SC

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial \

Marris, Arthur

C/ FM

L 13 # 96



Comment Type T Comment Status X

I think the name of the amenedment could be improved from "Physical Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet".

This is an amendment for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s PHYs and the title should state that.

P1

Also there is likely to be a project for a 25G automotive PHY in the future and this would also be greater than 1G.

SuggestedRemedy

Change the title of the amendment to:

"Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Automotive Ethernet"

Proposed Response Response Status O

C/FM SC FM	P1 L8 # 122
Carlson, Steven	High Speed Design, Inc; Marvell; Robert Bosch

Comment Type E Comment Status X

The admendment title may cause confusion now that IEEE 802.3 has a study group focused on 10 Gb/s and greater automotive electrical PHYS. Amendment titles must be within the scope of the PAR. See [1] Subclause 4.2.3.2 'Review of draft standards' of the IEEE-SA Standards Board Operations Manual

<https://standards.ieee.org/develop/policies/opman/sb_om.pdf> states 'Title of Document. The title on the draft document and submittal form shall be within the scope as stated on the most recently approved PAR, or action(s) shall be taken to ensure this.'.

[2] The IEEE-SA 2014 Style manual

<https://development.standards.ieee.org/myproject/Public/mytools/draft/styleman.pdf> has similar text in subclause 9.2 'Title' that reads 'Per 4.2.3.2 of the IEEE-SA Standards Board Operations Manual, the title on the draft document shall be within the scope as stated on the most recently approved PAR.'. The proposed change is within the scope of the PAR.

[3] Item 2 Of the RevCom check list

<https://development.standards.ieee.org/myproject/Public/mytools/approve/subchklst.pdf> reads 'Is the Title of the submitted draft within the Scope of the PAR?'. The proposed change is within the scope of the PAR.

SuggestedRemedy

Change: "Draft Standard for Ethernet Amendment:Physical Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet" To: Draft Standard for Ethernet Amendment:Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s and 10 Gb/s Automotive Ethernet."

Proposed Response Response Status **O**

CI 00	SC O	Р		L	# 205
Dawe, Pie	rs	Mellar	юх		
Comment	Type TR	Comment Status	х		
Item F		ter electrical specifications e Value/Comment Statu the MDI			
Suggested Means	dRemedy s? See another	comment			
Proposed	Response	Response Status	0		

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C/00 SC 0	P1	L 18	# 88	C/ 00 SC 0	P10	L 52	# 82
Trowbridge, Steve	Nokia			Maguire, Valerie	The Siemon	Company	
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
	her effort that will likely become on the sufficiently unique	a project for great	ter than 10 Gb/s	0 1	I for operation over a single balan	ced pair of conduc	ctors.
SuggestedRemedy	,			SuggestedRemedy			
,	2.5 Gb/s, 5 Gb/s, 10 Gb/s opera	ation to make it cle	ear that the >10	balanced pair of cor	on a single balanced pair copper nductors".	cable" with "opera	ation over a single
Proposed Response	Response Status O			Proposed Response	Response Status O		
	2.2		" []	C/ 00 SC 0	P 19	L 34	# 89
C/00 SC 0	P 2	L 2	# 259	Trowbridge, Steve	Nokia		
den Besten, Gerrit	NXP Semicon	nductors		Comment Type E	Comment Status X		
Comment Type E	Comment Status X ive cabling in an automotive				l headings from 149.11.1 onward gits appeared in a 3rd level headi		h the text. This may
•	finitions in the spec refer to "sing	gle balanced pair".	. It seems useful to				
•	finitions in the spec refer to "sing	gle balanced pair".	. It seems useful to	SuggestedRemedy	5 TT	5	out for those
application". Other def	finitions in the spec refer to "sing	gle balanced pair".	. It seems useful to	SuggestedRemedy Adjust the ToC forn	hat to provide space between the	5	ext for these
application". Other def make the abstract con SuggestedRemedy	finitions in the spec refer to "sing	- ·		SuggestedRemedy	5 TT	5	ext for these
application". Other def make the abstract con SuggestedRemedy Change to: "operation	finitions in the spec refer to "sing sistent with that.	- ·		SuggestedRemedy Adjust the ToC forn headings.	at to provide space between the	5	ext for these
application". Other def make the abstract con SuggestedRemedy Change to: "operation applications."	finitions in the spec refer to "sing sistent with that. over single balanced pair cablin	- ·		SuggestedRemedy Adjust the ToC forn headings.	nat to provide space between the Response Status O	number and the te	ext for these # 3
application". Other def make the abstract con SuggestedRemedy Change to: "operation applications."	finitions in the spec refer to "sing sistent with that. over single balanced pair cablin	- ·		SuggestedRemedy Adjust the ToC form headings. Proposed Response C/ 1 SC 1.5 Hajduczenia, Marek	nat to provide space between the Response Status O P23 Charter Corr	number and the te	
application". Other def make the abstract con SuggestedRemedy Change to: "operation applications." Proposed Response	finitions in the spec refer to "sing isistent with that. over single balanced pair cablin <i>Response Status</i> O	g and suitable for	automotive	SuggestedRemedy Adjust the ToC form headings. Proposed Response CI 1 SC 1.5 Hajduczenia, Marek Comment Type E	nat to provide space between the Response Status O	number and the te	
application". Other def make the abstract con SuggestedRemedy Change to: "operation applications." Proposed Response C/ 00 SC 0 Maguire, Valerie	finitions in the spec refer to "sing asistent with that. over single balanced pair cablin <i>Response Status</i> O <i>P</i> 10	g and suitable for	automotive	SuggestedRemedy Adjust the ToC form headings. Proposed Response C/ 1 SC 1.5 Hajduczenia, Marek	nat to provide space between the Response Status O P23 Charter Corr	number and the te	
application". Other def make the abstract con SuggestedRemedy Change to: "operation applications." Proposed Response C/ 00 SC 0 Maguire, Valerie	finitions in the spec refer to "sing asistent with that. over single balanced pair cablin <i>Response Status</i> O <i>P</i> 10 The Siemon C	g and suitable for	automotive	SuggestedRemedy Adjust the ToC form headings. Proposed Response CI 1 SC 1.5 Hajduczenia, Marek Comment Type E	nat to provide space between the Response Status O P23 Charter Corr	number and the te	
application". Other def make the abstract con SuggestedRemedy Change to: "operation applications." Proposed Response C/ 00 SC 0 Maguire, Valerie Comment Type E	finitions in the spec refer to "sing asistent with that. over single balanced pair cablin <i>Response Status</i> O <i>P</i> 10 The Siemon C	g and suitable for	automotive	SuggestedRemedy Adjust the ToC form headings. Proposed Response Cl 1 SC 1.5 Hajduczenia, Marek Comment Type E Empty section 1.5	nat to provide space between the Response Status O P23 Charter Com Comment Status X	number and the te	
application". Other def make the abstract con SuggestedRemedy Change to: "operation applications." Proposed Response C/ 00 SC 0 Maguire, Valerie Comment Type E Extraneous comma. SuggestedRemedy	finitions in the spec refer to "sing asistent with that. over single balanced pair cablin <i>Response Status</i> O <i>P</i> 10 The Siemon C	g and suitable for <i>L</i> 50 Company	automotive	SuggestedRemedy Adjust the ToC form headings. Proposed Response Cl 1 SC 1.5 Hajduczenia, Marek Comment Type E Empty section 1.5 SuggestedRemedy	nat to provide space between the Response Status O P23 Charter Com Comment Status X	number and the te	

C/ 1 SC 1.5

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C/ 1 SC 1.5	P 23	L 44	# 10	C/ 44	SC 44.1.4.4	P 30	L 7	# 97
Anslow, Pete	Ciena			Lo, William		Axonne	Inc.	
Comment Type E	Comment Status X			Comment 7	ype TR	Comment Status	K	
As no new abbrevi	iations are being added, remove 1.5	5				is not in table 44-1.		
SuggestedRemedy					e 125-2 (page 6 \SE-T1 and 5G		howing Auto-Nego	tiation is optional for both
Remove 1.5 from t	the draft					for 10GBASE-T1.		
Proposed Response	Response Status O			Alsono	te that autonego	tiation is missing for 10	GBASE-T as well.	
				Suggested	Remedy			
C/ 1 SC 1.5	P 23	L 44	# 95	Add co	lumn for clause	98 Auto-Negotiation to t	able 44-1 and put O	in the 10GBASE-T1
Marris, Arthur	Cadence Des	ign Systems		row.	the footnote			
Comment Type E	Comment Status X	0		O = Op				
Delete 1.5 if no ne	w abbreviations are being added							
	5			Λς ο ςς	rvice to humani	wwo oon ontionally fix th		
SuggestedRemedy								by putting a column for
<i></i> ,				clause	28 Auto-Negotia	tion and put M in the 10	GBASE-T row.	by putting a column for
Delete 1.5	Response Status O				28 Auto-Negotia		GBASE-T row.	by putting a column for
Delete 1.5	Response Status O			clause Proposed F	28 Auto-Negotia Response	tion and put M in the 10 Response Status	GBASE-T row.	
Delete 1.5 Proposed Response				clause	28 Auto-Negotia	tion and put M in the 10	GBASE-T row.	# 204
Delete 1.5 Proposed Response		L12	# 236	clause Proposed F	28 Auto-Negotia Response SC 44.1.4.4	tion and put M in the 10 Response Status	GBASE-T row. D	
Delete 1.5 Proposed Response Cl 30 SC 30.5	5.1.1.2 P25		# 236	clause Proposed F Cl 44	28 Auto-Negotia Response SC 44.1.4.4	tion and put M in the 10 Response Status P 50	GBASE-T row. D	
Delete 1.5 Proposed Response Cl 30 SC 30.5 Zimmerman, George	5.1.1.2 P 25 ADI, APL Gp.			clause Proposed F C/ 44 Dawe, Pier Comment 7 Need to	28 Auto-Negotia Response SC 44.1.4.4 S Type T o add 10GBASE	tion and put M in the 10 Response Status P 50 Melland	GBASE-T row. D L	# <u>204</u>
Delete 1.5 Proposed Response Cl 30 SC 30.5 Zimmerman, George Comment Type E It appears that the	5.1.1.2 P 25 ADI, APL Gp. <i>Comment Status</i> X e entry "Single balanced pair of cond	, Aquantia, BMW, luctors" is a sma	, Cisco, Commscope, aller font size (9pt)	clause Proposed F Cl 44 Dawe, Pier Comment T Need to and cla	28 Auto-Negotia Response SC 44.1.4.4 S Type T Do add 10GBASE use correlation	tion and put M in the 10 Response Status P 50 Melland Comment Status	GBASE-T row. D L	# <u>204</u>
Delete 1.5 Proposed Response Cl 30 SC 30.5 Zimmerman, George Comment Type E It appears that the	5.1.1.2 P 25 ADI, APL Gp. <i>Comment Status</i> X e entry "Single balanced pair of cond SE-T1"(10pt) - it should be the sam	, Aquantia, BMW, luctors" is a sma	, Cisco, Commscope, aller font size (9pt)	clause Proposed F Cl 44 Dawe, Pier Comment T Need to and cla Suggested	28 Auto-Negotia Response SC 44.1.4.4 S Type T add 10GBASE use correlation Remedy	tion and put M in the 10 Response Status P 50 Melland Comment Status -T1 and Clause 98 Auto	GBASE-T row. D L x K -Negotiation to Tab	# 204
Delete 1.5 Proposed Response Cl 30 SC 30.5 Zimmerman, George Comment Type E It appears that the than the "2.5GBAS and 10GBASE-T1	5.1.1.2 P 25 ADI, APL Gp. <i>Comment Status</i> X e entry "Single balanced pair of cond SE-T1"(10pt) - it should be the sam	, Aquantia, BMW, luctors" is a sma	, Cisco, Commscope, aller font size (9pt)	clause Proposed F Cl 44 Dawe, Pier Comment T Need to and cla Suggested Add 10	28 Auto-Negotia Response SC 44.1.4.4 S Type T De add 10GBASE use correlation Remedy GBASE-T1 and	tion and put M in the 10 Response Status P 50 Melland Comment Status	GBASE-T row. D L x K -Negotiation to Tab	# 204
Proposed Response Cl 30 SC 30.5 Zimmerman, George Comment Type E It appears that the than the "2.5GBAS and 10GBASE-T1 SuggestedRemedy	5.1.1.2 P 25 ADI, APL Gp. <i>Comment Status</i> X e entry "Single balanced pair of cond SE-T1"(10pt) - it should be the sam I entries yle of "Single balanced pair of condu	, Aquantia, BMW, luctors" is a sm e. Same commer	, Cisco, Commscope, aller font size (9pt) nt for 5GBASE-T1	clause Proposed F Cl 44 Dawe, Pier Comment T Need to and cla Suggested Add 10	28 Auto-Negotia Response SC 44.1.4.4 S Type T De add 10GBASE use correlation Remedy GBASE-T1 and correlation	tion and put M in the 10 Response Status P 50 Melland Comment Status -T1 and Clause 98 Auto	GBASE-T row. D L xx C -Negotiation to Tab	# 204

C/ 44 SC 44.1.4.4

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	SC 44.3	P 31	L 3	# 237	CI 45	SC 45.2.1.18	P3:	3	L 12	# 98
Zimmerman, G	George	ADI, APL Gp,	Aquantia, BMW,	Cisco, Commscope,	Lo, William		Axonr	ne Inc.		
Comment Type	e E Comm	nent Status X			Comment Ty	pe TR	Comment Status	Х		
	struction says to insert "a is overly tall.	a" row - three rows a	are inserted. Also,	the row for 2x			21.4 are redundant sir 1 states register 1.18			ed in 1.18.5 and
SuggestedRen	medy				Note the	t rogistor 1 21 o	auses some issues in	that it is f	or 2 5C/5C abi	litics and
	a row" to "new rows" in e to match the others.	editing instruction, a	nd adjust the heigh	t of the row for 2x			critera for both 1.18 a		01 2.36/36 abi	
Proposed Res	sponse Respor	nse Status O					k any other PHY capa in one location instea		e advertised twi	ce and I think it is
					SuggestedR	emedy				
C/ 45 S	SC 45.2.1.7.4	P 33	L 54	# 239	Delete co	ontent in page 3	3 lines 11 to 48			
Zimmerman, G	George	ADI, APL Gp,	Aquantia, BMW,	Cisco, Commscope,	Proposed Re	esponse	Response Status	0		
Comment Type	e T Comm	nent Status X								
	fault descriptions are in 47.5, Table 45-10. These				C/ 45	SC 45.2.1.18	P3:	3	L 24	# 260
the clause	e 149 references for 2.50	GBASE-T1, 5GBĂS	E-T1, and 10GBA	SE-T1.	den Besten,	Gerrit	NXP	Semicond	uctors	
	ly, I cannot find the refer he abilities are reference		nd Receive Faults i	n clause 149,	Comment Ty		Comment Status			
SuggestedRen		50 III 1.2310.					uplicate BASE-T1 abi		gister 21, as the	ese are already
Bring 45.2. 10GBASE	2.1.7.4 and Table 45-9, a E-T1 referencing the app 2.1.7.5 and Table 45-10,	propriate section of c	lause 149 for trans	smit faults.	are BAS	E-T1 extended a	extended ability regis abilities or 2.5G/5G ex /5G extended abilities	tended ab	oilities. Why wo	uld a 2.5G/5GBASE-
					SuggestedR	emedy				
10GBASE	E-T1 referencing the app	propriate section of c				to remove RASE		nictor 21		
	0 11				Propose	to remove brot	E-T1 abilities from rec	JISIEI 21.		
Add text, if	f necessary, for transmi	t and receive faults t			Propose Proposed Re		Response Status			
	f necessary, for transmi						-			
Add text, if Proposed Res	f necessary, for transmi	t and receive faults t		# 34	Proposed Re CI 45	esponse SC 45.2.1.18. a	Response Status	0	L 37	# 8
Add text, if Proposed Res CI 45 S	f necessary, for transmi sponse Respor	t and receive faults t nse Status 0 P 32	to clause 149.	# 34	Proposed Re Cl 45 Kolesar, Pau	esponse SC 45.2.1.18. a	Response Status aa P3: Comm	O 3 nScope	L 37	# <u>8</u>
Add text, if Proposed Res 	f necessary, for transmi sponse Respor SC 45.2.1.16	t and receive faults t nse <i>Status</i> 0 <i>P</i> 32 Futurewei Teo	to clause 149.	# 34	Proposed Re Cl 45 Kolesar, Pau Comment Ty	esponse SC 45.2.1.18. a	Response Status	O 3 nScope	L 37	# 8
Add text, if Proposed Resp Cl 45 S Remein, Duand Comment Type	f necessary, for transmi sponse Respor SC 45.2.1.16 ne ne ER Comm	t and receive faults t nse Status O P 32 Futurewei Teo nent Status X	to clause 149. <i>L</i> 47 chnologies, Inc.		Proposed Re Cl 45 Kolesar, Pau	esponse SC 45.2.1.18. a	Response Status aa P3: Comm	O 3 nScope	L 37	# 8
Add text, if Proposed Res Cl 45 S Remein, Duan Comment Type Given this Instruction	f necessary, for transmi sponse Respor SC 45.2.1.16 ne ER Comm is a change to Table 45 n should not be "Change	t and receive faults t nse Status O P 32 Futurewei Teo nent Status X 5-19 the new rows sl	to clause 149. <i>L</i> 47 chnologies, Inc.		Proposed Re Cl 45 Kolesar, Pau Comment Ty typo SuggestedRe	SC 45.2.1.18. a I Ipe E emedy	Response Status aa P3: Comm	O 3 nScope	L 37	# 8
Add text, if Proposed Res Cl 45 S Remein, Duand Comment Type Given this Instruction Same issu	f necessary, for transmi sponse Respor SC 45.2.1.16 ne ER Comm is a change to Table 45 n should not be "Change ue Table 45-21.	t and receive faults t nse Status 0 P 32 Futurewei Teo nent Status X 5-19 the new rows sl a and insert ".	to clause 149. <i>L</i> 47 Chnologies, Inc. nould be underline		Proposed Re Cl 45 Kolesar, Pau Comment Ty typo SuggestedRe	SC 45.2.1.18. I pe E	Response Status aa P3: Comm	O 3 nScope	L 37	# <u>8</u>
Add text, if Proposed Resy Cl 45 S Remein, Duane Comment Type Given this Instruction Same issu I note that	f necessary, for transmi sponse Respor SC 45.2.1.16 ne le ER Comm is a change to Table 45 n should not be "Change ue Table 45-21. other tables (ex 45-176	t and receive faults t nse Status 0 P 32 Futurewei Teo nent Status X 5-19 the new rows sl a and insert ".	to clause 149. <i>L</i> 47 Chnologies, Inc. nould be underline		Proposed Re Cl 45 Kolesar, Pau Comment Ty typo SuggestedRe	SC 45.2.1.18. I pe E emedy abilitiy to ability	Response Status aa P3: Comm	O 3 nScope X	L 37	# 8
Add text, if Proposed Res Cl 45 S Remein, Duand Comment Type Given this Instruction Same issu I note that SuggestedRen	f necessary, for transmi sponse Respor SC 45.2.1.16 ne is a change to Table 45 n should not be "Change ue Table 45-21. other tables (ex 45-176) medy	t and receive faults t nse Status 0 P 32 Futurewei Teo nent Status X 5-19 the new rows sl a and insert ".	to clause 149. <i>L</i> 47 Chnologies, Inc. nould be underline		Proposed Re Cl 45 Kolesar, Pau Comment Ty typo SuggestedRe change a	SC 45.2.1.18. I pe E emedy abilitiy to ability	Response Status aa P3: Comm Comment Status	O 3 nScope X	L 37	# 8
Add text, if Proposed Resy Cl 45 S Remein, Duane Comment Type Given this Instruction Same issu I note that	f necessary, for transmi sponse Respor SC 45.2.1.16 ne we ER Commu- is a change to Table 45 in should not be "Change ue Table 45-21. other tables (ex 45-176 medy ient	t and receive faults t nse Status 0 P 32 Futurewei Teo nent Status X 5-19 the new rows sl a and insert ".	to clause 149. <i>L</i> 47 Chnologies, Inc. nould be underline		Proposed Re Cl 45 Kolesar, Pau Comment Ty typo SuggestedRe change a	SC 45.2.1.18. I pe E emedy abilitiy to ability	Response Status aa P3: Comm Comment Status	O 3 nScope X	L 37	# <u>8</u>

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

SC 45.2.1.18.aa

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/ 45 SC 45.2.1.18.aa P 33 L 37 # 169	C/ 45 SC 45.2.1.192 P34 L 36 # 261
egev, Alon Keysight Technologies	den Besten, Gerrit NXP Semiconductors
omment Type E Comment Status X	Comment Type T Comment Status X
ability misspelled as "abilitiy" in 4 places: titles of clause 45.2.1.18.aa and 45.2.1.18.ab as well as the two related entries in the Table of Contents	It might be wise to keep some reserved registers after 2308 for future extension instead of directly abutting the multi-gig register addresses to 1Gbps addresses. Note that for other
uggestedRemedy	IEEE 802.3 PHYs there is also some reserved address between PHY types.
change all occurances of "abilitiy" to "ability"	SuggestedRemedy
roposed Response Response Status O	The 1000BASE-T1 starts at address 2304 which equals 0x0900. Propose to start multi-gig register addresses at 0x0910, which would be 2320 decimal.
	Proposed Response Response Status O
/ 45 SC 45.2.1.18.ab P 33 L 43 # 9	J
olesar, Paul CommScope	C/ 45 SC 45.2.1.192.1 P35 L18 # 114
omment Type E Comment Status X	Dudek, Mike Marvell
typo	Comment Type T Comment Status X
uggestedRemedy	It isn't clear what all MultiGBASE-T1 PMA/PMD resgisters means.
change abilitiy to ability	SuggestedRemedy
roposed Response Response Status O	Be more specific as to which registers this applies to.
	Proposed Response Response Status O
/ 45 SC 45.2.1.18aa P 33 L 36 # 189	
randt, David Rockwell Automation	C/ 45 SC 45.2.1.192.4 P36 L9 # 238
omment Type E Comment Status X	
Misspelling	Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope Comment Type E Comment Status X
uggestedRemedy	Comment Type E Comment Status X "Bits 1.2309.10:9 control the current precoder setting of the transmitter," - because
Change: "abilitiy", To: "ability"	"current" can have meaning both as time and as an electrical parameter, this isn't a great
roposed Response Response Status O	way to say this. The rest of the paragraph, particularly the sentence "Setting these bits forces the precoder to the mode set." is clarity enough, and the word "current" is unneeded
	SuggestedRemedy
/ 45 SC 45.2.1.18ab P 33 L 43 # 190	Delete "current" on P36 L9
randt, David Rockwell Automation	Proposed Response Response Status O
omment Type E Comment Status X Misspelling	
uggestedRemedy	
Change: "abilitiy", To: "ability"	

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/ 45 SC 45.2.1.192.4 Page 5 of 50 6/24/2019 9:51:36 AM

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C/45 SC 45.2.1.193.5 P37 L 28 # 43	C/ 45 SC 45.2.1.194.2 P38 L 36 # 245
Vienckowski, Natalie General Motors	den Besten, Gerrit NXP Semiconductors
Comment Type E Comment Status X	Comment Type TR Comment Status X
Missing article.	Slow wake request is an indication in one direction, which leaves the option open that it
uggestedRemedy	would still require to support regular wake-up in the other direction. I think it would be better to specify that if one of the transceivers on a link request slow-wake, that the slow-wake is
Change: that the polarity of receiver is reversed.	applied in both directions.
To: that the polarity of the receiver is reversed.	SuggestedRemedy
Proposed Response Response Status O	Add the sentence to the paragraph: If either this PHY or its link partner request slow wake, the PHY may only transmit alert immediately following refresh.
C/ 45 SC 45.2.1.194 P38 L13 # 277	Proposed Response Response Status O
Souvignier, Tom Broadcom	hoposod Response Status
Comment Type TR Comment Status X	
In D2.0, the "Precoder requested" bit values are configured by user. The PHY simply read	ds C/ 45 SC 45.2.1.194.3 P 38 L 40 # 278
in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and	Souvignier, Tom Broadcom
noise conditions.	Comment Type TR Comment Status X
uggestedRemedy	In D2.0, the "Precoder requested" bit values are configured by user. The PHY simply reads
uggestedRemedy See page 3 of "tu_3ch_01_0719.pdf".	in these register bit values and sends to the link partner via InfoField. It may be more
See page 3 of "tu_3ch_01_0719.pdf".	
See page 3 of "tu_3ch_01_0719.pdf".	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and
See page 3 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions.
Proposed Response Response Status O C/ 45 SC 45.2.1.194.2 P 38 L 32 # 279	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. SuggestedRemedy
See page 3 of "tu_3ch_01_0719.pdf". roposed Response Response Status O / 45 SC 45.2.1.194.2 P 38 L 32 # 279 ouvignier, Tom Broadcom	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. SuggestedRemedy See page 4 of "tu_3ch_01_0719.pdf".
See page 3 of "tu_3ch_01_0719.pdf". roposed Response Response Status O 1 45 SC 45.2.1.194.2 P 38 L 32 # 279 ouvignier, Tom Broadcom omment Type TR Comment Status X	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. SuggestedRemedy See page 4 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O
See page 3 of "tu_3ch_01_0719.pdf". roposed Response Response Status I 45 SC 45.2.1.194.2 P 38 L 32 # 279 ouvignier, Tom Broadcom omment Type TR Comment Status X In D2.0, the "Precoder requested" bit values are configured by user. The PHY simply read	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. SuggestedRemedy See page 4 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O ds CI 45 SC 45.2.1.195 P 39 L 9 # 35
See page 3 of "tu_3ch_01_0719.pdf". roposed Response Response Status 7 45 SC 45.2.1.194.2 P 38 L 32 # 279 pouvignier, Tom Broadcom pomment Type TR Comment Status X In D2.0, the "Precoder requested" bit values are configured by user. The PHY simply react in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. SuggestedRemedy See page 4 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O CI 45 SC 45.2.1.195 P 39 L 9 # 35 Remein, Duane Futurewei Technologies, Inc.
See page 3 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O C/ 45 SC 45.2.1.194.2 P 38 L 32 # 279 Souvignier, Tom Broadcom Comment Type TR Comment Status X In D2.0, the "Precoder requested" bit values are configured by user. The PHY simply reaction in these register bit values and sends to the link partner via InfoField. It may be more	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. SuggestedRemedy See page 4 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O CI 45 SC 45.2.1.195 P 39 L 9 # 35 Remein, Duane Futurewei Technologies, Inc. Comment Type TR Comment Status X
See page 3 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O Comment Type TR Comment Status X In D2.0, the "Precoder requested" bit values are configured by user. The PHY simply read in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. uggestedRemedy	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. SuggestedRemedy See page 4 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O CI 45 SC 45.2.1.195 P 39 L 9 # 35 Remein, Duane Futurewei Technologies, Inc.
See page 3 of "tu_3ch_01_0719.pdf". roposed Response Response Status V 45 SC 45.2.1.194.2 P 38 L 32 # 279 rouvignier, Tom Broadcom romment Type TR Comment Status X In D2.0, the "Precoder requested" bit values are configured by user. The PHY simply read in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions.	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. <i>SuggestedRemedy</i> See page 4 of "tu_3ch_01_0719.pdf". <i>Proposed Response Response Status</i> O <i>CI</i> 45 SC 45.2.1.195 <i>P</i> 39 <i>L</i> 9 <i>#</i> 35 Remein, Duane Futurewei Technologies, Inc. <i>Comment Type</i> TR <i>Comment Status</i> X Does the following statement imply that once the device has seen an link up the bits in
See page 3 of "tu_3ch_01_0719.pdf". roposed Response Response Status I 45 SC 45.2.1.194.2 P 38 L 32 # 279 ouvignier, Tom Broadcom omment Type TR Comment Status X In D2.0, the "Precoder requested" bit values are configured by user. The PHY simply read in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. uggestedRemedy See page 4 of "tu_3ch_01_0719.pdf".	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. SuggestedRemedy See page 4 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O CI 45 SC 45.2.1.195 P 39 L 9 # 35 Remein, Duane Futurewei Technologies, Inc. Comment Type TR Comment Status X Does the following statement imply that once the device has seen an link up the bits in register 1.2112 are then valid forever? "The values in this register are not valid until link is
See page 3 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O Ef 45 SC 45.2.1.194.2 P 38 L 32 # 279 Souvignier, Tom Broadcom Comment Type TR Comment Status X In D2.0, the "Precoder requested" bit values are configured by user. The PHY simply read in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. EuggestedRemedy See page 4 of "tu_3ch_01_0719.pdf".	in these register bit values and sends to the link partner via InfoField. It may be more robust to optionally allow the PHY to choose the precoder on-the-fly based on channel and noise conditions. SuggestedRemedy See page 4 of "tu_3ch_01_0719.pdf". Proposed Response Response Status O CI 45 SC 45.2.1.195 P 39 L 9 # 35 Remein, Duane Futurewei Technologies, Inc. Comment Type TR Comment Status X Does the following statement imply that once the device has seen an link up the bits in register 1.2112 are then valid forever? "The values in this register are not valid until link is up."

