.1 Tu, Mike Comment Type T PMA_Link.request ca Synchronization.	Synchronization to" <i>Response Status</i> O .1.1 <i>P</i> 81 Broadcom <i>Comment Status</i> X an be set by either the Auto-Neg	L 24		Cl 149 Tu, Mike Comment Add a Suggested Chang To: "Th 149.4.1	SC 149.2.1. Type T reference to 14 Remedy e from: "The eff he effect of rece 2.6.4 for PHY L	2.3 Comment S 9.4.2.6.4 PHY L fect of receipt of eipt of this primiti ink Synchroniza	P 82 Broadcom <i>status</i> X ink Synchroniz this primitive i ve is specified tion."	zation State Diag	gram. 3.4.1."
To: " the PHY Link Proposed Response C/ 149 SC 149.2.1 Fu, Mike Comment Type T PMA_Link.request ca Synchronization. SuggestedRemedy Change line 24 and 2 DIABLE Used by th the PHY.	Synchronization to" Response Status O .1.1 P 81 Broadcom Comment Status X an be set by either the Auto-Neg 25 to: he Auto-Negotiation or PHY Lind	L 24 gotiation or the P	HY Link n function to disable	C/ 149 Tu, Mike Comment Add a Suggested Chang To: "Ti	SC 149.2.1. Type T reference to 14 Remedy e from: "The eff he effect of rece 2.6.4 for PHY L	2.3 <i>Comment S</i> 9.4.2.6.4 PHY L fect of receipt of eipt of this primiti	P 82 Broadcom <i>status</i> X ink Synchroniz this primitive i ve is specified tion."	zation State Diag	gram. 3.4.1."
To: " the PHY Link Proposed Response Cl 149 SC 149.2.1 Tu, Mike Comment Type T PMA_Link.request ca Synchronization. SuggestedRemedy Change line 24 and 2 DIABLE Used by th the PHY.	Synchronization to" Response Status O .1.1 P 81 Broadcom Comment Status X an be set by either the Auto-Neg 25 to:	L 24 gotiation or the P	HY Link n function to disable	Cl 149 Tu, Mike Comment Add a Suggested Chang To: "Th 149.4.1	SC 149.2.1. Type T reference to 14 Remedy e from: "The eff he effect of rece 2.6.4 for PHY L	2.3 Comment S 9.4.2.6.4 PHY L fect of receipt of eipt of this primiti ink Synchroniza	P 82 Broadcom <i>status</i> X ink Synchroniz this primitive i ve is specified tion."	zation State Diag	gram. 3.4.1."

C/ 149 SC 149.2.1.2.3 Page 13 of 31 8/23/2019 10:10:21 AM

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

C/ 149 SC 149.3.	2.2 P 91	L 12	# 131	C/ 149 SC 149.3.2	2 P 91	L 13	# 148
Zimmerman, George	CME Cor	sulting/ADI, APL G	p, Aquantia, BMW, Cisc	McClellan, Brett	Marvell		
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
	nctions of the PCS Transmit		gless, because the	typo			
	nger talks about the generat	ON OF 65B DIOCKS.		SuggestedRemedy			
SuggestedRemedy	quent functions of the PCS ⁻	Francomit process" to	After menning the	change 'RS-FE' to 'R	S-FEC' in multiple locations		
	4B/65B blocks, the subsequ			Proposed Response	Response Status O		
Proposed Response	Response Status O						
				C/ 149 SC 149.3.2	2 P 91	L 13	# 132
C/ 149 SC 149.3.	2.2 P 91	L 13	# 79	Zimmerman, George	CME Consul	lting/ADI, APL Gp	o, Aquantia, BMW, Ciso
Гu, Mike	Broadcon	ı		Comment Type E	Comment Status X		
Comment Type T	Comment Status X			Typo: RS-FE			
	erleaving is done prior to or			SuggestedRemedy			
encoding. Also there	e is a typo on this line: "RS-F	E symbols" should	be "RS-FEC symbols".	Change "RS-FE" to "	RS-FEC"		
uggestedRemedy				Proposed Response	Response Status O		
Change this sentend interleave the RS-FI To: " OAM field, th	nen interleave and add 340 k		-	C/ 149 SC 149.3.2	2 <i>P</i> 91	L 13	# [43
interleave the RS-FI To: " OAM field, th Proposed Response	E symbols, …" nen interleave and add 340 t <i>Response Status</i> O	its of parity for the	RS-FEC,"	C/ 149 SC 149.3.2 Slavick, Jeff Comment Type E		L 13	# [<u>43</u>
Change this sentend interleave the RS-FI To: " OAM field, the Proposed Response	E symbols," hen interleave and add 340 t <i>Response Status</i> O 2.2 <i>P</i> 91	bits of parity for the	-	Cl 149 SC 149.3.2. Slavick, Jeff Comment Type E Missing C	2 P 91 Broadcom	L 13	# 43
Change this sentence interleave the RS-FI To: " OAM field, the Proposed Response Cl 149 SC 149.3.	E symbols," hen interleave and add 340 t <i>Response Status</i> O 2.2 <i>P</i> 91 Axonne Ir	bits of parity for the	RS-FEC,"	Cl 149 SC 149.3.2 Slavick, Jeff Comment Type E Missing C SuggestedRemedy	2 P 91 Broadcom Comment Status X	L 13	# [<u>43</u>
Change this sentence interleave the RS-FI To: " OAM field, the Proposed Response Cl 149 SC 149.3. Lo, William Comment Type E	E symbols," hen interleave and add 340 t <i>Response Status</i> O 2.2 <i>P</i> 91	bits of parity for the	RS-FEC,"	Cl 149 SC 149.3.2 Slavick, Jeff Comment Type E Missing C SuggestedRemedy Change "RS-FE symt	2 P 91 Broadcom <i>Comment Status</i> X bols" to "RS-FEC symbols"	L 13	# 43
Change this sentend interleave the RS-FI To: " OAM field, the Proposed Response C/ 149 SC 149.3. Lo, William Comment Type E Spelling	E symbols," hen interleave and add 340 t <i>Response Status</i> O 2.2 <i>P</i> 91 Axonne Ir	bits of parity for the	RS-FEC,"	Cl 149 SC 149.3.2 Slavick, Jeff Comment Type E Missing C SuggestedRemedy	2 P 91 Broadcom Comment Status X	L 13	# <u>43</u>
Change this sentend interleave the RS-FI To: " OAM field, th Proposed Response 2/ 149 SC 149.3. co, William Comment Type E Spelling SuggestedRemedy	E symbols," hen interleave and add 340 t <i>Response Status</i> O 2.2 <i>P</i> 91 Axonne Ir <i>Comment Status</i> X	bits of parity for the	RS-FEC,"	Cl 149 SC 149.3.2 Slavick, Jeff Comment Type E Missing C SuggestedRemedy Change "RS-FE symt Proposed Response	2 P 91 Broadcom Comment Status X pols" to "RS-FEC symbols" Response Status O		
Change this sentend interleave the RS-FI To: " OAM field, the Proposed Response Cl 149 SC 149.3. Lo, William Comment Type E Spelling SuggestedRemedy RS-FE should be RS	E symbols," hen interleave and add 340 t <i>Response Status</i> O 2.2 <i>P</i> 91 Axonne Ir <i>Comment Status</i> X	bits of parity for the	RS-FEC,"	Cl 149 SC 149.3.2. Slavick, Jeff Comment Type E Missing C SuggestedRemedy Change "RS-FE symt Proposed Response Cl 149 SC 149.3.2.	2 P91 Broadcom Comment Status X bols" to "RS-FEC symbols" Response Status O 2 P91	L 13 L 33	# <u>43</u> # <u>149</u>
Change this sentend interleave the RS-FI To: " OAM field, the Proposed Response Cl 149 SC 149.3. Lo, William Comment Type E Spelling SuggestedRemedy RS-FE should be RS	E symbols," hen interleave and add 340 t <i>Response Status</i> O 2.2 <i>P</i> 91 Axonne Ir <i>Comment Status</i> X	bits of parity for the	RS-FEC,"	Cl 149 SC 149.3.2. Slavick, Jeff Comment Type E Missing C SuggestedRemedy Change "RS-FE symt Proposed Response Cl 149 SC 149.3.2. McClellan, Brett	2 P 91 Broadcom Comment Status X pols" to "RS-FEC symbols" Response Status O 2 P 91 Marvell		
Change this sentend interleave the RS-FI To: " OAM field, the Proposed Response Cl 149 SC 149.3. Lo, William Comment Type E Spelling SuggestedRemedy RS-FE should be RS	E symbols," hen interleave and add 340 t <i>Response Status</i> O 2.2 <i>P</i> 91 Axonne Ir <i>Comment Status</i> X	bits of parity for the	RS-FEC,"	Cl 149 SC 149.3.2. Slavick, Jeff Comment Type E Missing C SuggestedRemedy Change "RS-FE symt Proposed Response Cl 149 SC 149.3.2. McClellan, Brett Comment Type E	2 P91 Broadcom Comment Status X pols" to "RS-FEC symbols" Response Status O 2 P91 Marvell Comment Status X is links to the Link Monitor fun	L 33	
Change this sentend interleave the RS-FI To: " OAM field, the Proposed Response Cl 149 SC 149.3. Lo, William Comment Type E Spelling SuggestedRemedy RS-FE should be RS	E symbols," hen interleave and add 340 t <i>Response Status</i> O 2.2 <i>P</i> 91 Axonne Ir <i>Comment Status</i> X	bits of parity for the	RS-FEC,"	Cl 149 SC 149.3.2. Slavick, Jeff Comment Type E Missing C SuggestedRemedy Change "RS-FE symt Proposed Response Cl 149 SC 149.3.2. McClellan, Brett Comment Type E incorrect reference. th	2 P91 Broadcom Comment Status X pols" to "RS-FEC symbols" Response Status O 2 P91 Marvell Comment Status X is links to the Link Monitor fun	L 33	
Change this sentend interleave the RS-FI To: " OAM field, th Proposed Response Cl 149 SC 149.3. Lo, William Comment Type E Spelling SuggestedRemedy	E symbols," hen interleave and add 340 t <i>Response Status</i> O 2.2 <i>P</i> 91 Axonne Ir <i>Comment Status</i> X	bits of parity for the	RS-FEC,"	Cl 149 SC 149.3.2. Slavick, Jeff Comment Type E Missing C SuggestedRemedy Change "RS-FE symt Proposed Response Cl 149 SC 149.3.2. McClellan, Brett Comment Type E incorrect reference. th Instead should point t	2 P91 Broadcom Comment Status X bols" to "RS-FEC symbols" Response Status O 2 P91 Marvell Comment Status X his links to the Link Monitor fun o 149.4.2.4	L 33	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 149

