D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149A	SC	149A.4		P 197	L 27	#	i-47	
Boyer, Ric	h			Aptiv - Signal	and Power Solu	tions		
Comment *** Co attach	mment	T submitted	Comment with the file ?		Figure149A-2_C	omment_F	RevA.pd	149A f
To ma	ıke Figi	ure 149A-2	more descri	ptive.				
Suggestee	Reme	dy						
Port 1 conne tube i	of "Co cts to t	ax"; Add lin he shield of	es that show	that each of the the test fixtur	ld that the text to e Coax shields f e; Show an explo	rom Diff. P oded view	ort 1 that inne	ər
view.								
	Respo	nse	Response				·	
Proposed	•	nse ACCEPT.					·	
Proposed	POSED				L 10		<u>i-48</u>	
Proposed PROF Cl 149A	POSED SC	ACCEPT.		Status W P 198		# [
Proposed PROF	POSED SC	ACCEPT.		Status W P 198 Aptiv - Signal	L 10	# [149A
Proposed PROF Cl 149A Boyer, Ric Comment Propo	POSED SC h <i>Type</i> se to a	ACCEPT. 149A.4 T dd verbiage	Comment	Status W P 198 Aptiv - Signal Status D	L 10 and Power Solu the cable on bot	# [tions	i-48	149A
Proposed PROF Cl 149A Boyer, Ric Comment Propo	POSED SC h <i>Type</i> se to a roper u	ACCEPT. 149A.4 T dd verbiage	Comment	Status W P 198 Aptiv - Signal Status D d connection of	L 10 and Power Solu the cable on bot	# [tions	i-48	149A
Proposed PROF Cl 149A Boyer, Ric Comment Propo with p Suggested Add th both e techni impled	POSED SC h Type se to a roper u Remen and follow ands of ques s menting mentati	ACCEPT. 149A.4 T dd verbiage inderstandir dy wing to sent the cable si uitable for F g cable asse	<i>Response</i> <i>Comment</i> to the shield ag of implem tences at the hield should RF applicatio emblies into	Status W P 198 Aptiv - Signal Status D d connection of enting into vehi e end of paragra be directly com ns in the freque vehicles. This i	L 10 and Power Solu the cable on bot	# [tions h ends to a nal ground erest when hat the vel	i-48 assist us In additid using hicle	149A ser on,

PROPOSED ACCEPT IN PRINCIPLE.

PROPOSED ACCEPT IN PRINCIPLE.

It is not necessary to explain why the requirement exists.

ADD the following sentence at the end of paragraph that starts on page 198 line 6. "In addition, both ends of the cable shield should be directly connected to the signal ground using techniques suitable for RF applications in the frequency range of interest when implementing cable assemblies into vehicles. "

C/ 149A S	SC 149A.4	P 198	L 24	# i-91
Thompson, Ge	eoffrey	Independent C	Consultant	
Comment Typ	e TR	Comment Status D		149A

Text does not adequately deal with specifying a uniform test condition for qualifying the test conditions for link segments in an automotive environment. Text should be added to reflect the shield grounding practice used in that environment.

SuggestedRemedy

Insert the following text before the existing text on Page 198, Line 24: The shield of the cable shall have a hard ground connection to the connected equipment at each end of the reference cable assembly.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE

It is not clear what a "hard ground" connection means.

Add the text as defined in comment #48.

ADD the following sentence at the end of the paragraph that starts on page 198 line 6. "In addition, both ends of the cable shield should be directly connected to the signal ground using techniques suitable for RF applications in the frequency range of interest when implementing cable assemblies into vehicles. "

CI 45	SC	45.2.1.195.4	P4	0	L 36	#	i-46	
Rannow, R K			IEEE/	SELF				
Comment Ty	ре	GR	Comment Status	D				Editorial
using the	teri	n "both" app	ears verbose in ne	arly 20 instan	ces.			

SuggestedRemedy

Remove the work "both"

Proposed Response Response Status W

PROPOSED REJECT.

The word "both" is found 24 times in the document. The proposed change in the comment does not contain sufficient detail so that the CRG can understand the specific changes that satisfy the commenter. The commenter does not specify which "nearly 20" instances should be deleted. This is used in the front matter 3 times and 21 times in the "new text". A search of 802.3-2018 shows that the word "both" is found 938 times. This is a word commonly used in this specification to indicate that there are two conditions or two actions.

Regarding the specific instance cited in the comment at page 40 line 36, the CRG disagrees with the commenter. The use of 'both' in this instance is not extraneous and clarifies that MultiGBASE-T1 OAM capability requires support by both the local PHY and its link partner.

Topic Editorial

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: Topic

Page 1 of 20 1/6/2020 3:01:28 PM

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

CI 78	SC 78.5	P 61	L 44	#	i-84	C/ 149	SC 149.9.2
Jonsson, F	Ragnar	Aquantia				Wienckows	ski, Natalie
Comment	••	Comment Status D			EEE	Comment	Туре Т
should	d be changed to 12	BASE-T1 Case-4 row and T_ 28. See comment 22 on the i	nitial working gro	oup ballo	t said to	There this dra	is an untestable aft.
	ment the values in itial edit.	graba_3ch_01a_0719.pdf in	Table 78-4. The	e error w	as made in	Suggested	Remedy
Suggested	dRemedv						: In automotive
00	,	ase-4 row and T_{phy_shrin	k_tx} column cha	ange the	value "120"		um protection by 1292, ISO 14229
to "12	8"					Proposed I	Response
	Response	Response Status W				PROP	OSED ACCEPT
PROP	POSED ACCEPT.					CI 0	SC O
C/ 149	SC 149.9.1	P 176	L 5	#	i-27	Berger, Ca	therine
Wienckow	ski, Natalie	General Motor	s Company			Comment	
Commont	T	Comment Status D			Environment		raft meets all edi
Comment	Туре Т				Environment	This u	an meets an eur
	is an untestable s				Linnonnion		
There	is an untestable s				Livinonment	Suggested	
There Suggested Delete	is an untestable s dRemedy e: All equipment s	hall. ubject to this clause shall co			IEC 60950-1)	Suggested	Remedy
There <i>Suggested</i> Delete (for IT	is an untestable s dRemedy e: All equipment s and motor vehicle	hall. ubject to this clause shall cor applications) and to ISO 26	262 (for motor v		IEC 60950-1)	Suggested Proposed I	Remedy
There Suggested Delete (for IT only, it	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g	hall. ubject to this clause shall co	262 (for motor v		IEC 60950-1)	Suggested Proposed I PROP	Remedy Response OSED ACCEPT
There Suggested Delete (for IT only, it Proposed	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g	hall. ubject to this clause shall cor applications) and to ISO 26 iven application). Also delet	262 (for motor v		IEC 60950-1)	Suggested Proposed I PROP CI 0	Remedy Response OSED ACCEPT SC 0
There Suggested Delete (for IT only, it Proposed PROP	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g Response POSED ACCEPT.	hall. ubject to this clause shall core applications) and to ISO 26 iven application). Also delete <i>Response Status</i> W	262 (for motor v e PICS ES1.	ehicle ap	IEC 60950-1) plications	Suggested Proposed I PROP CI 0 Wienckows	Remedy Response OSED ACCEPT SC 0 ski, Natalie
There Suggested (for IT only, it Proposed PROP Cl 149	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g Response POSED ACCEPT. SC 149.9.1	hall. ubject to this clause shall core applications) and to ISO 26 iven application). Also delete <i>Response Status</i> W <i>P</i> 176	262 (for motor vi e PICS ES1.		IEC 60950-1)	Suggested Proposed I PROPO CI 0 Wienckows Comment	Remedy Response OSED ACCEPT SC 0 ski, Natalie Type E
There Suggested (for IT only, it Proposed PROP C/ 149 Wienckow	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g Response POSED ACCEPT. SC 149.9.1 rski, Natalie	hall. ubject to this clause shall core applications) and to ISO 26 iven application). Also delete <i>Response Status</i> W <i>P</i> 176 General Motor	262 (for motor vi e PICS ES1.	ehicle ap	IEC 60950-1) plications	Suggested Proposed I PROP CI 0 Wienckows Comment Update	Remedy Response OSED ACCEPT SC 0 ski, Natalie Type E e publication date
There Suggested (for IT only, it Proposed PROP Cl 149 Wienckow Comment	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g Response POSED ACCEPT. SC 149.9.1 rski, Natalie Type T	hall. ubject to this clause shall con a applications) and to ISO 26 iven application). Also delete <i>Response Status</i> W <i>P</i> 176 General Motor <i>Comment Status</i> D	262 (for motor vi e PICS ES1.	ehicle ap	IEC 60950-1) plications	Suggested Proposed I PROP CI 0 Wienckows Comment Update Suggested	Remedy Response OSED ACCEPT SC 0 ski, Natalie Type E e publication date Remedy
There Suggested (for IT only, it Proposed PROP CI 149 Wienckow Comment	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g Response POSED ACCEPT. SC 149.9.1 rski, Natalie	hall. ubject to this clause shall con a applications) and to ISO 26 iven application). Also delete <i>Response Status</i> W <i>P</i> 176 General Motor <i>Comment Status</i> D	262 (for motor vi e PICS ES1.	ehicle ap	IEC 60950-1) plications	Suggested Proposed I PROP CI 0 Wienckows Comment Update Suggested Chang	Remedy Response OSED ACCEPT SC 0 ski, Natalie Type E e publication date Remedy le 20xx (or 201x)
There Suggested (for IT only, it Proposed PROP Cl 149 Wienckow Comment There	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g Response POSED ACCEPT. SC 149.9.1 ski, Natalie Type T is an untestable s	hall. ubject to this clause shall con a applications) and to ISO 26 iven application). Also delete <i>Response Status</i> W <i>P</i> 176 General Motor <i>Comment Status</i> D	262 (for motor vi e PICS ES1.	ehicle ap	IEC 60950-1) plications	Suggested Proposed I PROP CI 0 Wienckows Comment Update Suggested Chang L30, P	Remedy Response OSED ACCEPT SC 0 ski, Natalie Type E e publication date Remedy le 20xx (or 201x) 35 L3, P53 L12,
There Suggested (for IT only, it Proposed PROP Cl 149 Wienckow Comment There Suggested Chang	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g Response POSED ACCEPT. SC 149.9.1 ski, Natalie Type T is an untestable s dRemedy ge "All equipment s	hall. ubject to this clause shall core applications) and to ISO 26 iven application). Also delete <i>Response Status</i> W <i>P</i> 176 General Motor <i>Comment Status</i> D hall. subject to this clause shall core	262 (for motor vo e PICS ES1. <i>L</i> 7 s Company	ehicle`ap #	IEC 60950-1) plications	Suggested Proposed I PROP CI 0 Wienckows Comment Update Suggested Chang L30, P	Remedy Response OSED ACCEPT SC 0 ski, Natalie Type E e publication date (Remedy e 20xx (or 201x) 35 L3, P53 L12, 7 L41, P67 L47,
There Suggested (for IT only, it Proposed PROP Cl 149 Wienckow Comment There Suggested Chang nation	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g Response POSED ACCEPT. SC 149.9.1 ski, Natalie Type T is an untestable s dRemedy ge "All equipment s al, and application	hall. ubject to this clause shall con- e applications) and to ISO 26 iven application). Also delete <i>Response Status</i> W <i>P</i> 176 General Motor <i>Comment Status</i> D hall. subject to this clause shall con- specific standards." To "All	262 (for motor vo e PICS ES1. <i>L</i> 7 s Company onform to all app equipment subj	ehicle ap # licable lo ect to this	IEC 60950-1) plications i-28 Environment cal, state, s clause is	Suggested Proposed I PROP CI 0 Wienckows Comment Update Suggested Chang L30, P L3, P6 Proposed I	Remedy Response OSED ACCEPT SC 0 ski, Natalie Type E e publication date (Remedy e 20xx (or 201x) 35 L3, P53 L12, 7 L41, P67 L47,
There Suggested (for IT only, if Proposed PROP CI 149 Wienckow Comment There Suggested Chang nation expec	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g Response POSED ACCEPT. SC 149.9.1 ski, Natalie Type T is an untestable s dRemedy ge "All equipment s al, and application	hall. ubject to this clause shall core applications) and to ISO 26 iven application). Also delete <i>Response Status</i> W <i>P</i> 176 General Motor <i>Comment Status</i> D hall. subject to this clause shall core applicable local, state, nat	262 (for motor vo e PICS ES1. <i>L</i> 7 s Company onform to all app equipment subj	ehicle ap # licable lo ect to this	IEC 60950-1) plications i-28 Environment cal, state, s clause is	Suggested Proposed I PROP CI 0 Wienckows Comment Update Suggested Chang L30, P L3, P6 Proposed I	Remedy Response OSED ACCEPT SC 0 ski, Natalie Type E e publication date Remedy le 20xx (or 201x) 35 L3, P53 L12, 7 L41, P67 L47, Response
Suggested Delete (for IT only, it Proposed PROP Cl 149 Wienckow Comment There Suggested Chang nation expec	is an untestable s dRemedy e: All equipment s and motor vehicle f required by the g Response POSED ACCEPT. SC 149.9.1 rski, Natalie Type T is an untestable s dRemedy ge "All equipment s al, and application ted to conform to a ards." Also delete	hall. ubject to this clause shall core applications) and to ISO 26 iven application). Also delete <i>Response Status</i> W <i>P</i> 176 General Motor <i>Comment Status</i> D hall. subject to this clause shall core applicable local, state, nat	262 (for motor vo e PICS ES1. <i>L</i> 7 s Company onform to all app equipment subj	ehicle ap # licable lo ect to this	IEC 60950-1) plications i-28 Environment cal, state, s clause is	Suggested Proposed I PROP CI 0 Wienckows Comment Update Suggested Chang L30, P L3, P6 Proposed I	Remedy Response OSED ACCEPT SC 0 ski, Natalie Type E e publication date Remedy le 20xx (or 201x) 35 L3, P53 L12, 7 L41, P67 L47, Response