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/ **45** SC **45.2.1.195** Page 6 of 50 6/24/2019 9:51:36 AM

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial \

Comment Type T Comment Status X Link partner slow wake request is an indication in one direction, which leaves the option open that it would better to specify that if one of the transceivers on a link request slow-wake, that the slow-wake is applied in both directions. SuggestedRemedy Add the sentence to the paragraph: If either this PHY or its link partner request slow wake, the PHY may only transmit alert immediately following refresh. Proposed Response Response Status O C/ 45 SC 452.1.196 P 40 L 30 # 38 C/ 45 SC 452.1.196 P 40 L 30 # 38 C/ 45 SC 452.1.196 P 40 L 30 # 38 C/ 45 SC 452.1.196 P 40 L 30 # 38 Comment Type T Comment Status X Comment Status X Comment Status X [JITTER TEST MODE] The jitter test in 149.52.3.2 is designed for the low-frequency square wave signal used in BASE-T PHYs and the test in 149.52.3.2 is designed for the atspeed test patterns (JPO3A & JPO3B) used in backplane phys. A control bit is needed to allow test mode 2 to support both tests, and additional language is needed specifying which signals to use in which tests. SuggestedRemedy Comment Status S Comment Status S Comment Status S Comment Status S C/ 45 SC 45.2.1.197 P 4		5.2 P 39	L 53	# 246	C/ 45	SC 45.2.1.197	P 40	L 53	# 196
Link partner slow wake request is an indication in one direction, which leaves the option open that it would still require to support regular wake-up in the other direction. I think it thus would be better to specify that if one of the transactivers on a link request slow-wake, that it would still require to support regular wake-up in the other direction. I think it thus would be there to specify that if one of the transactivers on a link request slow-wake, that it would still requires to specify that it one of the transactivers on a link request slow-wake, that it would still requires to specify that it to specify the supposed to measure the naise of the signal? To it the sline it to specify that it to specify the specify that it to specify that it t	den Besten, Gerrit	NXP Semicon	ductors		Dawe, Pier	S	Mellanox		
open that it would still require to support regular wake-up in the other direction. I think it would be better to specify that if nore of the transceivers on a link request slow-wake, that the slow-wake is applied in both directions. to an accuracy of 0.5 dB*, yet there is no indication of what "SNR operating marging the slow-wake is applied in both directions. SuggestedRemedy to an accuracy of 0.5 dB*, yet there is no indication of what "SNR operating marging is not application, nor is "the slicer input" defined. Trying to set an accuracy on somethin application. Anyway, providing that accuracy at the extremes of the ran probably difficult and unnecessary. SuggestedRemedy to an accuracy of 0.5 dB*, yet there is no indication of what "SNR operating marging is not application, nor is "the slicer input" defined. Trying to set an accuracy on somethin application, nor is "the slicer input" defined. Trying to set an accuracy on somethin application, nor is "the slicer input" defined. SuggestedRemedy to an accuracy of 0.5 dB*, yet there is no indication of what "SNR operating the accuracy on somethin application, nor is "the slicer input" defined. to an accuracy of 0.5 dB*. Contract Type T Comment Status X to an accuracy of 0.5 dB*. Contract Type T Comment Status X to an accuracy of 0.5 dB*. UITTER TEST MODE The litter test in 149.52.3.2 is designed for the low-frequency super status used in MaxEs. to an accuracy of 0.5 dB*. SuggestedRemedy to an accuracy of 0.2 dB*. to an accuracy of 0.5 dB*	Comment Type T	Comment Status X			Comment	Type TR	Comment Status X		
JuggestedRemedy probably difficult and unnecessary. Add the sentence to the paragraph: If either this PHY or its link partner request slow wake, the PHY may only transmit alert immediately following refresh. probably difficult and unnecessary. Proposed Response Response Status O Cl 45 SC 45.2.1.196 P 40 L 30 # 38 Carment Type T Comment Status X [JITTER TEST MODE] The jitter test in 149.5.2.3.1 is designed for the low-frequency square wave signal used in BASE-T PHYs and the test in 149.5.2.3.2 is designed for the at-speed test patterns (JP03A & JP03B) used in backplane phys. A control bit is needed to allow test mode 2 to support both tests. Comment Status X Comments tagged JITTER TEST MODE] The jitter test and additional language is needed specifying which signals to use in which tests. Comment stagged JITTER TEST MODE should be treated as a group. SuggestedRemedy SuggestedRemedy Table 45-155e: Add new rows after Reserved row, and adjust reserved row, and adjust reserved row to allocate bits rol 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 11 (Reserved), SuggestedRemedy Insert new subclause 452.1.196.2 as follows: Editor has editorial license to word and format either of the options above. May in the transmitter is in test mode 10 transmitter, a value of 0 1 Suspecter Suspropris (Response Status O	open that it would still rec would be better to specify the slow-wake is applied	quire to support regular wake- y that if one of the transceiver	up in the other dir	ection. I think it	to ar means errors?	accuracy of 0.5 c (is the PHY supp or) nor is "the	B", yet there is no indications osed to measure the nois slicer input" defined. Try	ation of what "SNR o se of the signal!? or i ying to set an accura	perating margin" infer it from FEC cy on something so
If either this PHY or its link partner request slow wake, the PHY may only transmit alert immediately following refresh. SuggestedRemedy Proposed Response Response Status O 2/ 45 SC 45.2.1.196 P40 L 30 # 38 2/ 45 SC 45.2.1.196 P40 L 30 # 38 2/ at some status X X X JUTTER TEST MODE] The jitter test in 149.5.2.3.1 is designed for the low-frequency square wave signal used in BASE: TPHYs and the test in 149.5.2.3.2 is designed for the respect test patterns (JP03A & JP03B) used in backplane phys. A control bit is needed to allow test mode 2 to support both tests, and additional language is needed specifying which signals to use in which tests. X The intent of registers 1.2314 and 1.2315 is to represent -1.2.7 dB to +12.7 dB to a sn number. However the description is all title confusing for the uninitiated in that these registers are described as 16 bits registers. SuggestedRemedy Table 45-155e: Add new rows after Reserved row, and adjust reserved row to allocate bits 0.1 of register 1.2313 (To) = 01 (JP03A pattern), 1.2313.1:0 = 10 (JP03B pattern), 1.2313.1:0 = 11 (Reserved). 1.2314.7:0 and 1.2315.7:0 can show more resolution and we are now mixing decimal and binary representations with fractional 0.1dB. MagestedRemedy Insert new subclause 45.2.1.196.2 as follows: C Response Status O MagestedRemedy Insert new subclause 45.2.1.196.2 as follows: SuggestedRemedy									
immediately following refresh. Delete "to an accuracy of 0.5 dB" Proposed Response Response Status O Cl 45 SC 45.2.1.196 P40 L 30 # 38 Cl 45 SC 45.2.1.197 P41 L 1 # 199 Farjadrad, Ramin Aquantia Comment Status X Comment Status X Comment Status X JUTTER TEST MODE The jitter test in 149.5.2.3.1 is designed for the low-frequency square wave signal used in BASE-T PHYs and the test in 149.5.2.3.2 is designed for the adsord to allow test mode 2 to support both tests, and additional language is needed to allow test mode 2 to support both tests. Comment Status X The intent of registers 1.2314 and 1.2315 is to represent -12.7 dB to +12.7 dB to			the PHY may on	lv transmit alert	Suggested	Remedy			
Cl 45 SC 45.2.1.196 P 40 L 30 # 38 Farjadrad, Ramin Aquantia Comment Type T Comment Status X [JITTER TEST MODE] The jitter test in 149.5.2.3.1 is designed for the low-frequency square wave signal used in BASE-T PHYs and the test in 149.5.2.3.2 is designed for the at-speed test patterns (JP03A & JP03B) used in backplane phys. A control bit is needed to allow test mode 2 to support both tests, and additional language is needed specifying which signals to use in which tests. Cl 45 SC 45.2.1.197 P 41 L 1 # 100 Suggested Remedy T Comment Status X Lo, William Axonne Inc. Suggested Remedy Table 45-155E: Add new rows after Reserved row, and adjust reserved row to allocate bits 0.1 of register 7.2313 (Test mode control) register based: 1.2313.1:0= 00 (Normal Sqaure Wave), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 11 (Reserved). 1) Define the registers to be 8 bits only. Hence these 2 registers are 1.27dB is 0x0100. Note that this solution is not as clean as in theory bits 7:0 can show more resolution and we are now mixing decimal and binary representational 0.1dB. List ransmits the JP03A pattern, and a value of 10 transmits the JP03B pattern. See 149.5.1 Editor has editorial license to word and format either of the options above. Proposed Response Response Status O				,	Delete	"to an accuracy of	0.5 dB"		
Again Again Again Again Again Comment Type T Comment Status X Again Againg Again Againg Again Again Again Again Again Again Agai	Proposed Response	Response Status 0			Proposed I	Response	Response Status 0		
The intervent of the transmitter is in test mode 2, bits 1.2313.1:0 Aquantia Comment Type T Comment Status X [JITTER TEST MODE] The jitter test in 149.5.2.3.1 is designed for the low-frequency square wave signal used in BASE-T PHYs and the test in 149.5.2.3.2 is designed for the at-speed test patterns (JPO3A & JPO3B) used in backplane phys. A control bit is needed to allow test mode 2 to support both tests, and additional language is needed specifying which signals to use in which tests. Lo, William Axone Inc. Comment Type T Comment Type T Comment Status X Comment Staged JITTER TEST MODE should be treated as a group. SuggestedRemedy Table 45-155e. Add new rows after Reserved row, and adjust reserved row to allocate bits 0, 1 of register 1.2313 (Test mode control) register based: 1.2313.1:0= 10 (JPO3B patterm), 1.2313.1:0= 10 (JPO3B patterm), 1.2313.1:0= 11 (Reserved), 1.2312.1126 (Jitter test control (1.2313.1:0) Insert new subclause 45.2.1.196.2 as follows: 45.2.1.196.2 Jitter test control (1.2313.1:0) 0 (Normal Square May eof 0 0 1 transmitts reserved row the transmitter, a value of 0 0 1 Transmits the JPO3A pattern, and avalue of 1 0 1 transmits the JPO3B pattern. See 149.5.1									
Comment Type T Comment Status X [JITTER TEST MODE] The jitter test in 149.5.2.3.1 is designed for the low-frequency square wave signal used in BASE-T PHYs and the test in 149.5.2.3.2 is designed for the at-speed test patterns (JPO3A & JPO3B) used in backplane phys. A control bit is needed to allow test mode 2 to support both tests, and additional language is needed specifying which signals to use in which tests. Comment Type T Comment Status X Comment Status X Comment Status X The intent of registers 1.2314 and 1.2315 is to represent -12.7 dB to +12.7 dB as an number. However the description is a little confusing for the uninitiated in that these registers are described as 16 bits registers. SuggestedRemedy Table 45-155e: Add new rows after Reserved row, and adjust reserved row to allocate bits 0,1 of register 1.2313 (Test mode control) register based: 1.2313.1:0= 00 (Normal Square Wave), 1.2313.1:0= 10 (JPO3A pattern), 1.2313.1:0= 10 (JPO3B pattern), 1.2313.1:0= 11 (Reserved), Define the registers to be 8 bits only. Hence these 2 registers are 1.2314.7:0 and 1.2315.7:0 to reserved. Insert new subclause 45.2.1.196.2 as follows: 45.2.1.196.2 as follows: Editor has editorial license to word and format either of the options above. Proposed Response Response Status O	C/ 45 SC 45.2.1.196	6 P 40	L 30	# 38	C/ 45	SC 45.2.1.197	P 41	L 1	# 99
 [JITTER TEST MODE] The jitter test in 149.5.2.3.1 is designed for the low-frequency square wave signal used in BASE-T PHYs and the test in 149.5.2.3.2 is designed for the atspeed test patterns (JP03A & JP03B) used in backplane phys. A control bit is needed to allow test mode 2 to support both tests, and additional language is needed specifying which signals to use in which tests. Comments tagged JITTER TEST MODE should be treated as a group. SuggestedRemedy Table 45-155e: Add new rows after Reserved row, and adjust reserved row to allocate bits 0,1 of register 1.2313 (Test mode control) register based: 1.2313.1:0= 00 (Normal Square Wave), 1.2313.1:0= 01 (JP03B pattern), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 11 (Reserved), Insert new subclause 45.2.1.196.2 as follows: 45.2.1.196.2 Jitter test control (1.2313.1:0) When the transmitter is in test mode 2, bits 1.2313.1:0 control the pattern of the jitter test signal. A value of 0 0 transmits a square wave from the transmitter, a value of 0 1 transmitter, a value of 1 0 transmitter, a value o	Farjadrad, Ramin	Aquantia			Lo, William		Axonne li	nc.	
square wave signal used in BASE-T PHYs and the test in 149.5.2.3.2 is designed for the at- speed test patterns (JP03A & JP03B) used in backplane phys. A control bit is needed to allow test mode 2 to support both tests, and additional language is needed specifying which signals to use in which tests. Comments tagged JITTER TEST MODE should be treated as a group. SuggestedRemedy Table 45-155e: Add new rows after Reserved row, and adjust reserved row to allocate bits 0,1 of register 1.2313 (Test mode control) register based: 1.2313.1:0= 00 (Normal Sqaure Wave), 1.2313.1:0= 01 (JP03A pattern), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 11 (Reserved), Insert new subclause 45.2.1.196.2 as follows: 45.2.1.196.2 Jitter test control (1.2313.1:0) When the transmitter is in test mode 2, bits 1.2313.1:0 control the pattern of the jitter test signal. A value of 0 0 transmits the JP03B pattern, and a value of 1 0 transmits the JP03B pattern, see 149.5.1	Comment Type T	Comment Status X			Comment	Гуре Т	Comment Status X		
allow test mode 2 to support both tests, and additional language is needed specifying which signals to use in which tests. Comments tagged JITTER TEST MODE should be treated as a group. SuggestedRemedy Table 45-155e: Add new rows after Reserved row, and adjust reserved row to allocate bits 0,1 of register 1.2313 (Test mode control) register based: 1.2313.1:0= 00 (Normal Sqaure Wave), 1.2313.1:0= 01 (JP03A pattern), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 11 (Reserved), Insert new subclause 45.2.1.196.2 as follows: 45.2.1.196.2 Jitter test control (1.2313.1:0) When the transmitter is in test mode 2, bits 1.2313.1:0 control the pattern of the jitter test signal. A value of 0 transmits a square wave from the transmitter, a value of 0 1 transmits the JP03A pattern, and a value of 1 0 transmits the JP03B pattern. See 149.5.1	square wave signal used	in BASE-T PHYs and the tes	st in 149.5.2.3.2 is	s designed for the at-	numbe	r. However the de	scription is a little confus		
 Which signals to use in which rights to use in which rests. Comments tagged JITTER TEST MODE should be treated as a group. SuggestedRemedy Table 45-155e: Add new rows after Reserved row, and adjust reserved row to allocate bits 0,1 of register 1.2313 (Test mode control) register based: 1.2313.1:0= 00 (Normal Sqaure Wave), 1.2313.1:0= 01 (JP03A pattern), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 11 (Reserved), Insert new subclause 45.2.1.196.2 as follows: 45.2.1.196.2 Jitter test control (1.2313.1:0) When the transmitter is in test mode 2, bits 1.2313.1:0 control the pattern of the jitter test signal. A value of 0 0 transmits the JP03B pattern. see 149.5.1 Comments and the subclause of 1 0 transmits the JP03B pattern. See 149.5.1 Comments and the subclause of 1 0 transmits the JP03B pattern. See 149.5.1 					•				
Comments tagged JITTER TEST MODE should be treated as a group. SuggestedRemedy Table 45-155e: Add new rows after Reserved row, and adjust reserved row to allocate bits 0,1 of register 1.2313 (Test mode control) register based: 1.2313.1:0= 00 (Normal Sqaure Wave), 1.2313.1:0= 01 (JP03A pattern), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 11 (Reserved), Insert new subclause 45.2.1.196.2 as follows: 45.2.1.196.2 Jitter test control (1.2313.1:0) When the transmitter is in test mode 2, bits 1.2313.1:0 control the pattern of the jitter test signal. A value of 0 0 transmits a square wave from the transmitter, a value of 0 1 transmits the JP03A pattern, and a value of 1 0 transmits the JP03B pattern. See 149.5.1					00	,	ne. My preference is me	ethod 1.	
SuggestedRemedy Table 45-155e: Add new rows after Reserved row, and adjust reserved row to allocate bits 0,1 of register 1.2313 (Test mode control) register based: 1.2313.1:0= 00 (Normal Sqaure Wave), 1.2313.1:0= 01 (JP03A pattern), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 11 (Reserved), Insert new subclause 45.2.1.196.2 as follows: 45.2.1.196.2 Jitter test control (1.2313.1:0) When the transmitter is in test mode 2, bits 1.2313.1:0 control the pattern of the jitter test signal. A value of 0 0 transmits a square wave from the transmitter, a value of 0 1 transmits the JP03B pattern. See 149.5.1 Set 1.2314.7:0 and 1.2315.7:0 to reserved.					2 wavs	to fix this. Pick o			
Table 45-155e: Add new rows after Reserved row, and adjust reserved row to allocate bits 0,1 of register 1.2313 (Test mode control) register based: 1.2313.1:0= 00 (Normal Sqaure Wave), 1.2313.1:0= 01 (JP03A pattern), 1.2313.1:0= 10 (JP03B pattern), 1.2313.1:0= 11 (Reserved),2) There is an example stating 0.0dB is 0x8000. Add 2 more examples where 12.7dB is 0xF00 and -12.7dB is 0x0100. Note that this solution is not as clean as in theory bits 7:0 can show more resolution and we are now mixing decimal and binary representations with fractional 0.1dB.Insert new subclause 45.2.1.196.2 as follows:Editor has editorial license to word and format either of the options above.45.2.1.196.2 Jitter test control (1.2313.1:0) When the transmitter is in test mode 2, bits 1.2313.1:0 control the pattern of the jitter test signal. A value of 0 0 transmits a square wave from the transmitter, a value of 0 1 transmits the JP03A pattern, and a value of 1 0 transmits the JP03B pattern. See 149.5.1ResponseResponse Status0	which signals to use in w	hich tests.	eated as a group.		1) Defi	ne the registers to	be 8 bits only. Hence the	nese 2 registers are	
45.2.1.196.2 Jitter test control (1.2313.1:0) When the transmitter is in test mode 2, bits 1.2313.1:0 control the pattern of the jitter test signal. A value of 0 0 transmits a square wave from the transmitter, a value of 0 1 transmits the JP03A pattern, and a value of 1 0 transmits the JP03B pattern. See 149.5.1	which signals to use in w Comments tagged JITTE	hich tests.	eated as a group.		1) Defi 1.231	ne the registers to 4.15:8 and 1.231	be 8 bits only. Hence th 5.15:8 respectively.	nese 2 registers are	
45.2.1.190.2 Jitter test control (1.2313.1.0) When the transmitter is in test mode 2, bits 1.2313.1.0 control the pattern of the jitter test signal. A value of 0 0 transmits a square wave from the transmitter, a value of 0 1 transmits the JP03A pattern, and a value of 1 0 transmits the JP03B pattern. See 149.5.1	which signals to use in w Comments tagged JITTE SuggestedRemedy Table 45-155e: Add new 0,1 of register 1.2313 (Te Wave), 1.2313.1:0= 01 (rhich tests. ER TEST MODE should be tr rows after Reserved row, and est mode control) register bas	adjust reserved ed: 1.2313.1:0= 0	row to allocate bits 00 (Normal Sqaure	1) Defi 1.23 Set 1 2) The 12.70 as cl	ne the registers to 4.15:8 and 1.231 .2314.7:0 and 1.2 re is an example s dB is 0xFF00 and ean as in theory bi	be 8 bits only. Hence th 5.15:8 respectively. 315.7:0 to reserved. tating 0.0dB is 0x8000. -12.7dB is 0x0100. Note ts 7:0 can show more re	Add 2 more example e that this solution is solution and we are r	not
	which signals to use in w Comments tagged JITTE SuggestedRemedy Table 45-155e: Add new 0,1 of register 1.2313 (Te Wave), 1.2313.1:0= 01 ((Reserved),	which tests. ER TEST MODE should be tr rows after Reserved row, and est mode control) register bas (JP03A pattern), 1.2313.1:0=	adjust reserved ed: 1.2313.1:0= 0	row to allocate bits 00 (Normal Sqaure	1) Defi 1.23 Set 1 2) The 12.7 as cl mixin	he the registers to 14.15:8 and 1.231 .2314.7:0 and 1.2 re is an example s IB is 0xFF00 and ean as in theory bi g decimal and bin	be 8 bits only. Hence th 5.15:8 respectively. 315.7:0 to reserved. tating 0.0dB is 0x8000. -12.7dB is 0x0100. Note ts 7:0 can show more re ary representations with	Add 2 more example e that this solution is solution and we are r fractional 0.1dB.	not now
Proposed Response Response Status O	which signals to use in w Comments tagged JITTE SuggestedRemedy Table 45-155e: Add new 0,1 of register 1.2313 (Te Wave), 1.2313.1:0= 01 ((Reserved), Insert new subclause 45. 45.2.1.196.2 Jitter test or When the transmitter is i signal. A value of 0 0 tra transmits the JP03A patt	which tests. ER TEST MODE should be tr rows after Reserved row, and est mode control) register bas (JP03A pattern), 1.2313.1:0= .2.1.196.2 as follows: ontrol (1.2313.1:0) n test mode 2, bits 1.2313.1:0 unsmits a square wave from th	d adjust reserved ed: 1.2313.1:0= (10 (JP03B patter) control the patter	row to allocate bits 00 (Normal Sqaure n), 1.2313.1:0= 11 rn of the jitter test alue of 0 1	1) Defi 1.23 Set 1 2) The 12.70 as cl mixin Editor I	the registers to 4.15:8 and 1.231 .2314.7:0 and 1.2 re is an example s B is 0xFF00 and ean as in theory bi g decimal and bin mas editorial licens	be 8 bits only. Hence th 5.15:8 respectively. 315.7:0 to reserved. tating 0.0dB is 0x8000. -12.7dB is 0x0100. Note ts 7:0 can show more re ary representations with the to word and format eith	Add 2 more example e that this solution is solution and we are r fractional 0.1dB.	not now

C/ 45 SC 45.2.1.197

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial \

C/ 45	SC 45.2.1.198	P 41	L 8	# 36	C/ 45	SC 45.	2.3.76	P 45	L 50	# 11
Remein, D	uane	Futurewei Te	chnologies, Inc.		Anslow, P	ete		Ciena		
Comment	Type TR	Comment Status X			Comment	Туре Е		Comment Status X		
		2314 (SNR) is in "offset bina			Table	45-244a is	split acro	oss two pages with only one b	ody row on the	first page.
		ment notation". Furthermore n" (hence the "Must Be Satis			Suggested	Remedy				
		ally described in Wikipedia.	shed = 120) while	onset bindiy	Increa	se the Orpl	nan rows	setting in Table Designer to	4	
Suggested	Remedy				Proposed	Response		Response Status O		
	two's complement	notation" to								
	t binary notation"	_			CI 45	SC 45.	2.3.77	P 46	L 15	# 12
Proposed I	Response	Response Status O			Anslow, P	ete		Ciena		
					Comment		-	Comment Status X		
C/ 45	SC 45.2.3.74.4		L 50	# 100		ink partner in link).	MultiGB	ASE-T1" should be "The link	a partner MultiGE	BASE-T1" (lower
.o, William		Axonne Inc.			Suggested	dRemedy				
Comment	51	Comment Status X			Chang	ge "Link" to	"link"			
There	is no change to thi	s clause from 802.3bp so it s	should not show u	p in the document.	Proposed	Response		Response Status 0		
Suggested	Remedy									
Remov	e clause					SC 45.	0 0 77	P46	L 16	# 050
Proposed I	Response	Response Status O			C/ 45		2.3.77			# 250
					den Beste	,		NXP Semicono	ductors	
2/45	SC 45.2.3.75	P 45	L 14	# 123	Comment			Comment Status X	0.0.70	
Nicholl, Sh		Xilinx				0	e to 149	3.9.2.12 like in sub-clause 45	.2.3.76	
Comment		Comment Status X			Suggested	-				
	51	essage data received from th	e link partner, but	the description		ne same ref				
		Seems mis-leading / inconsis			Proposed	Response		Response Status 0		
Suggested	Remedy									

Proposed Response Response Status O

C/ **45** SC **45.2.3.77**

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial Λ

C/ 45 SC 45.2.3	3.77 P 46	L 19	# 13	C/ 45 SC 45.2.3.80.2 P 49 L 31 # 44
Anslow, Pete	Ciena			Wienckowski, Natalie General Motors
Comment Type E	Comment Status X			Comment Type E Comment Status X
	ld be "Link partner" (lower case p e Name column (4 instances)	in partner) in the	itle of Table 45-	typo
	e Name Column (4 Instances)			SuggestedRemedy
SuggestedRemedy	p "partner" in the title of Table 45-2) 4.4 h and alaa in ti	a Nama adumn (4	Change: PCS receiver is detecting is detecting
instances)		2440 and also in t	le Name column (4	To: PCS receiver is detecting Proposed Response Response Status O
Proposed Response	Response Status 0			Proposed Response Response Status O
		1.00	"	C/ 45 SC 45.2.3.80.2 P 49 L 31 # 191
C/ 45 SC 45.2.3		L 22	# 124	Brandt, David Rockwell Automation
Nicholl, Shawn	Xilinx			Comment Type E Comment Status X
Comment Type E	Comment Status X	the Pales and a set	and the second sector the sec	Duplicate text
	ains message data received from rst". Seems mis-leading / inconsis		ut the description	SuggestedRemedy
SuggestedRemedy	J			Change: "is detecting is detecting", To: "is detecting"
	d first" with "received first" for all o	occurrences in the	e table.	Proposed Response Response Status O
Proposed Response	Response Status O			
	· · · · <i>p</i> · · · · · · · · · · ·			C/ 45 SC 45.2.3.80.4 P49 L47 # 192
C/ 45 SC 45.2.3	3.78 P46	L 39	# 4	Brandt, David Rockwell Automation
lajduczenia, Marek	Charter Com	munications		Comment Type E Comment Status X
Comment Type TR	Comment Status X			Description of non-latched source is wrong.
	ed to be an optional requirement? "			SuggestedRemedy
	CS control register should be chos eset is a normal operational state v			Change: "PCS high BER status bit (3.2324.9)." To: "PCS high RFER status bit (3.2324.9)."
SuggestedRemedy				Proposed Response Response Status O
There are at least 28 none of which strike keyword "should" ou	as an informative text, which I belie 8 instances of the keyword "shoul as me as intended optional require ught to be reviewed and if the give t, text ought to be rewritten as info	d" in the draft (exe ment. Each and e n statement is no	very istance of the	
Proposed Response	Response Status 0			

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

C/ 45 SC 45.2.3.80.4

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial \

Anskow, Pate Clima Comment Type E Comment Status X IEEE P802.26g D30 6 is inserting PICS theres MM152 through MM2204 so the items being inserted by this draft should start at MM203 Suggested/Remedy Change the adding instruction to: """"""""""""""""""""""""""""""""""""	C/ 45	SC 45.5.3.3	P 52	L 8	# 14	CI 45 SC 45.5.	3.3 P 53	L 25	# 46
IEEE Plaz 2.cg D3.0 is inserting PICS thems MM152 through MM204 so the items baing inserted by this drift should start at MM205 PICS for 45.2.194.4 when there is no shall. Suggested/Remedy Change the editing instruction to: Do one of the following: One of the following: Change the editing instruction to: The DCS than 3.2.0.1.194.5 to 45.2.1.194.4 to 45.2.1.194.5. O Contract Type E Clena Clean O Contract Type E Contract Status X Pfos Status O O When table in 45.5.3.3 at tellows of page 54 Table r14.4 to 45.2.1.194.5 to 45.2.1.194.5. O Suggested/Remedy Contract Status X Wienckowski, Natalie General Motors Suggested/Remedy Change Status O O When tables point 55.3.3 at the foot of page 54 Table r14.4 to 45.2.1.194.5 to 45.2.1.194.5. O Table r24 on page 57 Table r24 on page 57 Change Status O O Cl 45 SC 45.5.3.3 P53 L 22 # laf5 Wienckowski, Natalie General Motors Comment Type E Comment Status X Proposed Response Response Status O O Cl 45 SC 45.5.3.3 P53 L 22 # laf5 Cl 45 SC 45.5.3.3 P53 <td>Anslow, P</td> <td>ete</td> <td>Ciena</td> <td></td> <td></td> <td>Wienckowski, Natalie</td> <td>General Moto</td> <td>rs</td> <td></td>	Anslow, P	ete	Ciena			Wienckowski, Natalie	General Moto	rs	
inserted by this draft should start at MM205 Suggested/Remedy Change the editing instruction to: "meent PICS Items MA205 through MM204 (inserted by IEEE Std 802.3cg- 2017) in the table in 45.5.3.3 as follows: Renumber the PICS items accordingly. Proposed Response Response Status O Cl 45 SC 45.5.3.3 P52 L 49 # [15 Cl 45 SC 45.5.3.3 P52 L 49 # [16 Cl 45 SC 45.5.3.3 P53 L 28 # [47 When tables split across pages, the bottom ruling of the table on the first page should be "very thin" Suggested/Remedy Mate the bottom ruling very thin" for: the table in 45.5.3.3 at the foot of page 52 the table in 49.11.4.3.1 at the foot of page 173 the table in 49.11.4.3.3 at the foot of page 173 the table in 49.11.4.3.3 the foot of page 174 the table in 49.11.4.3.3 the foot of page 173 the table in 49.11.4.3.3 the foot of page 174 the table in 49.11.4.3.4 the f	Comment	Туре Е	Comment Status X			Comment Type T	Comment Status X		
SuggestedRemedy Change the adding instruction to: "Insert PCS items sociality." Origination of the sector is the sect				through MM204 s	so the items being	PICS for 45.2.194.4	when there is no shall.		
Change the ediling instruction to: One of the fundamity. 'insert PICS items MM250 through MM227 after MM204 (inserted by IEEE Std 802.3cg-2014) in the table in 45.5.3 as follows:' One of the fundamity. Proposed Response Response Status O Cl 45 SC 45.5.3.3 P52 L49 # 15 Comment Type Comment Status X Proposed Response Status O Cl 45 SC 45.5.3.3 P52 L49 # 15 SuggestedRemedy Comment Type Comment Type Comment Type Comment Type Make the bottom ruling 'very thin' for: the table in 45.5.3.3 the foot of page 52 the table in 45.5.3.3 the foot of page 52 the table in 49.114.4.3.4 the foot of page 173 the table in 49.114.3.4 at the foot of page 173 the table in 49.114.3.4 at the foot of page 184 Proposed Response Response Status O Cl 45 SC 45.5.3.3 P53 L29 # 170 Cl 45 SC 45.5.3.3 P53 L22 # 45 Comment Type Topased Response Response Status O Cl 45 SC 45.5.3.3 P53 L22 <			ld start at MM205			SuggestedRemedy			
"Insert PICS Items MX205 through MM2027 after MM204 (inserted by IEEE Std 802.3cg- 2014) in the Iable in 45.5.3 as follows:" Subclauses from 45.2.1.194.4 to 45.2.1.194.5. 2014) in the Iable in 45.5.3 as follows:" O Proposed Response Response Status O Cl 45 SC 45.5.3.3 P52 L49 # [5	••	-							
Cl 45 SC 45.5.3.3 P52 L 49 # 15 Anslow, Pete Ciena Comment Type E Comment Status X When tables split across pages, the bottom ruling of the table on the first page should be "very thin" Suggested/Remedy Make the bottom ruling very thin" for: the table in 45.5.3.3 at the foot of page 52 the table in 45.5.3.3 at the foot of page 52 the table in 45.5.3.3 at the foot of page 54 Table 78-4 on page 57 Cl 45 SC 45.5.3.3 P53 L 29 # 170 The table in 149.11.4.3.4 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 174 Toomment Type C / 45 SC 45.5.3.3 P53 L 29 # 170 Cl 45 SC 45.5.3.3 P53 L 22 # 45 Comment Type E Comment Status X Wienckowski, Natalie General Motors Comment Type E Comment Status X Advertising misspelled as "advertising" Vienckowski, Natalie General Motors Comment Type E Comment Status X Wienckowski, Natalie General Motors Comment Type T Comment Status X <	"Inser 201x)	t PICS Items MM20 in the table in 45.5.3	5 through MM227 after MM2 3.3 as follows:"	204 (inserted by l	EEE Std 802.3cg-	Subclause from 45. OR	2.1.194.4 to 45.2.1.194.5.	set to zero" AND) on P53L25 Change
Anslow, Pete Clena Comment Type E Comment Status X When tables split across pages, the bottom ruling of the table on the first page should be "very thin" X Wienckowski, Natalie General Motors SuggestedRemedy Make the bottom ruling "very thin" for: the table in 45.5.3.3 at the foot of page 52 the table in 149.11.4.3.4 at the foot of page 173 the table in 149.11.4.3.4 at the foot of page 173 the table in 149.11.4.3.4 at the foot of page 173 the table in 149.11.4.3.3 at the foot of page 173 the table in 149.11.4.3.3 at the foot of page 173 the table in 149.11.4.3.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 173 the table in 149.11.4.4.3 at the foot of page 174 the comment Type E Comment Type E Comment Type E Comment Type E Comment Type T Commen	Proposed	Response	Response Status O			Proposed Response	Response Status 0		
Comment Type E Comment Status X When tables split across pages, the bottom ruling of the table on the first page should be 'very thin' Comment Type T Comment Status X SuggestedRemedy Make the bottom ruling 'very thin' for: Change Subclause from 45.2.1.194.5 to 45.2.1.195.4. Proposed Response Response Status O Table 78-4 on page 57 The table in 149.11.4.3.1 at the foot of page 173 Change Subclause from 45.2.1.194.5 to 45.2.1.195.4. Proposed Response Response Status O C/ 45 SC 45.5.3.3 P53 L 22 # 45 45 Comment Status X Wienckowski, Natalie General Motors Comment Type E Comment Type E Comment Status X wienckowski, Natalie General Motors SuggestedRemedy Change "advertising" SuggestedRemedy Change "advertising" SuggestedRemedy Change "advertising" SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy Change "advertising" SuggestedRemedy Sus	C/ 45	SC 45.5.3.3	P 52	L 49	# 15	C/ 45 SC 45.5.	3.3 P53	L 28	# 47
Comment Type E Comment Status X When tables split across pages, the bottom ruling of the table on the first page should be "very thin" SuggestedRemedy Incorrect reference SuggestedRemedy Make the bottom ruling "very thin" for: the table in 45.5.3.3 at the foot of page 57 the table in 149.11.4.3.1 at the foot of page 173 the table in 149.11.4.3.1 at the foot of page 179 the table in 149.11.4.3.1 at the foot of page 184 O Proposed Response Response Status O Cl 45 SC 45.5.3.3 P53 L22 # 45 Wienckowski, Natalie General Motors Comment Status X PICS for 45.2.194.4 when there is no shall. SuggestedRemedy Change "advertising" to "advertising" SuggestedRemedy Do one of the following: On P38L48 Change "should be set to zero" to "shall be set to zero" Table be set to zero" to "shall be set to zero" OR Delete PICS MM222 E Comment Status N	Anslow, P	ete	Ciena			Wienckowski, Natalie	General Moto	rs	
When tables split across pages, the bottom ruling of the table on the first page should be "very thin" Incorrect reference Suggested/Remedy Make the bottom ruling "very thin" for: the table in 45.5.3.3 at the foot of page 52 the table in 45.5.3.3 at the foot of page 173 the table in 149.11.4.2.1 at the foot of page 179 the table in 149.11.4.4.3 at the foot of page 184 Incorrect reference Proposed Response Response Status O Cl 45 SC 45.5.3.3 P53 L 22 # 170 Wienckowski, Natalie General Motors Comment Type E Comment Status X Suggested/Remedy Comment Type T Comment Status X Proposed Response Response Status O Suggested/Remedy Do ne of the following: On P38L48 Change "should be set to zero" to "shall be set to zero" The table in following: On P38L48 Change "should be set to zero" to "shall be set to zero" Proposed Response Response Status O	Comment	Туре Е	Comment Status X			*		-	
SuggestedRemedy Change Subclause from 45.2.1.194.5 to 45.2.1.195.4. Make the bottom ruling "very thin" for: the table in 45.5.3.3 at the foot of page 52 the table in 45.5.3.3 at the foot of page 54 Table 78-4 on page 57 Table 78-4 on page 57 the table in 149.11.4.2.1 at the foot of page 173 the table in 149.11.4.2.1 at the foot of page 179 the table in 149.11.4.3.4 at the foot of page 184 Proposed Response Response Status O Cl 45 SC 45.5.3.3 P 53 L 22 # 45 O Cl 45 SC 45.5.3.3 P 53 L 22 # 45 O Cl 45 SC 45.5.3.3 P 53 L 22 # 45 O Cl 45 SC 45.5.3.3 P 53 L 22 # 45 O Cl 45 SC 45.5.3.3 P 53 L 22 # 45 Wienckowski, Natalie General Motors Comment Status X advertising " SuggestedRemedy Cornment Type T Comment Status X Proposed Response Response Status O O SuggestedRemedy Do one of the following: O Non P38L48 Change "should be set to zero" to "shall be set to zero" P con page 10.2 </td <td></td> <td></td> <td>pages, the bottom ruling of t</td> <td>he table on the fir</td> <td>st page should be</td> <td></td> <td></td> <td></td> <td></td>			pages, the bottom ruling of t	he table on the fir	st page should be				
Make the bottom ruling "very thin" for: the table in 45.5.3.7 at the foot of page 52 the table in 45.5.3.7 at the foot of page 54 Table 78-4 on page 57 the table in 149.11.4.2.1 at the foot of page 173 the table in 149.11.4.3.4 at the foot of page 179 the table in 149.11.4.3.4 at the foot of page 184 Proposed Response Response Status O Cl 45 SC 45.5.3.3 P53 L22 # 45 Cl 45 SC 45.5.3.3 P53 L22 # 45 Comment Type T Comment Status X PICS for 45.2.194.4 when there is no shall. SuggestedRemedy Do one of the following: On P38L48 Change "should be set to zero" to "shall be set to zero" OR Delete PICS MM222	Suggested	Remedy				,			
the table in 149.11.4.3.4 at the foot of page 179 the table in 149.11.4.4.3 at the foot of page 184 Proposed Response Response Status O Cl 45 SC 45.5.3.3 P 53 L 22 # 45 Wienckowski, Natalie General Motors Comment Type T Comment Status X PICS for 45.2.194.4 when there is no shall. SuggestedRemedy Do one of the following: On P38L48 Change "should be set to zero" to "shall be set to zero" OR Delete PICS MM222	the tal the tal	ble in 45.5.3.3 at the ble in 45.5.3.7 at the	foot of page 52			-			
Proposed Response Response Status O Cl 45 SC 45.5.3.3 P53 L 22 # 45 Wienckowski, Natalie General Motors SuggestedRemedy SuggestedRemedy Comment Type T Comment Status X PICS for 45.2.194.4 when there is no shall. SuggestedRemedy O SuggestedRemedy Do one of the following: O On P38L48 Change "should be set to zero" to "shall be set to zero" Comment Status Comment Status OR Delete PICS MM222 E Comment Status Comment Status	the tal	ole in 149.11.4.3.4 a	t the foot of page 179					-	# 170
Cl 45 SC 45.5.3.3 P53 L 22 # 45 Wienckowski, Natalie General Motors Comment Type T Comment Status X PICS for 45.2.194.4 when there is no shall. SuggestedRemedy Do one of the following: On P38L48 Change "should be set to zero" to "shall be set to zero" OR Delete PICS MM222			1 0			-	Comment Status X	-	
Cl 45 SC 45.5.3.3 P53 L 22 # 45 change "advertisingg" to "advertising" Wienckowski, Natalie General Motors Proposed Response Response Status O Comment Type T Comment Status X PICS for 45.2.194.4 when there is no shall. SuggestedRemedy Do one of the following: On P38L48 Change "should be set to zero" to "shall be set to zero" OR Delete PICS MM222 Status O	1000380	1.00001100				advertising misspel	ed as "advertisingg"		
Cl 45 SC 45.5.3.3 P53 L 22 # 45 change "advertisingg" to "advertising" Wienckowski, Natalie General Motors Proposed Response Response Status O Comment Type T Comment Status X PICS for 45.2.194.4 when there is no shall. SuggestedRemedy Do one of the following: On P38L48 Change "should be set to zero" to "shall be set to zero" OR Delete PICS MM222 Dester PICS MM222						SuggestedRemedv			
Wienckowski, Natalie General Motors Proposed Response Response Status O Comment Type T Comment Status X PICS for 45.2.194.4 when there is no shall. SuggestedRemedy Do one of the following: Do one of the following: Do one of the following: Do no ef the following: Do no P38L48 Change "should be set to zero" to "shall be set to zero" Delete PICS MM222	CI 45	SC 45.5.3.3	P 53	L 22	# 45		g" to "advertising"		
Comment Type T Comment Status X PICS for 45.2.194.4 when there is no shall. SuggestedRemedy Do one of the following: On P38L48 Change "should be set to zero" to "shall be set to zero" OR Delete PICS MM222	Wienckow	vski, Natalie	General Moto	rs		Proposed Response	Response Status O		
SuggestedRemedy Do one of the following: On P38L48 Change "should be set to zero" to "shall be set to zero" OR Delete PICS MM222	Comment	Туре Т	Comment Status X						
Do one of the following: On P38L48 Change "should be set to zero" to "shall be set to zero" OR Delete PICS MM222	PICS	for 45.2.194.4 when	there is no shall.						
On P38L48 Change "should be set to zero" to "shall be set to zero" OR Delete PICS MM222	Suggested	Remedy							
	On P3 OR	88L48 Change "shou	IId be set to zero" to "shall b	e set to zero"					