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 149.3.2.2

 SORT ORDER: Clause, Subclause, page, line
 SC 149.3.2.2
 SC 149.3.2.2

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CL 440 CC 440 0 0		1 44	# 00		SC 440 0 0	Boo	1 40	# 450
C/ 149 SC 149.3.2.		L 41	# 80	C/ 149	SC 149.3.2.2		L 12	# 150
Tu, Mike	Broadcom			McClellan,		Marvell		
Comment Type T	Comment Status X			Comment	51	Comment Status X		
	ce is talking about superframe	s. So scale both	number by L.			o match usage in 149.3.4		
SuggestedRemedy				Suggested	•			
Change "3600 bits" to symbols".	"3600xL bits", and change "18	300 PAM4 symb	ols" to "1800xL PAM4	change	e 's_n' to 'S_n'			
,				Proposed I	Response	Response Status O		
Proposed Response	Response Status O							
C/ 149 SC 149.3.2.	2 P 92	L 2	# 157	C/ 149	SC 149.3.2.2	2.2 P 93	L 52	# 13
		L Z	# 157	Anslow, Pe	ete	Ciena		
McClellan, Brett	Marvell			Comment	Туре Е	Comment Status X		
Comment Type T	Comment Status X			Figure	s 149-6 and 149	-7 now contain two notes each	۱.	
Per Figure 78-1 and 4 LPI mode.	6.4 it is not the MAC but the R	S and LPI Client	t that controls entry to			an one note, the IEEE-SA Star		
						ould be numbered "NOTE 1—", no spaces either side of the en		С.
SuggestedRemedy				Suggested				
Change 'MAC' to 'RS'				00	ures 149-6 and 1	10_7·		
Proposed Response	Response Status O			Chang	je "Note — This"	' to "NOTE 1—This" re" to "NOTE 2—Figure"		
C/ 149 SC 149.3.2.	2 P 92	L 5	# 81	Proposed I	Response	Response Status O		
Tu, Mike	Broadcom			. <u></u>				
Comment Type E	Comment Status X			C/ 149	SC 149.3.2.2	2.3 <i>P</i> 93	L 17	# 103
The block diagramis "	shown" in Figure 149-5.			Graba, Jim	n	Broadcom		
SuggestedRemedy				Comment	Туре Е	Comment Status X		
Change the sentence Figure 149–5."	to: "A block diagram of the PC	CS Transmit func	tions is shown in	To be	consistent, "TxB	" should be "tx_coded" and "R	xB" should be "	rx_coded".
Proposed Response	Doononoo Statua			Suggested	lRemedy			
Proposed Response	Response Status O			where To "Th	TxB<0> and Rx te bits of a trans	transmitted or received block a B<0> represent the first transmitted or received block are la ectively where tx_coded<0> an	nitted bit." beled tx_coded<	<64:0> and
					nitted bit.".	clively where tx_coded<0> an	d IX_coded<0>	represent the linst

Proposed Response Response Status 0

C/ 149 SC 149.3.2.2.3

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P802.3ch D2.1	02.1 Physical La	yer Specificat	tions and Managemer	t Parameters for 2.5	5 Gb/s, 5 Gb/s	s, and 10 Gb/s A	Auton	
Cl 149 SC 149.3.2.2.3 McClellan, Brett Comment Type T There's no signals define	B P 93 Marvell Comment Status X ed as TXD<32> to TXD<63>	L 22	# 158	McClellan, Brett Comment Type		P 94 Marvell ent Status X I should point toward	L 7 d the XGMII	# <u>151</u>
SuggestedRemedy delete TXD<0>, TXD<31 labels down to align with	 , TXD<32>, and TXD<63> the arrows. 	and move the λ	GMII line with signal	reverse the arrow Proposed Response		se Status O		
Proposed Response	Response Status O			C/ 149 SC 14 McClellan, Brett	9.3.2.2.3	P 94 Marvell	L 24	# 152
Cl 149 SC 149.3.2.2.3 McClellan, Brett Comment Type T There's no signals define RXD<31>. SuggestedRemedy	B P 94 Marvell Comment Status X ed as RXD<32> to RXD<633	L 3	# 159	figure. SuggestedRemedy	er' to 'descramble	er'	ver. Should prob	ably match it in this
	1>, RXD<32>, and RXD<63 the arrows.	> and move the	XGMII line with signal		Respon	se Status O		
Proposed Response	Response Status O			C/ 149 SC 14 Tu, Mike Comment Type E	9.3.2.2.5	P 96 Broadcom ent Status X	L 3	# 82
C/ 149 SC 149.3.2.2.3		L7	# 116	Should we use "	MultiGBASE-T1"	instead of "2.5G/50	G/10GBASE-T1"	?
	Aquantia Comment Status X arrows from the "Input to de					PCS" to "MultiGBAS odes" to "MultiGBAS		
XGMII at the top of the d SuggestedRemedy Reverse the arrows	lrawing should be pointing u	p towards the XG	GMII	Proposed Response	Respon	se Status O		
Proposed Response	Response Status O							

C/ 149 SC 149.3.2.2.5 Page 16 of 31 8/23/2019 10:10:21 AM

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

C/ 149 SC 149.3.2	2.1 4 <i>P</i> 98	L 28	# 91	C/ 149	SC 149.3.2.2	2.17	P 100	L 12	# 89
Tu, Mike	Broadcom			Tu, Mike		E	Broadcom		
Comment Type T	Comment Status X			Comment Ty	be T	Comment Sta	atus X		
Figure 149-6 shows t ^r	he PCS bit ordering, not Figure	149-8.		•				0	. The OAM symbol is
SuggestedRemedy						, · · ·		,	ntering into each RS DAM symbol the first
Change "Figure 149-8	8" to "Figure 149-6".				iter the RS FE				JAW Symbol the hist
Proposed Response	Response Status O			SuggestedRe	emedy				
						'tx_RSmessage< 3249:0> = tx_grou			<3249:0>."
C/ 149 SC 149.3.2	.2.14 P 98	L 31	# 90	0				5 . L.L. 10. 05. II	
Γu, Mike	Broadcom					"tx_RSmessage< 3259:3250> = OA			
Comment Type T	Comment Status X			– Proposed Re	sponse	Response Sta	ntus O		
The RS-FEC encoder	r input of 3260 bits consist of tx	_group50x65B A	AND the 10-bit OAM.						
		1.11 4011004							
	0-bit vector tx_group50x65B an Response Status O	id the 10-bit OAI	M_field, and"	McClellan, B <i>Comment Ty_l</i> typo		N Comment Sta	Aarvell atus X		
Proposed Response	Response Status O	L 10	M_field, and"	Comment Ty	pe E	-			
Proposed Response	Response Status O			Comment Typ typo	pe E emedy	-			
Proposed Response Cl 149 SC 149.3.2 Fu, Mike	Response Status O			Comment Typ typo SuggestedRe	be E emedy an' to 'a'	-	atus X		
Proposed Response Cl 149 SC 149.3.2 Fu, Mike Comment Type T	Response Status O	L 10	# 83	Comment Typ typo SuggestedRe change 'a Proposed Re	be E emedy an' to 'a' sponse	Comment Sta Response Sta	atus X Itus O		
Proposed Response Cl 149 SC 149.3.2. Tu, Mike Comment Type T The additive scramble quite correct.	Response Status O 2.2.17 P 100 Broadcom Comment Status X	L 10	# 83	Comment Typ typo SuggestedRe change 'a Proposed Re Cl 149	be E emedy an' to 'a'	Comment Sta Response Sta 2.18	atus X ntus O P101	L 35	# 84
Proposed Response Cl 149 SC 149.3.2. Fu, Mike Comment Type T The additive scramble quite correct. SuggestedRemedy	Response Status O .2.17 P 100 Broadcom Comment Status X er is added after the encoder ar	L 10 nd interleaver. S	# 83	Comment Typ typo SuggestedRe change 'a Proposed Re Cl 149 Tu, Mike	be E emedy an' to 'a' sponse SC 149.3.2.2	Comment Sta Response Sta 2.18	atus X ntus O P 101 Broadcom	L 35	# 84
Proposed Response 2/ 149 SC 149.3.2. ^T u, Mike Comment Type T The additive scramble quite correct. SuggestedRemedy Change from: "tx_RS	Response Status O 2.2.17 P 100 Broadcom Comment Status X	L 10 nd interleaver. S itive scrambling	# 83	Comment Ty _l typo SuggestedRe change 'a Proposed Re Cl 149 Tu, Mike Comment Ty _l	be E emedy an' to 'a' sponse SC 149.3.2.2 be E	Comment Sta Response Sta 2.18 Comment Sta	atus X ntus O P 101 Broadcom atus X		# 84
Proposed Response Cl 149 SC 149.3.2. Fu, Mike Comment Type T The additive scramble quite correct. SuggestedRemedy Change from: "tx_RS To: "tx_RSmessage<	Response Status O 2.2.17 P 100 Broadcom Comment Status X er is added after the encoder ar Gmessage<3259:0> prior to addl c3259:0> prior to the RS-FEC (3)	L 10 nd interleaver. S itive scrambling	# 83	Comment Ty _l typo SuggestedRe change 'a Proposed Re Cl 149 Tu, Mike Comment Ty _l	be E emedy an' to 'a' sponse SC 149.3.2.2 be E	Comment Sta Response Sta 2.18	atus X ntus O P 101 Broadcom atus X		# 84
Proposed Response Cl 149 SC 149.3.2. Fu, Mike Comment Type T The additive scramble quite correct. SuggestedRemedy Change from: "tx_RS To: "tx_RSmessage< Also add indents at lir	Response Status O 2.17 P 100 Broadcom Comment Status X er is added after the encoder ar Smessage<3259:0> prior to addi 3259:0> prior to the RS-FEC (3 ne 12 and line 14.	L 10 nd interleaver. S itive scrambling	# 83	Comment Tyj typo SuggestedRe change 'a Proposed Re Cl 149 Tu, Mike Comment Tyj Apply sul SuggestedRe	emedy an' to 'a' sponse SC 149.3.2.2 De E bscript format emedy	Comment Sta Response Sta 2.18 Comment Sta tting on the index	atus X P 101 Broadcom atus X "n" in Dn[0] a	nd Dn[1].	# 84
Proposed Response Cl 149 SC 149.3.2. Tu, Mike Comment Type T The additive scramble quite correct. SuggestedRemedy Change from: "tx_RS To: "tx_RSmessage<	Response Status O 2.2.17 P 100 Broadcom Comment Status X er is added after the encoder ar Gmessage<3259:0> prior to addl c3259:0> prior to the RS-FEC (3)	L 10 nd interleaver. S itive scrambling	# 83	Comment Tyj typo SuggestedRe change 'a Proposed Re Cl 149 Tu, Mike Comment Tyj Apply sul SuggestedRe	emedy an' to 'a' sponse SC 149.3.2.2 De E bscript format emedy	Comment Sta Response Sta 2.18 Comment Sta	atus X P 101 Broadcom atus X "n" in Dn[0] a	nd Dn[1].	# 84

C/ 149 SC 149.3.2.2.18

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

	2.2.18 <i>P</i> 101	L 42	# 85	C/ 149	SC 149.3.2.	2.20	P 102	L 27	# 45
Tu, Mike	Broadcom			Slavick, Je	ff	В	roadcom		
Comment Type T	Comment Status X			Comment 7	Type TR	Comment Sta	tus X		
Use "n" as the comn 149.3.2.2.20, and 14	non index of symbol numbers in 49.3.2.2.21.	time, in 149.3.2.2	.18, 149.3.2.2.19,			suppose to be ass ormation. So whic			oFields, which
SuggestedRemedy				Suggestedl	Remedy				
	e 35, insert a new paragraph as f iting the symbol number".	ollows:		0	e "two bits in the ges (see 149.4.		ges" to "the F	PrecodeSel field	from the InfoField
2. In in 149.3.2.2.18 changes:	, 149.3.2.2.19, 149.3.2.2.20, and	l 149.3.2.2.21, ap	olying the following	Proposed F	Response	Response Sta	tus O		
2.1 Change all bit no 2.2 Change all bit no 2.3 Change all "G(j)"	" to "P(n) [′] ", all "P(j-1)" to "P(n-1)", o "M(n)".	eans subscript for	matting.	Cl 149 Wienckows Comment 7 What is	,	G Comment Sta	P 102 eneral Motor tus X	L 51 ''s	# 22
010	3, line 6 from "The PAM4 encode ded symbols are denoted M(n)."	d symbols are de	noted M(u), where:"	0	Remedy e: PAM4 mode M4 encoding	9			
to "The PAM4 encod 4. Delete page 103,	line o.			Proposed F	Response	Response Sta	tus O		
	Response Status O								
4. Delete page 103, Proposed Response	Response Status O	L 53	# [133	C/ 149	SC 149.3.2.	3	P 104	L 39	# 86
4. Delete page 103, Proposed Response	Response Status O 2.2.19 P 101		# [<u>133</u> Aquantia, BMW, Cisc	<i>Cl</i> 149 Tu, Mike	SC 149.3.2.3	-	P 104 roadcom	L 39	# 86
4. Delete page 103, Proposed Response Cl 149 SC 149.3. Zimmerman, George	Response Status O 2.2.19 P 101					-	roadcom	L 39	# <u>86</u>
4. Delete page 103, Proposed Response Cl 149 SC 149.3 . Zimmerman, George Comment Type E Missing comma on p	Response Status O 2.2.19 P 101 CME Consulti Comment Status X parenthetical phrase: "Each pair	ng/ADI, APL Gp, J	Aquantia, BMW, Cisc	Tu, Mike Comment 1		B Comment Sta	roadcom	L 39	# [<u>86</u>
4. Delete page 103, Proposed Response Cl 149 SC 149.3.2 Zimmerman, George Comment Type E Missing comma on p arriving first is conve	Response Status O 2.2.19 P 101 CME Consulti Comment Status X parenthetical phrase: "Each pair	ng/ADI, APL Gp, J	Aquantia, BMW, Cisc	Tu, Mike Comment 7 Redund Suggested	^r ype E dant statement ² Remedy	B Comment Sta ?	roadcom tus X		
4. Delete page 103, Proposed Response Cl 149 SC 149.3. Zimmerman, George Comment Type E Missing comma on p arriving first is conve SuggestedRemedy change "Each pair o	Response Status O 2.2.19 P 101 CME Consulti Comment Status X parenthetical phrase: "Each pair	ng/ADI, APL Gp, of bits, {A, B}, whe	Aquantia, BMW, Cisc ere A is the bit	Tu, Mike Comment T Redund Suggested Change and fift	<i>Type</i> E dant statement' Remedy e from: " sepa y 64B/65B bloc	B Comment Sta ? arated into a 10-bi	roadcom <i>tus</i> X t OAM field, s	separated from t	# 86