	There is an untestable shall which applies to the final instalation, not the PHY defined by this draft.
Su	IggestedRemedy
	Delete: In automotive applications, all cabling shall be routed in such a way as to provide maximum protection by the motor vehicle sheet metal and structural components, following

Comment Status D

P 176

General Motors Company

L 18

i-29

Environment

2, ISO 14229, and ISO 15764. Also delete PICS ES3. oonse Response Status W ED ACCEPT. SC 0 Р L # i-1 ine G Comment Status D ΕZ e meets all editorial requirements. nedy ponse Response Status W ED ACCEPT. SC 0 P 1 L 28 # i-17 Natalie **General Motors Company** e E Comment Status D ΕZ blication date for 802.3cg

0xx (or 201x) to 2019, also on P11 L1, P23 L45, P26 L22, P26 L29, P33 L27, P34 .3, P53 L12, P53 L35, P53 L44, P53 L50, P55 L8, P58 L1, P66 L9, P66 L17, P67 41, P67 L47, P68 L5, P68 L38, P69 L23, P69 L35, P70 L7, P195 L11

ponse Response Status W

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

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

CIO SCO P1 L28 # i-18	C/1 SC 1.4.494b P23 L46 # i-54	_
Wienckowski, Natalie General Motors Company	Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommSc	юр
Comment Type E Comment Status D E2	Comment Type E Comment Status D	ΕZ
Update publication date for 802.3cn	IEEE Std 802.3cg-201x has been approved as IEEE Std 802.3cg-2019	
SuggestedRemedy	SuggestedRemedy	
Change 20xx (or 201x) to 2019, also on P10 L49	change 802.3cg-201x to 802.3cg-2019 on P23 L45, and globally (several instances - pag	es
Proposed Response Response Status W	26, 33, 34, 35, 53,55,58, 66, 67,68, 69, 195 - some more than 1 per page)	
PROPOSED ACCEPT.	Proposed Response Response Status Z	
	PROPOSED REJECT.	
	This comment was WITHDRAWN by the commenter.	
Wienckowski, Natalie General Motors Company Comment Type E Comment Status D E2		
According to the SA Editors, the "IMPORTANT NOTICE" is not needed and can be deleted.	C/ 45 SC 45.2.1 P 32 L 32 # <u>i-83</u>	
	Jonsson, Ragnar Aquantia	
SuggestedRemedy	Comment Type ER Comment Status D	ΕZ
Delete lines 16 through 27		
Delete lines 16 through 27.	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200	
Proposed Response Response Status W		
	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200	
Proposed Response Response Status W PROPOSED ACCEPT.	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy	LL
Proposed Response Response Status W PROPOSED ACCEPT.	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy Change "Subclause" for "Register address" 1.2317 from "45.2.1.199" to "45.2.1.200".	LL
Proposed Response Response Status W PROPOSED ACCEPT. C/ 1 SC 1.4 P 23 L 45 # i-72 Mcclellan, Brett Marvell Semiconductor, Inc.	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy Change "Subclause" for "Register address" 1.2317 from "45.2.1.199" to "45.2.1.200". Proposed Response Response Status W PROPOSED ACCEPT.	
Proposed Response Response Status W PROPOSED ACCEPT. C/ 1 SC 1.4 P 23 L 45 # <u>i-72</u> Mcclellan, Brett Marvell Semiconductor, Inc.	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy Change "Subclause" for "Register address" 1.2317 from "45.2.1.199" to "45.2.1.200". Proposed Response Response Status W PROPOSED ACCEPT. Cl 45 SC 45.2.1.194.1 P 38 L 51 # i-55	
Proposed Response Response Status W PROPOSED ACCEPT.	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy Change "Subclause" for "Register address" 1.2317 from "45.2.1.199" to "45.2.1.200". Proposed Response Response Status W PROPOSED ACCEPT. Cl 45 SC 45.2.1.194.1 P 38 L 51 # i-55 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommSc	cop
Proposed Response Response Status W PROPOSED ACCEPT. P23 L 45 # [-72] C/ 1 SC 1.4 P 23 L 45 # [-72] Mcclellan, Brett Marvell Semiconductor, Inc. Comment Type E Comment Status D E2 "IEEE Std 802.3cg-201x" is now published as "IEEE Std 802.3cg-2019" Status Status Status Status	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy Change "Subclause" for "Register address" 1.2317 from "45.2.1.199" to "45.2.1.200". Proposed Response Response Status W PROPOSED ACCEPT. CI 45 SC 45.2.1.194.1 P 38 L 51 # i-55 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommSc Comment Type E Comment Status D	cop
Proposed Response Response Status W PROPOSED ACCEPT.	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy Change "Subclause" for "Register address" 1.2317 from "45.2.1.199" to "45.2.1.200". Proposed Response Response Status W PROPOSED ACCEPT. Cl 45 SC 45.2.1.194.1 P 38 L 51 # i-55 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommSc	cop EZ
Proposed Response Response Status W PROPOSED ACCEPT. P23 L 45 # [-72] Cl 1 SC 1.4 P 23 L 45 # [-72] Mcclellan, Brett Marvell Semiconductor, Inc. Comment Type E Comment Status D E2 "IEEE Std 802.3cg-201x" is now published as "IEEE Std 802.3cg-2019" SuggestedRemedy change "IEEE Std 802.3cg-201x" to "IEEE Std 802.3cg-2019" in multiple locations	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy Change "Subclause" for "Register address" 1.2317 from "45.2.1.199" to "45.2.1.200". Proposed Response Response Status W PROPOSED ACCEPT. CI 45 SC 45.2.1.194.1 P 38 L 51 # i-55 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommSc Comment Type E Comment Status D 149.3.2.2.18 doesn't describe Reed Solomon interleaving, it describes the PCS	cop EZ
Proposed Response Response Status W PROPOSED ACCEPT. P23 L 45 # [-72] Cl 1 SC 1.4 P 23 L 45 # [-72] Mcclellan, Brett Marvell Semiconductor, Inc. Comment Type E Comment Status D E2 "IEEE Std 802.3cg-201x" is now published as "IEEE Std 802.3cg-2019" SuggestedRemedy change "IEEE Std 802.3cg-201x" to "IEEE Std 802.3cg-2019" in multiple locations Proposed Response Response Status W	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy Change "Subclause" for "Register address" 1.2317 from "45.2.1.199" to "45.2.1.200". Proposed Response Response Status W PROPOSED ACCEPT. C/ 45 SC 45.2.1.194.1 P 38 L 51 # i-55 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommSc Comment Type E Comment Status D 149.3.2.2.18 doesn't describe Reed Solomon interleaving, it describes the PCS Scrambler. The correct reference is 149.3.2.2.15. The same issue exists in 45.2.1.195.1	cop EZ
Proposed Response Response Status W PROPOSED ACCEPT.	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy Change "Subclause" for "Register address" 1.2317 from "45.2.1.199" to "45.2.1.200". Proposed Response Response Status W PROPOSED ACCEPT. Cl 45 SC 45.2.1.194.1 P 38 L 51 # i-55 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommSc Comment Type E Comment Status D 149.3.2.2.18 doesn't describe Reed Solomon interleaving, it describes the PCS Scrambler. The correct reference is 149.3.2.2.15. The same issue exists in 45.2.1.195.1 page 39 line 38.	cop EZ
Proposed Response Response Status W PROPOSED ACCEPT.	In Table 45-3 the Subclause for register 1.2317 should be 45.2.1.200 SuggestedRemedy Change "Subclause" for "Register address" 1.2317 from "45.2.1.199" to "45.2.1.200". Proposed Response Response Status W PROPOSED ACCEPT. Cl 45 SC 45.2.1.194.1 P 38 L 51 # 1-55 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommSc Comment Type E Comment Status D 149.3.2.2.18 doesn't describe Reed Solomon interleaving, it describes the PCS Scrambler. The correct reference is 149.3.2.2.15. The same issue exists in 45.2.1.195.1 page 39 line 38. SuggestedRemedy Change cross reference from 149.3.2.2.18 to 149.3.2.2.15 (or appropriate link if	cop EZ