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/ **45** SC **45.5.3.3** Page 10 of 50 6/24/2019 9:51:36 AM

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C/ 45 SC 45.5.3.3	P 53	L 31	# 48	C/ 45	SC 45.5.3.7	P 55	L 4	# 171
Wienckowski, Natalie	General Motors			Regev, Alon		Keysight Tech	nologies	
Comment Type T	Comment Status X			Comment Ty	rpe E	Comment Status X		
Incorrect reference				"the" is r	epeated as "the	the" in 2 places in the draft		
SuggestedRemedy				SuggestedR	-			
Change Subclause from	1 45.2.1.194.5 to 45.2.1.195.5.			change a	all occurances of	of "the the" to "the"		
Proposed Response	Response Status O			Proposed Re	esponse	Response Status O		
C/ 45 SC 45.5.3.7	P 54	L 7	# 49	C/ 45	SC 45.5.3.7	P 55	L 14	# 87
Wienckowski, Natalie	General Motors			Laubach, Ma	ark	Broadcom		
Comment Type T Incorrect reference. Thi	Comment Status X is is not what is in P802.3:2018.			Comment Ty "the the"	rpe E	Comment Status X		
SuggestedRemedy				SuggestedR	emedy			
Change Subclause from	1 45.2.3.172.1 to 45.2.3.172.2.			Change	to single "the"			
Proposed Response	Response Status O			Proposed Re	esponse	Response Status O		
C/ 45 SC 45.5.3.7	P 54	L 13	# 16					
Anslow, Pete	Ciena							
Comment Type E	Comment Status X							
In the editing instruction	"after Item RM184" should be "a	fter Item RM190"						
SuggestedRemedy								
In the editing instruction	change "after Item RM184" to "a	fter Item RM190"						
Proposed Response	Response Status O							
C/ 45 SC 45.5.3.7	P 55	L 4	# 86					
Laubach, Mark	Broadcom							
Comment Type E "the the"	Comment Status X							
SuggestedRemedy								
Change to single "the"								
enange te enigie the								

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/ **45** SC **45.5.3.7**

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C/ 78 SC 78.1.4	P 56	L 7	# 17	C/ 78	SC 78.2	P 56	L 49	# 19
Anslow, Pete	Ciena			Anslow, Pe	ete	Ciena		
Comment Type E	Comment Status X			Comment	Туре Е	Comment Status X		
	t P802.3cj D2.0 defined the orde			Table	78-2 is missing	an ellipsis row at the bottom afte	er the row for 100	BASE-T1
http://www.ieee802.or	g/3/cj/comments/P8023-D2p0-0 beed/reach" order using the follo	Comments-Final-t	oyID.pdf#page=14	Suggested	IRemedy			
 Increasing speed Increasing reach 	l. (maximum supported distance o	-			le 78-2 add an e ASE-T1	llipsis row with default ruling at	the bottom after t	he row for
3. Decreasing numb	per of lanes			Proposed	Response	Response Status 0		
	emental rules address are incluc							
	gnations, by convention, are ass precede "Fiber" PHYs (all else be		Э.	C/ 78	SC 78.2	P 56	L 50	# 50
	rt (all else being equal).			Wienckow	ski, Natalie	General Moto	rs	
	outs 2.5GBASE-T1 before 2.5G BASE-T1 before 10GBASE-T.	BASE-T, 5GBAS	E-T1 before	<i>Comment</i> Missin	<i>Type</i> E g bottom row	Comment Status X		
SuggestedRemedy				Suggested	IRemedy			
Change the editing ins				Add ro	w to bottom of t	able with single column and "	" in the cell.	
"Incort a row for 2 5G	BASE-T1 after 2.5GBASE-KX (ac incortod by IE						
2018), insert a row for 2018), and insert a ro	r 5GBASE-T1 after 5GBASE-KI w for 10GBASE-T1 after 10GBA	R (as inserted by	IEEE Std 802.3cb-	Proposed	Response	Response Status O		
2018), insert a row for 2018), and insert a ro (unchanged rows not	r 5GBASE-T1 after 5GBASE-KI w for 10GBASE-T1 after 10GB/ shown):"	R (as inserted by	IEEE Std 802.3cb-	Proposed - Cl 78	Response SC 78.3	Response Status O	L 5	# 5
2018), insert a row for 2018), and insert a ro (unchanged rows not	r 5GBASE-T1 after 5GBASE-KI w for 10GBASE-T1 after 10GBA	R (as inserted by	IEEE Std 802.3cb-		SC 78.3	• •	-	# 5
2018), insert a row for 2018), and insert a ro (unchanged rows not Proposed Response	r 5GBASE-T1 after 5GBASE-K w for 10GBASE-T1 after 10GB/ shown):" <i>Response Status</i> 0	R (as inserted by ASE-KR in Table	IEEE Std 802.3cb- 78-1 as follows	CI 78	SC 78.3 ia, Marek	P 57	-	# 5
2018), insert a row for 2018), and insert a ro (unchanged rows not Proposed Response	r 5GBASE-T1 after 5GBASE-Ki w for 10GBASE-T1 after 10GB/ shown):" <i>Response Status</i> 0 <i>P</i> 56	R (as inserted by	IEEE Std 802.3cb-	C/ 78 Hajduczen Comment	SC 78.3 ia, Marek <i>Type</i> ER	P 57 Charter Comr	nunications	# <u>5</u>
2018), insert a row for 2018), and insert a rov (unchanged rows not Proposed Response C/ 78 SC 78.2 Anslow, Pete	r 5GBASE-T1 after 5GBASE-Ki w for 10GBASE-T1 after 10GB/ shown):" <i>Response Status</i> O <i>P</i> 56 Ciena	R (as inserted by ASE-KR in Table	IEEE Std 802.3cb- 78-1 as follows	C/ 78 Hajduczen Comment	SC 78.3 ia, Marek <i>Type</i> ER hall statements	P 57 Charter Comr Comment Status X	nunications	# <u>5</u>
2018), insert a row for 2018), and insert a rov (unchanged rows not Proposed Response Cl 78 SC 78.2 Anslow, Pete Comment Type E	r 5GBASE-T1 after 5GBASE-Ki w for 10GBASE-T1 after 10GB/ shown):" <i>Response Status</i> O <i>P</i> 56 Ciena <i>Comment Status</i> X	R (as inserted by ASE-KR in Table	IEEE Std 802.3cb- 78-1 as follows # 18	CI 78 Hajduczen Comment New s Suggested	SC 78.3 ia, Marek <i>Type</i> ER hall statements <i>IRemedy</i>	P 57 Charter Comr Comment Status X	nunications	
2018), insert a row for 2018), and insert a row (unchanged rows not Proposed Response Cl 78 SC 78.2 Anslow, Pete Comment Type E Comment #66 agains: http://www.ieee802.or This defined the sort of Applying these rules p	r 5GBASE-T1 after 5GBASE-Ki w for 10GBASE-T1 after 10GB/ shown):" <i>Response Status</i> O <i>P</i> 56 Ciena	R (as inserted by ASE-KR in Table <i>L</i> 29 er of items in Tab Comments-Final-t e 78-1	IEEE Std 802.3cb- 78-1 as follows # 18 le 78-2. See byID.pdf#page=14	CI 78 Hajduczen Comment New s Suggested	SC 78.3 iia, Marek <i>Type</i> ER hall statements <i>IRemedy</i> ICS statements	P 57 Charter Comr <i>Comment Status</i> X were added, PICS were not upo	nunications	
2018), insert a row for 2018), and insert a row (unchanged rows not Proposed Response Cl 78 SC 78.2 Anslow, Pete Comment Type E Comment #66 agains: http://www.ieee802.or This defined the sort of Applying these rules p 5GBASE-T, and 10G	r 5GBASE-T1 after 5GBASE-Ki w for 10GBASE-T1 after 10GB/ shown):" Response Status O P56 Ciena Comment Status X t P802.3cj D2.0 defined the orde g/3/cj/comments/P8023-D2p0-C order to be the same as for Tabl puts 2.5GBASE-T1 before 2.5G	R (as inserted by ASE-KR in Table <i>L</i> 29 er of items in Tab Comments-Final-t e 78-1	IEEE Std 802.3cb- 78-1 as follows # 18 le 78-2. See byID.pdf#page=14	CI 78 Hajduczen Comment New s Suggesteo Add P	SC 78.3 iia, Marek <i>Type</i> ER hall statements <i>IRemedy</i> ICS statements	P 57 Charter Comr <i>Comment Status</i> X were added, PICS were not upo to address new "shall" stateme	nunications	
2018), insert a row for 2018), and insert a row (unchanged rows not Proposed Response Cl 78 SC 78.2 Anslow, Pete Comment Type E Comment #66 agains: http://www.ieee802.or This defined the sort of Applying these rules p 5GBASE-T, and 10G SuggestedRemedy Change the editing ins: "Insert a row for 2.5G 2018), insert a row for	r 5GBASE-T1 after 5GBASE-Ki w for 10GBASE-T1 after 10GB/ shown):" Response Status O P56 Ciena Comment Status X t P802.3cj D2.0 defined the order g/3/cj/comments/P8023-D2p0-C order to be the same as for Tabl puts 2.5GBASE-T1 before 2.5G BASE-T1 before 10GBASE-T. struction to: BASE-T1 after 2.5GBASE-KX (r 5GBASE-T1 after 5GBASE-KX (w for 10GBASE-T1 after 10GB/	R (as inserted by ASE-KR in Table <i>L</i> 29 er of items in Tab Comments-Final-t e 78-1 BASE-T, 5GBAS as inserted by IE R (as inserted by IE	IEEE Std 802.3cb- 78-1 as follows # 18 le 78-2. See byID.pdf#page=14 E-T1 before EE Std 802.3cb- IEEE Std 802.3cb-	CI 78 Hajduczen Comment New s Suggesteo Add P	SC 78.3 iia, Marek <i>Type</i> ER hall statements <i>IRemedy</i> ICS statements	P 57 Charter Comr <i>Comment Status</i> X were added, PICS were not upo to address new "shall" stateme	nunications	

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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Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial \

78 SC 78.5 P57 L18	# 20	C/ 78	SC 78.5	P 57	L 38	# 22
slow, Pete Ciena		Anslow, Pe	ete	Ciena		
nment Type E Comment Status X		Comment	Туре Т	Comment Status X		
There are nine paragraphs in 78.5 of the base standard, so the additional panumber 10. Case-1 and Case 2 start with "Case-x of the PHY in the MultiGBASE-T set	applies when	blank.		ink_tx (max) and Tphy_shrink_ parameters are 0, then these ce		
" but cases 3 and 4 start with "Case-x in MultiGBASE-T1 is the same as .	"	Suggested	lRemedy			
gestedRemedy			ate the cells for 1	phy_shrink_tx (max) and Tphy	_shrink_rx (max)	in Table 78-4 for the
Change the editing instruction to: "Insert a 10th paragraph in 78.5 as follows:" For Case-3 and Case-4, change: "Case-x in MultiGBASE-T1 is the same as" to: "Case-x of the PHY in the MultiGBASE-T set is the same as"		Proposed		Response Status 0		
posed Response Response Status 0		CI 98	SC 98.5.1	P 61	L 11	# 224
		McClellan,	Brett	Marvell		
		Comment	Туре Т	Comment Status X		
78 SC 78.5 P 57 L 26	# 21		149-34 referen			
slow, Pete Ciena		•	-	d 2.5GigT1 are never referenc	ed.	
nment Type E Comment Status X		Suggested				
Comment #66 against P802.3cj D2.0 defined the order of items in Table 78- http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID. This defined the sort order to be the same as for Table 78-1 Applying these rules puts 2.5GBASE-T1 before 2.5GBASE-T, 5GBASE-T1 5GBASE-T, and 10GBASE-T1 before 10GBASE-T.	pdf#page=14	— 5Gi — 100 to	5GigT1;represer igT1; represents GigT1; represent	tts that the 2.5GBASE-T1 PMA that the 5GBASE-T1 PMA is th is that the 10GBASE-T1 PMA is s that the 10/5/2.5GBASE-T1 F	he signal source. s the signal sourc	e. "
igestedRemedy		— 110	Sigi i ,iepieseni		INA IS THE SIGNALS	source.
Change the editing instruction to: "Insert a row for 2.5GBASE-T1 after 2.5GBASE-KX (as inserted by IEEE S 2018), insert a row for 5GBASE-T1 after 5GBASE-KR (as inserted by IEEE 2018) and insert a row for 5GBASE-T1 after 5GBASE-KR (as inserted by IEEE	5 Std 802.3cb-	Proposed	Response	Response Status O		
2018), and insert a row for 10GBASE-T1 after 10GBASE-KR in Table 78-4 (unchanged rows not shown):"	as ionows	C/ 104	SC 104.1.3	P 62	L 10	# 240
posed Response Response Status O		Zimmerma	an, George	ADI, APL Gp,	, Aquantia, BMW,	Cisco, Commscope
		<i>Comment</i> Capita	<i>, , , , , , , , , ,</i>	Comment Status X		
			Pomody	-		
		Sugaesten				
		Suggested Chang	ge "type F PSE"	to "Type F PSE"		

C/ 104 SC 104.1.3

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial \

See "stewart_3ch_01_0719" Slides 5,6, and 7 Proposed Response Response Status 0 Cl 104 SC 104.5.6.4 P 63 L 27 # 241 Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, Comment Status X All the "VPD", "PPD" references should have the "PD" in subscript. SuggestedRemedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status 0 Cl 104 SC 104.5.6.4 P 63 L 40 # 267 Cl 104 SC 104.5.6.4 P 63 L 40 # 267 Cl 104 SC 104.5.6.4 P 63 L 40 # 267 Cl 104 SC 104.5.6.4 P 63 L 40 # 267 Cl 105 SC 125.1.4 P 67 L 33 # 42 Stewart, Heath Analog Devices Comment Type T R Comment Status X Type F systems include a NALUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-11 (Type B) systems. This needs to be changed for the higher data transmission speed. SuggestedRemedy SuggestedRemedy SuggestedRemedy Comment Status X Type F systems include a NALUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-11 (Type B) systems. This needs to be changed for the higher data transmission speed. SuggestedRemedy Change right side boarder on last cell in 2nd ro to b		.6.3 P 62	L 54	# 266	C/ 104 S	C 104.6	P 64	L 8	# 6
Type F systems include a NGAUTO PHY. The PSE power supply ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Multiple 'shall' statements were revised (extended) and one new was added, but the text PICS was not updated SuggestedRemedy See 'stewart_Sch_01_0719' Slides 5.6, and 7 Proposed Response Response Status O C/ 104 SC 104.5.6.4 P63 L27 # [241] Anslow, Pete Ciena Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, Comment Status X All the 'VPD', "PPD' references should have the "PD' in subscript. SuggestedRemedy SuggestedRemedy Editor to check and make "PD' and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status O C/ 104 SC 104.5.6.4 P63 L40 # [267] The right hand ruling for the second heading row in Table 125-2 to the default. SuggestedRemedy SuggestedRemedy Change the right hand ruling for the second heading row in Table 125-2 to the default. Proposed Response Response Status O C/ 104 SC 104.5.6.4 P63 L40 # [267] Stowart, Heath Analog Devices Comment Status X Comment Status X Type F systems include a	Stewart, Heath	Analog Devic	es		Hajduczenia, M	arek	Charter Comm	unications	
standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Suggested/Remedy See "stewart_3ch_01_0719" Sildes 5,6, and 7 Proposed Response Response Status O C/ 104 SC 104.5.6.4 P 63 L 27 # 241 Comment Type E Comment Status X All the "VPD", "PPD" references should have the "PD" in subscript. Suggested/Remedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status O C/ 104 SC 104.5.6.4 P 63 L 40 # 267 C/ 104 SC 104.5.6.4 P 63 L 40 # 267 C/ 104 SC 104.5.6.4 P 63 L 40 # 267 C/ 104 SC 104.5.6.4 P 63 L 40 # 267 Stewart, Heath Analog Devices Comment Type TR Comment Status X Type F systems include as NGAUTO PHY. The PD inple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Suggested/Remedy See "stewart_3ch_01_0719" Sildes 8 and 9	Comment Type TR	Comment Status X			Comment Type	ER	Comment Status X		
SuggestedRemedy See "stewar_3ch_01_0719" Slides 5.6, and 7 Proposed Response Response Status O Cl 104 SC 104.5.6.4 P63 L 27 # [241 Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, Comment Type E Comment Status X All the "VPD", "PPD" references should have the "PD" in subscript. SuggestedRemedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status Q Cl 104 SC 104.5.6.4 P63 L 40 # [267] Cl 104 SC 104.5.6.4 P63 L 40 # [267] Cl 104 SC 104.5.6.4 P63 L 40 # [267] Stewart, Heath Analog Devices Comment Type T R Comment Status X Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Cl 125 SC 125.1.4 P67 L 33 # [42] SuggestedRemedy SuggestedRemedy Change right side boarder on cell "149" SuggestedRemedy Stewart, Heath Analog Devices General Motors Comment Type E Comment Status X SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedReme	standard was reused	d from 1000BASE-T1 (Type B) s					nts were revised (extended) and	d one new was a	dded, but the text o
See "stewart_3ch_01_0719" Slides 5,6, and 7 Proposed Response Response Status Cl 104 SC 104.5.6.4 P 63 L 27 # [241] Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, Comment Status X Anslow, Pete Ciena All the "VPD", "PPD" references should have the "PD" in subscript. SuggestedRemedy E domment Status X The right hand ruling for the second heading row in Table 125-2 should be set to the default. Stewart_14eath Analog Devices Response Status O Cl 125 SC 125.1.4 P 67 L 33 # [23] Cl 104 SC 104.5.6.4 P 63 L 40 # [267] Change the right hand ruling for the second heading row in Table 125-2 to the default. Proposed Response Response Status O Cl 125 SC 125.1.4 P 67 L 33 # [42] Stewart, Heath Analog Devices Comment Type E Comment Status X O Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. SuggestedRemedy Change right side boarder on cell '149'' SuggestedRemedy SuggestedRemedy See "stewart_3ch_01_07/19" Slides 8 and 9 Change right side boarder on la	8	mission speed.			SuggestedRem	edy			
Proposed Response Response Status O Cl 104 SC 104.5.6.4 P63 L 27 Image: All the second heading row in Table 125-2 should be set to the default. Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, Comment Type E Comment Status X All the "VPD", "PPD" references should have the "PD" in subscript. Suggested/Remedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status O Cl 104 SC 104.5.6.4 P63 L 40 Image: Type Tree Comment Status X The right hand ruling for the second heading row in Table 125-2 to the default. Suggested/Remedy Cl 104 SC 104.5.6.4 P63 L 40 Image: Type Tree Comment Status O Cl 104 SC 104.5.6.4 P63 L 40 Image: Type Tree Comment Status O Cl 104 SC 104.5.6.4 P63 L 40 Image: Type Tree Comment Status N Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE: T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Suggested/Remedy Suggested/Remedy Suggested/Remedy Suggested/Remedy Change right side boarder on last ce	,				Per comme	nt			
C/ 104 SC 104.5.6.4 P63 L 27 # 241 Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, Comment Type E Comment Status X All the "VPD", "PPD" references should have the "PD" in subscript. SuggestedRemedy E comment Status X SuggestedRemedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status O C/ 104 SC 104.5.6.4 P63 L 40 # 267 Stewart, Heath Analog Devices Comment Status X Comment Type Tree Comment Status X Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. C/ 125 SC 125.1.4 P67 L 33 # 42 Wienckowski, Natalie General Motors Comment Type E Comment Status X Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. SuggestedRemedy Change right side boarder on last cell in 2nd to to be the wider outside border. SuggestedRemedy SuggestedRemedy Change rig		_			Proposed Resp	onse	Response Status 0		
C/ 104 SC 104.5.6.4 P63 L 27 # 241 Zimmerman, George ADI, APL GP, Aquantia, BMW, Cisco, Commscope, Anslow, Pete Ciena Comment Type E Comment Status X The right hand ruling for the second heading row in Table 125-2 should be set to the default. SuggestedRemedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Change the right hand ruling for the second heading row in Table 125-2 to the default. Proposed Response Response Status O C/ 104 SC 104.5.6.4 P63 L 40 # 267 C/ 104 SC 104.5.6.4 P63 L 40 # 267 Stewart, Heath Analog Devices Comment Type E Comment Status X Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. SuggestedRemedy Cange right side boarder on cell "149" SuggestedRemedy SuggestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outside border. Proposed Response Response Response Status O	Proposed Response	Response Status O							
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Comment Type E Comment Status X All the "VPD", "PPD" references should have the "PD" in subscript. SuggestedRemedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status O C/ 104 SC 104.5.6.4 P63 L 40 # [267] C/ 125 SC 125.1.4 P67 L 33 # [42] Stewart, Heath Analog Devices Comment Status X C/ 125 SC 125.1.4 P67 L 33 # [42] SuggestedRemedy Type T R Comment Status X Incorrect table border on cell "149" SuggestedRemedy SuggestedRemedy SuggestedRemedy C/ 104 SC 104.5.6.4 P63 L 40 # [267] C/ 125 SC 125.1.4 P67 L 33 # [42] Comment Type TR Comment Status X Incorrect table border on cell "149" SuggestedRemedy SuggestedRemedy SuggestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outside border. SuggestedRemedy See "stewart_3ch_01_0719" Slides 8 and 9 SugestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outside border.	C/ 104 SC 104.5.	.6.4 P 63	L 27	# 241	Anslow, Pete		Ciena		
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Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status C/ 104 SC 104.5.6.4 P63 L 40 # 267 C/ 104 SC 104.5.6.4 P63 L 40 # 267 Stewart, Heath Analog Devices C/ 125 SC 125.1.4 P67 L 33 # 42 Comment Type TR Comment Status X Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Comment Type E Comment Type Comment Status X SuggestedRemedy See "stewart_3ch_01_0719" Slides 8 and 9 See "stewart_3ch_01_0719" Slides 8 and 9 Comment Type Response Status O	21)" in subscript.		0	and ruling fo	the second heading row in Ta	ble 125-2 should	be set to the
Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status O Cl 104 SC 104.5.6.4 P63 L 40 # 267 Cl 104 SC 104.5.6.4 P63 L 40 # 267 Stewart, Heath Analog Devices Cl 125 SC 125.1.4 P67 L 33 # 42 Wienckowski, Natalie General Motors Comment Type TR Comment Status X Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. SuggestedRemedy SuggestedRemedy SuggestedRemedy See "stewart_3ch_01_0719" Slides 8 and 9 P67 L 33 # 42	SuggestedRemedy				SuggestedRem	edy			
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Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Incorrect table border on cell "149" SuggestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outside border. See "stewart_3ch_01_0719" Slides 8 and 9 Proposed Response Response Status O	C/ 104 SC 104.5.	.6.4 P63		11 201			a 1.1.1		
reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. SuggestedRemedy SuggestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outside border. See "stewart_3ch_01_0719" Slides 8 and 9 Proposed Response Response Status O			-		Wienckowski, N	latalie	General Motors	S	
data transmission speed. SuggestedRemedy SuggestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outside border. See "stewart_3ch_01_0719" Slides 8 and 9 Proposed Response Response Status O	Stewart, Heath	Analog Devic	-		,			S	
SuggestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outside border. See "stewart_3ch_01_0719" Slides 8 and 9 Proposed Response Response Status O	Stewart, Heath Comment Type TR Type F systems incl	Analog Devic Comment Status X lude a NGAUTO PHY. The PD rip	es	e standard was	Comment Type	E	Comment Status X	S	
See "stewart_3ch_01_0719" Slides 8 and 9 Proposed Response Response Status O	Stewart, Heath Comment Type TR Type F systems incl reused from 1000BA	Analog Devic Comment Status X lude a NGAUTO PHY. The PD rip ASE-T1 (Type B) systems. This n	es	e standard was	Comment Type Incorrect ta	E ble border or	Comment Status X	S	
See "stewart_3ch_01_0/19" Slides 8 and 9	Stewart, Heath Comment Type TR Type F systems incl reused from 1000BA data transmission sp	Analog Devic Comment Status X lude a NGAUTO PHY. The PD rip ASE-T1 (Type B) systems. This n	es	e standard was	Comment Type Incorrect ta SuggestedRem	E ble border or edy	Comment Status X n cell "149"	-	porder.
	Stewart, Heath Comment Type TR Type F systems incl reused from 1000BA data transmission sp SuggestedRemedy	Analog Devic Comment Status X lude a NGAUTO PHY. The PD rip ASE-T1 (Type B) systems. This n peed.	es	e standard was	Comment Type Incorrect ta SuggestedRem Change rigl	E ble border or edy ht side board	Comment Status X n cell "149" ler on last cell in 2nd ro to be th	-	porder.