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: Clause, Subclause, page, line

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

/ 149 SC 149.3.2.3	P 105	L 15	# 134	C/ 149 S	C 149.3.6	P	108	L 31	# 154
immerman, George			Aquantia, BMW, Cisc	McClellan, Bre		, Mar		201	" 104
omment Type T	Comment Status X		Aquantia, Divivi, Oloo	Comment Type		Comment Status			
"and subject to the timin 46.1.7.46.1.7 is the ma	ng requirements of 46.1.7" - t apping of primitives. Do you				he link partn				
transition?				SuggestedRen	nedy				
uggestedRemedy				change to	"offset betwe	een the link partners	."		
Change 46.1.7 to 46.3.1				Proposed Res	ponse	Response Status	0		
roposed Response	Response Status O								
				C/ 149 S	SC 149.3.6	Р	109	L 37	# 161
149 SC 149.3.2.3.		L 37	# 87	McClellan, Bre	ett	Mar	vell		
u, Mike	Broadcom			Comment Type	÷Τ	Comment Status	S X		
omment Type T The description should o	Comment Status X consider the interleved cases	S.			01	alk about the transm /er behavior.	itter and sign	aling, suddei	nly this paragraph
uggestedRemedy									
	rx_PAM4_0 to rx_PAM4_179			SuggestedRen	•				
Change from: " from r To: " from rx PAM4 (0 to rx PAM4 1800xL-1, whe			Change te	xt to	occurs at the transm	ission of the	alert signal ir	ndicating the end o
Change from: " from r	0 to rx PAM4 1800xL-1, whe			Change te: "The end c quiet-refres	xt to of LPI mode o sh cycle."			alert signal ir	ndicating the end o
Change from: " from r To: " from rx_PAM4_(Figure 149–7 for the L=	0 to rx_PAM4_1800xL-1, whe 1 case)."			Change te: "The end c quiet-refres also move	xt to of LPI mode o sh cycle." this orphane	ed text prior to figure	149-14	alert signal ir	ndicating the end o
Change from: " from r To: " from rx_PAM4_(Figure 149–7 for the L= roposed Response	0 to rx_PAM4_1800xL-1, whe 1 case)."			Change te: "The end c quiet-refres	xt to of LPI mode o sh cycle." this orphane		149-14	alert signal ir	ndicating the end o
Change from: " from r To: " from rx_PAM4_(Figure 149–7 for the L= oposed Response 149 SC 149.3.6	0 to rx_PAM4_1800xL-1, whe 1 case)." <i>Response Status</i> 0	ere L is the interle	eaving depth (see	Change te: "The end o quiet-refres also move Proposed Resp	xt to of LPI mode o sh cycle." this orphane	ed text prior to figure Response Status	149-14	alert signal ir	ndicating the end o
Change from: " from r To: " from rx_PAM4_(Figure 149–7 for the L= posed Response 149 SC 149.3.6 Clellan, Brett mment Type T	0 to rx_PAM4_1800xL-1, whe 1 case)." <i>Response Status</i> 0 <i>P</i> 108 Marvell Comment Status X	ere L is the interle	eaving depth (see # <mark>160</mark>	Change te: "The end o quiet-refres also move Proposed Resp	xt to of LPI mode of sh cycle." this orphane boonse	ed text prior to figure Response Status	0 149-14 0		
Change from: " from r To: " from rx_PAM4_(Figure 149–7 for the L= oposed Response 149 SC 149.3.6 cClellan, Brett mment Type T "The transmit function o	0 to rx_PAM4_1800xL-1, whe 1 case)." <i>Response Status</i> O <i>P</i> 108 Marvell <i>Comment Status</i> X of the PHY initiates a transitio	ere L is the interle	eaving depth (see # [<u>160</u>	Change te: "The end o quiet-refree also move Proposed Resp Cl 149 S McClellan, Bre	xt to of LPI mode of sh cycle." this orphane boonse CC 149.3.6.1	ed text prior to figure Response Status P	149-14 O 109 vell		
Change from: " from r To: " from rx_PAM4 (Figure 149–7 for the L= roposed Response 149 SC 149.3.6 cClellan, Brett comment Type T "The transmit function o mode when it generates	0 to rx_PAM4_1800xL-1, whe 1 case)." <i>Response Status</i> O <i>P</i> 108 Marvell <i>Comment Status</i> X of the PHY initiates a transitio s 8 RS-FEC frames compose	ere L is the interle	# 160 # 160	Change te: "The end o quiet-refres also move Proposed Resp C/ 149 S McClellan, Bre Comment Type	xt to of LPI mode of sh cycle." this orphane ponse CC 149.3.6.1 ett c T	ed text prior to figure Response Status P Mar	• 149-14 • O 109 vell • X	L 45	# [162
Change from: " from r To: " from rx_PAM4 (Figure 149–7 for the L= oposed Response 149 SC 149.3.6 cClellan, Brett omment Type T "The transmit function o mode when it generates described in 149.3.2.2.2 using the sleep signal"	0 to rx_PAM4_1800xL-1, whe 1 case)." <i>Response Status</i> O <i>P</i> 108 Marvell <i>Comment Status</i> X of the PHY initiates a transition s 8 RS-FEC frames compose 22. The transmit function of th	L is the interle	# 160 # 160 smit control characters, as inals the transition	Change te: "The end o quiet-refres also move Proposed Resp Cl 149 S McClellan, Bre Comment Type "An EEE-c frame Cou	xt to of LPI mode of sh cycle." this orphane bonse C 149.3.6.1 ett e T eapable PHY nt"	ed text prior to figure Response Status P Mar Comment Status in SLAVE mode is n	149-14 O 109 vell s X responsible fo	L 45	# [162
Change from: " from r To: " from rx_PAM4_(Figure 149–7 for the L= roposed Response 149 SC 149.3.6 IcClellan, Brett comment Type T "The transmit function o mode when it generates described in 149.3.2.2.2 using the sleep signal" awkward language and	0 to rx_PAM4_1800xL-1, whe 1 case)." <i>Response Status</i> O <i>P</i> 108 Marvell <i>Comment Status</i> X of the PHY initiates a transitio s 8 RS-FEC frames compose	L is the interle	# 160 # 160 smit control characters, as inals the transition	Change te: "The end of quiet-refres also move Proposed Resp C/ 149 S McClellan, Bre Comment Type "An EEE-c frame Cou This is not	xt to of LPI mode of sh cycle." this orphane bonse C 149.3.6.1 ett capable PHY nt" correct. All F	ed text prior to figure Response Status P Mar Comment Status	149-14 O 109 vell s X responsible fo	L 45	# [162
Change from: " from r To: " from rx_PAM4 (Figure 149–7 for the L= roposed Response 1 149 SC 149.3.6 IcClellan, Brett omment Type T "The transmit function o mode when it generates described in 149.3.2.2.2 using the sleep signal"	0 to rx_PAM4_1800xL-1, whe 1 case)." <i>Response Status</i> O <i>P</i> 108 Marvell <i>Comment Status</i> X of the PHY initiates a transition s 8 RS-FEC frames compose 22. The transmit function of th	L is the interle	# 160 # 160 smit control characters, as inals the transition	Change te: "The end of quiet-refres also move Proposed Resp C/ 149 S McClellan, Bre Comment Type "An EEE-co frame Cou This is not SuggestedRen	xt to of LPI mode of sh cycle." this orphane ponse CC 149.3.6.1 ett correct. All F nedy	ed text prior to figure Response Status P Mar Comment Status in SLAVE mode is i PHYs in slave mode	149-14 O 109 vell s X responsible fo	L 45	# [162
Change from: " from r To: " from rx_PAM4 (Figure 149–7 for the L= roposed Response 149 SC 149.3.6 IcClellan, Brett comment Type T "The transmit function o mode when it generates described in 149.3.2.2.2 using the sleep signal" awkward language and and LPI signaling.	0 to rx_PAM4_1800xL-1, whe 1 case)." <i>Response Status</i> O <i>P</i> 108 Marvell <i>Comment Status</i> X of the PHY initiates a transition s 8 RS-FEC frames compose 22. The transmit function of th	L is the interle	# 160 # 160 smit control characters, as inals the transition	Change te: "The end of quiet-refres also move Proposed Resp C/ 149 S McClellan, Bre Comment Type "An EEE-c frame Cou This is not SuggestedRen change "A	xt to of LPI mode of sh cycle." this orphane ponse C 149.3.6.1 ett T rapable PHY nt" correct. All F nedy An EEE-capa	ed text prior to figure Response Status P Mar Comment Status in SLAVE mode is i PHYs in slave mode	149-14 O 109 vell s X responsible fo	L 45	# [162
Change from: " from rr To: " from rx_PAM4 (Figure 149–7 for the L= Proposed Response 7 149 SC 149.3.6 AcClellan, Brett Comment Type T "The transmit function o mode when it generates described in 149.3.2.2.2 using the sleep signal" awkward language and and LPI signaling.	0 to rx_PAM4_1800xL-1, whe 1 case)." <i>Response Status</i> O <i>P</i> 108 Marvell <i>Comment Status</i> X of the PHY initiates a transition s 8 RS-FEC frames compose 22. The transmit function of th	L is the interle	# 160 # 160 smit control characters, as inals the transition	Change te: "The end of quiet-refres also move Proposed Resp C/ 149 S McClellan, Bre Comment Type "An EEE-c frame Cou This is not SuggestedRen change ""A to "A PHY"	xt to of LPI mode of sh cycle." this orphane bonse C 149.3.6.1 ett apable PHY nt" correct. All F nedy An EEE-capa	ed text prior to figure <i>Response Status</i> <i>P</i> Mar <i>Comment Status</i> in SLAVE mode is i PHYs in slave mode	a 149-14 O 109 vell s X responsible fo must sync.	L 45	# [162
Change from: " from rr To: " from rx_PAM4 (Figure 149–7 for the L= Proposed Response 7/ 149 SC 149.3.6 AcClellan, Brett Comment Type T "The transmit function o mode when it generates described in 149.3.2.2.2 using the sleep signal" awkward language and and LPI signaling. Change to "The transmit function o generating the sleep sig	0 to rx_PAM4_1800xL-1, whe 1 case)." <i>Response Status</i> O <i>P</i> 108 Marvell <i>Comment Status</i> X of the PHY initiates a transition s 8 RS-FEC frames compose 22. The transmit function of th	ere L is the interle L 16 L 16 L 16 L 16 L 16 L 16 L 17 L 16 L 17 L 18 L 18 L 18 L 18 L 18 L 18 L 18 L 18	# 160 # 160 amit control characters, as inals the transition bout the local device	Change te: "The end of quiet-refres also move Proposed Resp C/ 149 S McClellan, Bre Comment Type "An EEE-c frame Cou This is not SuggestedRen change "A	xt to of LPI mode of sh cycle." this orphane bonse C 149.3.6.1 ett apable PHY nt" correct. All F nedy An EEE-capa	ed text prior to figure Response Status P Mar Comment Status in SLAVE mode is i PHYs in slave mode	a 149-14 O 109 vell s X responsible fo must sync.	L 45	# [162