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 45 SC 45.2.1.196.4 P 41 L 49 # i-57	Cl 104 SC 104.5.6.4 P68 L 48 # [-59
Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommScop	Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommScop
Comment Type TR Comment Status D EZ	Comment Type E Comment Status D EZ
"When the transmitter is in test mode 2, bits 1.2313.1:0 control the pattern of the jitter test signal." - what these bits do when the transmitter is not in test mode 2 is not specified	Clause 97 is in the draft, but is shown as an external cross reference. It should be an active cross reference
SuggestedRemedy	SuggestedRemedy
Suggest to add a new second sentence immediately following the quoted one, to read as	Change external "Clause 97" reference to an active cross reference
follows: "When the transmitter is not in test mode 2, the setting of bits 1.2313.1:0 have no effect."	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED ACCEPT.
PROPOSED ACCEPT IN PRINCIPLE.	C/ 149 SC 149.1.3 P79 L 18 # [i-61
fix subject/verb agreeement in proposal: Add the sentence "When the transmitter is not in	Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommScop
test mode 2, the setting of bits 1.2313.1:0 has no effect."	Comment Type E Comment Status D EZ
Cl 45 SC 45.2.3.75 P 48 L 1 # i-73 Mcclellan, Brett Marvell Semiconductor, Inc. Marvell Semiconductor, Inc. EZ Comment Type E Comment Status D EZ Table 45-244 should appear on page 47 following this text: "Change Table 45-244 as EZ	"The MultiGBASE-T1 OAM information is exchanged between two 2.5GBASE-T1, 5GBASE- T1, or 10GBASE-T1 PHYs out-of-band." - the concept of whether this is out-of-band in the frequency domain or does not consume the bit rate for the ethernet payload has caused repeated confusion - some improved wording here might help. SuggestedRemedy
follows:"	Suggest change "out-of-band." to "out-of-band, that is, outside of the specified 2.5, 5, or 10
SuggestedRemedy	Gb/s Ethernet data stream."
move table as indicated	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED ACCEPT.
PROPOSED ACCEPT.	C/ 149 SC 149.1.3.1 P79 L 42 # i-87
CI 45 SC 45.2.9.3 P 53 L 44 # [i-58	Jonsson, Ragnar Aquantia
Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommScop	Comment Type E Comment Status D EZ
Comment Type E Comment Status D EZ	Parameter L is introduced, without reference to the definition of L.
Editing instruction has been separated from the table that it is editing.	SuggestedRemedy
SuggestedRemedy	Change "L" to "A number, L,"
Make editing instruction stay with Table 45-341	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED ACCEPT.
PROPOSED ACCEPT.	

Topic **EZ**

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

CIO SCO	P 79	L 44	# i-4		C/ 149	SC 149.2.2.	7.1	P 88	L 39	# i-36	
Vienckowski, Natalie	General Mo	tors Company			Wienckows	ski, Natalie		General Moto	ors Company		
Comment Type E	Comment Status D			ΕZ	Comment T	Гуре Е	Commen	nt Status D			EZ
Replace lower case '	x' with a multiplication symbol	I.			Incons	istency in docu	ment. Somet	imes "true" and s	sometimes "TRL	JE".	
SuggestedRemedy					Suggested	Remedy					
Make this change on	P79 L44 & P79 L 45.									P112 L44, P112 L	
Proposed Response PROPOSED ACCEF	Response Status W				P115 L L35, P	43, P115 L48, 116 L41, P119	P115 L52, P1 L24, P119 L2	16 L2, P116 L7, 5, P119 L39, P1	, P116 L10, P11 19 L45, P123 L	P115 L33, P115 L3 6 L25, P116 L30, 9, P123 L27, P123 144 L43, P156 L2	P116 3 L36,
C/ 149 SC 149.1.3	8.1 P 79	L 44	# <u>i-62</u>			, , ,	,	204 L49, P205 L2	, ,	,	.0,
Zimmerman, George	ADI, APL G	roup, Aquantia, Bl	MW, Cisco, CommS	Scop	Proposed F	Response	Response	e Status 🛛 🛛 🛛 🛛 🛛 🖉			
Comment Type E	Comment Status D			ΕZ	PROP	OSED ACCEP	T IN PRINCIP	LE.			
"(The duration of the phrase - this seems t	superframe is L x 320/ S ns.)				Should	be "TRUE" on	ly when this re	epresents a varia	able value.		
								•			
structure was more o	complex. It is now its own star								P112 L37, P112	L44, P112 L46, P	
structure was more of SuggestedRemedy	complex. It is now its own star	nd-alone sentence	e.		L48, P	114 L18, P114	L24, P114 L2	7, P114 L30, P	P112 L37, P112 114 L37, P114 L	52, P115 L33, P1	15
structure was more of SuggestedRemedy Remove the parenthe	complex. It is now its own star	nd-alone sentence	e.		L48, P L37, P P116 L	114 L18, P114 115 L43, P115 .35, P116 L41,	L24, P114 L2 L48, P115 L5 P119 L24 (2x	7, P114 L30, P 2, P116 L2, P11), P119 L25, P1	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10, 19 L39, P119 L4	-52, P115 L33, P1 , P116 L25, P116 I5, P121 L39, P12	15 L30, 3 L9,
structure was more of SuggestedRemedy Remove the parenthe	complex. It is now its own star eses around "The duration of <i>Response Status</i> W	nd-alone sentence	e.		L48, P L37, P P116 L P125 L P139 L	114 L18, P114 115 L43, P115 .35, P116 L41, . 8, P125 L16, I .48, P139 L54,	L24, P114 L2 L48, P115 L5 P119 L24 (2x P126 L17, P1 P144 L43, P1	7, P114 L30, P 2, P116 L2, P11), P119 L25, P1 26 L27, P126 L 56 L29, P157 L	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10, 19 L39, P119 L4 36, P138 L20, P 13, P157 L50, F	52, P115 L33, P1 , P116 L25, P116	15 L30, 3 L9, 7,
structure was more of SuggestedRemedy Remove the parenthe Proposed Response PROPOSED ACCEF	complex. It is now its own star eses around "The duration of <i>Response Status</i> W PT.	nd-alone sentence	e.		L48, P L37, P P116 L P125 L P139 L P204 L	114 L18, P114 115 L43, P115 .35, P116 L41, . 8, P125 L16, I .48, P139 L54, .49, P205 L2, F	L24, P114 L2 L48, P115 L5 P119 L24 (2x P126 L17, P1 P144 L43, P1 P205 L8, P205	7, P114 L30, P 2, P116 L2, P11), P119 L25, P1 26 L27, P126 L 56 L29, P157 L 5 L14, P206 L18.	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10, 19 L39, P119 L4 36, P138 L20, P 13, P157 L50, F	.52, P115 L33, P1 , P116 L25, P116 I5, P121 L39, P12 138 L41, P138 L4	15 L30, 3 L9, 7,
structure was more of SuggestedRemedy Remove the parenthe Proposed Response PROPOSED ACCEF	complex. It is now its own star eses around "The duration of <i>Response Status</i> W PT. 3.2 P 80	nd-alone sentence the superframe is <i>L</i> 17	e. s L x 320 / S ns."	Scop	L48, P L37, P P116 L P125 L P139 L P204 L Also, c	114 L18, P114 115 L43, P115 35, P116 L41, .8, P125 L16, I .48, P139 L54, .49, P205 L2, F hange "True" to	L24, P114 L2 L48, P115 L5 P119 L24 (2x P126 L17, P1: P144 L43, P1 2205 L8, P205 p "TRUE" on F	7, P114 L30, P 2, P116 L2, P11), P119 L25, P1 26 L27, P126 L 56 L29, P157 L 5 L14, P206 L18.	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10 19 L39, P119 L4 36, P138 L20, P 13, P157 L50, F	.52, P115 L33, P1 , P116 L25, P116 45, P121 L39, P12 138 L41, P138 L4 P158 L49, P186 L4	15 L30, 3 L9, 7,
structure was more of SuggestedRemedy Remove the parenthe Proposed Response PROPOSED ACCEF Cl 149 SC 149.1.3 Simmerman, George Comment Type T	complex. It is now its own star eses around "The duration of <i>Response Status</i> W PT. 3.2 <i>P</i> 80 ADI, APL G <i>Comment Status</i> D	nd-alone sentence the superframe is <i>L</i> 17 roup, Aquantia, Bl	e. s L x 320 / S ns." # <u>[i-63</u> MW, Cisco, CommS	Scop EZ	L48, P L37, P P116 L P125 L P139 L P204 L	114 L18, P114 115 L43, P115 .35, P116 L41, . 8, P125 L16, I .48, P139 L54, .49, P205 L2, F	L24, P114 L2 L48, P115 L5 P119 L24 (2x P126 L17, P1: P144 L43, P1 2205 L8, P205 p "TRUE" on F	7, P114 L30, P 2, P116 L2, P11), P119 L25, P1 26 L27, P126 L 56 L29, P157 L 5 L14, P206 L18.	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10, 19 L39, P119 L4 36, P138 L20, P 13, P157 L50, F	.52, P115 L33, P1 , P116 L25, P116 I5, P121 L39, P12 138 L41, P138 L4	15 L30, 3 L9, 7,
structure was more of SuggestedRemedy Remove the parenthe Proposed Response PROPOSED ACCEF CI 149 SC 149.1.3 Zimmerman, George Comment Type T "The minimum link se	complex. It is now its own star eses around "The duration of <i>Response Status</i> W PT. 3.2 <i>P</i> 80 ADI, APL G <i>Comment Status</i> D egment characteristics, EMC	nd-alone sentence the superframe is <i>L</i> 17 roup, Aquantia, Bl requirements, and	e. s L x 320 / S ns." # <u>[i-63</u> MW, Cisco, CommS d test modes are	EZ	L48, P L37, P P116 L P125 L P139 L P204 L Also, c	114 L18, P114 115 L43, P115 35, P116 L41, . 8, P125 L16, I 48, P139 L54, 49, P205 L2, F hange "True" to SC 149.3.2.	L24, P114 L2 L48, P115 L5 P119 L24 (2x P126 L17, P1: P144 L43, P1 2205 L8, P205 p "TRUE" on F	7, P114 L30, P 2, P116 L2, P11), P119 L25, P1 26 L27, P126 L 56 L29, P157 L 5 L14, P206 L18. P136 L19. P 99	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10, 19 L39, P119 L4 36, P138 L20, P 13, P157 L50, F	.52, P115 L33, P1 , P116 L25, P116 45, P121 L39, P12 138 L41, P138 L4 P158 L49, P186 L4	15 L30, 23 L9, .7, 40,
structure was more of SuggestedRemedy Remove the parenthe Proposed Response PROPOSED ACCEF Cl 149 SC 149.1.3 Zimmerman, George Comment Type T "The minimum link se specified in 149.5." - there are no EMC res	complex. It is now its own star eses around "The duration of <i>Response Status</i> W PT. 3.2 <i>P</i> 80 ADI, APL G <i>Comment Status</i> D	the superframe is <i>L</i> 17 roup, Aquantia, Bl requirements, and ics are specified in	e. s L x 320 / S ns." # <u>[i-63</u> MW, Cisco, CommS d test modes are n 149.7, not 149.5, a	EZ	L48, P L37, P P116 L P125 L P139 L P204 L Also, c C/ 149 Zimmerman Comment T	114 L18, P114 115 L43, P115 .35, P116 L41, .8, P125 L16, F .48, P139 L54, .49, P205 L2, F hange "True" to SC 149.3.2. n, George Type E	L24, P114 L2 L48, P115 L5 P119 L24 (2x P126 L17, P1; P144 L43, P1 2205 L8, P205 o "TRUE" on F 2.11 Commen	7, P114 L30, P 2, P116 L2, P11), P119 L25, P1 26 L27, P126 L 56 L29, P157 L 5 L14, P206 L18. P136 L19. P 99	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10, 19 L39, P119 L4 36, P138 L20, P 13, P157 L50, F	.52, P115 L33, P1 , P116 L25, P116 45, P121 L39, P12 138 L41, P138 L4 P158 L49, P186 L4 # <u>i-66</u>	15 L30, 3 L9, 7, 40, mScop
structure was more of SuggestedRemedy Remove the parenthe Proposed Response PROPOSED ACCEF Cl 149 SC 149.1.3 Zimmerman, George Comment Type T "The minimum link se specified in 149.5." - there are no EMC re- be describing the PM	complex. It is now its own star eses around "The duration of <i>Response Status</i> W PT. 3.2 <i>P</i> 80 ADI, APL G <i>Comment Status</i> D egment characteristics, EMC the link segment characterist quirements in this document.	the superframe is <i>L</i> 17 roup, Aquantia, Bl requirements, and ics are specified in	e. s L x 320 / S ns." # <u>[i-63</u> MW, Cisco, CommS d test modes are n 149.7, not 149.5, a	EZ	L48, P L37, P P116 L P125 L P139 L P204 L Also, c C/ 149 Zimmerman Comment T	114 L18, P114 115 L43, P115 .35, P116 L41, .8, P125 L16, I .48, P139 L54, .49, P205 L2, F hange "True" to <i>SC</i> 149.3.2. n, George <i>Type</i> E d set in the sub	L24, P114 L2 L48, P115 L5 P119 L24 (2x P126 L17, P1; P144 L43, P1 2205 L8, P205 o "TRUE" on F 2.11 Commen	7, P114 L30, P 2, P116 L2, P11), P119 L25, P1 26 L27, P126 L 56 L29, P157 L 5 L14, P206 L18. P136 L19. P 99 ADI, APL Gro t Status D	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10, 19 L39, P119 L4 36, P138 L20, P 13, P157 L50, F	.52, P115 L33, P1 , P116 L25, P116 45, P121 L39, P12 138 L41, P138 L4 P158 L49, P186 L4 # <u>i-66</u>	15 L30, 3 L9, 7, 40, mScop
structure was more of SuggestedRemedy Remove the parenthe Proposed Response PROPOSED ACCEF C/ 149 SC 149.1.3 Zimmerman, George Comment Type T "The minimum link se specified in 149.5." - there are no EMC re- be describing the PM SuggestedRemedy Suggest replacing "T	complex. It is now its own star eses around "The duration of <i>Response Status</i> W PT. 3.2 <i>P</i> 80 ADI, APL G <i>Comment Status</i> D egment characteristics, EMC i the link segment characterist quirements in this document. 1A, not the other things.	nd-alone sentence the superframe is <i>L</i> 17 roup, Aquantia, Bl requirements, and ics are specified in Further, this subc	e. s L x 320 / S ns." # [i-63 MW, Cisco, CommS d test modes are n 149.7, not 149.5, a clause is supposed t C requirements, and	EZ and to test	L48, P L37, P P116 L P125 L P139 L P204 L Also, c C/ 149 Zimmerman Comment T ordered Suggested	114 L18, P114 115 L43, P115 .35, P116 L41, . 8, P125 L16, I 48, P139 L54, 49, P205 L2, F hange "True" to <i>SC</i> 149.3.2. n, George <i>Type</i> E d set in the sub <i>Remedy</i>	L24, P114 L2 L48, P115 L5 P119 L24 (2x P126 L17, P1: P144 L43, P1 205 L8, P205 o "TRUE" on F 2.11 Comment oclause heade	7, P114 L30, P 2, P116 L2, P11), P119 L25, P1 26 L27, P126 L 56 L29, P157 L 5 L14, P206 L18. P136 L19. P 99 ADI, APL Gro t Status D	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10, 19 L39, P119 L4 36, P138 L20, P 13, P157 L50, F <i>L</i> 39 Dup, Aquantia, B talized	.52, P115 L33, P1 , P116 L25, P116 45, P121 L39, P12 138 L41, P138 L4 P158 L49, P186 L4 # <u>i-66</u>	15 L30, 3 L9, 7, 40, mScop
structure was more of SuggestedRemedy Remove the parenthe Proposed Response PROPOSED ACCEF Cl 149 SC 149.1.3 Zimmerman, George Comment Type T "The minimum link se specified in 149.5." - there are no EMC re- be describing the PM SuggestedRemedy Suggest replacing "T modes are specified	complex. It is now its own star eses around "The duration of <i>Response Status</i> W PT. 3.2 <i>P</i> 80 ADI, APL G <i>Comment Status</i> D egment characteristics, EMC i the link segment characterist quirements in this document. 1A, not the other things.	the superframe is <i>L</i> 17 roup, Aquantia, Bl requirements, and ics are specified in Further, this subc aracteristics, EMC parameters of the	e. s L x 320 / S ns." # [i-63 MW, Cisco, CommS d test modes are n 149.7, not 149.5, a clause is supposed t C requirements, and e PMA, i.e., test mod	EZ and to test	L48, P L37, P P116 L P125 L P139 L P204 L Also, c C/ 149 Zimmerman Comment T ordered Suggested Chang Proposed F	114 L18, P114 115 L43, P115 .35, P116 L41, .8, P125 L16, F .48, P139 L54, .49, P205 L2, F hange "True" to SC 149.3.2. n, George Type E d set in the sub Remedy e "149.3.2.2.11 Response	L24, P114 L2 L48, P115 L5 P119 L24 (2x P126 L17, P1 P144 L43, P1 2205 L8, P205 o "TRUE" on F 2.11 Comment ordered set" Response	 i7, P114 L30, P12, P114 L30, P12, P116 L2, P11 i2, P119 L25, P1126 L2 i26 L27, P126 L2 i56 L29, P157 L2 i514, P206 L18. P136 L19. P99 ADI, APL Growth Status D ir should be capital status in the status	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10, 19 L39, P119 L4 36, P138 L20, P 13, P157 L50, F <i>L</i> 39 Dup, Aquantia, B talized	.52, P115 L33, P1 , P116 L25, P116 I5, P121 L39, P12 138 L41, P138 L4 P158 L49, P186 L4 # <u>i-66</u>	15 L30, 3 L9, 7, 40, mScop
structure was more of SuggestedRemedy Remove the parenthe Proposed Response PROPOSED ACCEF C/ 149 SC 149.1.3 Zimmerman, George Comment Type T "The minimum link se specified in 149.5." - there are no EMC re- be describing the PM SuggestedRemedy Suggest replacing "T modes are specified	complex. It is now its own star eses around "The duration of <i>Response Status</i> W PT. 3.2 <i>P</i> 80 ADI, APL G <i>Comment Status</i> D egment characteristics, EMC the link segment characterist quirements in this document. 1A, not the other things. The minimum link segment char in 149.5." with "The electrical	the superframe is <i>L</i> 17 roup, Aquantia, Bl requirements, and ics are specified in Further, this subc aracteristics, EMC parameters of the	e. s L x 320 / S ns." # [i-63 MW, Cisco, CommS d test modes are n 149.7, not 149.5, a clause is supposed t C requirements, and e PMA, i.e., test mod	EZ and to test	L48, P L37, P P116 L P125 L P139 L P204 L Also, c C/ 149 Zimmerman Comment T ordered Suggested Chang Proposed F	114 L18, P114 115 L43, P115 .35, P116 L41, .8, P125 L16, F .48, P139 L54, .49, P205 L2, F hange "True" to SC 149.3.2. n, George Type E d set in the sub Remedy e "149.3.2.2.11	L24, P114 L2 L48, P115 L5 P119 L24 (2x P126 L17, P1 P144 L43, P1 2205 L8, P205 o "TRUE" on F 2.11 Comment ordered set" Response	 P114 L30, P P114 L30, P P112, P116 L2, P11 P119 L25, P1 P126 L27, P126 L3 P126 L29, P157 L6 E14, P206 L18. P136 L19. P99 ADI, APL Grown ADI, APL ADI,	P112 L37, P112 114 L37, P114 L 6 L7, P116 L10, 19 L39, P119 L4 36, P138 L20, P 13, P157 L50, F <i>L</i> 39 Dup, Aquantia, B talized	.52, P115 L33, P1 , P116 L25, P116 I5, P121 L39, P12 138 L41, P138 L4 P158 L49, P186 L4 # <u>i-66</u>	15 L30, 23 L9, .7, 40,