C/ 125 SC 125.1.4

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C/ 125 SC 125.2.4.	.3 P 68	L 28	# 7	C/ 125	SC 125.3		P 69	L 8	# 90
Hajduczenia, Marek	Charter Comn	nunications		Trowbridge	e, Steve	N	okia		
Comment Type ER	Comment Status X			Comment 7	Туре Е	Comment Stat	us X		
	were added, PICS were not upd	lated				e pause quanta cen left aligned and son			e 4th column, some
SuggestedRemedy				Suggested		ion anglica and son			
Per comment					-	ent in the columns o	of Table 125	-3	
Proposed Response	Response Status 0				0			-5	
				Proposed F	Response	Response Stat	us O		
C/ 125 SC 125.3	P 68	L 30	# 133	C/ 149	SC		P	L	# 400
Grau, Olaf	Robert Bosch	GmbH						_	# 138
Comment Type E	Comment Status X			DiMinico, C	-		C Commun	ications	
Titel on pg 68, Tabel o	ın pg. 69			Comment 7		Comment Stat acteristics between		ation and Dy Fire	ation including the
SuggestedRemedy	nouldn't be separated by a page	break			CB are not defin		Ine IX Fund		cuon including the
	Response Status O	break		Suggested	Remedv				
10Dosea Response									
Proposed Response	Response Status U			00		vide information on	channel tra	nsmission charad	cteristics defined
roposea kesponse				Create betwee	an annex to pro n the Tx function	n to Rx function inc	lusive of the	e host PCB, MDI	
	P68	L 33	# 77	Create betwee	an annex to pro n the Tx function		lusive of the	e host PCB, MDI	
C 125 SC 125.3			# 77	Create betwee that mig	an annex to pro n the Tx function	n to Rx function inc ble in an implement	lusive of the	e host PCB, MDI	
7 125 SC 125.3 Vienckowski, Natalie Comment Type E	P 68 General Motor Comment Status X	rs		Create betwee that mig	an annex to pro on the Tx function ght not be testak entor to provide	n to Rx function inc ble in an implement	lusive of the ed system.	e host PCB, MDI	
C/ 125 SC 125.3 Vienckowski, Natalie Comment Type E	P 68 General Motor	rs		Create betwee that mig	an annex to pro on the Tx function ght not be testak entor to provide	n to Rx function inc ble in an implement draft annex.	lusive of the ed system.	e host PCB, MDI	
7 125 SC 125.3 Vienckowski, Natalie Somment Type E Table 125-3 does not r SuggestedRemedy	P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin	rs ne for "Presentatio	on of numbers".	Create betwee that mig	an annex to pro on the Tx function ght not be testak entor to provide	n to Rx function inc ble in an implement draft annex. <i>Response Stat</i>	lusive of the ed system.	e host PCB, MDI	and link segment
 7 125 SC 125.3 Vienckowski, Natalie comment Type E Table 125-3 does not ruggestedRemedy Change Editorial instru 	P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin uction to be" Replace Table 125	rs ne for "Presentatio 5-3 (as modified b	on of numbers". y IEEE Std 802.3cb-	Create betwee that mig Comme Proposed F	an annex to pro in the Tx function ght not be testable entor to provide Response SC 11.4.2.1	n to Rx function inc ble in an implement draft annex. <i>Response Stat</i>	lusive of the ed system. i us O	e host PCB, MDI ide	
I 125 SC 125.3 Vienckowski, Natalie omment Type E Table 125-3 does not r uggestedRemedy Change Editorial instru 2018) with the updated number format and alig	P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin uction to be" Replace Table 125 d table, which adds 2.5GBASE- gnment to match IEEE 802.3 W	rs ne for "Presentatio 5-3 (as modified b T1 and 5GBASE- /G editorial guidel	on of numbers". y IEEE Std 802.3cb- T1 and corrects the ines, as follows:"	Create betwee that mig Comme Proposed F	an annex to pro in the Tx function ght not be testat entor to provide Response SC 11.4.2.1 Curtis	n to Rx function inc ble in an implement draft annex. <i>Response Stat</i>	lusive of the ed system. i us 0 P 173 NH-IOL	e host PCB, MDI ide	and link segment
125 SC 125.3 Vienckowski, Natalie <i>comment Type</i> E Table 125-3 does not r <i>suggestedRemedy</i> Change Editorial instru- 2018) with the updated number format and alig Correct Table 125-3 to	P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin uction to be" Replace Table 125 d table, which adds 2.5GBASE- gnment to match IEEE 802.3 W o match latest IEEE 802.3 WG e	rs ne for "Presentatio 5-3 (as modified b T1 and 5GBASE- /G editorial guidel	on of numbers". y IEEE Std 802.3cb- T1 and corrects the ines, as follows:"	Create betwee that mig Comme Proposed F C/ 149 Donahue, C Comment 7	an annex to pro in the Tx function ght not be testat entor to provide Response SC 11.4.2.1 Curtis Type E	n to Rx function inc ole in an implement draft annex. <i>Response Stat</i> U <i>Comment Stat</i>	lusive of the ed system. i us 0 P 173 NH-IOL ius X	e host PCB, MDI ide	and link segment
Cl 125 SC 125.3 Wienckowski, Natalie Comment Type E Table 125-3 does not r SuggestedRemedy Change Editorial instru- 2018) with the updated number format and alig Correct Table 125-3 to	P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin uction to be" Replace Table 125 d table, which adds 2.5GBASE- gnment to match IEEE 802.3 W	rs ne for "Presentatio 5-3 (as modified b T1 and 5GBASE- /G editorial guidel	on of numbers". y IEEE Std 802.3cb- T1 and corrects the ines, as follows:"	Create betwee that mig Comme Proposed F C/ 149 Donahue, C Comment 7 Shall st	an annex to pro in the Tx function ght not be testat entor to provide Response SC 11.4.2.1 Curtis Type E tatement missing	n to Rx function inc ole in an implement draft annex. <i>Response Stat</i>	lusive of the ed system. i us 0 P 173 NH-IOL ius X	e host PCB, MDI ide	and link segment
Cl 125 SC 125.3 Vienckowski, Natalie Comment Type E Table 125-3 does not r SuggestedRemedy Change Editorial instru 2018) with the updated number format and alig Correct Table 125-3 to	P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin uction to be" Replace Table 125 d table, which adds 2.5GBASE- gnment to match IEEE 802.3 W o match latest IEEE 802.3 WG e	rs ne for "Presentatio 5-3 (as modified b T1 and 5GBASE- /G editorial guidel	on of numbers". y IEEE Std 802.3cb- T1 and corrects the ines, as follows:"	Create betwee that mig Comme Proposed F C/ 149 Donahue, C Comment 7 Shall st Suggested	an annex to pro in the Tx function ght not be testat entor to provide Response SC 11.4.2.1 Curtis Type E tatement missin Remedy	n to Rx function inc ole in an implement draft annex. <i>Response Stat</i> U <i>Comment Stat</i>	lusive of the ed system. i us O P 173 NH-IOL tus X item	e host PCB, MDI ide	and link segment # 1 <u>39</u>
X 125 SC 125.3 Vienckowski, Natalie Comment Type E Table 125-3 does not r SuggestedRemedy Change Editorial instru 2018) with the updated number format and alig Correct Table 125-3 to	P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin uction to be" Replace Table 125 d table, which adds 2.5GBASE- gnment to match IEEE 802.3 W o match latest IEEE 802.3 WG e	rs ne for "Presentatio 5-3 (as modified b T1 and 5GBASE- /G editorial guidel	on of numbers". y IEEE Std 802.3cb- T1 and corrects the ines, as follows:"	Create betwee that mig Comme Proposed F C/ 149 Donahue, C Comment 7 Shall st Suggested Insert n Feature	an annex to pro in the Tx function ght not be testable entor to provide Response SC 11.4.2.1 Curtis Type E tatement missing Remedy new PICS entry be: PCS Reset	n to Rx function inc ole in an implement draft annex. <i>Response Stat</i> U <i>Comment Stat</i> g associated PICS	lusive of the ed system. i us O P 173 NH-IOL tus X item	e host PCB, MDI ide	and link segment # 1 <u>39</u>
Initial State State State </td <td>P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin uction to be" Replace Table 125 d table, which adds 2.5GBASE- gnment to match IEEE 802.3 W o match latest IEEE 802.3 WG e</td> <td>rs ne for "Presentatio 5-3 (as modified b T1 and 5GBASE- /G editorial guidel</td> <td>on of numbers". y IEEE Std 802.3cb- T1 and corrects the ines, as follows:"</td> <td>Create betwee that mig Comme Proposed F C/ 149 Donahue, C Comment 7 Shall st Suggested/ Insert n Feature Subclau</td> <td>an annex to pro in the Tx function ght not be testable entor to provide Response SC 11.4.2.1 Curtis Type E tatement missing Remedy new PICS entry be PCS Reset use: 149.3.2.1</td> <td>n to Rx function inc ble in an implement draft annex. <i>Response Stat</i> U <i>Comment Stat</i> g associated PICS before PCT1 of Dra</td> <td>lusive of the ed system. i us O P 173 NH-IOL tus X item</td> <td>e host PCB, MDI ide</td> <td>and link segment # 1<u>39</u></td>	P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin uction to be" Replace Table 125 d table, which adds 2.5GBASE- gnment to match IEEE 802.3 W o match latest IEEE 802.3 WG e	rs ne for "Presentatio 5-3 (as modified b T1 and 5GBASE- /G editorial guidel	on of numbers". y IEEE Std 802.3cb- T1 and corrects the ines, as follows:"	Create betwee that mig Comme Proposed F C/ 149 Donahue, C Comment 7 Shall st Suggested/ Insert n Feature Subclau	an annex to pro in the Tx function ght not be testable entor to provide Response SC 11.4.2.1 Curtis Type E tatement missing Remedy new PICS entry be PCS Reset use: 149.3.2.1	n to Rx function inc ble in an implement draft annex. <i>Response Stat</i> U <i>Comment Stat</i> g associated PICS before PCT1 of Dra	lusive of the ed system. i us O P 173 NH-IOL tus X item	e host PCB, MDI ide	and link segment # 1 <u>39</u>
X 125 SC 125.3 Vienckowski, Natalie Comment Type E Table 125-3 does not r SuggestedRemedy Change Editorial instru 2018) with the updated number format and alig Correct Table 125-3 to	P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin uction to be" Replace Table 125 d table, which adds 2.5GBASE- gnment to match IEEE 802.3 W o match latest IEEE 802.3 WG e	rs ne for "Presentatio 5-3 (as modified b T1 and 5GBASE- /G editorial guidel	on of numbers". y IEEE Std 802.3cb- T1 and corrects the ines, as follows:"	Create betwee that mig Comme Proposed F C/ 149 Donahue, C Comment 7 Shall st Suggested/ Insert n Feature Subclau	an annex to pro in the Tx function ght not be testate entor to provide Response SC 11.4.2.1 Curtis Type E tatement missing Remedy new PICS entry be PCS Reset use: 149.3.2.1 Comment: Desci	n to Rx function inc ole in an implement draft annex. <i>Response Stat</i> U <i>Comment Stat</i> g associated PICS	lusive of the ed system. i us O P 173 NH-IOL tus X item	e host PCB, MDI ide	and link segment # 1 <u>39</u>
Wienckowski, Natalie Comment Type E Table 125-3 does not r SuggestedRemedy Change Editorial instru 2018) with the updated number format and alig	P 68 General Motor Comment Status X match IEEE802.3's 2018 guidlin uction to be" Replace Table 125 d table, which adds 2.5GBASE- gnment to match IEEE 802.3 W o match latest IEEE 802.3 WG e	rs ne for "Presentatio 5-3 (as modified b T1 and 5GBASE- /G editorial guidel	on of numbers". y IEEE Std 802.3cb- T1 and corrects the ines, as follows:"	Create betwee that mig Comme Proposed F C/ 149 Donahue, C Comment 7 Shall st Suggested/ Insert n Feature Subcla Value/C Status:	an annex to pro in the Tx function ght not be testate entor to provide Response SC 11.4.2.1 Curtis Type E tatement missing Remedy new PICS entry be PCS Reset use: 149.3.2.1 Comment: Desci	n to Rx function inc ble in an implement draft annex. <i>Response Stat</i> U <i>Comment Stat</i> g associated PICS before PCT1 of Dra	lusive of the ed system. i us O P 173 NH-IOL tus X item	e host PCB, MDI ide	and link segment # 1 <u>39</u>

C/ 149 SC 11.4.2.1

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C/ 149 SC 11.4.2.2	P 175	L 10	# 140	C/ 149 SC 11.4.2.8	P 177	L 33	# 143
Donahue, Curtis	UNH-IOL	-		Donahue, Curtis	UNH-IOL		
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
Shall statement missing	associated PICS item			Shall statement missin	g associated PICS item		
SuggestedRemedy				SuggestedRemedy			
Insert new PICS entry a Feature: Frame and bloo Subclause: 149.3.2.3.1 Value/Comment: Descri Status: M Support: Yes[] N/A[]	-	e following conter	nt:	Insert new PICS entry Feature: Partially trans Subclause: 149.3.9.2. Value/Comment: Desc Status: M Support: Yes[] N/A[]	1	the following cont	ent:
Proposed Response	Response Status 0			Proposed Response	Response Status O		
C/ 149 SC 11.4.2.2	P175	L 17	# 141	C/ 149 SC 11.4.3.2	P178	L 15	# 144
Donahue, Curtis	UNH-IOL			Donahue, Curtis	UNH-IOL		
Comment Type E Incorrect subclause refe	Comment Status X			Comment Type E Duplicate PICS entry.	Comment Status X		
SuggestedRemedy				SuggestedRemedy			
Change '149.3.2.3.2' to	'149.3.2.3.3'.			Remove PMAT1.			
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 149 SC 11.4.2.7	P177	L 16	# 142	C/ 149 SC 11.4.3.1	0 <i>P</i> 182	L 35	# 145
Donahue, Curtis	UNH-IOL			Donahue, Curtis	UNH-IOL		
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
Туро.				Туро.			
SuggestedRemedy Capitalize the 'i' in 'ignor	e' in the Value/Comment field	of PCSL4.		SuggestedRemedy Change 'Expire s97.5'	to 'Expires 97.5'		
Proposed Response	Response Status o			Proposed Response	Response Status O		

C/ 149 SC 11.4.3.10

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C/ 149 SC 11.4.4.3		L 35	# 146	C/ 149 SC 11.4.4.3	P 185	L3	# 149
Donahue, Curtis	UNH-IOL			Donahue, Curtis	UNH-IOL		
Comment Type E Update subclause ref	Comment Status X			Comment Type E Incorrect dBm values in TS	<i>Comment Status</i> X E16.		
SuggestedRemedy				SuggestedRemedy			
Change the subclaus	e reference in the Subclause col	umn from '149.5.2	2.3' to '149.5.2.3.1'	Change '-1 dBm' to '-1.5 dB	3m', and change '2 dBm' to	'1.5 dBm'	
for TES12, TES13, T Proposed Response				Proposed Response	Response Status O		
Proposed Response	Response Status O						
				C/ 149 SC 11.4.5	P 186	L18	# 150
C/ 149 SC 11.4.4.3		L1	# 147	Donahue, Curtis	UNH-IOL		
Donahue, Curtis	UNH-IOL			Comment Type E	Comment Status X		
Comment Type E	Comment Status X			Туро.			
	ing associated PICS item			SuggestedRemedy			
SuggestedRemedy				Change '2.5G return loss' t	o '2.5GBASE-T1 return los	s'	
Insert new PICS entry Feature: DJpk-pk Jitte Subclause: 149.5.2.3 Value/Comment: Less	3.2	he following conte	nt:	Proposed Response	Response Status O		
Status: M Support: Yes[] N/A[]				C/ 149 SC 11.4.5	P 186	L 20	# 151
Proposed Response	Response Status O			Donahue, Curtis	UNH-IOL		
				<i>Comment Type</i> Е Туро	Comment Status X		
C/ 149 SC 11.4.4.3	3 P 185	L 1	# 148	SuggestedRemedy			
Donahue, Curtis	UNH-IOL			Change '5G return loss' to	5GBASE-T1 return loss'		
	Comment Status X			Proposed Response	Response Status O		
Comment Type E							
51	ing associated PICS item						
51	ing associated PICS item			C/ 149 SC 11.4.5	P 186	L 22	# 153
Shall statement missi SuggestedRemedy Insert new PICS entry	y after TSE15 of Draft 2.0, with t	he following conte	ent:			L 22	# 153
Shall statement missi	y after TSE15 of Draft 2.0, with th	he following conte	ent:	Donahue, Curtis	UNH-IOL	L 22	# 153
Shall statement missi SuggestedRemedy Insert new PICS entry Feature: EOJpk-pk Ji Subclause: 149.5.2.3 Value/Comment: Less	y after TSE15 of Draft 2.0, with t itter 3.2	he following conte	ent:	Donahue, Curtis Comment Type E		L 22	# <u>153</u>
Shall statement missi SuggestedRemedy Insert new PICS entry Feature: EOJpk-pk Ji Subclause: 149.5.2.3 Value/Comment: Less Status: M	y after TSE15 of Draft 2.0, with t itter 3.2	he following conte	ent:	Donahue, Curtis <i>Comment Type</i> E Typo.	UNH-IOL	L 22	# <u>153</u>
Shall statement missi SuggestedRemedy Insert new PICS entry Feature: EOJpk-pk Ji Subclause: 149.5.2.3 Value/Comment: Less Status: M Support: Yes[] N/A[]	y after TSE15 of Draft 2.0, with th itter .2 s than 4/S ps	he following conte	ent:	Donahue, Curtis Comment Type E Typo. SuggestedRemedy	UNH-IOL Comment Status X	L 22	# <u>153</u>
Shall statement missi SuggestedRemedy Insert new PICS entry Feature: EOJpk-pk Ji Subclause: 149.5.2.3 Value/Comment: Less Status: M	y after TSE15 of Draft 2.0, with t itter 3.2	he following conte	ent:	Donahue, Curtis <i>Comment Type</i> E Typo. <i>SuggestedRemedy</i> Change "Equation (149-21)	UNH-IOL Comment Status X	L 22	# <u>153</u>

 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
 11.4.5

 SORT ORDER: Clause, Subclause, page, line
 Response Status: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 11.4.5

C/ 149 SC 11.4.5 Page 17 of 50 6/24/2019 9:51:36 AM

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C/ 149 SC 11.4	.5 <i>P</i> 186	L 22	# 152	C/ 149 S	C 149	P 70	L 1	# 37
Donahue, Curtis	UNH-IOL			Remein, Duane	9	Futurewei Techr	ologies, Inc.	
Comment Type E	Comment Status X			Comment Type	E	Comment Status X		
Typo.				It is custom Template v		le an editing Instruction prior to ne	ew clauses as i	noted in the WG
SuggestedRemedy	n loss' to '10GBASE-T1 return loss	,		SuggestedRem	nedy			
Proposed Response	Response Status O				re Clause 14 clauses and	9 d corresponding annexes as follow	vs:"	
				Proposed Resp	oonse	Response Status 0		
C/ 149 SC 11.4	.5 <i>P</i> 186	L 29	# 155					
Donahue, Curtis	UNH-IOL			C/ 149 S	C 149.1	P 70	L12	# 251
Comment Type E	Comment Status X			den Besten, Ge	errit	NXP Semicondu	ctors	
Shall statement m	issing associated PICS item			Comment Type		Comment Status X		
SuggestedRemedy				The word 't	ype' seems :	strange and unnecessary in this s	entence.	
	ntry after LSC6 of Draft 2.0, with the	e following content:		SuggestedRem	nedv			
Feature: PSAACR Subclause: 149.7.				Remove the	e word 'type'			
	See Equation (149-26)			Proposed Resp	oonse	Response Status 0		
Proposed Response	Response Status 0			C/ 149 S	C 149.1.1	P 70	L 32	# 175
				Baggett, Tim		Microchip		
C/ 149 SC 11.4	.5 <i>P</i> 186	L 29	# 154	Comment Type	E	Comment Status X		
Donahue, Curtis	UNH-IOL			"PHYs" sho	ould be poss	essive as "PHY's"		
Comment Type E	Comment Status X			SuggestedRem	nedy			
Shall statement m	issing associated PICS item			Change "	PHYs data ı	ate" to "PHY's data rate"		
SuggestedRemedy				Proposed Resp	oonse	Response Status 0		
Insert new PICS e Feature: PSANEX Subclause: 149.7.	2.1 See Equation (149-25)	e following content:						
Proposed Response	Response Status O							

C/ 149 SC 149.1.1

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C/ 149 SC 149.1.1	P 70	L 37	# 93	C/ 149 SC 149.1	I.3 P72	L 3	# 243
)'Ambrosia, John	Futurewei, U.S	S. Subsidiary of H	luawei	Zimmerman, George	ADI, APL G	p, Aquantia, BMN	/, Cisco, Commscope
Comment Type ER	Comment Status X			Comment Type T	Comment Status X		
comes into play through that it is useless.	sent scaling parameter is not a hout the document on a search			function in the PHY sentence, and need	I SLAVE are synchronized by the ((see 149.4.2.6)." - this sentence ts to be qualified or linked - else is only true when Auto-Negotiatio	e stands alone fror it is incorrect (149.	n the previous
uggestedRemedy Change "S" to "Scale"				SuggestedRemedy	,		
Proposed Response	Response Status O				he MASTER and SLAVE are"	to "PHYS, and the	MASTER and
				Proposed Response	Response Status 0		
149 SC 149.1.3	P 71	L 27	# 242				
mmerman, George	ADI, APL Gp,	Aquantia, BMW,	Cisco, Commscope,	C/ 149 SC 149.1	I.3 P72	L 14	# 105
omment Type E	Comment Status X			Lo, William	Axonne Inc		
	PCS is referred to as 64B/65B F	RS-FEC PCS. H	ere it is just RS-FEC	Comment Type TR			
PCS. We should be co uggestedRemedy				Contradicting stater	ment whether OAM in-band or or s "out-of-band", page 120 line 12		
Change "RS-FEC PCS	6" to "64B/65B RS-FEC PCS" i	n Figure 149-1.		SuggestedRemedy			
roposed Response	Response Status 0			Change page 72 lin	e 14 from out-of-band to in-band	I.	
				Proposed Response	Response Status 0		
C/ 149 SC 149.1.3	P 71	L 27	# 193				
randt, David	Rockwell Auto	omation		C/ 149 SC 149.1	I.3 P149	L 27	# 92
omment Type E	Comment Status X			D'Ambrosia, John	Futurewei,	U.S. Subsidiary of	Huawei
PCS layer label is incor	nsistent with Figure 44-1 and F	igure 125-1.		Comment Type E	Comment Status X	2	
SuggestedRemedy Change: "RS-FEC PCS To: "64B/65B RS-FEC				in Fig 44-1 (PDF Pa	PCS block in Fig 149-1 is incons age 28, Line 37), which includes ie 14) which also includes the "6	"64B/65B", and P	
roposed Response	Response Status 0			SuggestedRemedy			
				Change the naming	of the PCS block in Fig 1491	to read "64B/65B I	RS-FEC PCS"

C/ 149 SC 149.1.3

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C/ 149 SC 149.1.3.1	P 72	L 30	# 225	C/ 149	SC 149.1.3.1	P 72	L 41	# 104
AcClellan, Brett	Marvell			Lo, William		Axonne Inc.		
	t Status X			Comment 7	ype TR	Comment Status X		
text in this section appears to be a dif	ferent font size than	other text.		"L x 32	S ns" should be	e corrected as "L x 320 / S ns"		
SuggestedRemedy				Suggestedl	Remedy			
adjust font				"L x 32) S ns" should be	e corrected as "L x 320 / S ns"		
Proposed Response Response	Status O			Proposed F	esponse	Response Status O		
C/ 149 SC 149.1.3.1	P 72	L 38	# 184	C/ 149	SC 149.1.3.1	P 72	L 48	# 226
Brandt, David	Rockwell Automa	tion		McClellan,	Brett	Marvell		
Comment Type E Comment	t Status X			Comment 7	ype E	Comment Status X		
Missing dashes.				The PN	A interface is de	fined in 149.2, not 149.4.		
SuggestedRemedy				Suggestedl	Remedy			
Change: "3260 bit block"				change	'149.4' to '149.2'			
To: "3260-bit block", in 2 locations Proposed Response Response	Status O			Proposed F	esponse	Response Status 0		
Response Response	Status U							
		L 41	# 176	C/ 149	SC 149.1.3.3	P 73	L 24	# 227
<u> </u>		L 4 I	# 1/b	McClellan,	Brett	Marvell		
	P 72 Misrophin			wcciellan,		IVIAI VOI		
Baggett, Tim	Microchip			Comment 7		Comment Status X		
Baggett, Tim Comment Type E Comment	Microchip <i>t Status</i> X			Comment 7 This se	ype ER	Comment Status X ch detail for a non-normative su		
Baggett, Tim Comment Type E Comment The scale factor "S" looks like units (S	Microchip <i>t Status</i> X			Comment 7 This se have co	ype ER ction has too mu nflicts with the n	Comment Status X	sounds normat	ive but has no 'shal
Baggett, Tim Comment Type E Comment The scale factor "S" looks like units (S SuggestedRemedy	Microchip <i>t Status</i> X Siemens)	ly operator 'x') as		Comment 7 This se have co stateme	ype ER ction has too mu nflicts with the n	Comment Status X ch detail for a non-normative su ormative sections. The section	sounds normat	ive but has no 'shal
Baggett, Tim Comment Type E Comment The scale factor "S" looks like units (S	Microchip <i>t Status</i> X Siemens) S ns" (add the multip	·ly operator 'x') as		Comment 7 This se have co stateme	ype ER ction has too mu nflicts with the n nts. It should p ve details.	Comment Status X ch detail for a non-normative su ormative sections. The section	sounds normat	ive but has no 'shal
Baggett, Tim Comment Type E Comment The scale factor "S" looks like units (S SuggestedRemedy Change "L x 320 S ns" to "L x 320 x S areas of the draft (including line 54 of	Microchip <i>t Status</i> X Siemens) S ns" (add the multip	ly operator 'x') as		Comment 1 This se have co stateme normati Suggested/ delete t "In the and	ype ER ction has too mun nflicts with the n- ints. It should p we details. Remedy ne two paragraph ransmit direction	Comment Status X ch detail for a non-normative su ormative sections. The section rovide a brief summary and refer as starting with: the transition to the LPI transn	e sounds normat er to section 14§ nit mode begins	ive but has no 'shal 9.3.2.2.21 for "
Baggett, Tim <i>Comment Type</i> E <i>Comment</i> The scale factor "S" looks like units (S <i>SuggestedRemedy</i> Change "L x 320 S ns" to "L x 320 x S areas of the draft (including line 54 of	Microchip <i>t Status</i> X Siemens) S ns" (add the multip f the same page)	ily operator 'x') as		Comment 1 This se have co stateme normati Suggested/ delete t "In the and	ype ER ction has too mun nflicts with the nun nts. It should p we details. Remedy the two paragraph ransmit direction receive direction	Comment Status X ch detail for a non-normative su ormative sections. The section rovide a brief summary and refe	e sounds normat er to section 14§ nit mode begins	ive but has no 'shal 9.3.2.2.21 for "

C/ 149 SC 149.1.3.3

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C/ 149	SC 149.1.3.3	P 73	L 24	# 252	C/ 149	SC 149.1.3.4	P 74	L 8	# 229
len Beste	n, Gerrit	NXP Semico	onductors		McClellan,	Brett	Marvell		
comment	Туре Т	Comment Status X			Comment	Type ER	Comment Status X		
last 64		the LPI transmit mode starts RS-frame. In contrast to he by XGMII.			have c statem	conflicts with the not nents. It should pr	ch detail for a non-normative s ormative sections. The section rovide only a summary and re	on sounds normat	tive but has no 'shall'
Suggested	Remedy				details				
		ce before the referred one:			Suggested				
A requ	lest for LPI mode s	starts with LPI characters or	the XGMII.			e text to:	on function is used when Auto	Negotiation is d	icchied or pot
C/ 149	SC 149.1.3.3	Response Status 0 P73 Marvell	L 34	# 228	as the half-du respon the sla	data source for th uplex fashion. The use from the SLAV ave detects the	e presence of the link partner e PHY control state diagram. MASTER PHY sends a sync /E, the MASTER repeats sen	Link Synchroniza chronization seque iding a synchroniz	ation operates in a ence. If there is no zation sequence. If
"The c	uiet-refresh cycle	Comment Status X continues until the PCS fun	ction detects IDLE	characters on the	the SL timers	AVE response the	en Link Synchronization sequence ne PHY Control state machine	ccessfully comple	
"The o XGMI This s LPI sy This s	quiet-refresh cycle l." tatement is in conf mbol will trigger an ection has too muc	continues until the PCS fun lict with normative text in 14 n exit from LPI. ch detail for a non-normative	9.3.2.2.21 which s	tates that any non-	the SL timers	AVE response the are started, and the ned in 149.4.2.6."	en Link Synchronization is suc	ccessfully comple	ete, link monitor
"The o XGMI This s LPI sy This s have o	quiet-refresh cycle I." tatement is in conf mbol will trigger an ection has too muc conflicts with the no	continues until the PCS fun lict with normative text in 14 n exit from LPI. ch detail for a non-normative	9.3.2.2.21 which s	tates that any non-	the SL timers is defir	AVE response the are started, and the ned in 149.4.2.6."	en Link Synchronization is such ne PHY Control state machine	ccessfully comple	ete, link monitor
"The o XGMI This s LPI sy This s have o uggested	quiet-refresh cycle l." tatement is in conf mbol will trigger an ection has too muc conflicts with the no <i>IRemedy</i>	continues until the PCS fun lict with normative text in 14 n exit from LPI. ch detail for a non-normative prmative sections.	9.3.2.2.21 which s	tates that any non-	the SL timers is defir Proposed i	AVE response the are started, and the ned in 149.4.2.6." Response SC 149.1.3.4	en Link Synchronization is suc ne PHY Control state machine Response Status 0	ccessfully comple e starts Training. <i>L</i> 15	ete, link monitor Link synchronization
"The o XGMI This s LPI sy This s have o Jggested delete	quiet-refresh cycle l." tatement is in conf mbol will trigger an ection has too muc conflicts with the no <i>IRemedy</i> the two paragraph	continues until the PCS fun lict with normative text in 14 n exit from LPI. ch detail for a non-normative prmative sections.	9.3.2.2.21 which s	tates that any non- s and is prone to	the SL timers is defir Proposed I CI 149	AVE response the are started, and the ned in 149.4.2.6." Response SC 149.1.3.4 /alerie	en Link Synchronization is such ne PHY Control state machine Response Status 0 P 74	ccessfully comple e starts Training. <i>L</i> 15	ete, link monitor Link synchronization
"The c XGMI This s LPI sy This s have c <i>uggested</i> delete "In the and	quiet-refresh cycle l." tatement is in conf mbol will trigger an ection has too muc conflicts with the no <i>Remedy</i> the two paragraph e transmit direction	continues until the PCS fun lict with normative text in 14 n exit from LPI. ch detail for a non-normative primative sections. s starting with: the transition to the LPI tran	9.3.2.2.21 which s summary sections	tates that any non- s and is prone to "	the SL timers is defir Proposed I C/ 149 Maguire, V Comment	AVE response the are started, and the ned in 149.4.2.6." Response SC 149.1.3.4 /alerie Type E	en Link Synchronization is such ne PHY Control state machine <i>Response Status</i> O <i>P</i> 74 The Siemon O	ccessfully comple e starts Training. <i>L</i> 15	ete, link monitor Link synchronization
XGMI This s LPI sy This s have c Suggested delete "In the and "In the	quiet-refresh cycle l." tatement is in conf mbol will trigger an ection has too muc conflicts with the no <i>Remedy</i> the two paragraph e transmit direction	continues until the PCS fun lict with normative text in 14 n exit from LPI. ch detail for a non-normative prmative sections. s starting with:	9.3.2.2.21 which s summary sections	tates that any non- s and is prone to "	the SL timers is defir Proposed I C/ 149 Maguire, V Comment	AVE response the are started, and the ned in 149.4.2.6." <i>Response</i> SC 149.1.3.4 /alerie <i>Type</i> E referred terminolog	en Link Synchronization is such he PHY Control state machine Response Status 0 P 74 The Siemon C Comment Status X	ccessfully comple e starts Training. <i>L</i> 15	ete, link monitor Link synchronization