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: Clause, Subclause, page, line

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

C/ 149	SC 149.3.6.1	P 109	L 47	# 104	C/ 149	SC 14	9.3.6.1		P 110	L 3	# 106
Graba, Jim	I	Broadcom			Graba, Jim	ı			Broadcom		
Comment 1	Гуре Е	Comment Status X			Comment 7	Type 1	Г	Comment St	tatus X		
		ntence is confusing and redun t can be found in 149.4.2.4.10					0	e term "RS-FE			
		entering the COUNTDOWN						e count" is a co ate the length o		er of the RS-FI	EC frames. But in Table
		frame to within +0/–4 × S (See he MASTER as seen at the S			Suggestedl	Remedy					
, partial l		nt shall match the MASTER Ir					•	the top row of t me periods".	he second col	umn from "RS-	FEC frame count" to
Suggestedl	Remedy				Proposed F	Response	•	Response St	atus O		
Replac	e the last two se	entences: "For 10GBASE-T1,	5GBASE-T1, an	nd 2.5GBASE-T1 the							
	's PFC24 are + ER's PFC24."	0/–4, +0/–2, and +0/–1 partial	frames respectiv	vely with respect to the	C/ 149	SC 14	9.3.6.1		P 110	L 26	# 51
		nts on the SLAVE and the MA	STER frame ali	gnment, see	Lo, William	ı			Axonne Inc.		
149.4.2 Proposed F		Response Status O			Comment 1	Type 1	г	Comment St	atus X		
					intende			the ALER Is do	not overlap, b	out we determin	ed that they may
	SC 149.3.6.1		L 47	# 163	not ove	erlap is sti		the tolerance ir efit. Rephrase			he ALERTs mostly do
C/ 149 McClellan,	Brett	Marvell	L 47	# [163	not ove Suggested	erlap is sti Remedy					he ALERTs mostly do
McClellan, Comment 7 "For 10 and +0	Brett <i>Type</i> T)GBASE-T1, 5G /–1 partial frame entence contradi		the SLAVE's PF the MASTER's	=C24 are +0/–4, +0/–2, PFC24."	not ove <i>Suggestedl</i> Change "may o	erlap is sti <i>Remedy</i> e overlap" to y will not c	ill a bene overlap"	efit. Rephrase	as shown belo		he ALERTs mostly do
McClellan, Comment 1 "For 10 and +0, This se of the r Suggested/	Brett Type T OGBASE-T1, 5G /–1 partial frame intence contradi master.	Marvell Comment Status X BASE-T1, and 2.5GBASE-T1 es respectively with respect to	the SLAVE's PF the MASTER's	=C24 are +0/–4, +0/–2, PFC24."	not ove Suggested Change "may o "mostly	erlap is sti Remedy e vverlap" to y will not c Response	ill a bene overlap"	efit. Rephrase	as shown belo		he ALERTs mostly do
McClellan, Comment 1 "For 10 and +0, This se of the r Suggestedl delete t	Brett <i>Type</i> T DGBASE-T1, 5G /–1 partial frame entence contradinater. <i>Remedy</i> the sentence	Marvell Comment Status X BASE-T1, and 2.5GBASE-T1 es respectively with respect to lots the prior sentence which re	the SLAVE's PF the MASTER's	=C24 are +0/–4, +0/–2, PFC24."	not ove Suggested/ Change "may o "mostly Proposed F	erlap is sti Remedy e verlap" to y will not o Response SC 14	ill a bene boverlap"	efit. Rephrase Response St	as shown belo atus O	DW.	
McClellan, Comment 7 "For 10 and +0 This se of the r Suggested/	Brett <i>Type</i> T DGBASE-T1, 5G /–1 partial frame entence contradinater. <i>Remedy</i> the sentence	Marvell Comment Status X BASE-T1, and 2.5GBASE-T1 es respectively with respect to	the SLAVE's PF the MASTER's	FC24 are +0/–4, +0/–2, PFC24." e to match the PFC24	not ove Suggested/ Change "may o "mostly Proposed F C/ 149 Graba, Jim Comment 1	erlap is sti Remedy e vverlap" to y will not c Response SC 14 Type 1) overlap" 9.3.6.2	efit. Rephrase Response Sta Comment St	as shown belo atus O P 111 Broadcom tatus X	DW.	# [107
McClellan, Comment 1 "For 10 and +0, This se of the r Suggestedl delete t	Brett <i>Type</i> T DGBASE-T1, 5G /–1 partial frame entence contradinater. <i>Remedy</i> the sentence	Marvell Comment Status X BASE-T1, and 2.5GBASE-T1 es respectively with respect to icts the prior sentence which re Response Status O	the SLAVE's PF the MASTER's	=C24 are +0/–4, +0/–2, PFC24."	not ove Suggested/ Change "may o "mostly Proposed F C/ 149 Graba, Jim Comment 7 It is not	erlap is sti Remedy e vverlap" to y will not o Response SC 14 Type 1 t clear wh) overlap" 9.3.6.2	efit. Rephrase Response Sta Comment St	as shown belo atus O P 111 Broadcom tatus X	ъw. L 3	# [107
McClellan, Comment 7 "For 10 and +0, This se of the r Suggested/ delete t Proposed F	Brett <i>Type</i> T DGBASE-T1, 5G /-1 partial frame intence contradi master. <i>Remedy</i> the sentence <i>Response</i> <i>SC</i> 149.3.6.1	Marvell Comment Status X BASE-T1, and 2.5GBASE-T1 es respectively with respect to icts the prior sentence which re Response Status O	the SLAVE's PF the MASTER's equires the slave	FC24 are +0/–4, +0/–2, PFC24." e to match the PFC24	not ove Suggested Change "may o "mostly Proposed F Cl 149 Graba, Jim Comment 1 It is not Suggested	erlap is sti Remedy e vverlap" to y will not o Response SC 14 Type 1 t clear wh Remedy	overlap" 9.3.6.2 r at it mea	efit. Rephrase Response Sta Comment St ans by "the tran	as shown belo atus O P 111 Broadcom tatus X nsmitter shall s	<i>L</i> 3 stop transmittin	# [<u>107</u>
McClellan, Comment 7 "For 10 and +0, This se of the r Suggested/ delete t Proposed F Cl 149 Graba, Jim Comment 7	Brett <i>Type</i> T DGBASE-T1, 5G /-1 partial frame entence contradinaster. <i>Remedy</i> the sentence <i>Response</i> SC 149.3.6.1 <i>Type</i> T	Marvell <i>Comment Status</i> X BASE-T1, and 2.5GBASE-T1 as respectively with respect to icts the prior sentence which re- <i>Response Status</i> O <i>P</i> 109 Broadcom <i>Comment Status</i> X	the SLAVE's PF the MASTER's equires the slave	FC24 are +0/–4, +0/–2, PFC24." e to match the PFC24 # 105	not ove Suggested/ Change "may o "mostly Proposed F C/ 149 Graba, Jim Comment 7 It is not Suggested/ Change	erlap is sti Remedy e vverlap" to y will not o Response SC 14 Type 1 t clear wh Remedy e the sent	9.3.6.2 Flat it mea	efit. Rephrase <i>Response St</i> <i>Comment St</i> ans by "the tran om: "During the	as shown belo atus O P 111 Broadcom fatus X nsmitter shall s e quiet period t	<i>L</i> 3 stop transmittin	# 107 g". shall stop transmitting."
McClellan, Comment 7 "For 10 and +0, This se of the r Suggested/ delete t Proposed F Cl 149 Graba, Jim Comment 7	Brett <i>Type</i> T DGBASE-T1, 5G /-1 partial frame entence contradinaster. <i>Remedy</i> the sentence <i>Response</i> SC 149.3.6.1 <i>Type</i> T	Marvell <i>Comment Status</i> X BASE-T1, and 2.5GBASE-T1 as respectively with respect to icts the prior sentence which re- <i>Response Status</i> O <i>P</i> 109 Broadcom	the SLAVE's PF the MASTER's equires the slave	FC24 are +0/–4, +0/–2, PFC24." e to match the PFC24 # 105	not ove Suggested/ Change "may o "mostly Proposed F C/ 149 Graba, Jim Comment 7 It is not Suggested/ Change To: "Du	erlap is sti Remedy e vverlap" to y will not c Response SC 14 Type T t clear wh Remedy e the sent	9.3.6.2 Flat it mea	efit. Rephrase <i>Response St</i> <i>Comment St</i> ans by "the tran om: "During the riod the PCS tr	as shown belo atus O P 111 Broadcom fatus X nsmitter shall s e quiet period t	<i>L</i> 3 stop transmittin	# [<u>107</u>
McClellan, Comment 7 "For 10 and +0, This se of the r Suggested/ delete 1 Proposed F C/ 149 Graba, Jim Comment 7 The for	Brett <i>Type</i> T DGBASE-T1, 5G /-1 partial frame entence contradinaster. <i>Remedy</i> the sentence <i>Response</i> <i>SC</i> 149.3.6.1 <i>Type</i> T mula may result	Marvell <i>Comment Status</i> X BASE-T1, and 2.5GBASE-T1 as respectively with respect to icts the prior sentence which re- <i>Response Status</i> O <i>P</i> 109 Broadcom <i>Comment Status</i> X	the SLAVE's PF the MASTER's equires the slave	FC24 are +0/–4, +0/–2, PFC24." e to match the PFC24 # 105	not ove Suggested Change "may o "mostly Proposed F Cl 149 Graba, Jim Comment T It is not Suggested Change To: "Du PMA_U	erlap is sti Remedy e vverlap" to y will not o Response SC 14 Type 1 t clear wh Remedy e the sent uring the o JNITDAT.	9.3.6.2 F tence from quiet per A.request	efit. Rephrase Response Sta Comment St ans by "the tran om: "During the riod the PCS tr st interface."	as shown belo atus O P 111 Broadcom tatus X nsmitter shall s e quiet period t ansmitter shal	<i>L</i> 3 stop transmittin	# 107 g". shall stop transmitting."
McClellan, Comment 7 "For 10 and +0, This se of the r Suggested/ delete 1 Proposed F C/ 149 Graba, Jim Comment 7 The for Suggested/	Brett <i>Type</i> T DGBASE-T1, 5G /-1 partial frame intence contradi master. <i>Remedy</i> the sentence <i>Response</i> <i>SC</i> 149.3.6.1 <i>Type</i> T mula may resul <i>Remedy</i>	Marvell <i>Comment Status</i> X BASE-T1, and 2.5GBASE-T1 as respectively with respect to icts the prior sentence which re- <i>Response Status</i> O <i>P</i> 109 Broadcom <i>Comment Status</i> X	the SLAVE's PF the MASTER's equires the slave <i>L</i> 52 RS-FEC frame c	FC24 are +0/–4, +0/–2, PFC24." e to match the PFC24 # 105	not ove Suggested/ Change "may o "mostly Proposed F C/ 149 Graba, Jim Comment 7 It is not Suggested/ Change To: "Du	erlap is sti Remedy e vverlap" to y will not o Response SC 14 Type 1 t clear wh Remedy e the sent uring the o JNITDAT.	9.3.6.2 F tence from quiet per A.request	efit. Rephrase <i>Response St</i> <i>Comment St</i> ans by "the tran om: "During the riod the PCS tr	as shown belo atus O P 111 Broadcom tatus X nsmitter shall s e quiet period t ansmitter shal	<i>L</i> 3 stop transmittin	# 107 g". shall stop transmitting."