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149 SC 149.3.2.2.17 P1	01 <i>L</i> 47	# i-23		C/ 149	SC 149.3.2.3	P 107	L 9	# i-70	
Nienckowski, Natalie Gene	ral Motors Company			Zimmermar	ı, George	ADI, APL	Group, Aquantia	, BMW, Cisco, Com	nmScop
Comment Type E Comment Status superscript of 4 in x^4 is higher than the oth SuggestedRemedy Adjust height of "4" in "x^4" to match height	er supercripts		EZ	succes require 46.3.1.4	with the EEE ca sfully completed ments of 46.3.1. 5. It appears this	Comment Status D pability support transition training and pcs_data_n 5." There are no timing r is meant to reference 40 before transitioning to LF	node is TRUE and requirements for t 6.1.7 which requir	d subject to the tim the PHY transitionir	ning ng in
Proposed Response Response Status PROPOSED ACCEPT.	W			Suggested	Remedy	e to 46.3.1.5 to 46.1.7	-1.		
	ral Motors Company	# i-22		Proposed F		Response Status W			
Comment Type E Comment Status number on top of "pi" symbol is cut off	D		EZ	C/ 149	SC 149.3.6	P 110	L 30	# i-20	
SuggestedRemedy				Wienckows	ki, Natalie	General N	lotors Company		
Resize equation to ensure complete equation Proposed Response Response Status				Comment 7 Consid	51	Comment Status D emove "ensure". Remov	/e unnecessary e	explanatory languag	Ež ge.
PROPOSED ACCEPT. 		# i-69				ensure refresh signals an rs	d alert start times	s are appropriately	offset
Zimmerman, George ADI, A	APL Group, Aquantia, E		•	Proposed F	•	Response Status W			
Comment Type T Comment Status "The optional 2.5GBASE-T1, 5GBASE-T1, compliant PHYs to transition to an LPI mode quite correct - EEE is independent on each statement needs to be expanded - particula asymmetric in utilization.	or 10GBASE-T1 EEE ca of operation when link direction, link utilization	utilization is low." is is not. therefore, th	е	Cl 149 Wienckows Comment 7	SC 149.3.6.1 ki, Natalie ype E	P 112 General M Comment Status D	L 3 Notors Company	# [i-6	E
SuggestedRemedy change "when link utilization is low." to "whe transmission."	en link utilization is low i	n either direction of		Suggested	Remedy	sure" per IEEE Mandator ower savings, maintain li			ility,
Proposed Response Response Status	w			Proposed F	lesponse	Response Status W			

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149	SC 149.3.6.1	P 1	12	L 3	#	i-5	
Wienckows	ski, Natalie	Gene	ral Motors C	Company			
Comment	Туре Е	Comment Status	D				EZ
This is	part of the "com	ximize" per IEEE Ma non" wording used th ons for synchronizin	nroughout 8	02.3. See 9	97.3.5.1, 1	13.3.5.1	,
Suggested	Remedy						
Delete	To maximize po	ower savings, mainta	in link integ	rity, and en	sure interc	perabilit	у,
Proposed F	Response OSED ACCEPT.	Response Status	w				
C/ 149	SC 149.3.6.1	P 1	12	L 12	#	i-19	
Wienckows	ski, Natalie	Gene	ral Motors C	Company			
Comment T	Гуре Е	Comment Status	D				EZ
Consid	er rewording to r	emove "ensures".					
each o and SL to half	ther and that the AVE ALERT win cycle offset.	ures that the MASTE refresh periods are o dows are offset from	close to half each other	cycle offset	. To: Th	e MAST	ER
Proposed F PROP	Response OSED ACCEPT.	Response Status	w				
C/ 149	SC 149.3.6.3	P 1	13	L 8	#	i-7	
Wienckows	ski, Natalie	Gener	ral Motors C	Company			
• • •	Tvpe E	Comment Status	П				
Comment 7		Comment Status	D				EZ
Consid Note: 1	ler replacing "ma This is part of the 5.3, 126.3.5.3, et	ximize" per IEEE Ma "common" wording u c. The reasons for	ndatory Edi used throug	hout 802.3.	See 97.3	.5.3,	
Consid Note: 1 113.3.9 the spe	ler replacing "ma This is part of the 5.3, 126.3.5.3, etc ec.	ximize" per IEEE Ma "common" wording u	ndatory Edi used throug	hout 802.3.	See 97.3	.5.3,	
Consid Note: 1 113.3.5 the spe Suggested	ler replacing "ma This is part of the 5.3, 126.3.5.3, etc ec. Remedy	ximize" per IEEE Ma "common" wording u	ndatory Edi used throug staggering	hout 802.3.	See 97.3 als is not	.5.3, required	
Consid Note: 1 113.3.5 the spe Suggested	ler replacing "ma This is part of the 5.3, 126.3.5.3, et ec. <i>Remedy</i> e: refresh signal	ximize" per IEEE Ma "common" wording t c. The reasons for	ndatory Edi used throug staggering er savings.	hout 802.3. refresh sigr	See 97.3 als is not	.5.3, required	

PROPOSED ACCEPT.