Proposed Response Response Status **0**

C/ 149 SC 149.1.3.4

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C/ 149 SC 149.1.3	.4 P75	L 13	# 51	C/ 149 S	SC 149.1.6	P 76	L 43	# 197
Wienckowski, Natalie	General Motor	rs		Dawe, Piers		Mellanox		
Comment Type E	Comment Status X			Comment Type	e TR	Comment Status X		
fix crooked line				This is not	a test specifi	cation.		
SuggestedRemedy Make the horizontal lir	ne under "tx_mode" straight.					s) take responsibility for the 2%-accurate equipment and		
Proposed Response	Response Status O					nponents in test circuits sha hall" is inappropriate.	Il be accurate to wi	thin \pm 1% unless
C/ 149 SC 149.1.3	.4 P75	L 23	# 230	Remarks a	about % tolera	nce muddy the water: Does	1 V mean 1 V any	more? If asked for
McClellan, Brett	Marvell			e.g. <1 V,	and measure	d with 0.1%-accurate equipr	ment, is 1.008 V ac	ceptable?
Comment Type E Figure 149–2 has sup	Comment Status X perfluous arrow heads pointing to	o a signal line that	t continues along	Anyway, th PCS.	nis topic does	not fit with "conventions in t	his clause", and do	bes not relate to the
the same path as the a	arrow.			SuggestedRen	nedv			
				ouggoolourion	neay			
replace arrows with lin	nes at line 23 and line 29			Delete this electrical s	s sentence fro pecifications,	m here. If any substitute is and use the language of a p		
replace arrows with lin	nes at line 23 and line 29 Response Status O			Delete this	s sentence fro pecifications, nt.			
replace arrows with lin Proposed Response	Response Status O	L 13	# 231	Delete this electrical s requiremen Proposed Res	s sentence fro pecifications, nt. ponse	and use the language of a p	parameter definition	n, not a test
replace arrows with lin Proposed Response Cl 149 SC 149.1.4	Response Status O	L13	# 231	Cl 149	s sentence fro pecifications, nt.	and use the language of a p <i>Response Status</i> O <i>P</i> 77		
replace arrows with lin Proposed Response Cl 149 SC 149.1.4 McClellan, Brett	Response Status 0	L 13	# 2 <u>31</u>	Delete this electrical s requiremen Proposed Res, Cl 149 S Dawe, Piers	sentence fro pecifications, nt. ponse SC 149.2.1	and use the language of a p <i>Response Status</i> O <i>P</i> 77 Mellanox	parameter definition	n, not a test
replace arrows with lin Proposed Response C/ 149 SC 149.1.4 McClellan, Brett Comment Type T	Response Status O P 76 Marvell	-		Cl 149 Dawe, Piers Comment Type	sentence fro pecifications, nt. ponse SC 149.2.1 e TR	and use the language of a p Response Status O P 77 Mellanox Comment Status X	L 9	n, not a test # <u>198</u>
replace arrows with lin Proposed Response Cl 149 SC 149.1.4 McClellan, Brett Comment Type T "Ability to signal the st receiver is not operating reliabl	Response Status O P 76 Marvell Comment Status X	emote PHY to inc		Cl 149 Comment Type According Negotiation	s sentence fro pecifications, nt. ponse SC 149.2.1 e TR to Table 125- n is optional. T	and use the language of a p <i>Response Status</i> O <i>P</i> 77 Mellanox	<i>L</i> 9 e correlation, Claus Interface is used to	# <u>198</u> # 98 Auto-
replace arrows with lin Proposed Response Cl 149 SC 149.1.4 McClellan, Brett Comment Type T "Ability to signal the st receiver is not operating reliabl I don't think the signal	Response Status O P76 Marvell Comment Status X tatus of the local receiver to the r ly and requires retraining."	emote PHY to inc		Cl 149 Comment Type According Negotiation	sentence fro pecifications, nt. ponse SC 149.2.1 e TR to Table 125- n is optional. T otiation - I don	and use the language of a p Response Status O P 77 Mellanox Comment Status X 2, Nomenclature and clause The Technology Dependent	<i>L</i> 9 e correlation, Claus Interface is used to	# <u>198</u> # 98 Auto-
Proposed Response C/ 149 SC 149.1.4 McClellan, Brett Comment Type T "Ability to signal the st receiver is not operating reliabl	Response Status O P76 Marvell Comment Status X tatus of the local receiver to the r ly and requires retraining."	emote PHY to inc		Cl 149 Cl	sentence fro pecifications, nt. ponse SC 149.2.1 e TR to Table 125- n is optional. T triation - I don medy the Technology	and use the language of a p Response Status O P 77 Mellanox Comment Status X 2, Nomenclature and clause The Technology Dependent	<i>L</i> 9 <i>L</i> 9 e correlation, Claus Interface is used to ose.	# <u>198</u> # 98 Auto- o communicate with

C/ 149 SC 149.2.1

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C/ 149 SC 149.2.2	P 76	L 50	# 94	C/ 149	SC 149.2.2	2	P 78	L 32	# 101
D'Ambrosia, John	Futurewei, U.S	. Subsidiary of H	uawei	Lo, William	l		Axonne Inc.		
Comment Type E	Comment Status X			Comment 7	Type TR	Comme	ent Status X		
	s incorrect: s data and control information	across the follow	ing four service		149.2.2.12 ta ned in 4 place		A_ALERTDETEC1	F.indication but it is	s not
interfaces: a) 10 Gigabit Media Inde	pendent Interface (XGMII)			Suggestedl	Remedy				
b) Technology Dependerc) PMA service interfaced) Medium dependent int	t Interface			PMA_A 2) Page Draw le		CT.indication(a	alert_detect)	.indication	
SuggestedRemedy				3) Page	e 75 figure 149	9-2. Strom DMA P	ECEIVE to PCS R		abolad
Reword MultiGBASE-T1 transfers interfaces:	s data and control information	across the follow	ing three service	alert_de 4) Page	etect. (l'm not e 86 line 12	sure about th	EIVE labeled alert	r feedback from th	
 a) 10 Gigabit Media Inde b) Technology Depender c) PMA service interface 				Proposed F	Response	Respons	se Status O		
Proposed Response	Response Status 0			C/ 149	SC 149.2.2	2.12.3	P 85	L 17	# 24
				Anslow, Pe	te		Ciena		
C/ 149 SC 149.2.2	P 78	L 23	# 232	Comment 7		Comme	ent Status X		
/cClellan, Brett	Marvell			"149.3.	2.3" and "Figu	ıre 149-17" sh	ould be cross-refe	erences.	
Comment Type TR	Comment Status X			Suggestedl	Remedv				
,,	in Figure 149–2 as a service	interface (appare	ntlv for EEE alert	00	,	I "Figure 149-	17" cross-referenc	ces.	
detection), but does not a	appear in 149.2.2. ndication(alert_detect) is a de			Proposed F	Response	Respons	se Status O		
uggestedRemedy				C/ 149	SC 149.3.2	2.2	P 87	L14	# 209
delete "send_s_sigdet" fr		o the DMA receive	or in Figure 140, 2	McClellan,	Brett		Marvell		
and Figure 149–3	otted line service interface fror			Comment 7		Comme	ent Status X		
add "PMA_ALERTDETE	CT.indication(alert_detect)" to		2.	"RS_FI	EC" is inconsi	stent with othe	er text using "RS-F	EC"	
change " to "alort dates	101 III	ie 40.		Suggestedl	Remedy				
change " to "alert_detec	Deenenee Statue				-				
change " to "alert_detec Proposed Response	Response Status 0			change	e "RS_FEC" to	"RS-FEC"			

C/ 149 SC 149.3.2.2 Page 23 of 50 6/24/2019 9:51:37 AM

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7 149 SC 149.3.2.2		L 38	# 178		149.3.2.2.2	P 88	L 40	# 210
aggett, Tim	Microchip			McClellan, Brett		Marvell		
omment Type E Mispelling "fame" uggestedRemedy	Comment Status X			the incoming	he code enables t PHY bit stream."	mment Status X he receiver to achieve ent is found during trai		ion alignment on
Change "FEC fame" to	" FEC frame"			SuggestedReme	dy			
roposed Response	Response Status O			delete this se				
				Proposed Respo	nse Res	ponse Status O		
/ 149 SC 149.3.2.2		L 39	# 177					
aggett, Tim	Microchip			C/ 149 SC	149.3.2.2.2	P 90	L 38	# 211
omment Type E	Comment Status X		de d'arte le blande af	McClellan, Brett		Marvell		
1800 PAM4 symbols.	I to indicate that the block of 36	buu bits are enco	ded into a diock of	Comment Type	TR Col	mment Status X		
iggestedRemedy				Figure 149–7	does not show he	ow the receive path wo	orks with de-interle	aving.
Change:				SuggestedReme	dy			
	ame are then encoded into PAI	M4 symbols and t	ransferred to the	Either chang only applies t		nclude de-interleaving o	or add a note indic	ating that this figure
to: "The 3600 bits in this fr sequentially to the PMA	ame are then encoded into 180	0 PAM4 symbols	and transferred	Proposed Respo	nse Res	ponse Status O		
roposed Response	Response Status 0			C/ 149 SC	149.3.2.2.3	P 89	L 8	# 52
				Wienckowski, Na	talie	General Moto	ors	
149 SC 149.3.2.2	P 87	L 48	# 81	Comment Type	E Co	mment Status X		
avick, Jeff	Broadcom			Missing Oxfo	rd comma.			
mment Type TR	Comment Status X			SuggestedReme	dy			
if one side requests 2-w	rleave frames is decided upon i vay, other 4-way which do you o on how to resolve that but I don' be).	to? The shall in	this line implies	hexadecimal	values. s of block type field	e fields, data octets ar ds, data octets, and co		
uggestedRemedy				Proposed Respo	nse Res	ponse Status O		
Change the text from "w Add a sub-clase in the a	vhich shall be determined" to "v appropriate place which defines for 5G and 10G operations. to new sub-clause							
roposed Response	Response Status 0							

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

C/ 149 SC 149.3.2.2.3 Page 24 of 50 6/24/2019 9:51:37 AM

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C/ 149 SC 149.3.2.2.4 P89	L 24	# 185	Cl 149 SC 149.3.2.2.14 P94 L 23 # 213
Brandt, David Rockwell Automa	ition		McClellan, Brett Marvell
Comment Type E Comment Status X			Comment Type E Comment Status X
Figure 149-6 lacks arrow ends on TXD<32> and TXD<63	3>.		"For both x and c the encoder shall follow the notation described in 149.3.2.2.2 where the
SuggestedRemedy			LSB (leftmost element of the vectors x and c) is the first bit into the RS-FEC encoder and the first transmitted bit."
Add arrow ends on TXD<32> and TXD<63>.			x and c are not yet defined and need a reference. Notation is defined in 149.3.2.2.3, not
Proposed Response Response Status O			149.3.2.2.2.
			SuggestedRemedy
	L 44	# 136	change "149.3.2.2.2" to "149.3.2.2.3" change "For both x and c" to "For both x and c (in 149.3.2.2.15)"
Wu, Peter Marvell			Proposed Response Response Status O
Comment Type E Comment Status X			
Some arrows in the diagram are too long			C/ 149 SC 149.3.2.2.15 P94 L 41 # 214
SuggestedRemedy			McClellan, Brett Marvell
Need to be aligned			Comment Type E Comment Status X
Proposed Response Response Status O			page 94 line 41 alpha does not appear in equation 149-3.
C/ 149 SC 149.3.2.2.4 P90	L 43	# 91	SuggestedRemedy
Trowbridge, Steve Nokia			change "In Equation (149–3)," to "In Equation (149–1),"
Comment Type E Comment Status X			Proposed Response Response Status O
Many elements of Figure 149-7 don't quite line up			
SuggestedRemedy			C/ 149 SC 149.3.2.2.15 P94 L 41 # 179
Use the recommended Pete Anslow tricks of exact pixel p	osition and size t	o get everything	Baggett, Tim Microchip
to align			Comment Type E Comment Status X
Proposed Response Response Status O			Reference to equation 149-3 is incorrect. The referenced equation does not have an alpha term.
C/ 149 SC 149.3.2.2.13 P94	L 13	# 212	SuggestedRemedy reference "Equation (149-1)"
McClellan, Brett Marvell			
Comment Type E Comment Status X			Proposed Response Response Status O
change "transcoder/scrambler" to "transcoder and scram	bler"		
SuggestedRemedy			
change "transcoder/scrambler" to "transcoder and scram	bler"		
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

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C/ 149 SC 149.3.2.2.15	P 94	L 41	# 53	C/ 149	SC 149.3.2.2	.15	P 95	L 6	# 125
Vienckowski, Natalie	General Motors	3		Nicholl, Shaw	n		Xilinx		
Comment Type T Comm	ent Status X			Comment Typ	pe E	Comment S	Status X		
Incorrect reference									but makes no other
SuggestedRemedy						d in the sub-claing about tx_scr		cross-reference i	is wrong since
Change: In Equation (149-3)				SuggestedRe					
To: In Equation (149-1)				00		'tx scrambled<	:3599:0> is defi	ned in 149.3.2.2.	.14."
Proposed Response Respon	se Status O			Proposed Re		_ Response S			
					-1	1.00000			
C/ 149 SC 149.3.2.2.15	P 94	L 51	# 137	C/ 149	00 440 0 0 0	45	DOC	1.4	# 70
Wu, Peter	Marvell				SC 149.3.2.2	.15	P 96	L1	# 78
Comment Type T Comm	ent Status X			Slavick, Jeff			Broadcom		
The equation is wrong				Comment Typ	pe E	Comment S	Status X		
				<u> </u>					
mi,j = tx_RSmessage <(359 - i) 10) + j >, i = 0 to 325, j =	= 0 to 9. index of	ut of range	Table 149	9-3 spans over	two pages. It'c	d be useful to h	ave all information	n on a single page.
·; _ · · · ,) + j>, i = 0 to 325, j =	0 to 9. index o	ut of range			two pages. It'c	d be useful to h	ave all informatio	n on a single page.
·; = • • · · ,) + j>, i = 0 to 325, j =	0 to 9. index o	ut of range	SuggestedRe	emedy				
SuggestedRemedy			ut of range	SuggestedRe Make Tab	emedy ble 149-3 have	4 columns so t	the table can fit	on a single page	
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10			ut of range	SuggestedRe	emedy ble 149-3 have		the table can fit		
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10) + j>, i = 0 to 325, j =		ut of range	SuggestedRe Make Tab	emedy ble 149-3 have	4 columns so t	the table can fit		
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10 Proposed Response Respon) + j>, i = 0 to 325, j = nse Status 0	= 0 to 9.		SuggestedRe Make Tab	emedy ble 149-3 have	4 columns so ti Response S	the table can fit		
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10	0 + j>, i = 0 to 325, j = ose Status 0 P 94		ut of range # 180 r	SuggestedRe Make Tat Proposed Re	emedy ble 149-3 have sponse SC 149.3.2.2	4 columns so ti Response S	the table can fit Status O	on a single page	
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10 Proposed Response Respon C/ 149 SC 149.3.2.2.15 Baggett, Tim	0 + j>, i = 0 to 325, j = ose Status O <i>P</i> 94 Microchip	= 0 to 9.		SuggestedRe Make Tat Proposed Re Cl 149	emedy ble 149-3 have sponse SC 149.3.2.2 m	4 columns so ti Response S	the table can fit Status O P 95 Xilinx	on a single page	
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10 Proposed Response Respon Cl 149 SC 149.3.2.2.15 Baggett, Tim Comment Type E Comm	0 + j>, i = 0 to 325, j = ase Status O P94 Microchip ent Status X	= 0 to 9.		SuggestedRe Make Tat Proposed Re Cl 149 Nicholl, Shaw Comment Typ Sub-claus	emedy ble 149-3 have sponse SC 149.3.2.2 m pe E ses 149.3.2.2.	4 columns so ti Response S .16 Comment S 13 through 149.	the table can fit Status O P 95 Xilinx Status X .3.2.2.20 appea	on a single page	# [<u>126</u>
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10 Proposed Response Respon C/ 149 SC 149.3.2.2.15 Baggett, Tim	0 + j>, i = 0 to 325, j = ase Status O P94 Microchip ent Status X	= 0 to 9.		SuggestedRe Make Tat Proposed Re C/ 149 Nicholl, Shaw Comment Typ Sub-claus functions	ernedy ble 149-3 have sponse SC 149.3.2.2 vn oe E ses 149.3.2.2. in order. How	4 columns so ti Response S .16 Comment S 13 through 149. rever, 149.3.2.2	the table can fit Status O P 95 Xilinx Status X .3.2.2.20 appea 2.16 is in the wro	on a single page <i>L</i> 45 ar to be walking th ong place. The s	# [<u>126</u>
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10	0 + j>, i = 0 to 325, j = ase Status O P94 Microchip ent Status X	= 0 to 9.		SuggestedRe Make Tat Proposed Re C/ 149 Nicholl, Shaw Comment Typ Sub-claus functions	ernedy ble 149-3 have sponse SC 149.3.2.2 vn oe E ses 149.3.2.2. in order. How	4 columns so ti Response S .16 Comment S 13 through 149.	the table can fit Status O P 95 Xilinx Status X .3.2.2.20 appea 2.16 is in the wro	on a single page <i>L</i> 45 ar to be walking th ong place. The s	# [<u>126</u>
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10	0 + j>, i = 0 to 325, j = ase Status O P94 Microchip ent Status X	= 0 to 9.		SuggestedRe Make Tat Proposed Re C/ 149 Nicholl, Shaw Comment Typ Sub-claus functions	emedy ble 149-3 have sponse SC 149.3.2.2 vn pe E ses 149.3.2.2. in order. How leaving (if prese	4 columns so ti Response S .16 Comment S 13 through 149. rever, 149.3.2.2	the table can fit Status O P 95 Xilinx Status X .3.2.2.20 appea 2.16 is in the wro	on a single page <i>L</i> 45 ar to be walking th ong place. The s	# [<u>126</u>
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10 Proposed Response Respon C/ 149 SC 149.3.2.2.15 Baggett, Tim Comment Type E Comme Equation m sub(i,j) could be written SuggestedRemedy Change: "tx_RSmessage <(359-i) 10 +j>,i =	0 + j>, i = 0 to 325, j = ase Status O P 94 Microchip ent Status X n a bit more clear.	= 0 to 9.		SuggestedRe Make Tat Proposed Re C/ 149 Nicholl, Shaw Comment Typ Sub-claus functions and interl SuggestedRe Move sub	emedy ble 149-3 have sponse SC 149.3.2.2 vn be E ses 149.3.2.2. in order. How leaving (if prese emedy b-clause "149.3	4 columns so the Response S .16 Comment S 13 through 149. rever, 149.3.2.2 ent) occurs befor 3.2.2.16 RS-FE	the table can fit Status O P 95 Xilinx Status X .3.2.2.20 appea .16 is in the wr ore the RS enco	on a single page <i>L</i> 45 ar to be walking th ong place. The s oder.	# [<u>126</u>
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10 Proposed Response Respon Cl 149 SC 149.3.2.2.15 Baggett, Tim Comment Type E Comme Equation m sub(i,j) could be written SuggestedRemedy Change: "tx_RSmessage <(359-i) 10 +j>,i = To:	0 + j>, i = 0 to 325, j = ase Status O P 94 Microchip tent Status X n a bit more clear. = 0 to 325, j = 0 to 9."	- 0 to 9. L 52		SuggestedRe Make Tat Proposed Re C/ 149 Nicholl, Shaw Comment Typ Sub-claus functions and interl SuggestedRe Move sub	emedy ble 149-3 have sponse SC 149.3.2.2 vn be E ses 149.3.2.2. in order. How leaving (if prese emedy b-clause "149.3	4 columns so ti Response S .16 Comment S 13 through 149. vever, 149.3.2.2 ent) occurs before	the table can fit Status O P 95 Xilinx Status X .3.2.2.20 appea .16 is in the wr ore the RS enco	on a single page <i>L</i> 45 ar to be walking th ong place. The s oder.	# 1 <u>26</u>
SuggestedRemedy It should be changed to: mi,j = tx_RSmessage <(325 - i) 10 Proposed Response Respon Cl 149 SC 149.3.2.2.15 Baggett, Tim Comment Type E Comme Equation m sub(i,j) could be written SuggestedRemedy Change: "tx_RSmessage <(359-i) 10 +j>,i =	0 + j>, i = 0 to 325, j = ase Status O P94 Microchip ent Status X n a bit more clear. = 0 to 325, j = 0 to 9." for i = 0 to 325, and j	- 0 to 9. L 52		SuggestedRe Make Tat Proposed Re C/ 149 Nicholl, Shaw Comment Typ Sub-claus functions and interl SuggestedRe Move sub	SC 149-3 have sponse SC 149.3.2.2 m be E ses 149.3.2.2. in order. How leaving (if press emedy o-clause "149.3.2.2.1	4 columns so the Response S .16 Comment S 13 through 149. rever, 149.3.2.2 ent) occurs befor 3.2.2.16 RS-FE	the table can fit Status O P 95 Xilinx Status X .3.2.2.20 appea 2.16 is in the wr ore the RS enco C superframe a on encoder"	on a single page <i>L</i> 45 ar to be walking th ong place. The s oder.	# 1 <u>26</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 149.3.2.2.16 Page 26 of 50 6/24/2019 9:51:37 AM

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C/ 149 SC 149.3.2	2.2.16 <i>P</i> 97	L 20	# 215	C/ 149 SC	149.3.2.2.16	P 97	L 49	# 79
McClellan, Brett	Marvell			Slavick, Jeff		Broadcom		
Comment Type ER	Comment Status X			Comment Type	TR Con	nment Status X		
confusing to the read	ble for frame message and supe er.	erframe message bi	its may be		10 the message s of m326 for both i	ymbols in and out for n and out.	RS Encoder #L b	begins and ends with
same issue for p				SuggestedRemed	ly			
	er variable for superframe mes	sage bits and also f	or superframe	Change the m m326 and m3		both the input and ou	Itput side of RS E	NCODER #L to be
parity bits. Proposed Response	Response Status O			Proposed Respon	ise Resp	onse Status O		
~	D. 4.0 D.07	/ 04		C/ 149 SC	149.3.2.2.17	P 98	L 3	# 128
C/ 149 SC 149.3.2		L 21	# 80	Nicholl, Shawn		Xilinx		
Slavick, Jeff	Broadcom			Comment Type	E Con	nment Status X		
Comment Type T	Comment Status X			The sub-claus	e talks about the	payload of the PCS PI	HY frame without	having yet defined a
The phrase "Compare					no or what conctit	utoo ito povlood. Tho i	aub alouco aloo n	aantiona
The phrase Compare	ed to the non-interleaving case,"	" is not very straight	tforward.			utes its payload. The s		
SuggestedRemedy					599:0> but it is no	t found anywhere else		
SuggestedRemedy Change "Compared to of every L message s as specified in 149.3. every L message sym	ed to the non-interleaving case, o the non-interleaving case, eac ymbols. Otherwise the RS FEC .2.2.15." to "When L > 1 each R abols from the superframe, othe specified in 149.3.2.2.15."	ch RS-FEC encode encoder operates RS-FEC encoder re	r receives one out exactly the same ceives one out of	tx_encoded<3 SuggestedRemed Propose to ad clause 149.3.2 text "The Lem	599:0> but it is no y d tx_encoded<359 2.2.16. Propose to coded RS-FEC fra		e in the document RS-FEC(360,326 ncoded<3599:0> into an interleave	:. 6) encoder in sub- somewhere after th d RS-FEC
SuggestedRemedy Change "Compared to of every L message s as specified in 149.3. every L message sym exactly the same as s	o the non-interleaving case, eac ymbols. Otherwise the RS FEC 2.2.15." to "When L > 1 each R nbols from the superframe, othe	ch RS-FEC encode encoder operates RS-FEC encoder re	r receives one out exactly the same ceives one out of	tx_encoded<3 SuggestedRemed Propose to ad clause 149.3.2 text "The Lem	599:0> but it is no y d tx_encoded<359 2.2.16. Propose tr coded RS-FEC fr However, it's reall	99:0> to the output of b define the term tx_er ames are recombined	e in the document RS-FEC(360,326 ncoded<3599:0> into an interleave	:. 6) encoder in sub- somewhere after the d RS-FEC
SuggestedRemedy Change "Compared to of every L message s as specified in 149.3. every L message sym exactly the same as s Proposed Response	o the non-interleaving case, ead ymbols. Otherwise the RS FEC 2.2.15." to "When L > 1 each R bols from the superframe, othe specified in 149.3.2.2.15." <i>Response Status</i> O	ch RS-FEC encode encoder operates RS-FEC encoder re	r receives one out exactly the same ceives one out of encoder operates	tx_encoded<3 SuggestedRemed Propose to ad clause 149.3.2 text "The L en superframe". Proposed Respon	599:0> but it is no y d tx_encoded<359 2.2.16. Propose tr coded RS-FEC fr However, it's reall	99:0> to the output of o define the term tx_er ames are recombined y "L x tx_encoded<35	e in the document RS-FEC(360,326 ncoded<3599:0> into an interleave	:. 6) encoder in sub- somewhere after the d RS-FEC
SuggestedRemedy Change "Compared to of every L message s as specified in 149.3. every L message sym exactly the same as s Proposed Response	o the non-interleaving case, ead ymbols. Otherwise the RS FEC 2.2.15." to "When L > 1 each R bols from the superframe, othe specified in 149.3.2.2.15." <i>Response Status</i> O	th RS-FEC encode c encoder operates RS-FEC encoder re- rwise the RS FEC	r receives one out exactly the same ceives one out of	tx_encoded<3 SuggestedRemed Propose to ad clause 149.3.2 text "The L en superframe". Proposed Respon	599:0> but it is no y d tx_encoded<359 2.2.16. Propose to coded RS-FEC fr However, it's reall se Resp	99:0> to the output of b define the term tx_er ames are recombined y "L x tx_encoded<35 onse Status O	e in the document RS-FEC(360,326 ncoded<3599:0> into an interleave 99:0>" at that poi	:. i) encoder in sub- somewhere after the d RS-FEC nt!
SuggestedRemedy Change "Compared to of every L message s as specified in 149.3. every L message sym exactly the same as s Proposed Response	o the non-interleaving case, ead ymbols. Otherwise the RS FEC 2.2.15." to "When L > 1 each R bols from the superframe, othe specified in 149.3.2.2.15." <i>Response Status</i> 0 2.2.16 <i>P</i> 97	th RS-FEC encode c encoder operates RS-FEC encoder re- rwise the RS FEC	r receives one out exactly the same ceives one out of encoder operates	tx_encoded<3 SuggestedRemed Propose to ad clause 149.3.2 text "The L en superframe". Proposed Respon	599:0> but it is no y d tx_encoded<359 2.2.16. Propose to coded RS-FEC fr. However, it's reall ise Resp 149.3.2.2.21	bt found anywhere else 29:0> to the output of 1 to define the term tx_er ames are recombined y "L x tx_encoded<35 tonse Status O P 99	e in the document RS-FEC(360,326 ncoded<3599:0> into an interleave 99:0>" at that poi	:. i) encoder in sub- somewhere after the d RS-FEC nt!
SuggestedRemedy Change "Compared to of every L message s as specified in 149.3. every L message sym exactly the same as s Proposed Response C/ 149 SC 149.3.2 Nicholl, Shawn Comment Type E The sentence "The L superframe" and onw text should be in its or	o the non-interleaving case, eac ymbols. Otherwise the RS FEC 2.2.15." to "When L > 1 each R bols from the superframe, othe specified in 149.3.2.2.15." <i>Response Status</i> 0 2.2.16 <i>P</i> 97 Xilinx	ch RS-FEC encoder c encoder operates RS-FEC encoder re- rwise the RS FEC <i>L</i> 25 ecombined into an i ppen after RS enco	r receives one out exactly the same ceives one out of encoder operates # 127	tx_encoded<3 SuggestedRemed Propose to ad clause 149.3.2 text "The L en superframe". Proposed Respon CI 149 SC McClellan, Brett Comment Type "The PHY also This error con the XGMII."	599:0> but it is no y d tx_encoded<359 2.2.16. Propose to coded RS-FEC fr: However, it's reall ise Resp 149.3.2.2.21 T Con p transitions back dition is defined a	bt found anywhere else 29:0> to the output of 1 to define the term tx_er ames are recombined y "L x tx_encoded<350 toonse Status O P99 Marvell	e in the document RS-FEC(360,326 ncoded<3599:0> into an interleave 99:0>" at that poin <i>L</i> 30 on mode if an error characters other	:. s) encoder in sub- somewhere after th d RS-FEC nt! # 217 r condition occurs. than LPI or IDLE at
SuggestedRemedy Change "Compared to of every L message s as specified in 149.3. every L message sym exactly the same as s Proposed Response Cl 149 SC 149.3.2 Nicholl, Shawn Comment Type E The sentence "The L superframe" and onw text should be in its or SuggestedRemedy	o the non-interleaving case, eac ymbols. Otherwise the RS FEC 2.2.15." to "When L > 1 each R bols from the superframe, othe specified in 149.3.2.2.15." <i>Response Status</i> O 2.2.16 <i>P</i> 97 Xilinx <i>Comment Status</i> X encoded RS-FEC frames are r vard talk about functions that ha wn section located after RS enco	ch RS-FEC encode cencoder operates RS-FEC encoder re- rwise the RS FEC <i>L</i> 25 ecombined into an i ppen after RS enco- coder.	r receives one out exactly the same ceives one out of encoder operates # 127 # 127 interleaved RS-FEC oder. I think this	tx_encoded<3 SuggestedRemed Propose to ad clause 149.3.2 text "The L en superframe". Proposed Respon CI 149 SC McClellan, Brett Comment Type "The PHY also This error con the XGMII."	599:0> but it is no y d tx_encoded<359 2.2.16. Propose to coded RS-FEC from However, it's reall ise Resp 149.3.2.2.21 T Con transitions back dition is defined a is redundant if wa	bit found anywhere else 29:0> to the output of 1 to define the term tx_er ames are recombined y "L x tx_encoded<35: to onse Status O P99 Marvell ament Status X to the normal operation s the detection of any	e in the document RS-FEC(360,326 ncoded<3599:0> into an interleave 99:0>" at that poin <i>L</i> 30 on mode if an error characters other	:. s) encoder in sub- somewhere after th d RS-FEC nt! # 217 r condition occurs. than LPI or IDLE at
SuggestedRemedy Change "Compared to of every L message s as specified in 149.3. every L message sym exactly the same as s Proposed Response CI 149 SC 149.3.2 Nicholl, Shawn Comment Type E The sentence "The L superframe" and onw text should be in its or SuggestedRemedy Propose to add a new Scrambler". In the new	o the non-interleaving case, eac ymbols. Otherwise the RS FEC 2.2.15." to "When L > 1 each R bols from the superframe, othe specified in 149.3.2.2.15." <i>Response Status</i> O 2.2.16 <i>P</i> 97 Xilinx <i>Comment Status</i> X encoded RS-FEC frames are r vard talk about functions that ha	ch RS-FEC encode cencoder operates RS-FEC encoder re- rwise the RS FEC <i>L</i> 25 ecombined into an ppen after RS enco- coder. ine" before "149.3.: L encoded RS-FEC	r receives one out exactly the same ceives one out of encoder operates # 127 interleaved RS-FEC oder. I think this 2.2.17 PCS	tx_encoded<3 SuggestedRemed Propose to ad clause 149.3.2 text "The L em superframe". Proposed Respon C/ 149 SC McClellan, Brett Comment Type "The PHY also This error con the XGMII." this statement SuggestedRemed delete "The PH	599:0> but it is no y d tx_encoded<359 2.2.16. Propose to coded RS-FEC from However, it's reall ise Resp 149.3.2.2.21 T Con transitions back dition is defined a is redundant if way y HY also transitions error condition is d	bit found anywhere else 29:0> to the output of 1 to define the term tx_er ames are recombined y "L x tx_encoded<35: to onse Status O P99 Marvell ament Status X to the normal operation s the detection of any	e in the document RS-FEC(360,326 ncoded<3599:0> into an interleave 99:0>" at that poin <i>L</i> 30 on mode if an error characters other her than LP_IDLE peration mode if a	:. s) encoder in sub- somewhere after th d RS-FEC nt! # 2 <u>17</u> r condition occurs. than LPI or IDLE at , an error condition

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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C/ 149 SC 149.3.2.2.21 P99 L 33 # 218	C/ 149 SC 149.3.2.2.21 P99 L 49 # 216
McClellan, Brett Marvell	McClellan, Brett Marvell
Comment Type E Comment Status X	Comment Type TR Comment Status X
"After the alert signal," is unclear	"When the last 64B/65B block of LPI characters is generated by the PCS transmit function
SuggestedRemedy	This statement is unclear and likely incorrect about when the sleep signal is triggered.
change "After the alert signal," to "After transmitting the alert signal,"	SuggestedRemedy
Proposed Response Response Status O	change this paragraph to: "In the transmit direction the transition to the LPI transmit mode begins when the PCS transmit function detects an LPI control character in the last 64B/65B block of a Reed- Solomon frame. Following this event the PMA transmits the sleep signal starting at the
C/ 149 SC 149.3.2.2.21 P 99 L 36 # 219	beginning of the next superframe to indicate to the link partner that it is transitioning to the
McClellan, Brett Marvell	LPI transmit mode. The sleep signal is composed of eight Reed-Solomon frames that contain only LP_IDLE 64B/65B blocks. Once initiated, the complete sleep signal consisting
Comment Type E Comment Status X	of 8 RS-FEC frames of LP_IDLE shall be transmitted."
"Lpi_wake_time" is a variable and should not be capitalized	Proposed Response Response Status O
SuggestedRemedy	
change "Lpi_wake_time" to "lpi_wake_time"	CI 149 SC 149.3.2.2.21 P99 L49 # 253
Proposed Response Response Status O	den Besten, Gerrit NXP Semiconductors
	Comment Type T Comment Status X
	"When the last 64B/65B block of LPI characters is generated by the PCS transmit function the PHY" seems inconsistent with 149.1.3.3
McClellan, Brett Marvell	
McClellan, Brett Marvell Comment Type TR Comment Status X "Ipi_wake_timer" is not a defined variable. Is this supposed to be Ipi_tx_wake_timer?	the PHY" seems inconsistent with 149.1.3.3
McClellan, Brett Marvell Comment Type TR Comment Status X "Ipi_wake_timer" is not a defined variable. Is this supposed to be lpi_tx_wake_timer? SuggestedRemedy	the PHY" seems inconsistent with 149.1.3.3 SuggestedRemedy Replace by: When the PCS transmit function detects an LPI character in the last 64B/65B block of an RS frame, the PHY
McClellan, Brett Marvell Comment Type TR Comment Status X "Ipi_wake_timer" is not a defined variable. Is this supposed to be Ipi_tx_wake_timer? SuggestedRemedy change Ipi_wake_timer to Ipi_tx_wake_timer	the PHY" seems inconsistent with 149.1.3.3 SuggestedRemedy Replace by: When the PCS transmit function detects an LPI character in the last 64B/65B block of an RS frame, the PHY
McClellan, Brett Marvell <i>Comment Type</i> TR <i>Comment Status</i> X "lpi_wake_timer" is not a defined variable. Is this supposed to be lpi_tx_wake_timer? <i>SuggestedRemedy</i> change lpi_wake_timer to lpi_tx_wake_timer	the PHY" seems inconsistent with 149.1.3.3 SuggestedRemedy Replace by: When the PCS transmit function detects an LPI character in the last 64B/65B block of an RS frame, the PHY
McClellan, Brett Marvell Comment Type TR Comment Status X "Ipi_wake_timer" is not a defined variable. Is this supposed to be Ipi_tx_wake_timer? SuggestedRemedy change Ipi_wake_timer to Ipi_tx_wake_timer	the PHY" seems inconsistent with 149.1.3.3 SuggestedRemedy Replace by: When the PCS transmit function detects an LPI character in the last 64B/65B block of an RS frame, the PHY Proposed Response Response Status 0
McClellan, Brett Marvell Comment Type TR Comment Status X "Ipi_wake_timer" is not a defined variable. Is this supposed to be Ipi_tx_wake_timer? SuggestedRemedy change Ipi_wake_timer to Ipi_tx_wake_timer	the PHY" seems inconsistent with 149.1.3.3 SuggestedRemedy Replace by: When the PCS transmit function detects an LPI character in the last 64B/65B block of an RS frame, the PHY Proposed Response Response Status O C/ 149 SC 149.3.2.3 P101 L 18 # 221
AcClellan, Brett Marvell Comment Type TR Comment Status X "Ipi_wake_timer" is not a defined variable. Is this supposed to be Ipi_tx_wake_timer? SuggestedRemedy change Ipi_wake_timer to Ipi_tx_wake_timer	the PHY" seems inconsistent with 149.1.3.3 SuggestedRemedy Replace by: When the PCS transmit function detects an LPI character in the last 64B/65B block of an RS frame, the PHY Proposed Response Response Status O C/ 149 SC 149.3.2.3 P101 L 18 # 221 McClellan, Brett Marvell
McClellan, Brett Marvell Comment Type TR Comment Status X "Ipi_wake_timer" is not a defined variable. Is this supposed to be Ipi_tx_wake_timer? SuggestedRemedy change Ipi_wake_timer to Ipi_tx_wake_timer	the PHY" seems inconsistent with 149.1.3.3 SuggestedRemedy Replace by: When the PCS transmit function detects an LPI character in the last 64B/65B block of an RS frame, the PHY Proposed Response Response Status O C/ 149 SC 149.3.2.3 P101 L 18 # 221 McClellan, Brett Marvell Comment Type T Comment Status X
McClellan, Brett Marvell <i>Comment Type</i> TR <i>Comment Status</i> X "lpi_wake_timer" is not a defined variable. Is this supposed to be lpi_tx_wake_timer? <i>SuggestedRemedy</i> change lpi_wake_timer to lpi_tx_wake_timer	the PHY" seems inconsistent with 149.1.3.3 SuggestedRemedy Replace by: When the PCS transmit function detects an LPI character in the last 64B/65B block of an RS frame, the PHY Proposed Response Response Status O C/ 149 SC 149.3.2.3 P101 L 18 # 221 McClellan, Brett Marvell Comment Type T Comment Status X block_lock flag de-assertion is described for data mode, but re-assertion is not described.