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/149Page 20 of 31COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC149.8/23/2019 10:10:21 AMSORT ORDER: Clause, Subclause, page, line

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

	SC 149.3.6.3	P 111	L 8	# 108	C/ 149	SC 149.3.6.3	P 111	L 11	# 110
Graba, Jim		Broadcom			Graba, Jin	1	Broadcom		
Comment Typ	pe T	Comment Status X			Comment	Туре Е	Comment Status X		
The "side	e-stream scraml	bler" is in the PCS, not in the	PMA.				ning sequence described in ?		
SuggestedRe	e <i>medy</i> PMA" from this s	entence			inform	ation.	ers free-running from PCS Re	eset" is confusin	ng and adds no new
					Suggestea	Remedy			
Proposed Res	sponse	Response Status O			Delete	this sentence.			
					Proposed	Response	Response Status O		
C/ 149	SC 149.3.6.3	P 111	L 9	# 164					
McClellan, Br	rett	Marvell			C/ 149	SC 149.3.7.3	P 116	L 50	# 111
Comment Typ	pe T	Comment Status X			Graba, Jin	1	Broadcom		
		ems with this paragraph. Tw			Comment	Туре Т	Comment Status X		
	ate PAM2 mapp	sequence are not specified ing.	in 149.3.4. it as		The R	ER Monitor stat	e monitors the RS-FEC frame	e error ratio.	
		C C			Suggested	Remedy			
SuggestedRe	emedy				Chang	e from: "… monit	ors the received signal for high	gh Reed Solomo	on frame error ratio."
		I refresh symbols are genera			To: "	monitors the red	eived signal for high RS-FEC	frame error rat	tio."
		escribed in 149.3.4 and exact			Proposed	Response	Response Status O		
the excer	buon inal ine in	fofield consists of a sequenc	e of 128 zeros.	The 10-bit OAM	i iopoocu i	,			
symbol to	o be transmitted	fofield consists of a sequenc I is XORed with the last 10 b	its of the PAM2	refresh transmission.	, ropodcu ,	,			
symbol to The traini	o be transmitted ing sequence d	I is XORed with the last 10 b escribed in 149.3.4 shall be	its of the PAM2	refresh transmission.	, 	SC 149.3.7.3		<i>L</i> 1	# 112
symbol to The traini scramble to "Two-le	o be transmitted ing sequence d ers free-running level PAM refres	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro	its of the PAM2 used during the om the T_n map	refresh transmission. I LPI mode, with the oping defined in	C/ 149	SC 149.3.7.3	Р117	L1	# 112
symbol to The traini scramble to "Two-le 149.3.5.1	o be transmitted ing sequence d ers free-running level PAM refres 1 of S_n defined	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro I in 149.3.5 with the exceptio	its of the PAM2 used during the om the T_n map n that the Infofi	refresh transmission. ELPI mode, with the oping defined in eld consists of a	C/ 149 Graba, Jin	1	P 117 Broadcom	L1	# [112
symbol to The traini scramble to "Two-le 149.3.5.1 sequence	o be transmitted ing sequence d ers free-running level PAM refres 1 of S_n defined e of 128 zeros.	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro	its of the PAM2 used during the om the T_n map n that the Infofi	refresh transmission. ELPI mode, with the oping defined in eld consists of a	Cl 149 Graba, Jin Comment	і Туре Е	P 117 Broadcom Comment Status X	L1	# <u>112</u>
symbol to The traini scramble to "Two-le 149.3.5.1 sequence	o be transmitted ing sequence d ers free-running level PAM refres 1 of S_n defined e of 128 zeros.	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro I in 149.3.5 with the exceptio The 10-bit OAM symbol to b	its of the PAM2 used during the om the T_n map n that the Infofi	refresh transmission. ELPI mode, with the oping defined in eld consists of a	Cl 149 Graba, Jin Comment "65B-F	n <i>Type E</i> RS_FEC" should	P 117 Broadcom	<i>L</i> 1	# 112
symbol to The traini scramble to "Two-le 149.3.5.1 sequence 10 bits of	o be transmitted ing sequence d ers free-running level PAM refres 1 of S_n defined e of 128 zeros. f the PAM2 refre	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro I in 149.3.5 with the exceptio The 10-bit OAM symbol to b	its of the PAM2 used during the om the T_n map n that the Infofi	refresh transmission. ELPI mode, with the oping defined in eld consists of a	C/ 149 Graba, Jin Comment "65B-F Suggested	n <i>Type</i> E RS_FEC" should <i>Remedy</i>	P 117 Broadcom Comment Status X be "65B RS-FEC".	<i>L</i> 1	# [112
symbol to The traini scramble to "Two-le 149.3.5.1 sequence 10 bits of	o be transmitted ing sequence d ers free-running level PAM refres 1 of S_n defined e of 128 zeros. f the PAM2 refre	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro i in 149.3.5 with the exceptio The 10-bit OAM symbol to b esh transmission."	its of the PAM2 used during the om the T_n map n that the Infofi	refresh transmission. ELPI mode, with the oping defined in eld consists of a	Cl 149 Graba, Jin Comment "65B-F Suggested Chang	n <i>Type</i> E RS_FEC" should <i>Remedy</i> e "65B-RS_FEC"	P 117 Broadcom Comment Status X be "65B RS-FEC".	L1	# 112
symbol to The traini scramble to "Two-le 149.3.5.1 sequence 10 bits of Proposed Res	o be transmitted ing sequence d ers free-running level PAM refres 1 of S_n defined e of 128 zeros. f the PAM2 refre	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro i in 149.3.5 with the exceptio The 10-bit OAM symbol to b esh transmission."	its of the PAM2 used during the om the T_n map n that the Infofi	refresh transmission. LPI mode, with the oping defined in eld consists of a XORed with the last	C/ 149 Graba, Jin Comment "65B-F Suggested	n <i>Type</i> E RS_FEC" should <i>Remedy</i> e "65B-RS_FEC"	P 117 Broadcom Comment Status X be "65B RS-FEC".	L1	# <u>112</u>
symbol to The traini scramble to "Two-le 149.3.5.1 sequence 10 bits of Proposed Res	o be transmitted ing sequence d ers free-running level PAM refres 1 of S_n defined e of 128 zeros. f the PAM2 refre esponse	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro i in 149.3.5 with the exceptio The 10-bit OAM symbol to b esh transmission." Response Status O	its of the PAM2 used during the om the T_n map n that the Infofi e transmitted is	refresh transmission. ELPI mode, with the oping defined in eld consists of a	Cl 149 Graba, Jin Comment "65B-F Suggested Chang	n <i>Type</i> E RS_FEC" should <i>Remedy</i> e "65B-RS_FEC"	P 117 Broadcom Comment Status X be "65B RS-FEC".	L1	# <u>112</u>
symbol to The traini scrambler to "Two-le 149.3.5.1 sequence 10 bits of Proposed Res C/ 149 Graba, Jim	b be transmitted bing sequence d ers free-running level PAM refres 1 of S_n defined e of 128 zeros. f the PAM2 refre esponse SC 149.3.6.3	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro I in 149.3.5 with the exceptio The 10-bit OAM symbol to be esh transmission." Response Status 0 P111	its of the PAM2 used during the om the T_n map n that the Infofi e transmitted is	refresh transmission. LPI mode, with the oping defined in eld consists of a XORed with the last	Cl 149 Graba, Jin Comment "65B-F Suggested Chang	n <i>Type</i> E RS_FEC" should <i>Remedy</i> e "65B-RS_FEC"	P 117 Broadcom Comment Status X be "65B RS-FEC".	L1	# <u>112</u>
symbol to The traini scrambler to "Two-le 149.3.5.1 sequence 10 bits of Proposed Res Cl 149 Graba, Jim Comment Typ	b be transmitted bing sequence d ers free-running level PAM refres 1 of S_n defined e of 128 zeros. f the PAM2 refres esponse SC 149.3.6.3 pe T	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro i in 149.3.5 with the exceptio The 10-bit OAM symbol to be esh transmission." Response Status 0 P111 Broadcom	its of the PAM2 used during the om the T_n map n that the Infofi e transmitted is	trefresh transmission. Prefresh transmission. Provide the Provide t	Cl 149 Graba, Jin Comment "65B-F Suggested Chang	n <i>Type</i> E RS_FEC" should <i>Remedy</i> e "65B-RS_FEC"	P 117 Broadcom Comment Status X be "65B RS-FEC".	L1	# <u>112</u>
symbol to The traini scramble to "Two-le 149.3.5.1 sequence 10 bits of Proposed Res Cl 149 Graba, Jim Comment Typ Mention of	o be transmitted ing sequence d ers free-running level PAM refres 1 of S_n defined e of 128 zeros. f the PAM2 refre esponse SC 149.3.6.3 pe T of Infofield is dis	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro in 149.3.5 with the exceptio The 10-bit OAM symbol to be esh transmission." Response Status 0 P111 Broadcom Comment Status X	its of the PAM2 used during the om the T_n map n that the Infofi e transmitted is	trefresh transmission. Prefresh transmission. Provide the Provide t	Cl 149 Graba, Jin Comment "65B-F Suggested Chang	n <i>Type</i> E RS_FEC" should <i>Remedy</i> e "65B-RS_FEC"	P 117 Broadcom Comment Status X be "65B RS-FEC".	L1	# <u>112</u>
symbol to The traini scramble to "Two-le 149.3.5.1 sequence 10 bits of Proposed Res C/ 149 Graba, Jim Comment Typ Mention of SuggestedRe Remove	o be transmitted ing sequence d ers free-running level PAM refres 1 of S_n defined e of 128 zeros. f the PAM2 refre esponse SC 149.3.6.3 pe T of Infofield is dis emedy " with the except	I is XORed with the last 10 b escribed in 149.3.4 shall be from PCS Reset. " sh symbols are generated fro the 10-bit OAM symbol to be esh transmission." Response Status O P111 Broadcom Comment Status X stracting. And there aren't 12	its of the PAM2 used during the om the T_n map n that the Infofi e transmitted is	trefresh transmission. Prefresh transmission. Provide the Provide t	Cl 149 Graba, Jin Comment "65B-F Suggested Chang	n <i>Type</i> E RS_FEC" should <i>Remedy</i> e "65B-RS_FEC"	P 117 Broadcom Comment Status X be "65B RS-FEC".	L1	# <u>112</u>

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: Clause, Subclause, page, line

C/ 149 SC 149.3.7.3 Page 21 of 31 8/23/2019 10:10:21 AM

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

7/149 SC 149.3.8.1 P117 L40 # 1	C/ 149 SC 149.3.8.2 P 121 L 14 # 53
Graba, Jim Broadcom	Lo, William Axonne Inc.
Comment Type T Comment Status X	Comment Type TR Comment Status X
In Figure 149-18, there are no states named "RECEIVE_LPI" or "RECEIVE_WA	, 5
uggestedRemedy	Scenario: LPI is send at the initial RS frame just as lp_low_snr=1
1. Change "RECEIVE_LPI" to "RX_L".	TX_L state is entered and tx_lpi_req never gets set to true
2. Change "RECEIVE_WAKE" to "RX_W". 3. Change "Figure 149-18" to "Figure "149-19".	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
roposed Response Response Status O	so never enters into SEND_SLEEP to set tx_lpi_active to true.
Response Status O	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.
149 SC 149.3.8.1 P 117 L 45 # 1	SuggestedRemedy
raba, Jim Broadcom	Change:
omment Type T Comment Status X	(lp_low_snr + T_TYPE(tx_raw) = (C + D + E + S + T)) * tx_lpi_active
In Figure 149-16, there are no states named "SEND_LPI" or "SEND_WAKE". In	
20, there is SEND_WAKE, but no SEND_LPI. The text should refer to the correc Figure 149-17.	Proposed Response Response Status O
uggestedRemedy	hoposed hesponse hesponse status
1. Change "SEND LPI" to "TX L".	
2. Change "SEND_WAKE" to "TX_WN".	C/ 149 SC 149.3.8.3 P 125 L 3 # 88
3. Change "Figure 149-16" to "Figure "149-17".	Tu, Mike Broadcom
roposed Response Response Status O	Comment Type T Comment Status X
	Although both 3.0.14 and 3.2322.14 are copies of each other, I thnk it is better to refer to 3.2322.14 here.
	SuggestedRemedy
	Change "3.0.14" to "3.2322.14".
	Proposed Response Response Status O