 C/
 149
 SC
 149.3.7.2.1
 P 113
 L 42
 # i-24

 Wienckowski, Natalie
 General Motors Company

 Comment Type
 E
 Comment Status
 D
 EZ

 LP
 BLOCK R is not consistent with other comment names.

SuggestedRemedy

Change "LP_BLOCK_R" to "LPBLOCK_R" to be consistent with other comment names. Also make the same change on P125 L7.

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 149	SC 149.3.7.2.1	P 113	L 48	# i-25
Wienckowsł	ki, Natalie	General M	otors Company	
Comment T	ype E	Comment Status D		EZ
I_BLOC	K_R is not consis	stent with other commen	it names.	

SuggestedRemedy

Change "I_BLOCK_R" to "IBLOCK_R" to be consistent with other comment names. Also make the same change on P125 L14.

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 149 SC 149.3.7.2.2 P 114 L 18 # i-35	Cl 149 SC 149.3.9.2.1 P 128 L 37 # i-67
Wienckowski, Natalie General Motors Company	Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommSco
Comment Type E Comment Status D EZ	Comment Type E Comment Status D
Inconsistency in document. Sometimes "false" and sometimes "FALSE".	"super frame" - in most places, the term is "superframe" without a space.
SuggestedRemedy	SuggestedRemedy
Change "false" to "FALSE", also on P114 L31, P115 L19, P115 L34, P115 L38, P115 L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P123 L20,	replace "super frame" with "superframe" at P128 L37, L46, L51, L53; P129 L7, and PICS OAM2 description (P185 L11, L13, L15)
P126 L6, P126 L7, P126 L8, P126 L35, P126 L44, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P190 L3, P204 L48, P205 L1,	Proposed Response Response Status W
P205 L7, P205 L13	PROPOSED ACCEPT.
Proposed Response Response Status W	C/ 149 SC 149.3.9.2.1 P 129 L 4 # i-26
PROPOSED ACCEPT IN PRINCIPLE. Should be "FALSE" only when this represents a variable value.	Wienckowski, Natalie General Motors Company
Should be TALOL only when this represents a variable value.	Comment Type E Comment Status D E
Observe lifely all to lifely of DAAALAO DAAALOA, DAAFLAO DAAFLOA DAAFLOO DAAF	
Change "false" to "FALSE" on P114 L18, P114 L31, P115 L19, P115 L34, P115 L38, P115	The use of "0s" is not consistent with other 802.3 Clauses.
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7,	
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152	The use of "0s" is not consistent with other 802.3 Clauses. SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20.
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13,	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20.
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20.
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13,	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20. Proposed Response Response Status W PROPOSED ACCEPT.
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13, P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE" on P136 L20.	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20. Proposed Response Response Status W PROPOSED ACCEPT. C/ 149 SC 149.3.9.2.7 P130 L 19 # i-8
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13, P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE" on P136 L20. C/ 149 SC 149.3.7.2.4 P116 L 46	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20. Proposed Response Response Status PROPOSED ACCEPT. C/ 149 SC 149.3.9.2.7 Plan L 19 Wienckowski, Natalie General Motors Company
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13, P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE" on P136 L20. C/ 149 SC 149.37.2.4 P116 L 46 # i-65 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommScop	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20. Proposed Response Response Status PROPOSED ACCEPT. C/ 149 SC 149.3.9.2.7 P 130 L 19 Wienckowski, Natalie General Motors Company Comment Type E Comment Status D
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13, P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE" on P136 L20. <i>Cl</i> 149 SC 149.3.7.2.4 <i>P</i> 116 <i>L</i> 46 <i>I</i> =65 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommScop <i>Comment Type</i> T <i>Comment Status</i> D DECODE (rx_symb<64:0>) - the text says that the argument is rx_coded<64:0>. rx_symb	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20. Proposed Response Response Status PROPOSED ACCEPT. C/ 149 SC 149.3.9.2.7 Plan L 19 Wienckowski, Natalie General Motors Company
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L49, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13, P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE" on P136 L20. C/ 149 SC 149.37.2.4 P116 L 46 # i-65 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommScop Comment Type T Comment Status D EZ	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20. Proposed Response Response Status W PROPOSED ACCEPT. C/ 149 SC 149.3.9.2.7 P 130 L 19 # i-8 Wienckowski, Natalie General Motors Company Comment Type E Comment Status D E Consider replacing "ensure" per IEEE Mandatory Editorial Coordination comment. Note:
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13, P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE" on P136 L20. C/ 149 SC 149.3.7.2.4 P116 L 46 # [-65] C/ 149 SC 149.3.7.2.4 P116 L 46 # [-65] Comment Type T Comment Status D EZ DECODE (rx_symb<	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20. Proposed Response Response Status W PROPOSED ACCEPT. C/ 149 SC 149.3.9.2.7 P 130 L 19 # i-8 Wienckowski, Natalie General Motors Company Comment Type E Comment Status D E Consider replacing "ensure" per IEEE Mandatory Editorial Coordination comment. Note: This is the same wording as 97.3.8.2.7. SuggestedRemedy Change: The toggle bit is used to ensure proper OAM message synchronization between
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13, P206 L6, P206 L30, P206 L41.Also, change "False" to "FALSE" on P136 L20.C/ 149 SC 149.3.7.2.4P116 L 46EZDECODE (rx_symb<66:0>) - the text says that the argument is rx_coded<64:0>. rx_symb is what is passed by the PMA_UNITDATA indication, before the descrambler, blocking and RS-FEC decoder (see 149.3.2.3). rx_coded is what seems to be needed by this function according to the description.	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20. Proposed Response Response Status W PROPOSED ACCEPT. CI 149 SC 149.3.9.2.7 P 130 L 19 # [-8] Wienckowski, Natalie General Motors Company Comment Type E Comment Status D E Consider replacing "ensure" per IEEE Mandatory Editorial Coordination comment. Note: This is the same wording as 97.3.8.2.7. SuggestedRemedy Change: The toggle bit is used to ensure proper OAM message synchronization between the PHY and the link partner. To: The toggle bit lets the management entity determine
L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13, P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE" on P136 L20. <i>Cl</i> 149 SC 149.3.7.2.4 P116 L46 # i-65 Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommScop <i>Comment Type</i> T <i>Comment Status</i> D DECODE (rx_symb<64:0>) - the text says that the argument is rx_coded<64:0>. rx_symb is what is passed by the PMA_UNITDATA indication, before the descrambler, blocking and RS-FEC decoder (see 149.3.2.3). rx_coded is what seems to be needed by this function	SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20. Proposed Response Response Status W PROPOSED ACCEPT. C/ 149 SC 149.3.9.2.7 P 130 L 19 # i-8 Wienckowski, Natalie General Motors Company Comment Type E Comment Status D E Consider replacing "ensure" per IEEE Mandatory Editorial Coordination comment. Note: This is the same wording as 97.3.8.2.7. SuggestedRemedy Change: The toggle bit is used to ensure proper OAM message synchronization between

Topic **EZ**

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149 SC	149.3.9.2.12	P 131	L 14	# i-68	C/ 149	SC 149.3.9.2		L 31	#	i-31	
Zimmerman, Geo				/IW, Cisco, CommSc		wski, Natalie		otors Company	<i>π</i>	-51	
Comment Type	0	omment Status D	ap, Aquantia, Di		EZ Comme	-	Comment Status D	otoro company			E
"These 32 bit receiver (link the link partn	ts are set by the partner)." - why	PHY to convey its statu y is (link partner) in pare t's conveyed to a receiv it go?	entheses? I thin	k what is meant is "to	e type Suggest	, missing space aft edRemedy	er period	-directionally."			
SuggestedReme	•	northor)" to "to the link,	oortoor "			d Response	Response Status W				
Ū	, , , , , , , , , , , , , , , , , , ,	partner)" to "to the link p	partner.		PRO	POSED ACCEPT					
Proposed Respo PROPOSED		sponse Status W			C/ 149 Wiencko	SC 149.4.2.3 wski, Natalie		L 49 otors Company	#	i-37	
	149.3.9.2.13	P 132	L 38	# i-30	Comme	<i>it Type</i> E sing article	Comment Status D				E
Wienckowski, Na Comment Type typo, unnece SuggestedRemed Change "whe	E Co ssary "the" dy	General Moto omment Status D plemented" To "when E		ted".	EZ Suggest Cha Propose	edRemedy	pair" To "over the receive Response Status W	pair".			
Proposed Responer		sponse Status W			C/ 149 Wiencko	SC 149.4.2.4 wski, Natalie		L 21 otors Company	#	i-38	
C/ 149 SC Jonsson, Ragnar	149.3.9.2.16	P 133 Aquantia	L 13	# i-88	<i>Commen</i> The		Comment Status D diagram, not a description	of a state diagram.			E.
SuggestedReme	'toggling" not "to dy				Cha 32."		shall comply with the state shall comply with the state <i>Response Status</i> W			Figure 1	49-
Change "togo Proposed Respo	ging" to "toggling	-			,	POSED ACCEPT	•				
PROPOSED		sponse Status W			C/ 149	SC 149.4.2.4	P 145	L 26	#	i-39	
					Comme	wski, Natalie <i>ht Type</i> E undant text	General M Comment Status D	otors Company			EZ
					Cha	edRemedy nge "16th partial P ´frame (bits 6750 t	HY frame (bits 6750 to 684 o 6845)."	15) of the PHY fram	ie." To "1	6th partia	al
					Propose	d Response	Response Status W				
	TUS: D/dispatch	/editorial required GR/g ed A/accepted R/rejec				d U/unsatisfied Z	/withdrawn	EZ	0	e 9 of 20 2020 3:0	