C/ 149 SC 149.3.2.3

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C/ 149 SC 149	9.3.2.3 P101	l L 27	# 222	C/ 149 SC 149.3	8.2.3.3 <i>P</i> 102	L 12	# 129
McClellan, Brett	Marvell			Nicholl, Shawn	Xilinx		
Comment Type E	Comment Status	K		Comment Type E	Comment Status X		
	g frame includes 1 bit pattern e tial PHY frame boundary" is un		ls, which is aligned	 de-construction of 	2.3 PCS Receive function is miss the unscrambled Rx stream into		
SuggestedRemedy				 RS-FEC decoder round robin de-interest 	erleaving		
	MA training frame includes an vith the PCS partial PHY frame) PAM2 symbols,	SuggestedRemedy	Ŭ		
Proposed Response	Response Status C	2		in the Tx direction, - Rx De-constructio	-clauses before "149.3.2.3.3 Invi but in the opposite order. m (akin to Tx Recombine) der (akin to Tx FEC encoder)	alid blocks" that are	e akin to sub-clauses
C/ 149 SC 149	9.3.2.3 P101	l L 3 1	# 223		(akin to Tx Superframe and rou	nd robin interleavin	ng)
McClellan, Brett	Marvell			Proposed Response	Response Status 0		
Comment Type T	R Comment Status	K					
successfully com	EE capability support transitior pleted training and pcs_data_r LPI will not be asserted until c	mode is TRUE."		C/ 149 SC 149.3 McClellan, Brett	3.5 P103 Marvell	L 31	# 233
SuggestedRemedy				Comment Type E	Comment Status X		
	HYs with the EEE capability su sfully completed training and po the of 46.1.7."			typo SuggestedRemedy			
Proposed Response	Response Status C	o		change "raining" to	"training"		
		-		Proposed Response	Response Status 0		
	9.3.2.3 P 118	3 L 23	# 173				
C/ 149 SC 149				C/ 149 SC 149.3	8.5 P103	L 31	# 254
	Keysigh	nt Technologies		C/ 149 SC 149.3	.5 / 105	201	
Regev, Alon	, ,	-		den Besten, Gerrit	NXP Semic		
Regev, Alon Comment Type T	, ,	x	viously defined.				
Regev, Alon Comment Type T In figure 149-19, t	R Comment Status	x	wiously defined.	den Besten, Gerrit	NXP Semic		
Regev, Alon Comment Type T In figure 149-19, t SuggestedRemedy In section 149.3.7 "lpi_rxw_err_cnt	R Comment Status X the counter lpi_rxw_err_cnt is 7.2.5 (Counters) add the follow	X used which was not pre ving definition for Ipi_rxw	v_err_cnt:	den Besten, Gerrit Comment Type E	NXP Semic Comment Status X		
Regev, Alon Comment Type T In figure 149-19, t SuggestedRemedy In section 149.3.7 "lpi_rxw_err_cnt An integer value tl	R Comment Status X the counter lpi_rxw_err_cnt is	X used which was not pre ving definition for lpi_rxw	v_err_cnt: tions.	den Besten, Gerrit Comment Type E typo: raining SuggestedRemedy	NXP Semic Comment Status X		

C/ 149 SC 149.3.5

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C/ 149 SC 149.3.5	P 103	L 31	# 54	C/ 149 SC 149.3.5	P 103	L 48	# 55
Wienckowski, Natalie	General Motors	6		Wienckowski, Natalie	General Motor	s	
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
typo				Subject verb agreeement			
SuggestedRemedy				SuggestedRemedy			
Change: among rainin To: among training frar					of the 16th partial PHY fram e 16th partial PHY frame are		
Proposed Response	Response Status O			Proposed Response	Response Status O		
	P103	L 31	# 115	C/ 149 SC 149.3.6	P 106	L 26	# 256
Dudek, Mike	Marvell			den Besten, Gerrit	NXP Semicon	ductors	
Comment Type E	Comment Status X			Comment Type T	Comment Status X		
typo SuggestedRemedy				"do not overlap" is not rea to be non-perfect.	Ily correct, because the align	ment of the link p	partners is allowed
change "raining" into tr	ainina"			SuggestedRemedy			
Proposed Response	Response Status O			Replace by "can only have	e a small overlap"		
r roposed Nesponse	Response Status U			Proposed Response	Response Status 0		
C/ 149 SC 149.3.5	P 103	L 32	# 25	C/ 149 SC 149.3.6.1	P105	L 45	# 04
Anslow, Pete	Ciena					-	# 84
Comment Type E	Comment Status X			Maguire, Valerie	The Siemon C Comment Status X	ompany	
"are shown in 149–12"	should be "are shown in Figure	149–12"		Comment Type E Use preferred terminology			
SuggestedRemedy					Tor manualory chiena.		
Change the cross-refe	ence format to "FigureNumber"			SuggestedRemedy	'HYs must synchronize" with,	"FFF-canable [DHVe ehall
Proposed Response	Response Status 0			synchronize" and adjust F			1113 311011
				Proposed Response	Response Status 0		
C/ 149 SC 149.3.5	P 103	L 48	# 255				
den Besten, Gerrit	NXP Semicono	luctors					
Comment Type E	Comment Status X						
typo: (bits of) PHY fran							
21							

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 149.3.6.1 Page 30 of 50 6/24/2019 9:51:37 AM

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C/ 149 SC 149.3.7.2.1 P108 L 4 # 282	C/ 149 SC 149.3.8.2 P113 L 46 # 163	3
Souvignier, Tom Broadcom	Law, David Hewlett Packard Enterprise	
Comment Type TR Comment Status X	Comment Type T Comment Status X	
RFER_CNT_LIMIT and RFRX_CNT_LIMIT are not defined	I'm struggling to find the definition of the RFER_CNT_LIMIT and RFRX_CNT_LIMIT.	
SuggestedRemedy	SuggestedRemedy	
See page 2 of "tu_3ch_03_0719.pdf".	Please add a cross-reference to where RFER_CNT_LIMIT and RFRX_CNT_LIMIT a	are
Proposed Response Response Status O	defined.	
	Proposed Response Response Status O	
Regev, Alon Keysight Technologies	C/ 149 SC 149.3.8.2 P114 L 3 # 164	4
Comment Type TR Comment Status X	Law, David Hewlett Packard Enterprise	
"rs-fec_frame_done" should be "rs_fec_frame_done"	Comment Type T Comment Status X	
SuggestedRemedy	Subclause 149.3.7.2.2 'Variables' defines pcs_reset as a Boolean variable with no fur	
change "rs-fec frame done" to "rs fec frame done"	definition of the values, which I understand to mean that the two possible values defau true and false. This seems to be confirmed in subclause 149.3.2.1 'PCS Reset function	
	which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow	its
5	which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow is based on ' pcs_reset +'. Based on its use in the open arrow entry to the	its entry
	which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow	its entry
Proposed Response Response Status O Cl 149 SC 149.3.8.2 P 113 L 42 # 162	which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow is based on ' pcs_reset +'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be ch	its entry
Proposed Response Response Status O Cl 149 SC 149.3.8.2 P 113 L 42 # 162	which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow is based on ' pcs_reset +'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be ch from 'pcs_reset = ON +' to 'pcs_reset +'.	its entry
Proposed Response Response Status O C/ 149 SC 149.3.8.2 P113 L 42 # 162 Law, David Hewlett Packard Enterprise	<pre>which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow of is based on ' pcs_reset +'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be ch from 'pcs_reset = ON +' to 'pcs_reset +'. SuggestedRemedy</pre>	its entry
Proposed Response Response Status O Cl 149 SC 149.3.8.2 P 113 L 42 # 162 Law, David Hewlett Packard Enterprise Comment Type E Comment Status X Change the text ' time RFER_BAD_RF of the' to read ' time the RFER_BAD_RF state of the'. SuggestedRemedy	<pre>which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow is based on ' pcs_reset +'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be ch from 'pcs_reset = ON +' to 'pcs_reset +'. SuggestedRemedy Change 'pcs_reset = ON +'. to read 'pcs_reset +'. Proposed Response Response Status O</pre>	its entry hange
Proposed Response Response Status O C/ 149 SC 149.3.8.2 P 113 L 42 # 162 Law, David Hewlett Packard Enterprise Comment Type E Comment Status X Change the text ' time RFER_BAD_RF of the' to read ' time the RFER_BAD_RF state of the'.	<pre>which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow is based on ' pcs_reset +'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be ch from 'pcs_reset = ON +' to 'pcs_reset +'. SuggestedRemedy Change 'pcs_reset = ON +'. to read 'pcs_reset +'. Proposed Response Response Status O Cl 149 SC 149.38.2 P114 L 48 # 165</pre>	its entry hange
Proposed Response Response Status O Cl 149 SC 149.3.8.2 P 113 L 42 # 162 Law, David Hewlett Packard Enterprise Comment Type E Comment Status X Change the text ' time RFER_BAD_RF of the' to read ' time the RFER_BAD_RF state of the'. SuggestedRemedy See comment.	<pre>which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow is based on ' pcs_reset +'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be ch from 'pcs_reset = ON +' to 'pcs_reset +'. SuggestedRemedy Change 'pcs_reset = ON +'. to read 'pcs_reset +'. Proposed Response Response Status O C/ 149 SC 149.38.2 P114 L 48 # 165 Law, David Hewlett Packard Enterprise</pre>	its entry hange
Proposed Response Response Status O Cl 149 SC 149.3.8.2 P 113 L 42 # 162 Law, David Hewlett Packard Enterprise Comment Type E Comment Status X Change the text ' time RFER_BAD_RF of the' to read ' time the RFER_BAD_RF state of the'. SuggestedRemedy SuggestedRemedy See comment. See comment.	which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow is based on ' pcs_reset +'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be ch from 'pcs_reset = ON +' to 'pcs_reset +'. SuggestedRemedy Change 'pcs_reset = ON +'. to read 'pcs_reset +'. Proposed Response Response Status O C/ 149 SC 149.38.2 P114 L 48 # 165 Law, David Hewlett Packard Enterprise Comment Type T Comment Status X	its entry hanged
Proposed Response Response Status O Cl 149 SC 149.3.8.2 P 113 L 42 # 162 Law, David Hewlett Packard Enterprise Comment Type E Comment Status X Change the text ' time RFER_BAD_RF of the' to read ' time the RFER_BAD_RF state of the'. SuggestedRemedy SuggestedRemedy See comment. See comment.	<pre>which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow is based on ' pcs_reset +'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be ch from 'pcs_reset = ON +' to 'pcs_reset +'. SuggestedRemedy Change 'pcs_reset = ON +'. to read 'pcs_reset +'. Proposed Response Response Status O C/ 149 SC 149.38.2 P114 L 48 # 165 Law, David Hewlett Packard Enterprise</pre>	its entry hanged
Proposed Response Response Status O Cl 149 SC 149.3.8.2 P 113 L 42 # 162 Law, David Hewlett Packard Enterprise Comment Type E Comment Status X Change the text ' time RFER_BAD_RF of the' to read ' time the RFER_BAD_RF state of the'. SuggestedRemedy SuggestedRemedy See comment. See comment.	which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow is based on ' pcs_reset +'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be ch from 'pcs_reset = ON +' to 'pcs_reset +'. SuggestedRemedy Change 'pcs_reset = ON +'. to read 'pcs_reset +'. Proposed Response Response Status O C/ 149 SC 149.38.2 P114 L 48 # 165 Law, David Hewlett Packard Enterprise Comment Type T Comment Status X There is no transition condition on the transition from the INC_CNT2 state to the HI_F	its entry hange
Proposed Response Response Status O Cl 149 SC 149.3.8.2 P 113 L 42 # 162 Law, David Hewlett Packard Enterprise Comment Type E Comment Status X Change the text ' time RFER_BAD_RF of the' to read ' time the RFER_BAD_RF state of the'. SuggestedRemedy SuggestedRemedy See comment. See comment.	<pre>which states that ' PCS Reset sets pcs_reset = TRUE while any of the above' and use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow is based on ' pcs_reset +'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be ch from 'pcs_reset = ON +' to 'pcs_reset +'. SuggestedRemedy Change 'pcs_reset = ON +'. to read 'pcs_reset +'. Proposed Response Response Status O C/ 149 SC 149.3.8.2 P114 L48 # 165 Law, David Hewlett Packard Enterprise Comment Type T Comment Status X There is no transition condition on the transition from the INC_CNT2 state to the HI_F state in Figure 149–15 'RFER monitor state diagram'.</pre>	its entry hange

C/ 149 SC 149.3.8.2

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C/ 149	SC 149.3.8.2	P 115	L 5	# 166	C/ 149	SC 149.3.8.2	P 116	L 13	# 103
.aw, David		Hewlett Packa	ard Enterprise		Lo, Willian	า	Axonne Inc.		
Comment T	Гуре Е	Comment Status X			Comment	Type TR	Comment Status X		
Please	vertically and hor	zontally centre align all state	names.				clause 149.3.7.3 but for som	e reason the state	e diagrams appears
SuggestedF See cor	mment.				The tx frame		gets stuck true if LPI is preser es to something that is not LP c.		
roposed R	Response	Response Status 0				0 ,			
after cla Figure 7 There is slight di Scenari T_TYPI When ti and the	Type TR cally this is really ause 149.3.8.2. 149-16 (page 115 s a corner case the ifferently dependition io: E(tx_raw) initially this happens the sen immediately tra	P115 Axonne Inc. Comment Status X clause 149.3.7.3 but for some b) has 3 L transitions into Figure at makes things behave a litt ing on interpretation. This char = LI at exactly a time lp_low_ state machine transitions into nsitions into TX_WM state.	ure 149-17 (Page le ugly that people ange avoids the c snr = true.	116). e may implement orner case.	T_TYI XGMI T_TYI becau Since tx_lpi_ Meanv and w We ar Hence transn Reme	indicats LPI which PE(tx_raw) = LI, et stops sending L PE(tx_raw) = (C+ se tx_alert_start_ RS frame is not ct active remains fa while with tx_lpi_re e move to SEND_ e stuck there fore the EEE transmit state diagram	Inter TX_L state (page 116) Pl before end of RS frame wh D+E+S+T), enter TX_WN sta next is never set true. complete (rs_fec_frame_done lse hence state machine move eq stuck at true, rs_fec_frame _SLEEP state and then onto S ver since tx_lpi_req is stuck at t state diagram (page 119) is	te but tx_lpi_req r is not asserted pa es from TX_WN to _done will trigger END_QR state (p t true. out of sync with th	age 119) o TX_C state. eventually page 119). ne PCS 64/65B
But why Sugges SNR is SuggestedF Page 1 ² Change	y enter LPI in the st remedy is to pre- low.	x_raw) = LI to			Chang lp_low to	116 Figure 149-1 le _snr +T_TYPE(t v_snr + T_TYPE	7. <_raw) = (C + D + E + S + T) tx_raw) = (C + D + E + S + T <i>Response Status</i> 0)) * tx_lpi_active	

Proposed Response

Response Status 0

C/ 149 SC 149.3.8.2

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C/ 149 SC 149.3.8								
C/ 149 3C 149.3.0	3.2 <i>P</i> 117	L 28	# 167	C/ 149	SC 149.3.8.2	P 118	L 13	# 157
Law, David	Hewlett Packa	rd Enterprise		Law, David		Hewlett Pack	kard Enterprise	
Comment Type E	Comment Status X			Comment T	/pe T	Comment Status X		
Suggest that a font be maintenance on the s	e used for the each symbols in the state diagram.	e state diagram to	ease any future	149.3.7	2.1 'Constants',	ant assigned to rx_raw in the there is however an IBLOCK		
SuggestedRemedy					2. that isn't used	1.		
	instances of the symbol '=' in sym TYPE_NEXT =' in the transition to RX_E.				-	_R in the RX_R state to IBL	OCK_R, or chang	ge IBLOCK_R in
Proposed Response	Response Status O			Proposed R	esponse	Response Status O		
	3.2 <i>P</i> 117	L 41	# 168	C/ 149	SC 149.3.8.2	P118	L 19	# 158
Law, David	Hewlett Packa	rd Enterprise		Law, David		Hewlett Pack	kard Enterprise	
Comment Type E	Comment Status X			Comment T	/pe E	Comment Status X		
Туро.				Туро.				
SuggestedRemedy				SuggestedF	lemedy			
Suggets that 'R_TYP	PE(rx_coded)= S' be changed to re Id '=') on the transition from the R			Suggets	that 'R_TYPE(r	x_coded)=I' be changed to re he '=') on both exit conditions		
Suggets that 'R_TYP space between ")" an				Suggets	that 'R_TYPE(r efore and after th			
Suggets that 'R_TYP space between ")" an Proposed Response	id '=') on the transition from the R Response Status O			Suggets space b	that 'R_TYPE(r efore and after th	he '=') on both exit conditions		
Suggets that 'R_TYP space between ")" an Proposed Response Cl 149 SC 149.3.8	id '=') on the transition from the R Response Status O	X_T to RX_D stat	es.	Suggets space b Proposed R	that 'R_TYPE(r efore and after th esponse	he '=') on both exit conditions Response Status O P118	from the RX_W	state.
Suggets that 'R_TYP space between ")" an Proposed Response Cl 149 SC 149.3.8 Law, David	ad '=') on the transition from the R Response Status 0 3.2 P118	X_T to RX_D stat	es.	Suggets space b Proposed R CI 149	that 'R_TYPE(r efore and after th esponse SC 149.3.8.2	he '=') on both exit conditions Response Status O P118	from the RX_W	state.
Suggets that 'R_TYP space between ")" an Proposed Response Cl 149 SC 149.3.8 Law, David Comment Type T The LP_BLOCK_R c	ad '=') on the transition from the R Response Status O 3.2 P118 Hewlett Packar Comment Status X constant assigned to rx_raw in the 1 'Constants', there is however a l	X_T to RX_D stat	es. # <u>156</u>	Suggets space b Proposed R Cl 149 Law, David Comment T The Ipi_ 64B/65E	that 'R_TYPE(r efore and after th esponse SC 149.3.8.2 /pe T rxw_err_cnt cou 3 Receive state of	he '=') on both exit conditions <i>Response Status</i> 0 <i>P</i> 118 Hewlett Pack	t from the RX_W	state. ´ # [<u>159</u> re 149–19 'PCS
Suggets that 'R_TYP space between ")" an Proposed Response Cl 149 SC 149.3.8 Law, David Comment Type T The LP_BLOCK_R c subclause 149.3.7.2. subclause 149.3.7.2.	ad '=') on the transition from the R Response Status O 3.2 P118 Hewlett Packar Comment Status X constant assigned to rx_raw in the 1 'Constants', there is however a l	X_T to RX_D stat	es. # <u>156</u>	Suggets space b Proposed R CI 149 Law, David Comment T 64B/65t SuggestedF	s that 'R_TYPE(r efore and after th esponse SC 149.3.8.2 /pe T rxw_err_cnt cou 3 Receive state of cemedy	P118 <i>Response Status</i> O <i>P</i> 118 Hewlett Pack <i>Comment Status</i> X nter incremented in the RX_' diagram, part b' is not defined	<i>L</i> 23 <i>L</i> 23 kard Enterprise WE state of Figur d or used anywher	state. ´ # <u>159</u> re 149–19 'PCS re.
space between ")" an Proposed Response Cl 149 SC 149.3.8 Law, David Comment Type T The LP_BLOCK_R c subclause 149.3.7.2. Subclause 149.3.7.2. SuggestedRemedy	ad '=') on the transition from the R Response Status O 3.2 P118 Hewlett Packar Comment Status X constant assigned to rx_raw in the 1 'Constants', there is however a l that isn't used. OCK_R in the RX_L state to LPB	L 7 L 7 rd Enterprise RX_L state isn't of LPBLOCK_R con	# 156 r defined in astant defined in	Suggets space b Proposed R CI 149 Law, David Comment T 64B/65t SuggestedF	that 'R_TYPE(r efore and after th esponse SC 149.3.8.2 ype T rxw_err_cnt cou 3 Receive state of he lpi_rxw_err_c	P118 <i>Response Status</i> O <i>P</i> 118 Hewlett Pack <i>Comment Status</i> X nter incremented in the RX_V	<i>L</i> 23 <i>L</i> 23 kard Enterprise WE state of Figur d or used anywher	state. ´ # <u>159</u> re 149–19 'PCS re.

C/ 149 SC 149.3.8.2

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C/ 149 SC 149.3.8.	2 P 119	L 20	# 161	C/ 149 SC 149.3	.9.2.1 <i>P</i> 121	L 2	# 57
Law, David	Hewlett Packa	d Enterprise		Wienckowski, Natalie	General Moto	ors	
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
	ND symbol from the end of the ed	quation for the tr	ansition from	poor alignment of lin	es in figure		
SEND_SLEEP to SEN	ND_QR.			SuggestedRemedy			
SuggestedRemedy Change the text ' * tx	_lpi_req*'. to read ' * tx_lpi_req'.			Adjust lines/boxes ir be different line widt	n figure 149-21 so they are proper hs.	ly aligned and the	ere don't appear to
Proposed Response	Response Status O			Proposed Response	Response Status O		
	P120	L 20	# 194	C/ 149 SC 149.3.	.9.2.1 <i>P</i> 121	L 38	# 106
Brandt, David	Rockwell Autor	mation		Lo, William	Axonne Inc.		
Comment Type E Missing space	Comment Status X			Comment Type E Grammar	Comment Status X		
SuggestedRemedy				SuggestedRemedy			
Change: "OAM10-bit"				Change "can packed	d into" to "can be packed into"		
To: "OAM 10-bit"				Proposed Response	Response Status 0		
Proposed Response	Response Status O						
C/ 149 SC 149.3.9	P 120	L 23	# 58	C/ 149 SC 149.3.	-	L 38	# 56
Wienckowski. Natalie	General Motors	-		Wienckowski, Natalie	General Moto	ors	
Comment Type T	Comment Status X	-		Comment Type E	Comment Status X		
unclear terminology us	ed			typo			
SuggestedRemedy				SuggestedRemedy	rome can neeled into 0 autor fro		
Change: exchange, at	t a minimum, the link partner hea			5	rame can packed into 8 super fra can be packed into 8 super frame		
To: exchange, at a mi	nimum, the link partner OAM sta	tus.		Proposed Response	Response Status O		
Proposed Response	Response Status 0				, .		

C/ 149 SC 149.3.9.2.1

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C/ 149 SC 149.3.9.2.1	P 121	L 52	# 258	C/ 149 SC 149.3.9.2.13 P125 L 38 # 59
den Besten, Gerrit	NXP Semicon	ductors		Wienckowski, Natalie General Motors
Comment Type E Comme typo: symbol	ent Status X			Comment Type E Comment Status X poor wording
SuggestedRemedy replace by: symbols				SuggestedRemedy Change: is required only when the EEE is implemented.
	se Status O			To: is required only when EEE is implemented.
Toposcu ricsponsc				Proposed Response Response Status O
C/ 149 SC 149.3.9.2.1	P 121	L 52	# 257	C/ 149 SC 149.3.9.2.14 P125 L 42 # 135
den Besten, Gerrit	NXP Semicon	ductors		Grau, Olaf Robert Bosch GmbH
	ent Status X			Comment Type E Comment Status X
typo: symbol SuggestedRemedy				Headline: BASE-T1 OAM Frame Acceptance Criteria: Which Speedgrade is mentioned here ?
replace by: symbols				SuggestedRemedy
Proposed Response Respon	se Status O			MultiGBASE-T1 OAM Frame Acceptance Criteria
				Proposed Response Response Status O
C/ 149 SC 149.3.9.2.1	P 122	L 13	# 134	
Grau, Olaf	Robert Bosch	GmbH		C/ 149 SC 149.3.9.3 P128 L1 # 195
	ent Status X			Brandt, David Rockwell Automation
Bold OAM Bitfield delimiter				Comment Type E Comment Status X
SuggestedRemedy Only Bold delimiter for a OAM Sup	erframe field			Should this refer to the "State Variables to OAM Register Mapping" that were edited in Clause 97 to be BASE-T1? Why do they need to appear twice?
Proposed Response Respon	se Status O			SuggestedRemedy Refer to the modified Clause 97 Table 97-6 for the BASE-T1 mappings and then define t additional mappings for MultiGBASE-T1.
C/ 149 SC 149.3.9.2.1	P 122	L 28	# 107	Proposed Response Response Status O
Lo, William	Axonne Inc.			
Comment Type TR Comme OAM field no longer has parity	ent Status X			
SuggestedRemedy Delete the clause " and the symbol parity will not cha	nae"			
and the symbol purity will not ond				

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 149.3.9.3 Page 35 of 50 6/24/2019 9:51:37 AM

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C/ 149 SC 149.3.9.4	.6 P 136	L 26	# 270	C/ 149 SC 149.4.2.1	P 139	L 16	# 60
Γu, Mike	Broadcom			Wienckowski, Natalie	General Motor	rs	
Comment Type T	Comment Status X			Comment Type E	Comment Status X		
In Figure 149-24, the OAM receive state diagram, the entry condition into state "LOAD_RECEIVE_PAYLOAD" may cause an erronous corner case.				misspelled word, sall -> sh	nall		
				SuggestedRemedy			
SuggestedRemedy					E-T1 PMA sall take no longe	er	
See page 4 of "tu_3ch_05_0719.pdf".				To: The MultiGBASE-T1	6		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 149 SC 149.4.2.1	P139	L 16	# 108	C/ 149 SC 149.4.2.2	P 139	L 32	# 61
Lo, William	Axonne Inc.			Wienckowski, Natalie	General Motor	ſS	
Comment Type ER	Comment Status X			Comment Type T	Comment Status X		
Туро				The clock jitter requirement	nts are in 149.5.2.3, not 149	.5.2.2.	
SuggestedRemedy				SuggestedRemedy			
Change "sall" to "shall"				5 5	e transmit jitter requirements smit jitter requirements of 1		
Proposed Response	Response Status O			Make the same change on			
				Proposed Response	Response Status 0		
C/ 149 SC 149.4.2.1	P 139	L 16	# 262				
den Besten, Gerrit	NXP Semicono	ductors		C/ 149 SC 149.4.2.3	P139	L 48	# 26
Comment Type E	Comment Status X			Anslow, Pete	Ciena		
typo: sall				Comment Type E	Comment Status X		
SuggestedRemedy Replace by: shall				In "less than 2x10-10" the "x" should be a multiply sign (Ctrl-q 0) and the minus sign should be an en-dash (Ctrl-q Shft-p).			ne minus sign shoul
Proposed Response	Response Status 0			Same issue in 149.11.4.3.3 item PMAR1			
				SuggestedRemedy			
				In "less than 2x10-10" change the "x" to a multiply sign (Ctrl-q 0) and change the minus			
C/ 149 SC 149.4.2.1		L 16	# 172	sign to an en-dash (Ctrl-q Shft-p). Make the same changes in 149.11.4.3.3 item PMAR1			
Regev, Alon	Keysight Tech	nologies			Response Status O		
Comment Type TR "shall" is misspelled as "	Comment Status X						
Suggested Demodul							
SuggestedRemedy							
change "sall" to "shall"							

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 149.4.2.3 Page 36 of 50 6/24/2019 9:51:37 AM

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C/ 149 SC 149.4	.2.4.5	P 142	L 45	# 280	C/ 149	SC 149.4.2.	4.8 P143	L 15	# 63
Souvignier, Tom		Broadcom			Wienckows	ki, Natalie	General Motors		
Comment Type TR	Comme	ent Status X			Comment 7	ype E	Comment Status X		
				e PHY simply reads	unnece	ssary article			
in these register bit robust to optionally					Suggestedl	Remedy			
noise conditions.						e: After all the 7	octets		
SuggestedRemedy						er all 7 octets			
See page 5 of "tu_3	ch_01_0719.pd	lf".			Proposed F	Response	Response Status 0		
Proposed Response	Respons	se Status O							
					C/ 149	SC 149.4.2.	4.10 P 144	L 25	# 64
C/ 149 SC 149.4	.2.4.7	P 143	L6	# 109	Wienckows	ki, Natalie	General Motors		
Lo. William		Axonne Inc.			Comment 7	ype E	Comment Status X		
Comment Type TR	Comme	ent Status X			repeate	d words			
Typo in bit index					Suggested	Remedy			
SuggestedRemedy						e: PHY Control IY Control state	state diagram state diagram diagram		
Change "Oct8<1:0:	•, Oct9<1:0>, O	oct10<7:0>" to "Oct8	8<7:0>, Oct9<7:0)>, Oct10<7:0>"	Proposed F		Response Status O		
Proposed Response	Respons	se Status O							
					C/ 149	SC 149.4.2.	5 P144	L 42	# 65
C/ 149 SC 149.4	.2.4.8	P 143	L 14	# 62	Wienckows	ki, Natalie	General Motors		
Wienckowski, Natalie		General Motors	S		Comment 7	уре Е	Comment Status X		
Comment Type E	Comme	ent Status X			Subject	verb agreeeme	ent		
missing comma					Suggestedl	Remedy			
SuggestedRemedy					0	e: and the Link			
Add comma after "/	Afterwards" in:	Afterwards Oct4 thr	rough Oct10			state machines d the Link	s begins monitoring		
Proposed Response	Respons	se Status O					begins monitoring		
					Proposed F	Jaananaa	Response Status O		