C/ 149 SC 149.3.8.3

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

C/ 149 SC 149.3.9	P 125	L 12	# 127	C/ 149	SC 149.3.9	2.13	P 130	L 6	# 14
Zimmerman, George	CME Consultin	g/ADI, APL Gp	o, Aquantia, BMW, Cisc	Anslow, Pe	ete		Ciena		
Comment Type TR	Comment Status X			Comment	Туре Е	Comment S	tatus X		
There is no requiremen	t for the OAM state diagrams.								djacent to an arrow
SuggestedRemedy								an input to a mu n is performed wi	
	ence in first paragraph of 149.			Suggested		iguro it lo unolou			
new first PICS item to 1	to the state diagrams in Figure	149-24 and Fi	igure 149-25." Add	00	2	ly multiply by 1_t	hen reinstate	the multiply syml	bol
	r 149.3.9.4 Conforms to Figu	re 149-24 and	149-25 OAM: M Yes			t from this then o			
[] No []				Proposed I	Response	Response S	tatus O		
Proposed Response	Response Status O								
				C/ 149	SC 149.4.2	1	P 142	L 16	# 139
C/ 149 SC 149.3.9	P 125	L 36	# 138	Zimmerma	an. George		CME Consult	ing/ADI. APL Gp	, Aquantia, BMW, Ci
Zimmerman, George	CME Consultin	g/ADI, APL Gp	, Aquantia, BMW, Cisc	Comment	<i>,</i> 0	Comment S		5., 1	, , , , , , , -
Comment Type E					21				
сопшенстуре Е	Comment Status X			"The M	IultiGBASE-T1	PMA shall take I	no longer than	100 ms to enter	the PCS DATA stat
"OAM field: The OAM1	0-bit field" - there is no such ph	rase as OAM1	0-bit field And	after e	xiting from rese	t or low power m	ode." is a non	i-interoperable w	ay of stating a startu
"OAM field: The OAM1		rase as OAM1	0-bit field And	after e time re	xiting from rese equirement. Th	t or low power m e startup time m	node." is a non ay be allocate	i-interoperable w d to one training	ay of stating a startu state in one phy and
"OAM field: The OAM1 defining the OAM field : SuggestedRemedy	0-bit field" - there is no such ph as the OAM field isn't useful.			after e time re anothe	xiting from rese equirement. Th	t or low power m e startup time m	node." is a non ay be allocate	i-interoperable w d to one training	ay of stating a startu state in one phy and
"OAM field: The OAM1 defining the OAM field SuggestedRemedy Change "The OAM10-b	0-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to "			after e time re anothe	xiting from rese equirement. Th er training state control states.	t or low power m e startup time m	node." is a non ay be allocate	i-interoperable w d to one training	ay of stating a startu state in one phy and
"OAM field: The OAM1 defining the OAM field SuggestedRemedy Change "The OAM10-b reserved for the OAM s	o-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to " symbol"			after e time re anothe to phy <i>Suggested</i>	xiting from rese equirement. Th er training state control states. Remedy	t or low power m e startup time ma in another phy.	node." is a non ay be allocate To get interop	i-interoperable w d to one training	ay of stating a startu state in one phy and time must be allocat
"OAM field: The OAM1 defining the OAM field SuggestedRemedy Change "The OAM10-b reserved for the OAM s	0-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to "			after e time re anothe to phy <i>Suggested</i>	xiting from rese equirement. The r training state control states. <i>Remedy</i> porce to discuss	t or low power m e startup time ma in another phy.	node." is a non ay be allocate To get interop ome consensu	n-interoperable w d to one training erability, startup	the PCS_DATA stat ay of stating a startu state in one phy and time must be allocat
"OAM field: The OAM1 defining the OAM field uggestedRemedy Change "The OAM10-b reserved for the OAM s roposed Response	0-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to " symbol" <i>Response Status</i> O	A 10-bit field ir	n each PHY frame	after e time re anothe to phy <i>Suggested</i> Task fe	xiting from rese equirement. The r training state control states. <i>Remedy</i> porce to discuss	et or low power m e startup time ma in another phy. . (this requires so	node." is a non ay be allocate To get interop ome consensu	n-interoperable w d to one training erability, startup	ay of stating a startu state in one phy and time must be allocat
"OAM field: The OAM1 defining the OAM field SuggestedRemedy Change "The OAM10-b reserved for the OAM10-b Proposed Response	0-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to " symbol" <i>Response Status</i> O .12 <i>P</i> 129	A 10-bit field in		after e time re anothe to phy Suggested Task fe Proposed I	xiting from rese equirement. The er training state control states. <i>Remedy</i> orce to discuss <i>Response</i>	et or low power m e startup time ma in another phy. . (this requires so <i>Response</i> S	node." is a non ay be allocate To get interop ome consensu tatus O	n-interoperable w d to one training perability, startup ns building - sorry	ay of stating a startu state in one phy and time must be allocat /!)
"OAM field: The OAM1 defining the OAM field SuggestedRemedy Change "The OAM10-b reserved for the OAM10-b reserved for the OAM18 Proposed Response	0-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to " symbol" <i>Response Status</i> O .12 <i>P</i> 129 General Motors	A 10-bit field in	n each PHY frame	after e time re anothe to phy Suggested Task fo Proposed I Cl 149	xiting from rese equirement. The r training state control states. <i>Remedy</i> price to discuss <i>Response</i> SC 149.4.2.	et or low power m e startup time ma in another phy. . (this requires so <i>Response</i> S	node." is a non ay be allocate To get interop ome consensu tatus O P.142	n-interoperable w d to one training erability, startup	ay of stating a startu state in one phy and time must be allocat
"OAM field: The OAM1 defining the OAM field SuggestedRemedy Change "The OAM10-b reserved for the OAM1s Proposed Response Cl 149 SC 149.3.9.2 Wienckowski, Natalie	0-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to " symbol" <i>Response Status</i> O .12 <i>P</i> 129	A 10-bit field in	n each PHY frame	after e time re anothe to phy Suggested Task fe Proposed I Cl 149 Souvignier	xiting from rese equirement. The er training state control states. <i>Remedy</i> porce to discuss <i>Response</i> SC 149.4.2.	et or low power m e startup time ma in another phy. . (this requires so <i>Response S</i> 2	node." is a non ay be allocate To get interop ome consensu tatus O P 142 Broadcom	n-interoperable w d to one training perability, startup ns building - sorry	ay of stating a startu state in one phy and time must be allocat !)
"OAM field: The OAM1 defining the OAM field SuggestedRemedy Change "The OAM10-b reserved for the OAM10-b reserved for the OAM18 Proposed Response C/ 149 SC 149.3.9.2 Wienckowski, Natalie	0-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to " symbol" <i>Response Status</i> O .12 <i>P</i> 129 General Motors	A 10-bit field in	n each PHY frame	after e time re anothe to phy Suggested Task fe Proposed I Cl 149 Souvignier Comment	xiting from rese equirement. The er training state control states. <i>Remedy</i> orce to discuss <i>Response</i> SC 149.4.2. r, Tom <i>Type</i> TR	t or low power me e startup time ma in another phy. . (this requires so <i>Response S</i> 2 <i>Comment S</i>	node." is a non ay be allocate To get interop ome consensu tatus O P 142 Broadcom tatus X	n-interoperable w d to one training perability, startup us building - sorry <i>L</i> 29	ay of stating a startu state in one phy and time must be allocat !)
"OAM field: The OAM1 defining the OAM field SuggestedRemedy Change "The OAM10-b reserved for the	0-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to " symbol" <i>Response Status</i> O .12 <i>P</i> 129 General Motors	A 10-bit field in	n each PHY frame	after e time re anothe to phy Suggested Task fo Proposed I Cl 149 Souvignier Comment The Pl	xiting from rese equirement. The r training state control states. <i>Remedy</i> orce to discuss <i>Response</i> <i>SC</i> 149.4.2 . r, Tom <i>Type</i> TR MA Transmit elements	et or low power m e startup time ma in another phy. . (this requires so <i>Response S</i> 2	node." is a non ay be allocate To get interop ome consensu tatus O P 142 Broadcom tatus X	n-interoperable w d to one training perability, startup us building - sorry <i>L</i> 29	ay of stating a startu state in one phy and time must be allocat /!)
"OAM field: The OAM1 defining the OAM field SuggestedRemedy Change "The OAM10-b reserved for the	0-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to " symbol" <i>Response Status</i> O .12 <i>P</i> 129 General Motors	A 10-bit field in	n each PHY frame	after e time re anothe to phy Suggested Task fo Proposed I Cl 149 Souvignier Comment The Pl Suggested	xiting from rese equirement. The restriction states control states. <i>Remedy</i> orce to discuss <i>Response</i> <i>SC</i> 149.4.2. r, Tom <i>Type</i> TR MA Transmit ele <i>Remedy</i>	t or low power me e startup time ma in another phy. . (this requires so <i>Response S</i> 2 <i>Comment S</i> ectrical specifica	node." is a non ay be allocate To get interop ome consensu tatus O P 142 Broadcom tatus X	n-interoperable w d to one training perability, startup us building - sorry <i>L</i> 29	ay of stating a startu state in one phy and time must be allocat /!)
"OAM field: The OAM1 defining the OAM field : SuggestedRemedy Change "The OAM10-b reserved for the OAM s Proposed Response C/ 149 SC 149.3.9.2 Wienckowski, Natalie Comment Type E SuggestedRemedy	0-bit field" - there is no such ph as the OAM field isn't useful. bit field in each PHY frame" to " symbol" <i>Response Status</i> O .12 <i>P</i> 129 General Motors	A 10-bit field in	n each PHY frame	after e time re anothe to phy Suggested Task fo Proposed I Cl 149 Souvignier Comment The Pl Suggested	xiting from rese equirement. The retraining state control states. <i>Remedy</i> orce to discuss <i>Response</i> SC 149.4.2. r, Tom <i>Type</i> TR MA Transmit ele <i>Remedy</i> re "149.1.3" to "	t or low power me e startup time ma in another phy. . (this requires so <i>Response S</i> 2 <i>Comment S</i> ectrical specifica	node." is a non ay be allocated To get interop ome consensu tatus O P 142 Broadcom Status X tions are given	n-interoperable w d to one training perability, startup us building - sorry <i>L</i> 29	ay of stating a startu state in one phy and time must be allocat /!)

C/ 149 SC 149.4.2.2 Page 23 of 31 8/23/2019 10:10:22 AM

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

C/ 149 SC 149.4.2	2.4 <i>P</i> 143	L 31	# 93	C/ 149	SC 149.4.2.4	.5 <i>P</i> 145	L 45	# 73
Souvignier, Tom	Broadcom			Tu, Mike		Broadcom		
Comment Type TR	Comment Status X			Comment	Туре Т	Comment Status X		
	meant by "each InfoField" since	e the PFC 24 and	d CRC16 values will	Need 1	o define the bit r	napping of InterleaverDepth a	nd PrecodeSel.	
be changing after ea	ch PAM2 PHY training frame.			Suggested	Remedy			
SuggestedRemedy				Chang	e line 45 from: ".	PHY capability bits is Oct10)<2:1> = Interle	averDepth, Oct10<4:3>
	e from: "Each InfoField shall be transmitted at least 256 times ink partner."			То: "	odeSel," PHY capability leSel[1:0],"	bits is Oct10<2:1> = Interleav	erDepth[1:0], O	ct10<4:3> =
Proposed Response	Response Status O			Proposed	Response	Response Status O		
C/ 149 SC 149.4.2	2.4 <i>P</i> 143	L 37	# 96	C/ 149	SC 149.4.2.4	.5 <i>P</i> 145	L 47	# 72
Souvignier, Tom	Broadcom			Tu, Mike		Broadcom		
comment Type T	Comment Status X			Comment	Туре Т	Comment Status X		
	gure 149-27 not defined. Figure		ed since it is shown in	Need t	o define the bit r	napping of VendorSpecificDat	ta.	
0	Figure 149-29 for both PMA state	es.		Suggested	Remedy			
	27 and change first sentence of all include the fields in 149.4.2.4 Figure 149–29."			Vendo To: "O	rSpecificData." ct8<7:0> = Vend	Oct8<7:0> = VendorSpecificD orSpecificData[7:0], and Oct9		
Proposed Response	Response Status O			Proposed	Response	Response Status O		
C/ 149 SC 149.4.	2.4 <i>P</i> 143	L 46	# 95	C/ 149	SC 149.4.2.4	.6 <i>P</i> 146	L 16	# 136
ouvignier, Tom	Broadcom	∠ 40	# 93	Zimmerma	n, George	CME Consulti	ng/ADI, APL G	o, Aquantia, BMW, Cisc
omment Type T	Comment Status X			Comment	Type TR	Comment Status X		
Figure 149–28—Info	Field TRAINING format octets 8 dicated in subclause 149.4.2.4.			interva	l is 450 baud int	DataSwPFC24 is that it is 24 ervals, which at 10 gig is 80 n nsec = 1.342 seconds, which i	sec. As it is, th	his allows startup to
SuggestedRemedy Change "UsrCfgCap	" to "PHY Capability Bits" in Figu	ure 149–28		are Oł	. A constraint o	synchronization countdown a f 500 (40 usec) should be mo 160 usec). Also, DataSwPFC2	re than enough,	and would still be
Proposed Response	Response Status O			PFC th	at the link partne	er might not be able to sync.		
				Suggested	-			
						e to end of paragraph in 149.4 maximum of 512 from the curr		
					-			