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149 SC 149.4.2.4	P 145	L 32	# i-13		C/ 149 SC 14	19.5.1	P 160	L 8	# i-41	1
Wienckowski, Natalie	General Motors	Company			Wienckowski, Natal	ie	General Mot	tors Company		
Comment Type E Consider replacing "ens this requirement exists.	Comment Status D ure" per IEEE recommendation	n. It is not re	quired to explain w	<i>EZ</i> /hy	Comment Type Redundant wor SuggestedRemedy	E d	Comment Status D			EZ
	be transmitted at least 256 time nk partner. To: Infofield sha ets 7-10.				Change "BER t Proposed Respons PROPOSED A	9	"BER". Response Status W			
Proposed Response PROPOSED ACCEPT.	Response Status W				C/ 149 SC 14 Wienckowski. Natal		P 161 General Mo	L 12 tors Company	# i-43	3
C/ 149 SC 149.4.2.4. Wienckowski, Natalie	6 P 148 General Motors	L 3 Company	# i-9		,	E	Comment Status D			EZ
Note: This wording is the SuggestedRemedy				EZ	SuggestedRemedy Change "In the Proposed Respons PROPOSED A	9	ide" To "On the receive si Response Status W	de".		
occurs on a PHY frame	DataSwPFC24 guarantees that boundary. To: When the va 2 to PAM4 occurs on a PHY fi <i>Response Status</i> W	lue of DataSw	PFC24 is a multiple	e of	Cl 149 SC 1 Wienckowski, Natal Comment Type missing article		P 161 General Mot Comment Status D	L 12 tors Company	# [i-42	2 EZ
Cl 149 SC 149.4.2.6. Wienckowski, Natalie Comment Type E	2 P 152 General Motors Comment Status D	L 45 Company	# <u>i-40</u>	EZ	SuggestedRemedy Change "Instea data from the M	IAC,"	ding received data from N	IAC," To "Instead	l of encoding ı	received
Missing spaces SuggestedRemedy					Proposed Respons PROPOSED A		Response Status W N PRINCIPLE.			
Add non-breaking spac Proposed Response PROPOSED ACCEPT.	es around +/- symbol, also on F Response Status W	P152 L49.			Change "Instea received from t		ding received data from N	IAC," To "Instead	l of encoding	data

Topic **EZ**

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	uio
C/ 149 SC 149.7.2.1 P172	L
Wienckowski, Natalie General Motors	s Com
Z Comment Type E Comment Status D Consider replacing "ensure" per IEEE Mandatory Edit	torial (
Change: In order to limit the alien crosstalk at the near differential pair-to-pair near-end crosstalk (NEXT) loss and the disturbing link segment is specified to meet th differential pair-to-pair near-end crosstalk (NEXT) loss and the disturbing link segment is specified to meet th	s betw ne bit o s betw ne bit o
Proposed Response Response Status W PROPOSED ACCEPT.	
C/ 149 SC 149.7.2.2 P 173	L
	Wienckowski, Natalie General Motors Comment Type E Comment Status D Consider replacing "ensure" per IEEE Mandatory Edit SuggestedRemedy Change: In order to limit the alien crosstalk at the near differential pair-to-pair near-end crosstalk (NEXT) loss and the disturbing link segment is specified to meet the disturbing link segment is specified to meet the the alien crosstalk at the near end of a link segment. Proposed Response Response Status W PROPOSED ACCEPT.

SuggestedRemedy

Change "10GBASE-T1, 36 dB in 5GBASE-T1 and 35 dB in 2.5G mode" To "10GBASE-T1, 36 dB in 5GBASE-T1, and 35 dB in 2.5G mode"

Proposed Response	Response Status	w	
PROPOSED ACCEPT.			

C/ 149	SC 149.7.2	P 172	L 40	# i-10	
Wienckow	ski, Natalie	General Motors	s Company		

Wienckowski, Natalie

Comment Type E Comment Status D

Consider replacing "ensure" per IEEE recommendation. Note: This wording is the same as 97.6.3, 113.7.3, 126.7.3, etc.

SuggestedRemedy

Change: To ensure the total alien NEXT loss and alien FEXT loss coupled between link segments is limited, power sum alien near-end crosstalk (PSANEXT) loss and power sum alien attenuation to crosstalk ratio far-end (PSAACR-F) is specified. To: Power sum alien near-end crosstalk (PSANEXT) loss and power sum alien attenuation to crosstalk ratio far-end (PSAACR-F) are specified to limit the total alien NEXT and alien FEXT coupled between link segments.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 149 SC	149.7.2.1	P 172	L 48	# i-	·11
Wienckowski, Na	atalie	General Motor	rs Company	-	
Comment Type	Е	Comment Status D			EZ

Consider replacing "ensure" per IEEE Mandatory Editorial Coordination comment.

SuggestedRemedv

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Change: In order to limit the alien crosstalk at the near end of a link segment, the differential pair-to-pair near-end crosstalk (NEXT) loss between the disturbed link segment and the disturbing link segment is specified to meet the bit error ratio objective. To: The differential pair-to-pair near-end crosstalk (NEXT) loss between the disturbed link segment and the disturbing link segment is specified to meet the bit error ratio objective by limiting the alien crosstalk at the near end of a link segment.

Proposed Response	Response Status	W	
PROPOSED ACCEPT.			

C/ 149	SC 149.7.2.2	P 17	73	L 42	# i-12
Wienckowski, Natalie		Gener	ral Motors Co	ompany	
Comment Ty	pe E	Comment Status	D		EZ

Consider replacing "ensure" per IEEE recommendation.

SuggestedRemedy

Change: To ensure the total alien FEXT coupled into a link segment, multiple disturber attenuation to crosstalk ratio far-end ACRF is specified as the power sum of the individual alien ACRF disturbers. To: Multiple disturber attenuation to crosstalk ratio far-end ACRF is specified as the power sum of the individual alien ACRF disturbers to limit the total alien FEXT coupled into a link segment.

Proposed Response	Response Status	W	

PROPOSED ACCEPT.

C/ 149	SC 149.8.2.2	P 175	L 45	# i-2
Mueller, T	homas			

Comment Type T Comment Status D F7

The intention of subclause 149.8.2.2 was to provide a measurement setup and electrical requirements for a proper shield termination of the linksegment to the MDI. As for today. there is not enough experience / data for a solid description of this test. Suggestion would be to leave this question to the implementer for now.

SuggestedRemedy

Suggest to remove subclause 149.8.2.2 from the standard due to a lack of information.

Proposed Response Response Status W

PROPOSED ACCEPT.

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149	SC 149.8.2.2	P 175	L 45	# i-79		C/ 149 SC 149.11.4.3.4 P 187 L 26 # i-14
Mcclellan,			conductor, Inc.			Wienckowski, Natalie General Motors Company
propo	ubclause '149.8.2.	Comment Status D 2 MDI coupling attenuation' hould be removed.	has no content ar	nd there has beer	EZ n no	Comment Type E Comment Status D Update PICS to match requirement text. SuggestedRemedy Delete: to ensure detection at link partner
delete	e subclause 149.8.	2.2				Proposed Response Response Status W
•	Response POSED ACCEPT.	Response Status W				PROPOSED ACCEPT.
C/ 149	SC 149.8.2.2	P 175	L 45	# i-21		C/ 149A SC 149A.3 P 196 L 32 # i-15
Nienckow	vski, Natalie	General Moto	ors Company			Wienckowski, Natalie General Motors Company
Comment	Туре Е	Comment Status D			EZ	Comment Type E Comment Status D Consider replacing "ensures" per IEEE Mandatory Editorial Coordination comment.
Empty	/ Subclause					Suggested Remedy
Proposed	e subclause Response POSED ACCEPT.	Response Status W				Change: This also ensures that connectors and cable are matched in terms of balance and shielding, in order to reach sufficient accuracy to measure coupling and screening attenuation. To: In order to reach sufficient accuracy to measure coupling and screening attenuation, the connectors and cable should be matched in terms of balance and shielding.
Cl 149 Mcclellan,	SC 149.9.2.1	P 176 Marvell Semi	L 33 conductor. Inc.	# i-80		Proposed Response Response Status W PROPOSED ACCEPT.
Comment	Type ER	Comment Status D copied from Clause 96, ISO	,	rrect reference	EZ	C/ 149A SC 149A.4 P 198 L 27 # Wienckowski, Natalie General Motors Company
Suggester Chan	<i>dRemedy</i> ge "ISO 167540-5'	' to "ISO 16750-5"				Comment Type E Comment Status D missing period
•	Response POSED ACCEPT.	Response Status W				SuggestedRemedy Add "." at end of paragraph.
	SC 149.11.4.2	.2 P 182 Aquantia	L1	# i-89		Proposed Response Response Status W PROPOSED ACCEPT.
	Ragnar	Aquantia				
Jonsson, I Comment	Type ER	Comment Status D PCS Receive" not "PCS Tra	ansmit"		EZ	
Suggeste	<i>Type</i> ER on title should be "I dRemedy	Comment Status D	ansmit"		EZ	

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

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149B SC 149B.2	P 202	L 29	# i-77	CI 45	SC 45.2.1.1	194 <i>P</i> 38	L 19	# i-56
Mcclellan, Brett	Marvell Semic	onductor, Inc.		Zimmerma	an, George	ADI, APL	Group, Aquantia, B	3MW, Cisco, CommScop
Comment Type ER	Comment Status D		EZ	Comment	Type TR	Comment Status D		Interleave
"PHY TempWarning" f warning"	or D5 doesn't match the bit na	me in 149B.3.3,	"Internal temperature	2.5GB	ASE-T1, and L	.2311.12:11 description ind =4 is reserved for 2.5GBAS	E-T1 and 5GBASE	E-T1, but the
SuggestedRemedy						t appear to say what happe e in those cases - will those		
change "PHY TempW	arning" to "Internal temperatur	e warning"				ne issue exists in Table 45-		0
Proposed Response	Response Status W			"reser	ved" is not corr	ect. what we mean is that t	hose values are no	ot defined.
PROPOSED ACCEPT	,			Suggested	Remedy			
C/ 149B SC 149B.4.1	P 204	L 33	# i-74	Table	45-155c, and (g "Reserved" to "undefined' 2) to add a new paragraph	to 45.2.1.194.1 sta	ating, "The values of L =
Mcclellan, Brett	Marvell Semic	onductor, Inc.				fined for 2.5GBASE-T1 PH` f bits 1.2311.12:11 are set t		
Comment Type E	Comment Status D		EZ			nk partner, but the requeste		
missing definition for +	+ operator					t be supported by the link p		
	ext: "The notation ++ after a co	ounter or integer	variable indicates that	and th whate	e value of L=4 ver value is rec	"The values of L = 2 and L= is not defined for 5GBASE- eived from the link partner,	T1 PHYs. Bits 1.23 but if the undefined	312.12:11 will indicate d values are received,
its value is to be incre					local PHY."	aver depth is out of scope o	i this standard and	may not be supported
Proposed Response	Response Status W			Proposed		Response Status W		
PROPOSED ACCEPT				PROP	OSED ACCEP	T IN PRINCIPLE.		
						Reserved" should be chang ne "=" is not consistent in th		n the identified cell, also
				1.231 ² "The v = 4 is values interle partne	1.12:11 in Table values of L = 2 a not defined for s, the PHY will o aver depth is o rr." Add a new	o "undefined" for the values e 45-155c, and (2) to add a and L = 4 are not defined fo 5GBASE-T1 PHYs. If bits 1 communicate these values ut of scope of this standard paragraph to 45.2.1.195.1 BASE-T1 PHYs, and the val	new paragraph to r 2.5GBASE-T1 PH .2311.12:11 are se to the link partner, l and may not be su stating, "The values	45.2.1.194.1 stating, HYs, and the value of L et to these undefined but the requested upported by the link s of L = 2 and L = 4 are

Topic Interleave

PHYs. Bits 1.2312.12:11 will indicate whatever value is received from the link partner, but if the undefined values are received, the requested interleaver depth is out of scope of this standard and may not be supported by the local PHY."