C/ 149 SC 149.4.2.5

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C/ 149 SC 149.4.2.6	P 145	L 19	# 111	C/ 149 SC 149.4.3.1 P 149 L 27 # 66	;
o, William	Axonne Inc.			Wienckowski, Natalie General Motors	
omment Type E	Comment Status X			Comment Type E Comment Status X	
Inconsistent Sn subscrip		where elec		It appears that in $hT(t)$, "h" and "(t)" are superscripts and "T" is a subscript.	
the n is in subscript.	ubscript the n in Sn where every	where else		SuggestedRemedy	
SuggestedRemedy				Change "h" and "(t)" to normal with "T" as a subscript.	
Subscript the n in Sn in	lines 19 and 20			Proposed Response Response Status O	
Proposed Response	Response Status 0				
				C/ 149 SC 149.4.4.1 P150 L 32 # 68	5
C/ 149 SC 149.4.2.6	P145	L 20	# 110	Wienckowski, Natalie General Motors	
_o, William	Axonne Inc.			Comment Type E Comment Status X	
Comment Type TR	Comment Status X			Missing return	
Missing subscript				SuggestedRemedy	
SuggestedRemedy				Move "OK:" to be on the line after "Values:	
Change S[7:0] to Sn[7:0 Note that the n in Sn sho				Proposed Response Response Status O	
Proposed Response	Response Status O			C/ 149 SC 149.4.4.1 P150 L 38 # 69	
C/ 149 SC 149.4.2.8	P149	L11	# 263	Wienckowski, Natalie General Motors Comment Type E Comment Status X	
den Besten, Gerrit	NXP Semicondu			Missing return	
Comment Type E	Comment Status X			SuggestedRemedy	
<i>, , , , , , , , , ,</i>	at other places in the spec			Move "OK:" to be on the line after "Values:	
SuggestedRemedy				Proposed Response Response Status O	
Replace RS FER by RF	ER				
Proposed Response	Response Status 0			C/ 149 SC 149.4.4.1 P150 L 43 # 27	,
				Anslow, Pete Ciena Comment Type E Comment Status X	
				"pcs_data_mode" should not be split across two lines	
				SuggestedRemedy Prevent "pcs_data_mode" from being split across lines.	
				revent pes_uata_mode nom being split across lines.	
				(Click somewhere within "pcs_data_mode" and type Esc n s)	

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C/ 149 SC 149.4.4.	1 P 150	L 44	# 160	C/ 149	SC 149.4.4.2	P 151	L 41	# 113
Law, David	Hewlett Packa	rd Enterprise		Lo, William		Axonne Ine	.	
Comment Type E	Comment Status X			Comment Ty	pe TR	Comment Status X		
	DE.indicate' should read 'PCSDA .1 'Classification of service prime		ation', see IEEE Std	removed		removed in previous drafts		
SuggestedRemedy						_timer functionality is actual iagrams so it is redundant l		id Link
See comment.				SuggestedR	emedy			
Proposed Response	Response Status O			Page 14	4 line 21 - Dele	te maxwait_timer paragrapl te ", until maxwait_timer ex 7 - Delete paragraph		
C/ 149 SC 149.4.4.	1 P 151	L 7	# 112	Page 15	3 line 13 - Dele	ete INIT_MAXŴAİT_TIMEF	R state, delete UCT	arrow and reconnec
Lo, William	Axonne Inc.					RANSMITTER to SILENT		
Comment Type TR	Comment Status X					te maxwait_timer row		
	n is removed from the state diagr eed for the watchdog variable.	ams.		Proposed Re	esponse	Response Status 0		
SuggestedRemedy								
Remove the entire para	agraph on PMA_watchdog_statu	JS		C/ 149	SC 149.4.5	P 154	L 12	# 281
Proposed Response	Response Status O			Souvignier,	om	Broadcom		
Proposed Response				0,				
roposed Response				Comment Ty		Comment Status X		
C/ 149 SC 149.4.4.	1 <i>P</i> 151	L 25	# 67	There is unneces	, a corner case sary delays in t	Comment Status X in the Link Monitor state dia the startup process. This ca he LINK_DOWN state into	n be fixed by a sim	ple change in the
C/ 149 SC 149.4.4 . Wienckowski, Natalie	1 P151 General Motor	-	# [67	There is unneces branch o	a corner case sary delays in t ondition from t	in the Link Monitor state dia the startup process. This ca	n be fixed by a sim	ple change in the
C/ 149 SC 149.4.4. Wienckowski, Natalie Comment Type E	1 <i>P</i> 151	-	# 67	There is unneces branch o SuggestedR	a corner case sary delays in t ondition from t emedy	in the Link Monitor state dia the startup process. This ca	n be fixed by a sim	ple change in the
C/ 149 SC 149.4.4. Wienckowski, Natalie Comment Type E Missing return	1 P151 General Motor	-	# <mark>67</mark>	There is unneces branch o SuggestedR	a corner case sary delays in t ondition from t emedy e 4 of "tu_3ch_	in the Link Monitor state dia the startup process. This ca he LINK_DOWN state into	n be fixed by a sim	ple change in the
Cl 149 SC 149.4.4. Wienckowski, Natalie Comment Type E Missing return SuggestedRemedy	1 P151 General Motor Comment Status X	-	# [67	There is unneces branch o SuggestedR See pag	a corner case sary delays in t ondition from t emedy e 4 of "tu_3ch_	in the Link Monitor state dia the startup process. This ca he LINK_DOWN state into 02_0719.pdf".	n be fixed by a sim	ple change in the
Cl 149 SC 149.4.4 . Wienckowski, Natalie Comment Type E Missing return SuggestedRemedy Move "OK:" to be or	1 P151 General Motor Comment Status X	-	# <u>67</u>	There is unneces branch o SuggestedR See pag	a corner case sary delays in t ondition from t emedy e 4 of "tu_3ch_	in the Link Monitor state dia the startup process. This ca he LINK_DOWN state into 02_0719.pdf".	n be fixed by a sim	ple change in the
Cl 149 SC 149.4.4. Wienckowski, Natalie Comment Type E Missing return SuggestedRemedy Move "OK:" to be or	1 P151 General Motor Comment Status X	-	# 67	There is unneces branch o SuggestedR See pag Proposed Re	a corner case sary delays in t ondition from t emedy e 4 of "tu_3ch_ esponse SC 149.5.1	in the Link Monitor state dia the startup process. This ca he LINK_DOWN state into _02_0719.pdf". 	n be fixed by a sim the LINK_UP state.	ple change in the
Cl 149 SC 149.4.4. Nienckowski, Natalie Comment Type E Missing return SuggestedRemedy Move "OK:" to be or	1 P151 General Motor Comment Status X	-	# [<u>67</u>	There is unneces branch o SuggestedR See pag Proposed Ro Cl 149	a corner case sary delays in 1 ondition from t emedy e 4 of "tu_3ch_ esponse SC 149.5.1 i, Natalie	in the Link Monitor state dia the startup process. This ca he LINK_DOWN state into 02_0719.pdf". Response Status 0 P155	n be fixed by a sim the LINK_UP state.	ple change in the
Cl 149 SC 149.4.4. Wienckowski, Natalie Comment Type E Missing return SuggestedRemedy Move "OK:" to be or	1 P151 General Motor Comment Status X	-	# <u>67</u>	There is unneces branch o SuggestedR See pag Proposed Ro C/ 149 Wienckowsk Comment Ty	a corner case sary delays in f ondition from t emedy e 4 of "tu_3ch_ esponse SC 149.5.1 i, Natalie pe E	in the Link Monitor state dia the startup process. This ca he LINK_DOWN state into .02_0719.pdf". <i>Response Status</i> O <i>P</i> 155 General M	n be fixed by a sim the LINK_UP state.	ple change in the
Cl 149 SC 149.4.4. Wienckowski, Natalie Comment Type E Missing return SuggestedRemedy Move "OK:" to be or	1 P151 General Motor Comment Status X	-	# 67	There is unneces branch o SuggestedR See pag Proposed Ro C/ 149 Wienckowsk Comment Ty	a corner case sary delays in 1 ondition from t emedy e 4 of "tu_3ch_ esponse SC 149.5.1 i, Natalie pe E -breaking spac	in the Link Monitor state dia the startup process. This ca he LINK_DOWN state into _02_0719.pdf". <i>Response Status</i> 0 <i>P</i> 155 General M <i>Comment Status</i> X	n be fixed by a sim the LINK_UP state.	ple change in the
Cl 149 SC 149.4.4. Wienckowski, Natalie Comment Type E Missing return SuggestedRemedy	1 P151 General Motor Comment Status X	-	# <u>67</u>	There is unneces branch o SuggestedR See pag Proposed R Cl 149 Wienckowsk Comment Ty Add non SuggestedR Change:	a corner case sary delays in 1 ondition from t emedy e 4 of "tu_3ch_ esponse SC 149.5.1 i, Natalie pe E -breaking spac	in the Link Monitor state dia the startup process. This ca he LINK_DOWN state into 02_0719.pdf". <i>Response Status</i> O <i>P</i> 155 General M <i>Comment Status</i> X e in the number per the IEE	n be fixed by a sim the LINK_UP state.	ple change in the

C/ 149 SC 149.5.1

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C/149 SC 149.5.1 P155 L 40 # 3	C/ 149 SC 149.5.1	P 155	L 41	# 200
Farjadrad, Ramin Aquantia	Dawe, Piers	Mellanox		
Comment Type T Comment Status X	Comment Type TR	Comment Status X		
[JITTER TEST MODE] The description of test mode 2 needs to be expanded to all multiple test patterns.		hese very artificial test patterr ed on to better methods for P/ h as 136.		
Comments tagged JITTER TEST MODE should be treated as a group.	SuggestedRemedy			
SuggestedRemedy	00)	with PRBS13Q, following 120)D.3.1.8 Output ii	tter and 120D.3.1.2
Change the fourth paragraph of 149.5.1. to read:		ke JP03A and JP03B optiona		
Test mode 2 is for transmitter jitter testing on MDI when transmitter is in MASTER mode. When test mode 2 is enabled, the PHY shall transmit the pattern controlled I	5	Response Status O		
1.2313.1:0, as shown in Table 149-15a, with the transmitted symbols timed from its clock source	C/ 149 SC 149.5.1	P 155	L 46	# 264
	den Besten, Gerrit	NXP Semicon	ductors	
Insert Table 149-15a Jitter test modes after (new) fourth paragraph of 149.5.1 as for	Comment Type T	Comment Status X		
Table 149-15a Jitter test modes Bit 1.2313.1 Bit 1.2313.0 Test Pattern 0 0 Square wave: a continuous pattern of 16*S {+1	clear. Is this refering to to	+1} symbols" The meaning of oggling pattern or something e		uous' is not very
symbols followed by 16*S {-1} symbols	SuggestedRemedy	and the second second second second second	- ((
0 1 JP03A: a continuous pattern of JP03A (as spe 94.2.9.1)	in If this is about a toggline more specifically what wa	pattern, say toggling instead	or continuous. If	otherwise, specify
1 0 JP03B: a continuous pattern of JP03B (as spe 94.2.9.2)	, ,	Response Status O		
1 1 Reserved				
Proposed Response Response Status O				
C/ 149 SC 149.5.1 P155 L 41 # 1				
Dudek, Mike Marvell				

Further work on PAM4 systems after Claue 94 was completed decided that the JP03A and JP03B signals were too un-representative of normal traffic. Instead the PRBS13Q pattern is used for jitter testing. The dual dirac jitter specification methodology has also been replaced by a more direct measure of jitter at the probability relevant to the clause. (Called J?U where ? is the probability of interest) and the Jrms value. The test methodology is defined in Clause 120D.3.1.8.1

SuggestedRemedy

Replace the reference to JP03A and JP03B with a reference to PRBS13Q described in subclause 120.5.11.2.1 and change the references in 149.5.2.3.2 as well.

Proposed Response Response Status **0**

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

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C/ 149

SC 149.5.1.1

C/ 149	SC 149.5.1	P 155	L 50	# 120
Sedarat, Ho	ssein	Ethernovia		
Comment Ty	vpe T	Comment Status X		

The transmit linearity test, as defined in 149.5.2.2, requires 2 test patterns: a low frequency short pattern to measure the accuracy of the PAM4 levels, and a high-frequency and long PRBS pattern to measure the transmit SNDR. Test mode 4 does not provide a provision to transmit 2 test patterns. Since the nonlinearity of the transmitter can be measured with respect to the ideal PAM4 levels, the short test pattern may not offer additional value. Also, the long high-frequency pattern of QPRBS13, as defined in 94.2.12.7, is constructed in a peculiar way which may be more fitting for a 100G-KP4 transmitter. A simple PRBS13 as the test pattern is as effective, more efficient to implement and less prone to misinterpretation of the specifications in another standard.

SuggestedRemedy

Replace "... transmit linearity test pattern defined in 94.29.4" with "... PRBS13 test pattern as defined in equation 94-3 and figure 94-6". And in subclause 149.5.2.2, add the following to the end of first sentence: "using ideal PAM4 level of 1/3 for effective symobl levels of ES1 and ES2."

Proposed Response	Response Status	0

C/ 149	SC 149.5.1	P 155	L 51	# 117
Dudek, Mik	e	Marvell		

Comment Type T Comment Status X

Further work on PAM4 systems after Claue 94 was completed decided that the transmitter linearity test pattern is too un-representative of normal traffic. Instead the PRBS13Q pattern is used for linearity testing. TThe test methodology is defined in Clause 120D.3.1.2

SuggestedRemedy

Replace the reference to the transmitter linearity test pattern with a reference to PRBS13Q described in sub-clause 120.5.11.2.1

Proposed Response Response Status **O**

C/ 149	SC	149.5.1.1	P1	56	L 19	# 201	
Dawe, Pier	s		Mella	nox			
Comment	Туре	TR	Comment Status	Х			
Not a t	est spe	ec					
Suggested	Remed	dy					
Chang	e "shal	l be used" t	o "are defined for"				
Proposed I	Respoi	nse	Response Status	0			

Dawe, Pier	s		Mella	nox		
Comment 7	Гуре	TR	Comment Status	х		
Unless numbe makes	otherv r of sig life mo	vise stated nificant dig pre complic	olution of numerical q , numerical limits in th gits and trailing zeros ated, and an attempt d testers can sort out	iis standa having no to enforce	o significance."	Stating otherwise spec is out of
Suggested	Remec	ły				
Delete	"The to	olerance of	resistors shall be +/-	0.1%."		
Proposed I	Respor	nse	Response Status	0		
C/ 149	SC	149.5.1.1	P1	56	L 33	# 118
Dudek, Mik	e		Marve	ell		
Comment T	-					
Commone	ype	TR	Comment Status	Х		
			Comment Status GHz. This probe wil		antly degrade the	performance of th
1pF is signal Suggested	only 50 Remea) Ohm at 3 dy	GHz. This probe wil	significa		performance of th
1pF is signal <i>Suggested</i> Delete	only 50 <i>Remec</i> Figure) Ohm at 3 <i>ly</i> 149-36 an	GHz. This probe wil d use Figure 149-38	signification for these		performance of th
1pF is signal Suggested	only 50 <i>Remec</i> Figure) Ohm at 3 <i>ly</i> 149-36 an	GHz. This probe wil	signification for these		performance of th
1pF is signal <i>Suggested</i> Delete	only 50 Remea Figure Respor) Ohm at 3 <i>ly</i> 149-36 an	GHz. This probe wil d use Figure 149-38	for these		performance of th
1pF is signal Suggested Delete Proposed F	Remec Figure Respor) Ohm at 3 dy 149-36 an nse	GHz. This probe wil d use Figure 149-38 Response Status	for these	tests.	
1pF is signal Suggested Delete Proposed F Cl 149 Dawe, Pier Comment T	Remec Figure Respor SC s Type) Ohm at 3 dy 149-36 an nse 149.5.2 TR	GHz. This probe wil d use Figure 149-38 Response Status P1 Mella Comment Status	for these 0 57 nox X	L 31	# <u>202</u>
1pF is signal Suggested Delete Proposed F C/ 149 Dawe, Pier Comment T I don't you say	Remec Figure Respor SC s Type know w) Ohm at 3 dy 149-36 an nse 149.5.2 TR what you me e transmitte	GHz. This probe wil d use Figure 149-38 <i>Response Status</i> <i>P</i> 1 Mella	for these O 57 NOX X all operate	L 31	# 202
1pF is signal Suggested Delete Proposed F C/ 149 Dawe, Pier Comment T I don't you say	Remea Figure Respor SC s <i>Type</i> know w ving the ad to th) Ohm at 3 dy 149-36 an nse 149.5.2 TR vhat you me e transmitte e PMA by s	GHz. This probe wil d use Figure 149-38 Response Status P1 Mella Comment Status ean by "The PMA sha er is AC coupled? Th	for these O 57 NOX X all operate	L 31	# 202
1pF is signal Suggested Delete Proposed F Cl 149 Dawe, Pier Comment T I don't you say provide Suggested This te 86A.4. The mode in	Remec Figure Respor SC s <i>Type</i> know w ving the ed to th <i>Remec</i> xt (as r 1 nPPI odule e mpeda) Ohm at 3 dy 149-36 an se 149.5.2 TR what you me transmitted to pMA by side the pMA by side dy modified for host to model ectrical inpact	GHz. This probe wil d use Figure 149-38 Response Status P1 Mella Comment Status ean by "The PMA sha er is AC coupled? Th	for these O 57 nox X all operate e receive be usefu cations ed, i.e., it	<i>L</i> 31 with AC-couplin r? Both? Or that I: shall present a	# 202 ng to the MDI". Ar tt AC coupling is high DC common-

P156

L19

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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

Cl	149	
SC	149.5.2	

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C/ 149	SC 149.5.2.2	P 157	L 46	# 121	C/ 149	SC 149.5.2.3	8.1 <i>P</i> 158	L 16	# 40
Sedarat, Ho	ossein	Ethernovia			Farjadrad, I	Ramin	Aquantia		
Comment 7	Туре Т	Comment Status X			Comment 7	<i>ур</i> е т	Comment Status X		
the inpu	out noise of the far	IDR of 31 dB, as defined in 94 -end receiver with considerabl bise budget left for the receive	e impact on ope		there a	re multiple test p] Random jitter test descriptio atterns available.		
Suggested	Remedy				Comme	ents tagged JITT	FER TEST MODE should be	treated as a group).
Replac	ce the sentence "T	he transmitter shall meet the	SNDR distortion	as specified in	Suggestedl	Remedy			
94.3.12	2.7" with "The tra	nsmit SNDR, as defined in 94	3.12.7 shall be (greater than 38 dB"			of 149.5.2.3.1 From: In additi		
Proposed F	Response	Response Status 0				ADI jitter is mea 149-38.	sured when in test mode 2 ar	nd using test fixture	e 3 as shown in
C/ 149 Dudek, Mik	SC 149.5.2.2	P 157 Marvell	L 46	# 119	mode 2		measurement for transmit clo wave pattern (see Table 149 8.		
Comment 7		Comment Status X			Proposed F	Response	Response Status 0		
for mea that the	asuring SNDR.	ystems after Claue 94 was co The test methodology is defin the to Clause 94 required a test	ned in Clause 12	0D.3.1.6. Note also	C/ 149 Farjadrad, I	SC 149.5.2.3	3.2 <i>P</i> 158 Aquantia	L 26	# 41
Suggestedl	Remedy				Comment 7		Comment Status X		
Replac	ce the test method	ology with that from 120D.3.1	.6.			51	Deterministic jitter test desc	ription needs to be	modified to reflect
Proposed F	Response	Response Status 0					est patterns available.		
					Comme	ents tagged JIT	FER TEST MODE should be	treated as a group	
					Suggestedl	Remedv			

To: "Jitter measurements in this subclause are performed with the transmitter enabled in Master timing mode in test mode 2, with either the JP03A or JP03B pattern, and timed with a local clock."

Proposed Response Response Status **O**

C/ 149 SC 149.5.2.3.2

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial \

C/ 149 SC 149.5.2.3.2 P 158 L 29 # 71	C/ 149 SC 149.5.2.4 P158 L 41 #	265
Vienckowski, Natalie General Motors	den Besten, Gerrit NXP Semiconductors	
Comment Type E Comment Status X	Comment Type T Comment Status X	
The word "Clause" doesn't belong before a subclause reference.	The transmit power range was shifted from -1dB/+2dB to -1.5dB/+1.5dB based on	
uggestedRemedy	concerns on the lower limit for 10Gbps operation. However this shift makes the up unnessarilly more critical for lower speed operation.	oper limit
Change: Clause 94.3.12.6.1 to 94.3.12.6.1. Also, "1" should be made part of the "External	SuggestedRemedy	
reference".	Change the upper limit back to +2dB.	
Proposed Response Response Status O		
	Proposed Response Response Status O	
C/ 149 SC 149.5.2.3.2 P158 L 29 # 28	 	
Anslow, Pete Ciena	C/ 149 SC 149.5.2.4 P158 L 42 #	73
Comment Type E Comment Status X	Wienckowski, Natalie General Motors	
"as specified in Clause 94.3.12.6.1" should be "as specified in 94.3.12.6.1" and the final "1"	Comment Type E Comment Status X	
should be in forest green font.	Comment Type E Comment Status X unnecessary article	
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2"		
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" SuggestedRemedy	unnecessary article SuggestedRemedy Change: using the test fixture 4	
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" SuggestedRemedy Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the	unnecessary article SuggestedRemedy Change: using the test fixture 4 To: using test fixture 4	
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" SuggestedRemedy	unnecessary article SuggestedRemedy Change: using the test fixture 4	
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" SuggestedRemedy Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the character tag External to the final "1". On line 35 change "as specified in Clause 94.3.12.6.2" to "as specified in 94.3.12.6.2".	unnecessary article SuggestedRemedy Change: using the test fixture 4 To: using test fixture 4	
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" <i>tuggestedRemedy</i> Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the character tag External to the final "1". On line 35 change "as specified in Clause 94.3.12.6.2" to "as specified in 94.3.12.6.2".	unnecessary article SuggestedRemedy Change: using the test fixture 4 To: using test fixture 4 Proposed Response Response Status O	186
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" SuggestedRemedy Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the character tag External to the final "1". On line 35 change "as specified in Clause 94.3.12.6.2" to "as specified in 94.3.12.6.2". Proposed Response Response Status O	unnecessary article SuggestedRemedy Change: using the test fixture 4 To: using test fixture 4 Proposed Response Response Status O	186
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" SuggestedRemedy Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the character tag External to the final "1". On line 35 change "as specified in Clause 94.3.12.6.2" to "as specified in 94.3.12.6.2". Proposed Response Response Status O Cl 149 SC 149.5.2.3.2 P 158 L 35 # 72	unnecessary article SuggestedRemedy Change: using the test fixture 4 To: using test fixture 4 Proposed Response Response Status O C/ 149 SC 149.5.3.1 P160 L11 #	186
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" SuggestedRemedy Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the character tag External to the final "1". On line 35 change "as specified in Clause 94.3.12.6.2" to "as specified in 94.3.12.6.2". Proposed Response Response Status O 0 C/ 149 SC 149.5.2.3.2 P 158 L 35 # 72 Wienckowski, Natalie General Motors	unnecessary article SuggestedRemedy Change: using the test fixture 4 To: using test fixture 4 Proposed Response Response Status O C/ 149 SC 149.5.3.1 P 160 L 11 # Brandt, David Rockwell Automation Comment Type T Comment Status X I don't see where the frame error ratio comes from. If I assume this is actual MAC	data with
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" SuggestedRemedy Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the character tag External to the final "1". On line 35 change "as specified in Clause 94.3.12.6.2" to "as specified in 94.3.12.6.2". Proposed Response Response Status O O Cl 149 SC 149.5.2.3.2 P 158 L 35 # 72 Wienckowski, Natalie General Motors	unnecessary article SuggestedRemedy Change: using the test fixture 4 To: using test fixture 4 Proposed Response Response Status O C/ 149 SC 149.5.3.1 P 160 L 11 # Brandt, David Rockwell Automation Comment Type T Comment Status X	data with
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" SuggestedRemedy Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the character tag External to the final "1". On line 35 change "as specified in Clause 94.3.12.6.2" to "as specified in 94.3.12.6.2". Proposed Response Response Status O C/ 149 SC 149.5.2.3.2 P 158 L 35 # [72] Wienckowski, Natalie General Motors Comment Type E Comment Status X The word "Clause" doesn't belong before a subclause reference.	unnecessary article SuggestedRemedy Change: using the test fixture 4 To: using test fixture 4 Proposed Response Response Status O C/ 149 SC 149.5.3.1 P 160 L 11 # Brandt, David Rockwell Automation Comment Type T Comment Status X I don't see where the frame error ratio comes from. If I assume this is actual MAC addresses and FCS, I get FER = 1e-12 * (800 + 22) * 8 = 6.6e-9. I note that 149.5	data with
should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2" SuggestedRemedy Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the character tag External to the final "1". On line 35 change "as specified in Clause 94.3.12.6.2" to "as specified in 94.3.12.6.2". Proposed Response Response Status O Cl 149 SC 149.5.2.3.2 P 158 L 35 # 72 Wienckowski, Natalie General Motors Comment Type E Comment Status X	unnecessary article SuggestedRemedy Change: using the test fixture 4 To: using test fixture 4 Proposed Response Response Status O C/ 149 SC 149.5.3.1 P 160 L 11 # Brandt, David Rockwell Automation Comment Type T Comment Status X I don't see where the frame error ratio comes from. If I assume this is actual MAC addresses and FCS, I get FER = 1e-12* (800 + 22)*8 = 6.6e-9. I note that 149.5 not add any MAC farme overhead.	data with

C/ 149 SC 149.5.3.1

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V 149 SC 149.5.	3.2	P 160	L 17	# 74	C/ 149	SC 149.7.1.4	1	P 164	L 32	# 244
Vienckowski, Natalie		General Motors	3		Zimmerma	n, George		ADI, APL Gp,	Aquantia, BMW	, Cisco, Commscope,
omment Type E	Comment	Status X			Comment	Туре Т	Comment S	Status X		
Missing Oxford comr uggestedRemedy Change: Gaussian c To: Gaussian distrib	distribution, bandw				seems attenua	contradictory - in ation. I believe we with the parameter	t implies that the e are requiring tl	e annex contain hat the cable pa	ng attenuation tes s other ways to te ass testing accord or else Annex 149	ding to the IEC
roposed Response	Response S	Status O			Suggested	Remedy				
andt, David	Comment	Rockwell Auton Status X	nation		as spe	ation is tested cified in IEC 621 ation test methoc		axial tube in tub	e method. Additi	onal coupling
Consider whether the	be counted as 14 urther correction a	9.5.3.2 "frame los after RS-FEC. Bo	ss ratio" when th oth use the same	ney get to the MAC? e link segment	to: "In IEC 62	2153-4-7 triaxial t gment shall mee 24)."	noise at the rec tube in tube met	hod as specifie ttenuation value		n tested using the , the MultiGBASE-T1 using Equation
crossing XGMII also There should be no f specified in 149.7. <i>IggestedRemedy</i> Consider whether the used.	be counted as 14 urther correction a	l9.5.3.2 "frame lo: after RS-FEC. Bo gy, packet sizes a	ss ratio" when th oth use the same	ney get to the MAC? e link segment	to: "In IEC 62 link se (149–2 Proposed i	order to limit the 2153-4-7 triaxial t gment shall mee 24)." <i>Response</i>	noise at the rec tube in tube met t the coupling at <i>Response</i> S	hod as specifie ttenuation value Status O	d in Annex 149A s determined by	, the MultiGBASE-T1 using Equation
crossing XGMII also There should be no f specified in 149.7. IggestedRemedy Consider whether the used.	be counted as 14 urther correction a e same terminolog	l9.5.3.2 "frame lo: after RS-FEC. Bo gy, packet sizes a	ss ratio" when th oth use the same	ney get to the MAC? e link segment	to: "In IEC 62 link se (149–2 Proposed I CI 149	order to limit the 2153-4-7 triaxial t gment shall mee 24)." <i>Response</i> SC 149.8.2. 1	noise at the rec tube in tube met t the coupling at <i>Response</i> S	hod as specifie ttenuation value Status 0 P 163	d in Annex 149A s determined by <i>L</i> 20	, the MultiGBASE-T1
crossing XGMII also There should be no f specified in 149.7. SuggestedRemedy Consider whether the	be counted as 14 urther correction a e same terminolog	l9.5.3.2 "frame lo: after RS-FEC. Bo gy, packet sizes a	ss ratio" when th oth use the same	ney get to the MAC? e link segment	to: "In IEC 62 link se (149–2 Proposed i	order to limit the 2153-4-7 triaxial t gment shall mee 24)." Response SC 149.8.2. 1 n, Gerrit	noise at the rec tube in tube met t the coupling at <i>Response</i> S	hod as specifie ttenuation value Status O P163 NXP Semicon	d in Annex 149A s determined by <i>L</i> 20	, the MultiGBASE-T1 using Equation
crossing XGMII also There should be no f specified in 149.7. SuggestedRemedy Consider whether the used.	be counted as 14 urther correction a e same terminolog	l9.5.3.2 "frame lo: after RS-FEC. Bo gy, packet sizes a	ss ratio" when th oth use the same	ney get to the MAC? e link segment	to: "In IEC 62 link se (149–2 Proposed I C/ 149 den Bester Comment The M return therefo	order to limit the 2153-4-7 triaxial t gment shall mee 24)." Response SC 149.8.2.1 n, Gerrit Type TR DI return loss at loss which gets to ore doesn't worse ad MDI return loss as to relax the MI	noise at the rec tube in tube met t the coupling at <i>Response</i> S <i>Comment</i> S high frequency twice attenuated on the RL/IL ratio s are not well b	hod as specifie ttenuation value Status O P163 NXP Semicon Status X is tighter than n H by insertion los o. I think the cui	d in Annex 149A s determined by <i>L</i> 20 aductors necessary IMO. T ss. This return lo	the MultiGBASE-T1 using Equation # 249
crossing XGMII also There should be no f specified in 149.7. SuggestedRemedy Consider whether the used.	be counted as 14 urther correction a e same terminolog	l9.5.3.2 "frame lo: after RS-FEC. Bo gy, packet sizes a	ss ratio" when th oth use the same	ney get to the MAC? e link segment	to: "In IEC 62 link se (149–2 Proposed I Cl 149 den Bester Comment The M return therefo loss ar propos Suggested Formu	order to limit the 2153-4-7 triaxial t gment shall mee 24)." Response SC 149.8.2.1 n, Gerrit Type TR DI return loss at loss which gets to re doesn't worse ad MDI return loss at to relax the ME (Remedy) la 12-10log(f/300	noise at the rec tube in tube met t the coupling at <i>Response</i> S <i>Comment</i> S high frequency twice attenuated on the RL/IL ratio s are not well bo DI return loss.	hod as specifie ttenuation value Status O P163 NXP Semicon Status X is tighter than n I by insertion los o. I think the cui alanced for a lo 10-10*log(f/300	d in Annex 149A s determined by <i>L</i> 20 aductors necessary IMO. T ss. This return lo rrently specified I	, the MultiGBASE-T using Equation # 249 the MDI is far-end ss component ink segment return would like to 3000S