Proposed Response Response Status **O**

CI	149
SC	149.4.2.4.6

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

,	<i>,</i>	5		, ,		
C/ 149 SC 149.4.2.4.10 P 147	L 26	# 94	C/ 149 SC 149.4.2.	6.4 <i>P</i> 151	L 25	# 115
Souvignier, Tom Broadcom			Edem, Brian	Aquantia		
comment Type TR Comment Status X			Comment Type E	Comment Status X		
The SLAVE should align its tranmit frames before it will need to redo frame alignments during training.	starts transmisic	n. Otherwise MASTER	0	on from SIGDET_WAIT to SI	LENT_WAIT the	condition is misspelled
SuggestedRemedy			SuggestedRemedy			
Change from: "During startup, prior to entering the (COUNTDOWN st	ate, the SLAVE shall	Change send_s_sidge	0		
align"			Proposed Response	Response Status O		
To: "During startup, prior to entering the TRAINING	state, the SLAV	E shall align"				
Proposed Response Response Status O			C/ 149 SC 149.4.5	P 155	L 4	# 16
			Wienckowski, Natalie	General Moto	ors	
C/ 149 SC 149.4.2.6.4 P 151	L 25	# 135	Comment Type E	Comment Status X		
Zimmerman, George CME Consul	ing/ADI, APL Gp	o, Aquantia, BMW, Cisc	In state diagrams, the	transitions shouldn't include "	'=true" or "=false'	", instead you should
Comment Type E Comment Status X			have the variable_nar	ne for true and !variable_name	e for false.	
typo: send s sidget = true			SuggestedRemedy			
SuggestedRemedy			In Figure 149-33, cha			
change send s sidget to send s sigdet				_imp = true" to "auto_neg_imp eg enable = true" to "mr auto		
0 0 0				imp = false" to "!auto neg im		
Proposed Response Response Status O				eg_enable = false" to "!mr_aut	toneg_enable"	
			L45: "hi_rfer = false" L46: "hi_rfer = true" to			
C/ 149 SC 149.4.2.6.4 P 151	L 25	# 15	L46: "block lock = true	_		
Vienckowski, Natalie General Moto	ors		L47: "block_lock = fal			
Comment Type E Comment Status X			Proposed Response	Response Status O		
In state diagrams, the transitions shouldn't include "	=true" or "=false'	', instead vou should				
have the variable_name for true and !variable_name		, ,				
SuggestedRemedy						
In Figure 149-32, change the following:						
L25 & L31: "send_s_sigdet = false" to "!send_s_sid	gdet"					
L39: "power_on = true" to "power_on" L40: "mr main reset = true" to "mr main reset"						
L40: "mr_autoneg_enable = true" to "mr_autoneg_e	enable"					
1 49 [·] "mr autoneg enable = false" to "Imr autoneg						

L49: "mr_autoneg_enable = false" to "!mr_autoneg_enable"

Proposed Response Response Status O

C/ 149 SC 149.4.5

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

C/ 149 SC 149.4.5	P 156	L 2	# 17	C/ 149 SC	149.7.1.1	P 164	L 30	# 142
Wienckowski, Natalie	General Moto	rs		Zimmerman, Geo	rge	CME Const	Ilting/ADI, APL G	p, Aquantia, BMW, Cis
Comment Type E	Comment Status X			Comment Type	Е	Comment Status X		
0	ransitions shouldn't include "= e for true and !variable_name		, instead you should			everal link segment parar ation 149-18) needs to b		
SuggestedRemedy				SuggestedRemed	ly			
L4: "auto_neg_imp = fa L4: "mr_autoneg_enab				parameters a shown in Equ Insert (new) E Followed by "	re specified ation 149-1 Equation 149 See Table 1	raph in 149.7: "For the thi to different upper frequer 7". 9-17, which is the current 49-1 for definition of S." 3, so that 149.7.1.1 after	ncies, given by th Equation 149-18	e parameter Fmax : Fmax = 4000 X S
				f is the freque	ency in MHz;	; 1 <= f <= Fmax.		
	P 158	L 24	# 46	The insertion	loss is illust	rated in Figure 149-42.		
	F 156 Keysight Tech		# 40	Proposed Respor	ise	Response Status O		
Gubow, Marty Comment Type T	Comment Status X	inologies						
	smitter connection to an oscil	loscope utilizes	two 50-ohm channels	C/ 149 SC	149.7.1.3	P 165	L 31	# 140
Figure 149-36 should b		loscope utilizes	two 50-onin channels.	Zimmerman, Geo	rae			p, Aquantia, BMW, Cis
SuggestedRemedy				Comment Type	Ē	Comment Status X	J , ,	1 ,
Receommned new figu	re 149-36			51		actually is 3 subclauses, o	one for each PHY	′ type.
	re 149-36			The Return lo	ess section a		one for each PHY	′ type.
	re 149-36 Response Status O			The Return lo SuggestedRemed Divide 149.7.	ess section a ly 1.3 into 149		k segment return	ı loss, 149.7.1.3.2
Receommned new figu				The Return lo SuggestedRemed Divide 149.7. 5GBASE-T1 I	ess section a ly 1.3 into 149 ink segmen	actually is 3 subclauses, o .7.1.3.1 2.5GBASE-T1 lir	k segment return	ı loss, 149.7.1.3.2
Receommned new figu				The Return lo SuggestedRemed Divide 149.7. 5GBASE-T11 loss. Proposed Respor	ess section a ly 1.3 into 149 ink segmen	actually is 3 subclauses, o .7.1.3.1 2.5GBASE-T1 lir t return loss, and 149.7.1	k segment return	ı loss, 149.7.1.3.2
Receommned new figu				The Return lo SuggestedRemed Divide 149.7. 5GBASE-T11 loss. Proposed Respor	iss section a ly 1.3 into 149 ink segmen ose	Actually is 3 subclauses, of .7.1.3.1 2.5GBASE-T1 lir t return loss, and 149.7.1 <i>Response Status</i> O	k segment return .3.3 10GBASE-T <i>L</i> 24	I loss, 149.7.1.3.2 1 link segment return
Receommned new figu				The Return to SuggestedRemed Divide 149.7. 5GBASE-T1 I loss. Proposed Respon	iss section a ly 1.3 into 149 ink segmen ose	Actually is 3 subclauses, of 7.1.3.1 2.5GBASE-T1 lin t return loss, and 149.7.1 <i>Response Status</i> O <i>P</i> 166	k segment return .3.3 10GBASE-T <i>L</i> 24	I loss, 149.7.1.3.2 1 link segment return
Receommned new figu				The Return lo SuggestedRemed Divide 149.7. 5GBASE-T11 loss. Proposed Respon C/ 149 SC Ohni, Josef Comment Type In the equatio	iss section a dy 1.3 into 149 ink segmen ose 149.7.1.3 E n defined by	Actually is 3 subclauses, of 7.1.3.1 2.5GBASE-T1 lin t return loss, and 149.7.1 <i>Response Status</i> O <i>P</i> 166 MD Elektro	k segment return .3.3 10GBASE-T <i>L</i> 24 nik quency point 480,	1 loss, 149.7.1.3.2 1 link segment return # 62 /2N belongs only to the
Receommned new figu				The Return lo SuggestedRemed Divide 149.7. 5GBASE-T11 loss. Proposed Respon C/ 149 SC Ohni, Josef Comment Type In the equation first part. The	nss section a dy 1.3 into 149 ink segmen ase 149.7.1.3 E in defined by frequency p	Actually is 3 subclauses, of 7.1.3.1 2.5GBASE-T1 lin t return loss, and 149.7.1 <i>Response Status</i> O <i>P</i> 166 MD Elektron <i>Comment Status</i> X y parts (149–22). The free	k segment return .3.3 10GBASE-T <i>L</i> 24 nik quency point 480,	1 loss, 149.7.1.3.2 1 link segment return # 62 /2N belongs only to the
Receommned new figu				The Return lo SuggestedRemed Divide 149.7. 5GBASE-T1 I loss. Proposed Respon Cl 149 SC Ohni, Josef Comment Type In the equation first part. The consistent. SuggestedRemed	iss section a ly 1.3 into 149 ink segmen sse 149.7.1.3 E n defined by frequency p	Actually is 3 subclauses, of 7.1.3.1 2.5GBASE-T1 lin t return loss, and 149.7.1 <i>Response Status</i> O <i>P</i> 166 MD Elektron <i>Comment Status</i> X y parts (149–22). The free	k segment return .3.3 10GBASE-T <i>L</i> 24 nik quency point 480, second and third	/2N belongs only to the

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

C/ 149 SC 149.7.	1.3 <i>P</i> 167	L 23	# 141	C/ 149	SC 149.9.2.	P 178	L 24	# 144
Zimmerman, George	CME Consult	ing/ADI, APL G	o, Aquantia, BMW, Cisc	Zimmerma	an, George	CME Consult	ting/ADI, APL G	p, Aquantia, BMW, Cisc
Comment Type T	Comment Status X			Comment	Туре Е	Comment Status X		
(this is due to freque factor, which makes	ure 149-43 says there are 5 cur ncy overlaps), but is confusing. the figure even more confusing	Also, 2.5G no l		subjeo syster	ct to this clause ns integrating the	not specify equipment, and ca shall conform to the potential e PHY (149.9.2.2). 802.3cg h drawn from the remedies the	l environmental nad similar langu	stresses", or to the
SuggestedRemedy		6		Suggested	0 0			
delete the figure.	3 into 3 figures, one for 2.5G, on	e for 5G and on	e for 10G. Alternately,	Chang	,	" to "is expected to conform"	in 149.9.2.1, an	d "shall comply" with "is
Proposed Response	Response Status O			Proposed	. ,	Response Status O		
				Floposeu	Response	Response Status U		
C/ 149 SC 149.7.	1.4 <i>P</i> 167	L 35	# 63					
Ohni. Josef	MD Elektronil	<		C/ 149	SC 149.9.2.2	2 <i>P</i> 178	L 43	# 145
Comment Type E	Comment Status X			Zimmerma	an, George	CME Consult	ting/ADI, APL G	p, Aquantia, BMW, Cis
	ied by parts (149–24). The frequ	ency point 750	helongs to the first and	Comment	Туре Т	Comment Status X		
second part.		lency point 700		IEEES	Std 802.3 does r	not restrict the EMC test meth	ods ("PHY shall	be tested according to
SuggestedRemedy				CISPF	R 25 test method	s"). The integrating system w	vill specify the te	st methods to be used
55 ,	t "30 ≤ f ≤ 750 MHz" to "30 ≤ f <	750 MHz"			ven though they opriate to requir	usually are CISPR25, there is e it.	s no need to put	that here, and
Proposed Response	Response Status O			Suggested	• •			
	,				-	be tested according to CISPI	R 25 test metho	ds defined to measure
	-					mance in terms of radio frequ		
C/ 149 SC 149.7.	2.1 <i>P</i> 169	L 9	# 143	Proposed	Response	Response Status 0		
Zimmerman, George	CME Consult	ing/ADI, APL G	o, Aquantia, BMW, Cisc					
Comment Type TR	Comment Status X			C/ 149	SC 149.10	P 204	L 30	# 40
	t the noise ingress even outside						L 30	# 49
	Ys are to be used together in the FEXT characteristic needs to be			Lo, Willian		Axonne Inc.		
PHY types				Comment	51	Comment Status X		
SuggestedRemedy				Table	fix gap in colum	n 3 numbers		
Replace Fmax on Pa	age 169 line 9 and Page 170 lin	e 6 with 4000 M	Hz.	Suggested	-			
Proposed Response	Response Status O			Remo	ve the gaps in a	I the numbers in column 3.		
,				Proposed	Response	Response Status O		