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149	SC 149.1	P 77	L 17	# i-94
Zimmerma	an, George	ADI, APL Gro	oup, Aquantia, BM	IW, Cisco, CommScop
Comment	Type T	Comment Status D		late

The overview and the draft indicate that clause 149 operates over a single balanced pair of conductors. As in other standards, this may include either cabling or a backplane link segment. However, in several portions of the link segment specification, the requirements are written so that ONLY a separate cabling link segment can be used. this is in conflict with the overview and purpose. A slight adjustment to the wording, and a conditional on the PICS will make it clear that requirements such as coupling attenuation and shielding attenuation are only intended to apply to cabling link segments.

SuggestedRemedy

page 167 line 10 : At 149.7, change the last sentence of the first paragraph from "The term link segment used in this clause refers to a single shielded balanced pair of conductors operating in full duplex. " to "The term link segment used in this clause refers to a single balanced pair of conductors (cable or backplane) operating in full duplex. ": Page 171 line 31: at 149.7.1.4, change the first sentence from "when tested using the IEC 62153-4-7 triaxial tube in tube method as specified in Annex 149A, the MultiGBASE-T1 link segment shall meet the coupling attenuation values " to "when tested using the IEC 62153-4-7 triaxial tube in tube method as specified in Annex 149A, where shielded balanced pair cabling is used, the MultiGBASE-T1 link segment shall meet the coupling attenuation values" ; Page 172 line 27: Change the first sentence of 149.7.1.5 for "The minimum screening attenuation..." to read "Where shielded balanced pair cabling is used, the minimum screening attenuation..."; Page 174 line 36: Change the first sentence of 149.8.1 from "The mechanical interface to the shielded balanced cabling " to "Where shielded balanced pair cabling is used, the mechanical interface to the shielded balanced cabling"; Page 179 line 10, 149.11.3, insert row for *INS after row for *EEE, reading "*INS | Installation / cabling | 149.7 | Items marked with INS include installation practices and cabling specifications applicable when the link segment is balanced pair cabling, and not applicable to backplane link segments | O | Yes []<cr> No []"; on page 193 line 12, Change status of row for LSC5 to "M:INS"

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 149	SC 149.3.9.3	P 135	L 27	# i-93
Tu, Mike				

Comment Type T Comment Status D

The register bit mappings for OAM status messages are inconsistent with the definition given in Figure 149-25 (line 30 and line 34 on page 142).

SuggestedRemedy

In Table 149-9, the last column: 1. On line 27, change from "mr_tx_message[95:88]" to "mr_tx_message[87:80]". 2. On line 29, change from "mr_tx_message[87:80]" to "mr_tx_message[95:88]". 3. On line 36, change from "mr_rx_message[95:88]" to "mr_rx_lp_message[87:80]". 4. On line 39, change from "mr_rx_message[87:80]" to "mr_rx_lp_message[95:88]".

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 149	SC	149.3.9.3	P 135	L 32	# i-92	
Tu, Mike						
Comment	Туре	т	Comment Status D			late
The va	riable	"mr_rx_mes	sage" does not exist. Its na	ame should be "r	mr_rx_lp_message"	

SuggestedRemedy

Within Table 149-9, on line 32, 34, 37, and 39, replace "mr_rx_message" by "mr_rx_lp_message".

Proposed Response Response Status W

PROPOSED ACCEPT.

Topic late

late

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

Link Segment

C/ 149	SC 149.7.2.1	P 172	L 52	#	i-49

Kumada, Taketo

Comment Type **T** Comment Status **D**

Equation 149-25 draws this required line based on the measurement results when all the cables configured around are composed of STP cables in the 4 around 1 measurement. Therefore, I think it is necessary to include a comment that clearly states that all the cables that are configured around are STP cables. This is because it is assumed that it is difficult to satisfy this requirement when the surrounding cables are composed of cables such as J-UTP cable and UTP cable.

SuggestedRemedy

After Equation 149-25, please add as follows. However, this equation is for the case where the surrounding cables are composed of STP cables.

Proposed Response Response Status W

PROPOSED REJECT.

The CRG disagrees with the commenter. This equation defines what is required for the PHYs to operate properly. This applies to all link segments. While it is likely that only shielded cables can meet this requirement, specifying that this requirement only applies to shielded cables would have the unintended side effect of allowing a violation of this equation's limits if unshielded cables were used.

C/ 149	SC 149.7.2.2	P 173	L 47	# i-50

Kumada, Taketo

Comment Type T Comment Status D

Link Segment

Equation 149-26 draws this required line based on the measurement results when all the cables configured around are composed of STP cables in the 4 around 1 measurement. Therefore, I think it is necessary to include a comment that clearly states that all the cables that are configured around are STP cables. This is because it is assumed that it is difficult to satisfy this requirement when the surrounding cables are composed of cables such as J-UTP cable and UTP cable.

SuggestedRemedy

After Equation 149-26, please add as follows. However, this equation is for the case where the surrounding cables are composed of STP cables.

Proposed Response Response Status W

PROPOSED REJECT.

The CRG disagrees with the commenter. This equation defines what is required for the PHYs to operate properly. This applies to all link segments. While it is likely that only shielded cables can meet this requirement, specifying that this requirement only applies to shielded cables would have the unintended side effect of allowing a violation of this equation's limits if unshielded cables were used.

C/ 149C SC	C 149C.3	P 208	L 46	# i-90
Jonsson, Ragna	ır	Aquantia		
Comment Type	Е	Comment Status D		MDI

The equation references b, c, and d, in footnotes to Table 149C-1 are incorrect

SuggestedRemedy

Remove footnotes a, b, c, and d,

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Remove the references to the footnotes in the heading row of Table 149C-1 and remove the footnotes below the table.

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

CI 149C SC 149C.5	P 212	L 6	# i-60	C
Zimmerman, George	ADI, APL Group	, Aquantia, Bl	MW, Cisco, CommScop	L
Comment Type T	Comment Status D		MDI	C

In multiport designs, there is confusion as to whether port-to-port crosstalk in the MDI or on the board are goverend by the "coupling between link segments" (alien crosstalk) specified in the main clause. They are not. MDI to MDI coupling or trace to trace coupling are in addition. In general, they should be less than or equal to the alien crosstalk specification.

SuggestedRemedy

Insert 149.C.5 after 149C.4.3, entitled: Coupling between ports on multiport designs, with text: "When multiple MultiGBASE-T1 PHYs are implemented on the same board, care should be taken to avoid coupling between ports. The coupling between adjacent ports on a multiport MDI connector or between adjacent traces is recommended to be approximately the same level, but no greater, than that specified for power sum alien near end crosstalk specified in Equation 149-25." Additionally, add a second paragraph to 149.7.2, page 172 line 42, to read "For implementations with multiple MultiGBASE-T1 ports on the same MDI connector assembly, coupling between ports on the MDI connector is not considered to be part of the PSANEXT and PSAFEXT specification. For further information, see 149.C.5."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

At the end of the proposal "specification" should be "specifications" and remove specific types of crosstalk and replace with alien crosstalk.

Insert 149.C.5 after 149C.4.3, entitled: Coupling between ports on multiport designs, with text: "When multiple MultiGBASE-T1 PHYs are implemented on the same board, care should be taken to avoid coupling between ports. The coupling between adjacent ports on a multiport MDI connector or between adjacent traces is recommended to be approximately the same level, but no greater, than that specified for power sum alien near end crosstalk specified in Equation 149-25." Additionally, add a second paragraph to 149.7.2, page 172 line 42, to read "For implementations with multiple MultiGBASE-T1 ports on the same MDI connector assembly, coupling between ports on the MDI connector is not considered to be part of the alien crosstalk specifications. For further information, see 149.C.5."

- C/ 149 SC 149.1.3.1 P 79 L 41 # i-51
- Comment Type T Comment Status D Nomenclature

tx_group50x65B is used in several places but it loosely defined and never formally defined. There can be misinterpretation of the bit ordering.

SuggestedRemedy

(Editorial Note. I cannot show subscripts in the spreadsheet so I will enclose anything that needs to be subscripted with **. For example A*n* is An with n subscripted. I'm not sure if the carriage return will show up in the file so a <cr> means carriage return.) <Begin proposed Change> In line 47 insert the following: <cr> tx_group50x65B<3249:0> is defined as: <cr> tx_group50x65B<65 * i + j> = tx_coded*i*<j> <cr> where i = 0 to 49 and j = 0 to 64 and tx_coded*i*<64:0> is the ith 64B/65B block where tx_coded*0*<64:0> is the first one transmitted.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

The text description of what to do is hard to understand and the usage of "*" to indicate both subscripts and multiplication is confusing.

Implement the changes show in wienckowski 3ch D3p0 comment51.pdf.

C/ 149B	SC	149B.2	P 2	02	L 32	#	i-75	
Mcclellan, B	rett		Marve	ell Semicon	ductor, Inc.			
Comment Ty	уpe	TR	Comment Status	D				OAM
OAM S	mbol	11 hits 7.0	are 'Reserved' whit	h means tl	nev cannot h	he used for	anv nu	rnose

OAM Symbol 11 bits 7:0 are 'Reserved' which means they cannot be used for any purpose and a compliant device must set these bits to zero. The proposal for this definition(http://www.ieee802.org/3/ch/public/nov18/wienckowski_3ch_01b_1118.pdf) indicated that this symbol is reserved for future use, however it cannot be used by a device compliant to this informative annex.

Making these vendor defined bits allows them to be defined by OEMs or other organizations. Leaving these bits as zero for later use isn't necessary as any later project is free to define a new status structure.

SuggestedRemedy

page202 line 32 change Symbol 11 bits D7 to D0 from individual reserved bits to "Vendor-specific field <7:0>"

page 203 line 49 insert new subclause 149B.3.7 and renumber remaining subclauses: "149B.3.7 Vendor-specific field

Vendor-specific field <7:0> is indicated in OAM<11><7:0> and may be used to convey a vendor defined data field.

Proposed Response Response Status W

PROPOSED ACCEPT.