C/ 149 SC 149.8.2.1

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C/ 149 SC 149.8	2.1 P 163	L 23	# 248	C/ 149	SC 149.8.2.1		P 168	L 2	# <u>2</u> 47
den Besten, Gerrit	NXP Sem	iconductors		den Besten,	Gerrit	1	NXP Semicono	ductors	
Comment Type T	Comment Status X			Comment Ty	/pe TR	Comment Sta	atus X		
The MDI curve is dis	continous at 500MHz: 20dB	versus 19.78dB.				one MDI return lo			
SuggestedRemedy Implicitly fixed by pro	oposal to relax MDI return loss	s a bit. See next item		Otherwi	se these lower s		erspecified. Th	ie easiest way to	2.5Gbps and 5Gbps. o achieve this is by
Proposed Response	Response Status O			SuggestedR					
				Change	-				
				10> 1					
C/ 149 SC 149.8	2.1 <i>P</i> 168	L 1	# 268	500> 3000>					
Stewart, Heath	Analog De	evices		4000>					
Comment Type TR	Comment Status X								
	as specified considering a 2ul			Remove For 2.50		BASE-T1, and 10)GBASE-T1, t	he maximum ap	plicable frequency fo
total). Need to revise value. Otherwise eith SuggestedRemedy	as specified considering a 2ul the low frequency MDI return her specification undermines th 0719" Slide 13 and 16	n loss mask to be in a	agreement with this	For 2.50	BASE-T1, 5GE return loss is 4			he maximum ap	plicable frequency fo
total). Need to revise value. Otherwise eith SuggestedRemedy See "stewart_3ch_0	the low frequency MDI return ner specification undermines the specification undermines the specification undermines the specific at the specif	n loss mask to be in a	agreement with this	For 2.50 the MDI	BASE-T1, 5GE return loss is 4	000 × S MHz. Response Sta		he maximum ap	plicable frequency fo
total). Need to revise value. Otherwise eith SuggestedRemedy See "stewart_3ch_0	the low frequency MDI return her specification undermines the 1_0719" Slide 13 and 16	n loss mask to be in a	agreement with this	For 2.50 the MDI Proposed R	BASE-T1, 5GE return loss is 4 esponse SC 149.9.2.2	000 × S MHz. Response Sta	atus O	L 41	
total). Need to revise value. Otherwise eith SuggestedRemedy See "stewart_3ch_0 Proposed Response	the low frequency MDI return her specification undermines the 1_0719" Slide 13 and 16 <i>Response Status</i> O	n loss mask to be in a he relavance of the c	agreement with this other.	For 2.5C the MDI Proposed R CI 149	BBASE-T1, 5GE return loss is 4 esponse SC 149.9.2.2	000 × S MHz. Response Sta	P 169 Rockwell Autor	L 41	
total). Need to revise value. Otherwise eith SuggestedRemedy See "stewart_3ch_0 Proposed Response	the low frequency MDI return ner specification undermines the 1_0719" Slide 13 and 16 <i>Response Status</i> O 2.1 <i>P</i> 168	n loss mask to be in a he relavance of the c	agreement with this	For 2.5C the MDI Proposed R C/ 149 Brandt, Davi Comment Ty	BBASE-T1, 5GE return loss is 4 esponse SC 149.9.2.2 d /pe T	000 × S MHz. Response Sta	P169 Rockwell Autor atus X	L 41 mation	# [<u>188</u>
total). Need to revise value. Otherwise eith SuggestedRemedy See "stewart_3ch_0 Proposed Response C/ 149 SC 149.8. Stewart, Heath	the low frequency MDI return ner specification undermines the 1_0719" Slide 13 and 16 <i>Response Status</i> O 2.1 <i>P</i> 168 Analog De	n loss mask to be in a he relavance of the c	agreement with this other.	For 2.5C the MDI Proposed R C/ 149 Brandt, Davi Comment Ty	BASE-T1, 5GE return loss is 4 esponse SC 149.9.2.2 d /pe T ragraph has 2 sl	000 × S MHz. Response Sta Gomment Sta	P169 Rockwell Autor atus X	L 41 mation	# [<u>188</u>
total). Need to revise value. Otherwise eith SuggestedRemedy See "stewart_3ch_0 Proposed Response Cl 149 SC 149.8. Stewart, Heath Comment Type TR High frequency Retu coupling inductors a PHY, allowance nee	the low frequency MDI return her specification undermines the 1_0719" Slide 13 and 16 <i>Response Status</i> O 2.1 <i>P</i> 168 <i>Analog De</i> <i>Comment Status</i> X arn Loss was presented considered considered and MDI connectors. However, ds to be made for ESD clamping	L 1 evices dering the best perfo to provide additiona ing devices. Need to	agreement with this other. # 269 prmance of power protection to the provise the high	For 2.5C the MDI Proposed R CI 149 Brandt, Davi Comment Ty This par SuggestedR Suggest Change Change	BASE-T1, 5GE return loss is 4 esponse SC 149.9.2.2 d /pe T ragraph has 2 sl /emedy : the "shalls" be 1st: "shall", To:	000 × S MHz. <i>Response Sta</i> <i>I</i> <i>Comment St</i> halls that apply to	P 169 Rockwell Autor atus X o entire produc at in the spirit c able to"	L 41 mation ts. The seems c of the last senter	# 1 <u>88</u> but of our scope.
total). Need to revise value. Otherwise eith SuggestedRemedy See "stewart_3ch_0 Proposed Response Cl 149 SC 149.8. Stewart, Heath Comment Type TR High frequency Retu coupling inductors a PHY, allowance nee frequency mask to a	the low frequency MDI return her specification undermines the 1_0719" Slide 13 and 16 <i>Response Status</i> O 2.1 <i>P</i> 168 <i>Analog De</i> <i>Comment Status</i> X Irrn Loss was presented considered considered considered considered considered considered considered model and the state of the state	L 1 evices dering the best perfo to provide additiona ing devices. Need to	agreement with this other. # 269 prmance of power protection to the provise the high	For 2.5C the MDI Proposed R CI 149 Brandt, Davi Comment Ty This par SuggestedR Suggest Change Change	BASE-T1, 5GE return loss is 4 esponse SC 149.9.2.2 d /pe T agraph has 2 sl emedy : the "shalls" be 1st: "shalls" be 1st: "shalls" be tst: shalls be tst: shall be tst.	000 × S MHz. Response Sta I Comment Sta halls that apply to replaced with tex "is expected be a ested", To: "is ex	P169 Rockwell Autor atus X e entire produc t in the spirit o able to" pected to allow	L 41 mation ts. The seems c of the last senter	# [<u>188</u> but of our scope. Ince of the paragraph.
total). Need to revise value. Otherwise eith SuggestedRemedy See "stewart_3ch_0 Proposed Response Cl 149 SC 149.8. Stewart, Heath Comment Type TR High frequency Retu coupling inductors a PHY, allowance nee frequency mask to a SuggestedRemedy	the low frequency MDI return her specification undermines the 1_0719" Slide 13 and 16 <i>Response Status</i> O 2.1 <i>P</i> 168 Analog De <i>Comment Status</i> X Irn Loss was presented consist and MDI connectors. However, ds to be made for ESD clampic comodate for additional capa	L 1 evices dering the best perfo to provide additiona ing devices. Need to	agreement with this other. # 269 prmance of power protection to the provise the high	For 2.50 the MDI Proposed R Cl 149 Brandt, Davi Comment Ty This par SuggestedR Suggest Change Change Delete: I	BASE-T1, 5GE return loss is 4 esponse SC 149.9.2.2 d /pe T agraph has 2 sl emedy : the "shalls" be 1st: "shalls" be 1st: "shalls" be tst: shalls be tst: shall be tst.	000 x S MHz. Response Sta Comment Sta halls that apply to replaced with tex "is expected be a	P169 Rockwell Autor atus X e entire produc t in the spirit o able to" pected to allow	L 41 mation ts. The seems c of the last senter	# [<u>188</u> but of our scope. Ince of the paragraph.
total). Need to revise value. Otherwise eith SuggestedRemedy See "stewart_3ch_0 Proposed Response Cl 149 SC 149.8. Stewart, Heath Comment Type TR High frequency Retu coupling inductors a PHY, allowance nee frequency mask to a SuggestedRemedy	the low frequency MDI return her specification undermines the 1_0719" Slide 13 and 16 <i>Response Status</i> O 2.1 <i>P</i> 168 <i>Analog De</i> <i>Comment Status</i> X arn Loss was presented considered considered and MDI connectors. However, ds to be made for ESD clamping	L 1 evices dering the best perfo to provide additiona ing devices. Need to	agreement with this other. # 269 prmance of power protection to the provise the high	For 2.50 the MDI Proposed R Cl 149 Brandt, Davi Comment Ty This par SuggestedR Suggest Change Change Delete: I	BASE-T1, 5GE return loss is 4 esponse SC 149.9.2.2 d /pe T agraph has 2 sl emedy : the "shalls" be 1st: "shalls" be 1st: "shalls" be tst: shalls be tst: shall be tst.	000 × S MHz. Response Sta I Comment Sta halls that apply to replaced with tex "is expected be a ested", To: "is ex	P169 Rockwell Autor atus X e entire produc t in the spirit o able to" pected to allow	L 41 mation ts. The seems c of the last senter	# [<u>188</u> but of our scope. Ince of the paragraph

C/ 149 SC 149.9.2.2

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C/ 149 SC 149.1	1.3 P172	L6		# 29	C/ 149	SC 149.A.2	P 189	L 18	# 130
Anslow, Pete	Ciena				Shariff, Ma	asood	CommScope		
Comment Type E	Comment Status	(Comment	Type TR	Comment Status X		
"AN" and "EEE" ap "*EEE" (preceded b	pear in the Status column in by "*")	149.11.4.1, so t	hey should	be "*AN" and	segme	ents and cannot b	en Crosstalk defines coupling be measured using coupling att s an illustration for alien cross	enuation test fixt	ures. Figure 149-41
SuggestedRemedy Change "AN" and "	EEE" to "*AN" and "*EEE"				Clause	e 97B for addition	al details. There is no reference		
Proposed Response	Response Status)			differe	Coupling and sc ntial link segmen	reening attenuation are the mai t to define its alien crosstalk ar	nd EMC propertie	es. To: Coupling
C/ 149 SC 149.1	1.4.1 P 172 Ciena	L 28	3	# 30	to defi	0	on are the main parameters for	r a shielded diffe	rential link segment
Comment Type T	Comment Status	c			Proposed	Response	Response Status O		
Some issue in even	y other subclause of the Cla	isa 1/10 PICS an			C/ 149	SC 149.A.4	P 191	L 8	# 131
PICS SuggestedRemedy In 149.11.4.1, every PICS for items with "M" change the Sup "O" change the Sup "Something:M" cha "Something:O" cha	v other subclause of the Clau	s [] N/A []" s [] N/A []"	d also the <i>i</i>		Shariff, Ma Comment Correc Suggested From: to the	Type ER ct standards spec IRemedy Placing the term PCB, is not allow ctor in order to	CommScope Comment Status X ifications avoiding ambiguity. nation resistors inside the content ed. To: Termination resiston nit the transition to the PCB. Response Status O		
PICS SuggestedRemedy In 149.11.4.1, every PICS for items with "M" change the Sup "O" change the Sup "Something:M" cha "Something:O" cha Proposed Response C/ 149 SC 149.1 Anslow, Pete	v other subclause of the Claustatus of: opport entry to "Yes []" opport entry to "Yes [] No []" nge the Support entry to "Yes nge the Support entry to "Yes Response Status 1.4.2.1 P174 Ciena	use 149 PICS an s [] N/A []" s [] No [] N/A [] D 	d also the <i>i</i>		Shariff, Ma Comment Correc Suggested From: to the connec Proposed Cl 149A Dawe, Piel	Type ER et standards spect IRemedy Placing the term PCB, is not allow ctor in order to out Response SC 149A.1 rs	Comment Status X ifications avoiding ambiguity. nation resistors inside the com ed. To: Termination resisto nit the transition to the PCB. <i>Response Status</i> O <i>P</i> 189 Mellanox		
PICS SuggestedRemedy In 149.11.4.1, every PICS for items with "M" change the Sup "O" change the Sup "Something:M" cha "Something:O" cha Proposed Response CI 149 SC 149.1 Anslow, Pete Comment Type E The entries in the s	y other subclause of the Claustatus of: opport entry to "Yes []" opport entry to "Yes [] No []" nge the Support entry to "Ye nge the Support entry to "Ye Response Status (1.4.2.1 P174	use 149 PICS an s [] N/A []" s [] No [] N/A []) . <i>L</i> 3	d also the a	Annex 149A	Shariff, Ma Comment Correc Suggested From: to the conner Proposed C/ 149A Dawe, Piel Comment "This a	Type ER et standards spect IRemedy Placing the term PCB, is not allow ctor in order to or Response SC 149A.1 rs Type TR	Comment Status X ifications avoiding ambiguity. ination resistors inside the com ed. To: Termination resisto nit the transition to the PCB. <i>Response Status</i> O <i>P</i> 189 Mellanox <i>Comment Status</i> X the test methodologies that sha	rs shall not be pl	aced inside the # 206
PICS SuggestedRemedy In 149.11.4.1, every PICS for items with "M" change the Sup "O" change the Sup "Something:M" cha "Something:O" cha Proposed Response CI 149 SC 149.1 Anslow, Pete Comment Type E The entries in the s SuggestedRemedy	y other subclause of the Claustatus of: opport entry to "Yes []" opport entry to "Yes [] No []" nge the Support entry to "Ye nge the Support entry to "Ye <i>Response Status</i> 1.4.2.1 <i>P</i> 17 4 Ciena <i>Comment Status</i> subclause column on page 1	use 149 PICS an s [] N/A []" s [] No [] N/A [] o . L 3 C 74 wrap across f	d also the ,]" two lines	Annex 149A # 3 <u>1</u>	Shariff, Ma Comment Correc Suggested From: to the conner Proposed C/ 149A Dawe, Piel Comment "This a	Type ER et standards spect Remedy Placing the term PCB, is not allow ctor in order to or Response SC 149A.1 rs Type TR annex describes no requirement to	Comment Status X ifications avoiding ambiguity. ination resistors inside the com ed. To: Termination resisto nit the transition to the PCB. <i>Response Status</i> O <i>P</i> 189 Mellanox <i>Comment Status</i> X the test methodologies that sha	rs shall not be pl	aced inside the # 206
PICS SuggestedRemedy In 149.11.4.1, every PICS for items with "M" change the Sup "O" change the Sup "O" change the Sup "Something:M" chan "Something:M" chan "Something:O" chan Proposed Response CI 149 SC 149.1 Anslow, Pete Comment Type E The entries in the so SuggestedRemedy	y other subclause of the Claustatus of: opport entry to "Yes []" opport entry to "Yes [] No []" nge the Support entry to "Ye nge the Support entry to "Ye <i>Response Status</i> 1.4.2.1 <i>P</i> 174 Ciena <i>Comment Status</i>	use 149 PICS an s [] N/A []" s [] No [] N/A [] D	d also the ,]" two lines	Annex 149A # 3 <u>1</u>	Shariff, Ma Comment Correc Suggested From: to the connec Proposed Cl 149A Dawe, Piel Comment "This a spec, fi	Type ER et standards spect Remedy Placing the term PCB, is not allow ctor in order to or Response SC 149A.1 rs Type TR annex describes no requirement to	Comment Status X ifications avoiding ambiguity. ination resistors inside the com- ed. To: Termination resisto nit the transition to the PCB. <i>Response Status</i> O <i>P</i> 189 Mellanox <i>Comment Status</i> X the test methodologies that sha o measure.	rs shall not be pl	aced inside the # 206

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7 149A SC 149A.2	P 189	L 26	# 75	C/ 149A SC 149A.3	P 189	L 31	# 76
/ienckowski, Natalie	General Motors	5		Wienckowski, Natalie	General Motor	rs	
omment Type E	Comment Status X			Comment Type E	Comment Status X		
Per the IEEE-SA Style the basic value and the	Manual, "If tolerances are provid tolerance"	ded, the unit sha	II be given with both	unnecessary comma SuggestedRemedy			
uggestedRemedy				,	presentation of the components,	that are used	
After 23, add the degree	e symbol and then "C".				ntation of the components that a		
roposed Response	Response Status O			Proposed Response	Response Status O		
149A SC 149A.2	P 189	L 26	# 234	C/ 149A SC 149A.3	P189	L 31	# 235
mmerman, George	ADI, APL Gp, /	Aquantia, BMW,	, Cisco, Commscope,	Zimmerman, George	ADI, APL Gp,	Aquantia, BMW	/, Cisco, Commscop
omment Type E	Comment Status X			Comment Type E	Comment Status X		
"Measurements to be p	erformed 75%" isn't a sentend	ce.			ssembly is intended to be a sim		
					used within a wiring harness, wh	nich are cable, P	CB connectors, and
uggestedRemedy	s to be performed" to "Measurer	ments are perfor	med"	inline connectors." is g		nich are cable, P	CB connectors, and
SuggestedRemedy Change "Measurements	s to be performed" to "Measurer	ments are perfor	med"	inline connectors." is g SuggestedRemedy	rammatically awkward		
uggestedRemedy Change "Measurements	s to be performed" to "Measurer Response Status O	ments are perfor	med"	inline connectors." is g SuggestedRemedy Suggest changing to " representation of the c	rammatically awkward The reference cable assembly is omponents used within a wiring	s intended to be	a simplified
uggestedRemedy Change "Measurements roposed Response	•	ments are perfor	med" # 207	inline connectors." is g SuggestedRemedy Suggest changing to " representation of the c connectors, and inline	rammatically awkward The reference cable assembly is omponents used within a wiring connectors."	s intended to be	a simplified
uggestedRemedy Change "Measurements roposed Response / 149A SC 149A.2	Response Status O			inline connectors." is g SuggestedRemedy Suggest changing to " representation of the c	rammatically awkward The reference cable assembly is omponents used within a wiring	s intended to be	a simplified
uggestedRemedy Change "Measurements roposed Response 1 149A SC 149A.2 awe, Piers	Response Status 0			inline connectors." is g SuggestedRemedy Suggest changing to " representation of the c connectors, and inline Proposed Response	rammatically awkward The reference cable assembly is omponents used within a wiring connectors." <i>Response Status</i> O	s intended to be harness. Thes	a simplified e include cable, PCB
uggestedRemedy Change "Measurements roposed Response 1 149A SC 149A.2 awe, Piers comment Type TR This isn't a test spec. F	Response Status O P189 Mellanox Comment Status X Products have to work over a mu	L 26	# 207	inline connectors." is g SuggestedRemedy Suggest changing to " representation of the c connectors, and inline	rammatically awkward The reference cable assembly is omponents used within a wiring connectors."	s intended to be	a simplified
uggestedRemedy Change "Measurements roposed Response / 149A SC 149A.2 awe, Piers omment Type TR	Response Status O P189 Mellanox Comment Status X Products have to work over a mu	L 26	# 207	inline connectors." is g SuggestedRemedy Suggest changing to " representation of the c connectors, and inline Proposed Response	rammatically awkward The reference cable assembly is omponents used within a wiring connectors." <i>Response Status</i> O	s intended to be harness. Thes	a simplified e include cable, PCB
IggestedRemedy Change "Measurements oposed Response 149A SC 149A.2 awe, Piers omment Type TR This isn't a test spec. F is assured is up the the	Response Status O P189 Mellanox Comment Status X Products have to work over a mu	L 26	# 207	inline connectors." is g SuggestedRemedy Suggest changing to " representation of the c connectors, and inline Proposed Response	rammatically awkward The reference cable assembly is omponents used within a wiring connectors." <i>Response Status</i> O <i>P</i> 189	s intended to be harness. Thes	a simplified e include cable, PCB
uggestedRemedy Change "Measurements roposed Response / 149A SC 149A.2 awe, Piers omment Type TR This isn't a test spec. F is assured is up the the uggestedRemedy	Response Status O P189 Mellanox Comment Status X Products have to work over a mu	L 26 uch wider range	# 207	inline connectors." is g SuggestedRemedy Suggest changing to " representation of the c connectors, and inline Proposed Response Cl 149A SC 149A.3 Shariff, Masood	rammatically awkward The reference cable assembly is omponents used within a wiring connectors." <i>Response Status</i> O <i>P</i> 189 CommScope <i>Comment Status</i> X	s intended to be harness. Thes	a simplified e include cable, PCB
UggestedRemedy Change "Measurements roposed Response 1 149A SC 149A.2 awe, Piers comment Type TR This isn't a test spec. F is assured is up the the UggestedRemedy Delete "Measurements	Response Status O P189 Mellanox Comment Status X Products have to work over a mussimplementer.	L 26 uch wider range	# 207	inline connectors." is g SuggestedRemedy Suggest changing to " representation of the c connectors, and inline Proposed Response C/ 149A SC 149A.3 Shariff, Masood Comment Type ER	rammatically awkward The reference cable assembly is omponents used within a wiring connectors." <i>Response Status</i> O <i>P</i> 189 CommScope <i>Comment Status</i> X	s intended to be harness. Thes	a simplified e include cable, PCE
SuggestedRemedy Change "Measurements Proposed Response C/ 149A SC 149A.2 Dawe, Piers Comment Type TR This isn't a test spec. F is assured is up the the SuggestedRemedy	Response Status O P189 Mellanox Comment Status X Products have to work over a must implementer. to be performed at 23 ± 5°C and	L 26 uch wider range	# 207	inline connectors." is g SuggestedRemedy Suggest changing to " representation of the c connectors, and inline Proposed Response CI 149A SC 149A.3 Shariff, Masood Comment Type ER Incomplete and ambig SuggestedRemedy From: This also ensur- shielding, in order to re screening attenuation.	The reference cable assembly is omponents used within a wiring connectors." <i>Response Status</i> O <i>P</i> 189 CommScope <i>Comment Status</i> X uous statement es that connectors and cable are pach sufficient coupling and To: This also ensures that constileding, in order to reach sufficient	s intended to be harness. Thes <i>L</i> 32 e matched in term	a simplified e include cable, PCB # <u>132</u> ms of balance and able are matched in

C/ 149A SC 149A.3

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C/ 149A SC 149A.5	P 192	L 2	# 32	C/ 149B SC 149B	P 196	L 4	# 199
Anslow, Pete	Ciena			Dawe, Piers	Mellanox		
Comment Type E	Comment Status X			Comment Type TR	Comment Status X		
The annex title is quoted in annex title.	four places in the PICS an	d each should m	atch the actual		with state diagrams - that's crazy	!	
SuggestedRemedy In the title of 149A.5, the first and the title of 149A.5.4 cha "Coupling attenuation test m	ange:	e top row of the	able in 149A.5.2.2,	SuggestedRemedy Remove the state dia presumably) Proposed Response	grams or change the annex's state Response Status O	us to normative (b	out optional,
"Coupling and screening att	tenuation test methodology	n					
Proposed Response F	Response Status O			C/ 149B SC 149B.1	P 196	L 12	# 181
				Baggett, Tim	Microchip		
Text of column Feature see same table. SuggestedRemedy Please align the font size			# 1	Comment Type E Mispelling: "MutliGBa Occurs also on line 4 SuggestedRemedy Search document for Proposed Response		"MultiGBASE"	
Proposed Response F	Response Status O			C/ 149B SC 149B.1 Souvignier, Tom	P 196 Broadcom	L 17	# 283
C/ 149A SC 149A.5.4	P 195 Ciena	L 1	# 33	Comment Type ER There is a typo on lin	Comment Status X		
,	,	· /			aded to 3.2318 and 3.23.19 for tra 2318 and 3.2319 for transmissior		
SuggestedRemedy Remove the blank pages be				Proposed Response	Response Status O		

C/ 149B SC 149B.1

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C/ 149B SC 149B.1	P 196	L 18	# 284	C/ 149B SC 149B.3.	2.1 <i>P</i> 199	L 1	# 274
Souvignier, Tom	Broadcom			Tu, Mike	Broadcom		
Comment Type ER	Comment Status X			Comment Type T	Comment Status X		
There is a typo on line 18	3.				st_rec_clear" does not match to	o any register bits	s in Table 149-9. It
SuggestedRemedy				•	ate of the "tx_clear_rec".		
	from 3.2320 and 3.23.21"			SuggestedRemedy	4 to 5		
To "is read from 3.232				Propose to delete line			
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 149B SC 149B.2.7	P 197	L 49	# 182	C/ 149B SC 149B.3.	2.1 <i>P</i> 199	L 7	# 271
Baggett, Tim	Microchip			Tu, Mike	Broadcom		
Comment Type E	Comment Status X			Comment Type T	Comment Status X		
	d yet before this section, and w	ould benefit fron	n being defined in	Variable name should	be consistent with Table 149-9	PCS control/stat	us variable name
parenthesis.				SuggestedRemedy			
SuggestedRemedy Change:				Change variable name	from "rx_clear_rec" to "mr_tx_	clear_rec".	
"REC in OAM<13:12><7 To:				Proposed Response	Response Status O		
"REC (Receive Error Co	ounter) in OAM<13:12><7:0>"			C/ 149B SC 149B.3.	2.1 <i>P</i> 199	L 13	# 272
						210	# <u>212</u>
Or: add a line referring th	ne reader to section 149B.2.9			Tu Miko	Broadcom		
°,				Tu, Mike Comment Type T	Broadcom Comment Status X		
Also on Page 198, Line 4	4			Comment Type T	Broadcom Comment Status X be consistent with Table 149-9	PCS control/stat	us variable name
Also on Page 198, Line 4				<i>Comment Type</i> T Variable name should	Comment Status X	PCS control/stat	us variable name
Also on Page 198, Line 4 Proposed Response	4 Response Status O			Comment Type T Variable name should SuggestedRemedy	Comment Status X		us variable name
Also on Page 198, Line 4 Proposed Response Cl 149B SC 149B.2.9	4 Response Status O P 198	L 13	# 203	Comment Type T Variable name should SuggestedRemedy	Comment Status X be consistent with Table 149-9		us variable name
Also on Page 198, Line 4 Proposed Response C/ 149B SC 149B.2.9 Dawe, Piers	4 Response Status O P198 Mellanox	L 13	# 203	Comment Type T Variable name should SuggestedRemedy Change variable name	Comment Status X be consistent with Table 149-9 from "tx_clear_rec" to "mr_tx_d		us variable name
Also on Page 198, Line 4 Proposed Response C/ 149B SC 149B.2.9 Dawe, Piers Comment Type T	4 Response Status O P 198 Mellanox Comment Status X	L 13	# 203	Comment Type T Variable name should SuggestedRemedy Change variable name Proposed Response	Comment Status X be consistent with Table 149-9 from "tx_clear_rec" to "mr_tx_o Response Status O	clear_rec".	
Also on Page 198, Line 4 Proposed Response Cl 149B SC 149B.2.9 Dawe, Piers Comment Type T How is the error count log	4 Response Status O P198 Mellanox	L 13	# <mark>203</mark>	Comment Type T Variable name should SuggestedRemedy Change variable name Proposed Response Cl 149B SC 149B.3.	Comment Status X be consistent with Table 149-9 from "tx_clear_rec" to "mr_tx_o Response Status O 2.1 P199		us variable name # 273
Also on Page 198, Line 4 Proposed Response Cl 149B SC 149B.2.9 Dawe, Piers Comment Type T How is the error count los SuggestedRemedy	4 Response Status O P 198 Mellanox Comment Status X paded into these two bytes?	L 13	# 203 I	Comment Type T Variable name should SuggestedRemedy Change variable name Proposed Response Cl 149B SC 149B.3. Tu, Mike	Comment Status X be consistent with Table 149-9 from "tx_clear_rec" to "mr_tx_o Response Status O 2.1 P 199 Broadcom	clear_rec".	
Also on Page 198, Line 4 Proposed Response Cl 149B SC 149B.2.9 Dawe, Piers Comment Type T How is the error count los SuggestedRemedy Which is most significan	4 Response Status O P 198 Mellanox Comment Status X baded into these two bytes? ht byte and bit?	L 13	# 2 <u>03</u> 1	Comment Type T Variable name should SuggestedRemedy Change variable name Proposed Response Cl 149B SC 149B.3. Tu, Mike Comment Type T	Comment Status X be consistent with Table 149-9 from "tx_clear_rec" to "mr_tx_o Response Status O 2.1 P199 Broadcom Comment Status X	clear_rec". L 21	# 273
Also on Page 198, Line 4 Proposed Response Cl 149B SC 149B.2.9 Dawe, Piers Comment Type T How is the error count los SuggestedRemedy Which is most significan	4 Response Status O P 198 Mellanox Comment Status X paded into these two bytes?	L 13	# 2 <u>03</u>	Comment Type T Variable name should SuggestedRemedy Change variable name Proposed Response Cl 149B SC 149B.3. Tu, Mike Comment Type T Variable name should	Comment Status X be consistent with Table 149-9 from "tx_clear_rec" to "mr_tx_o Response Status O 2.1 P 199 Broadcom	clear_rec". L 21	# 273
Also on Page 198, Line 4 Proposed Response Cl 149B SC 149B.2.9 Dawe, Piers Comment Type T How is the error count los SuggestedRemedy Which is most significan	4 Response Status O P 198 Mellanox Comment Status X baded into these two bytes? ht byte and bit?	L 13	# 2 <u>03</u> 1	Comment Type T Variable name should SuggestedRemedy Change variable name Proposed Response Cl 149B SC 149B.3. Tu, Mike Comment Type T Variable name should SuggestedRemedy	Comment Status X be consistent with Table 149-9 from "tx_clear_rec" to "mr_tx_o Response Status O 2.1 P 199 Broadcom Comment Status X be consistent with Table 149-9	clear_rec". L 21	# 273
Also on Page 198, Line 4 Proposed Response Cl 149B SC 149B.2.9 Dawe, Piers Comment Type T How is the error count los SuggestedRemedy	4 Response Status O P 198 Mellanox Comment Status X baded into these two bytes? ht byte and bit?	L 13	# 2 <u>03</u> 1	Comment Type T Variable name should SuggestedRemedy Change variable name Proposed Response Cl 149B SC 149B.3. Tu, Mike Comment Type T Variable name should SuggestedRemedy	Comment Status X be consistent with Table 149-9 from "tx_clear_rec" to "mr_tx_o Response Status O 2.1 P199 Broadcom Comment Status X	clear_rec". L 21	# 273

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/149BPage 49 of 50COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC149B.6/24/2019 9:51:38 AMSORT ORDER: Clause, Subclause, page, lineResponse Status: O/open W/written C/closed U/unsatisfied Z/withdrawnSC149B.6/24/2019 9:51:38 AM

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	P 199	L 26	# 2	C/ 149B SC 149B.3	.2.3 P 200	L 38	# 276
Hajduczenia, Marek	Charter Comm	unications		Tu, Mike	Broadcom	ı	
Comment Type TR	Comment Status X			Comment Type T	Comment Status X		
	n informative annex would ha DAM functions needed for the			In Figure 149B-3, the definitions.	variable values and variable	names should be co	onsistent with
SuggestedRemedy				SuggestedRemedy			
Seems like this annex oug	ght to be normative			See page 5 of "tu_3cl	_04_0719.pdf".		
Proposed Response	Response Status 0			Proposed Response	Response Status 0		
C/ 149B SC 149B.3.2.3	P 199	L 26	# 183				
Baggett, Tim	Microchip						
Comment Type E	Comment Status X						
Section heading "149B.3.2	2.3 State Diagrams" is orpha	ned from the dia	agrams it contains				
Move to the next page.							
Move to the next page.							
Move to the next page. SuggestedRemedy	3 State Diagrams" to top of pa		-				
Move to the next page. SuggestedRemedy Move heading "149B.3.2.3 149B-3.			-				
Move to the next page. SuggestedRemedy Move heading "149B.3.2.3 149B-3. Proposed Response	3 State Diagrams" to top of pa		-				
Move to the next page. SuggestedRemedy Move heading "149B.3.2.3 149B-3. Proposed Response Cl 149B SC 149B.3.2.3	3 State Diagrams" to top of pa Response Status O	age 200 with dia	grams 149B-2 and	-			
Move to the next page. SuggestedRemedy Move heading "149B.3.2.3 149B-3. Proposed Response C/ 149B SC 149B.3.2.3 Tu, Mike	3 State Diagrams" to top of pa Response Status O P 200	age 200 with dia	grams 149B-2 and	-			
Move to the next page. SuggestedRemedy Move heading "149B.3.2.3 149B-3. Proposed Response C/ 149B SC 149B.3.2.3 Tu, Mike Comment Type T	3 State Diagrams" to top of pa Response Status O P 200 Broadcom	age 200 with diag	grams 149B-2 and # 275	-			
Move to the next page. SuggestedRemedy Move heading "149B.3.2.3 149B-3. Proposed Response Cl 149B SC 149B.3.2.3 Tu, Mike Comment Type T In Figure 149B-2, the varia definitions.	3 State Diagrams" to top of pa Response Status O P 200 Broadcom Comment Status X	age 200 with diag	grams 149B-2 and # 275	-			
Move to the next page. SuggestedRemedy Move heading "149B.3.2.3 149B-3. Proposed Response CI 149B SC 149B.3.2.3 Tu, Mike Comment Type T In Figure 149B-2, the varia	3 State Diagrams" to top of pa Response Status O P 200 Broadcom Comment Status X able values and variable nam	age 200 with diag	grams 149B-2 and # 275				

C/ 149B SC 149B.3.2.3 Page 50 of 50 6/24/2019 9:51:38 AM