C/ 149 SC 149.10 Page 27 of 31 8/23/2019 10:10:22 AM

C/ 149 SC 149.11.4.1 P 175 Nienckowski, Natalie General Motors Comment Type E Comment Status X	L 28 s	# 28	C/ 149SC 149.11.4.3.6P 185L 33# 32Wienckowski, NatalieGeneral MotorsComment TypeEComment StatusX
SuggestedRemedy Make "Clause 98" in Feature column a hyperlink. Proposed Response Response Status O			SuggestedRemedy Make "Clause 98" in Feature column a hyperlink. Proposed Response Response Status O
Cl 149 SC 149.11.4.2.1 P 176 Wienckowski, Natalie General Motors Comment Type E Comment Status X Incorrect link trying to go outside the document.	L 27 s	# 29	C/ 149 SC 149.11.4.3.6 P 185 L 38 # 33 Wienckowski, Natalie General Motors Comment Type E Comment Status X
SuggestedRemedy Change: 149.3.4.2 to 149.3.5.1 (hyperlink in the docu Proposed Response Response Status O	ment)		SuggestedRemedy Make "Figure 149–32" in Feature column a hyperlink. Proposed Response Response Status O
C/ 149 SC 149.11.4.3.4 P 184 Nienckowski, Natalie General Motors Comment Type E Comment Status X	L 6 s	# 30	C/ 149SC 149.11.4.6P 189L 27# 34Wienckowski, NatalieGeneral MotorsComment TypeEComment StatusX
uggestedRemedy Make "Table 149-10" in Feature column a hyperlink. Proposed Response Response Status O			SuggestedRemedy Make "149.5.2" in Feature column a hyperlink. Proposed Response Response Status O
Image: Market M Market Market Mark	L 7 s	# 31	C/149SC149.11.4.6P 189L 28# 35Wienckowski, NatalieGeneral MotorsComment TypeEComment StatusX
<i>uggestedRemedy</i> Make "Table 149-11" in Feature column a hyperlink.			SuggestedRemedy Make "149.5.3" in Feature column a hyperlink.
Proposed Response Response Status O			Proposed Response Response Status O

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: Clause, Subclause, page, line

C/ 149 SC 149.11.4.6 Page 28 of 31 8/23/2019 10:10:22 AM

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

C/ 149 SC to 149.4	4.2.4 <i>P</i> 91	L 41	# 156	C/ 149B SC 149B.4.2.3 P 202 L 8 # 50
lcClellan, Brett	Marvell			Lo, William Axonne Inc.
omment Type T	Comment Status X			Comment Type E Comment Status X
	frame are then encoded into 18	00 PAM4 symb	ols and transferred	Font size of text in boxes and text in arrows are not consistent
sequentially to the PM This statement is inco				SuggestedRemedy
	C interleaving, there is no longer	a 3600 bit fram	ne for L=2 or 4.	Make font sizes of text consistent
Further, the bits are s	scrambled prior to PAM4 mappin	g.		Proposed Response Response Status O
uggestedRemedy				
Delete this sentence.				
roposed Response	Response Status O			C/ 149B SC 149B.4.2.3 P 202 L 15 # 19
				Wienckowski, Natalie General Motors
/ 149A SC 149A.2	P 192	L 36	# 61	Comment Type E Comment Status X Different font sizes in Figure 149B-2
/ienckowski, Natalie	General Motors	6		SuggestedRemedy
omment Type E	Comment Status X			Change all text in figure to be 8.0 pt
5	onmental conditions in 149A are	he applicable o	conditions for the	Proposed Response Response Status O
defined test method.				Response Status O
uggestedRemedy				
	ents are performed at ods are applicable for temperatur	o of		C/ 149B SC 149B.4.2.3 P 202 L 15 # 18
oposed Response		e 01		Wienckowski, Natalie General Motors
oposed Response	Response Status O			Comment Type E Comment Status X
				In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should
149A SC 149A.5.	.4 <i>P</i> 197	L 41	# 36	have the variable_name for true and !variable_name for false.
Vienckowski, Natalie	General Motors	3		SuggestedRemedy
comment Type E	Comment Status X			In Figure 149B-2, change the following: L15 & L28: "mr_rx_clear_rec=true" to "mr_rx_clear_rec" L28: "mr_rx_clear_rec=false" to "!mr_rx_clear_rec"
uggestedRemedy				Proposed Response Response Status O
Make "Figure 149A–3	3" in Feature column a hyperlink.			
roposed Response	Response Status O			

C/ 149B SC 149B.4.2.3 Page 29 of 31 8/23/2019 10:10:22 AM

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

C/ 149B SC 149B.4.2.3 P 202 L 38 # 20	C/ 149C SC 149C.1 P 203 L 11 # 38	5
Vienckowski, Natalie General Motors	Wienckowski, Natalie General Motors	
Comment Type E Comment Status X	Comment Type T Comment Status X	
Different font sizes in Figure 149B-3	149C has no informationon return loss	
SuggestedRemedy	SuggestedRemedy	
Change all text in figure to be 8.0 pt	Change: provides information on insertion loss and return loss parameters	
Proposed Response Response Status O	To: provides information on insertion loss parameters	
	Proposed Response Response Status O	
C/ 149B SC 149B.4.2.3 P 202 L 44 # 65	-	
Tu, Mike Broadcom	C/Annex SC 149C.1 P 203 L 12 # 56	;
Comment Type T Comment Status X	DiMinico, Christopher MC Communications	
The variable "mr_tx_request_rec_clear" is not defined.	Comment Type TR Comment Status X	
In Figure 149B-3, the transition condition should be changed to: "mr_tx_clear_rec = true". Proposed Response Response Status O	Annex 149C missing information on return loss parameters of the channel defined between TX function and RX function illustrated in Figure 149C–1. SuggestedRemedy	u
	between TX function and RX function illustrated in Figure 149C–1. SuggestedRemedy	ŭ
Proposed Response Response Status O	between TX function and RX function illustrated in Figure 149C–1.	u .
Proposed Response Response Status O Cl 149B SC 149B.4.2.3 P 202 L 44 # 21	between TX function and RX function illustrated in Figure 149C–1. SuggestedRemedy See presentation diminico_3ch_02_0919.pdf	u
Proposed Response Response Status O Cl 149B SC 149B.4.2.3 P 202 L 44 # 21 Wienckowski, Natalie General Motors Comment Type E Comment Status X	between TX function and RX function illustrated in Figure 149C–1. <i>SuggestedRemedy</i> See presentation diminico_3ch_02_0919.pdf <i>Proposed Response Response Status</i> O	
Proposed Response Response Status O Cl 149B SC 149B.4.2.3 P 202 L 44 # 21 Nienckowski, Natalie General Motors Comment Type E Comment Status X In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should	between TX function and RX function illustrated in Figure 149C–1. SuggestedRemedy See presentation diminico_3ch_02_0919.pdf Proposed Response Response Status O C/ Annex SC 149C.1 P 203 L 35 # 55	
Proposed Response Response Status O Cl 149B SC 149B.4.2.3 P 202 L 44 # [21] Wienckowski, Natalie General Motors Comment Type E Comment Status X In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false.	between TX function and RX function illustrated in Figure 149C–1. SuggestedRemedy See presentation diminico_3ch_02_0919.pdf Proposed Response Response Status O Cl Annex SC 149C.1 P 203 L 35 # 55 DiMinico, Christopher MC Communications	
Proposed Response Response Status O Cl 149B SC 149B.4.2.3 P 202 L 44 # 21 Wienckowski, Natalie General Motors Comment Type E Comment Status X In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false. SuggestedRemedy	between TX function and RX function illustrated in Figure 149C–1. SuggestedRemedy See presentation diminico_3ch_02_0919.pdf Proposed Response Response Status O C/ Annex SC 149C.1 P 203 L 35 # 55 DiMinico, Christopher MC Communications Comment Type T Comment Status X	5
Proposed Response Response Status O Cl 149B SC 149B.4.2.3 P 202 L 44 # 21 Wienckowski, Natalie General Motors Comment Type E Comment Status X In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false. SuggestedRemedy In Figure 149B-3, change the following" L44: "mr_tx_request_rec_clear = true" to "mr_tx_request_rec_clear"	between TX function and RX function illustrated in Figure 149C–1. SuggestedRemedy See presentation diminico_3ch_02_0919.pdf Proposed Response Response Status O CI Annex SC 149C.1 P 203 L 35 # 55 DiMinico, Christopher MC Communications Comment Type T Comment Status X Change Max PCB length from 4.5" to 3" more representative of MAX implementation	5
Proposed Response Response Status O Cl 149B SC 149B.4.2.3 P 202 L 44 # 21 Wienckowski, Natalie General Motors Comment Type E Comment Status X In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false. SuggestedRemedy In Figure 149B-3, change the following" L44: "mr_tx_request_rec_clear = true" to "mr_tx_request_rec_clear" L50: "mr_rx_rec_cleared = true" to "mr_rx_rec_cleared"	between TX function and RX function illustrated in Figure 149C–1. SuggestedRemedy See presentation diminico_3ch_02_0919.pdf Proposed Response Response Status O CI Annex SC 149C.1 P 203 L 35 # 55 DiMinico, Christopher MC Communications Comment Type T Comment Status X Change Max PCB length from 4.5" to 3" more representative of MAX implementation SuggestedRemedy	5
Proposed Response Response Status O Cl 149B SC 149B.4.2.3 P 202 L 44 # 21 Wienckowski, Natalie General Motors Comment Type E Comment Status X In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false. SuggestedRemedy In Figure 149B-3, change the following" L44: "mr_tx_request_rec_clear = true" to "mr_tx_request_rec_clear" L50: "mr_rx_rec_cleared = true" to "mr_rx_rec_cleared"	between TX function and RX function illustrated in Figure 149C–1. SuggestedRemedy See presentation diminico_3ch_02_0919.pdf Proposed Response Response Status O C/ Annex SC 149C.1 P 203 L 35 # 55 DiMinico, Christopher MC Communications Comment Type T Comment Status X Change Max PCB length from 4.5" to 3" more representative of MAX implementation SuggestedRemedy In Figure 149C–1 delete 4.5" two places. In equation (149C–1) change 4.5" to 3". In equation (149C–4) change 4.5" to 3".	5
Proposed Response Response Status O Cl 149B SC 149B.4.2.3 P 202 L 44 # [21] Wienckowski, Natalie General Motors Comment Type E Comment Status X In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false. SuggestedRemedy In Figure 149B-3, change the following" L44: "mr_tx_request_rec_clear = true" to "mr_tx_request_rec_clear" L50: "mr_rx_rec_cleared = true" to "mr_rx_rec_cleared"	between TX function and RX function illustrated in Figure 149C–1. SuggestedRemedy See presentation diminico_3ch_02_0919.pdf Proposed Response Response Status O CI Annex SC 149C.1 P 203 L 35 # 55 DiMinico, Christopher MC Communications Comment Type T Comment Status X Change Max PCB length from 4.5" to 3" more representative of MAX implementation SuggestedRemedy In Figure 149C–1 delete 4.5" two places. In equation (149C–1) change 4.5" to 3".	5

C/ Annex SC 149C.1 P802.3ch D2.1 D2.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autor

C/ Annex SC	149C.2	P 2	03	L 43	# 54
DiMinico, Christo	oher	MC C	Communicatio	ons	
Comment Type	E	Comment Status	x		

SuggestedRemedy

correct text for space circ...uit

Proposed Response Response Status **O**