Topic OAM

C/ 149B SC	C 149B.3	P 203	L 5	# i-76		C/ 104	SC	04.9.4.3	P 70	L 35		# i-71	
/Icclellan, Brett		Marvell Semice	onductor, Inc.			Zimmermar	n, Geo	orge	ADI, APL Gro	up, Aquantia, E	BMW, Ci	isco, Com	ımScop
Comment Type	TR	Comment Status D			OAM	Comment T	Гуре	TR	Comment Status D				PoDL
implementor managemen These bits a updated in r For these bit DegradedLin PolarityInver SuggestedReme page 203 or this status is	r to decide, nt entity at the registers 1.2 ts: PowerSunkSegment rision is a st edy n lines 9, 18 s set for a m	ation for which these defined of but how long should the indic he link partner has an opportu- ed into latched indicators at the 318 and 1.2319 as they arrive upplyWarning, PHY TempWar we should recommend a min atic condition throughout the l atic condition throughout the l d d d d d d d d d d d d d d d d d d d	ator bits be set = nity to detect the e link partner, bits ning, No MACM imum indication ink, and therefor	1 to ensure the ese status bits? ut are continuous essagesWarning time. re not an issue recommended th	g, hat	and PD which tr row Suggestedf Change 104.9.4 item PD (unchan PD ripp 104-7 fi	22. A gype Reme e editi 1.3 as D20, a D20, a nged D1e an for all	Additionally Adso, the o ady ing instructi follows (un and new Plo rows not sh d transients operating v	e separate 'shalls' and Type this creates confusion as to option code should be PDTF on from "Change item PD20 changed rows not shown):" t CS item PD22a after item PD town):" - change PICS items = 104.5.6.4 In accordance oltages in the range of VPD	which return lo in both cases, and item PD22 o "Insert new F 22 in the table in rows to rea se with specific sourced throug	2 in the t PICS item in 104.9 d: "PD20 ations s gh a dc b	ls to be us ETF on th m PD20a 9.4.3 as fo 0a Tyj hown in T bias coupl	sed for he first after ollows pe F Fable ling
managemer	•								loss as specified by Clause d "PD22a Type F PD mea				
Proposed Respo PROPOSED		Response Status W				104.5	5.6.4		er function H2(f) specified in				
C/ 149B SC	2 149B.4.2.	1 P 206	L 12	# i-78		Proposed F	Respo	onse	Response Status W				
Acclellan, Brett		Marvell Semice				PROPO	OSED	ACCEPT I	N PRINCIPLE.				
Comment Type	т	Comment Status D			OAM	An add	litiona	al change is	needed.				
rf_valid and	RX_FRAM	E are used without definition i	n Figure 149B-2					Ū				_	
SuggestedReme page 205 lin		new variable definition					PoDL		04.9.4 PICS proforma tables Balanced Twisted-Pair Ether				
" rf_valid Defined in 1	49.3.7.2.2" ne 23 insert Counters	new subclause				"Chang not sho after ite change	ge iten own):" em PE e PICS	m PD20 and ' to "Insert n D22 in the ta S items in ro	requestesd by the commenter d item PD22 in the table in 10 ew PICS item PD20a after it able in 104.9.4.3 as follows (in pws to read: "PD20a Type	4.9.4.3 as follo em PD20, and unchanged row e F PD ripple a	ows (und new Pl(vs not sh ind trans	changed r CS item P nown):" - sients	rows PD22a
Proposed Respo	onse	Response Status W							ce with specifications shown VPD sourced through a dc b				
PROPOSED	O ACCEPT	IN PRINCIPLE.				loss as	spec	ified by Cla	use 149, and over the range	of PPD. *P	DTF:M	Yes []"	and
The subclau	ise 149B.4.2	2.2 already exists. RX_FRAM	1E is not a Coun	ter but a messag	ge.	transfei	r func		measured ripple voltage post pecified in Equation (104-3)				
P205 L16 in 149.3.7.2.2"		riable definition, with appropr	ate formatting, "	rf_valid -> Defin	ned in		1						
		ubclause, with appropriate for -> RX_FRAME -> Defined in											

Topic **PoDL**

C/ 104	SC 104.9.4.3	P 70	L 35	# i-85		C/ 149	SC 149.3	2.2.14	P 100	L 29	# i-52
Jonsson,	Ragnar	Aquantia				Lo, William					
Comment	Type TR	Comment Status D			PoDL	Comment 7	Туре Т	Comme	ent Status D		RS-FEC
		ould be: *PDTB:M *PDTF:M. bu spec has it correct)	The item (PD2	0) is referred to PE	C	"For bo	oth x and c (s	ee 149.3.2.2.1	7) the encoder sha	all follow the not	
Suggeste	dRemedy										is the first bit into the d there is no concept
	e PD20 row and S TF:M" to "*PDTF:	Status column, change "*PSE ⁻ M".	TB:M" to "*PDT	B:M" and change		of MSE MSB/L	3 or LSB. ci SB? For exa	a vector with mple page 10	MSB and LSB, bu 2 line 6 m is the bi	t which bit of c is t vector <m9, m8<="" td=""><td>s considered the 3, m7, m6, m0> is</td></m9,>	s considered the 3, m7, m6, m0> is
,	Response POSED ACCEPT I	Response Status W							ent m9 the LSB? T dequate detail.	his text is not re	ally necessary since
11(01	COLD ACOLL 11					Suggested	Remedy				
Accor	nodated by respor	nse to comment #71 with the	relevant portior	n copied here.					th x and c (see 14		
accor	dance with specific	ad: "PD20a Type F PD rip cations shown in Table 104-7	for all operating	g voltages in the rar	nge	of the v	ectors x and	c) is the first l	bit into the RS-FEC	c encoder and th	LSB (leftmost element he first transmitted bit." e the text alone I'm ok.
		a dc bias coupling network v e range of PPD. *PDTF:M		loss as specified by	y	Proposed F	Response	Respons	se Status W		
C/ 104	SC 104.9.4.3	P70	L 35	# i-86		PROP	OSED ACCE	PT IN PRINCI	PLE.		
			L 35	# i-86		Delete	"For both x a	nd c (see 149	.3.2.2.17) the enco	oder shall follow	the notation described
Jonsson, Commont	0	Aquantia Comment Status D			PoDL	in 149.	3.2.2.3 wher	e the LSB (left	most element of th		c) is the first bit into
Comment	51	use 97" should be: "Clause 9	7 or Clause 140			the RS	-FEC encode	er and the first	transmitted bit."		
Туре	F. The feature cov	ers both Type B and Type F,				C/ 149	SC 149.3	2.2.17	P 102	L 7	# <u>i</u> -53
shoul	d be mentioned in	addition to Clause 97.				Lo, William					
Suggeste	dRemedy					Comment 7	Туре Т	Comme	ent Status D		RS-FE
For th 149"	e PD20 row and V	/alue/Comment colum change	e "Caluse 97" to	o "Clause 97 or Cla	ause	30 stat	e bit 0 is trar	smitted first.	From Page 102 line	e 6 m*i,0* can b	xplicit. Page 102 line e inferred as bit 0 but
,	Response POSED ACCEPT I	Response Status W							100 line 29 adds to m*i,9* being the lef		nat states the leftmost
FNOF	OGED ACCEPTI					Suggested	Remedy				
		as to comment #71 with the									

Accomodated by response to comment #71 with the relevant portion copied here.

Change PD20 row to read: "PD20a | Type F PD ripple and transients | 104.5.6.4 | In accordance with specifications shown in Table 104-7 for all operating voltages in the range of VPD sourced through a dc bias coupling network with MDI return loss as specified by Clause 149, and over the range of PPD. | *PDTF:M | Yes []"

Add the following for more clarity. Page 102 line 7 after the end of "finite field." add: "m*i,0* is the first bit transmitted." Add the following to make things complete. Copy first sentence in page 102 line 6 to page 102 line 22 except replace "message" with "parity" and "m", with "p", add: "p*i,0* is the first bit transmitted."

Proposed Response Response Status W

PROPOSED ACCEPT.

Topic RS-FEC

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

		,	, ,			0			
C/ 149	SC 149.3.7	1 <i>P</i> 113	L 21	#	i-32		C/ 149	SC	C 149.3
Wienckow	ski, Natalie	General Motor	s Company				Wienckow	ski, Na	atalie
Comment	Туре Т	Comment Status D			State Dia	grams	Comment	Туре	т
Delete	e the reference	o state diagram notation as thi	is is done in 149	9.1.6 for t	he Clause).	Delete	the re	eferenc
Suggeste	dRemedy						Suggested	lReme	∍dy
	e "The notation scribed in 21.5."	used in the state diagrams follo	ws the convention	ions of sta	ate diagra	ms			notatio d in 21.
Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉					Proposed	Respc	onse
PROF	POSED ACCEP	Т.					PROP	OSED	D ACCE
C/ 149	SC 149.3.7	P 123	L 18	#	i-64		C/ 149	SC	149. 4
Zimmerma	an, George	ADI, APL Grou	up, Aquantia, BN	MW, Cisc	o, Comm	Scop	Mcclellan,	Brett	
Comment	Type TR	Comment Status D			State Dia	grams	Comment	Туре	Е
tx_lpi tx_ale Other	_active is false t rt_start_next. S wise, if tx_alert_	N may need a recirculating fund before exiting, and continuously state diagrams only evaluate the start_next were false on entry,	re-evaluate the e condition on e TX_WN would e	e condition entry to a enter, set	n state. t tx_coded	l to	149.4. State o	.2.6.4 l diagra	iagram lacks c im conv entions
		ith tx_lpi_req possibly still in the low SNR message). According				set	Suggested	lReme	∍dy
FALŠ		AL and TRUE in SEND_SLEEF				301	"149.4	.2.6.1	ubclau Detail 1 State
Suggeste	dRemedy								this su
existi		exit condition to exit "C" to add d add an additional exit to TX_V FALSE				!	definit discre	ions of pancy	f const betwe ext, the

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Need to use standard state diagram conventions of !tx_lpi_req in the added conditions.

Change the exit condition to exit "C" to add an " * $!tx_lpi_req$ " to the existing condition, and add an additional exit to TX_WN, re-entering TX_WN with the condition $!tx_lpi_req$

C/ 149	SC 149.3.9.4.	1 P1	36	L 9	#	i-33
Wienckow	ski, Natalie	Gene	ral Moto	rs Company		
Comment	Туре Т	Comment Status	D			State Diagrar
Delete	the reference to	state diagram notati	on as th	is is done in 149.	1.6 for t	ne Clause.
Suggested	Remedy					
	"The notation use cribed in 21.5."	ed in the state diagr	ams follo	ows the convention	ons of sta	ate diagrams
Proposed	Response	Response Status	w			
PROP	OSED ACCEPT.					
C/ 149	SC 149.4.2.6.	1 <i>P</i> 1	51	L 43	#	i-81
Mcclellan,	Brett	Marve	ell Semic	conductor, Inc.		
Comment	Туре Е	Comment Status	D			State Diagrar
149.4. State o	2.6.4 lacks descri diagram conventio	on including subclau ption of the state dia ons are stated in 149 only to those subcl	agram co 9.3.7.1 a	onventions.		
Suggested	Remedy					
"149.4 149.4. The bo definiti discre	.2.6.1 Detailed fur 2.6.1.1 State diag	use is comprised of variables, functions	agrams state dia	grams, including	the asso	
		e diagram prevails. e state diagrams follo	ows the	conventions of 21	.5. "	

This text is not needed as this is done in 149.1.6 for the Clause. The conventions are being removed from 149.3.7.1 (Comment 32) and 149.3.9.4.1 (Comment 33).

Topic State Diagrams

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149 SC 149.4.4 P 155 L 43 # i-82	C/ 149B SC 149B.4.1 P 204 L 33 # i-34
Mcclellan, Brett Marvell Semiconductor, Inc.	Wienckowski, Natalie General Motors Company
Comment Type E Comment Status D State Diagrams	Comment Type T Comment Status D State Diagrams
This state diagram section including subclauses 149.4.4.1, 149.4.4.2, and 149.4.5 lacks description of the state diagram conventions.	Need to add reference to state diagram notation extensions as done in 149.1.6.
State diagram conventions are stated in 149.3.7.1 and 149.3.9.4.1, however the text states	SuggestedRemedy
those conventions apply only to those subclauses.	Change "The notation used in the state diagrams follows the conventions of state diagrams
SuggestedRemedy	as described in 21.5." To "The notation used in the state diagrams follows the conventions of state diagrams as described in 21.5, along with the extensions described in
Insert new subclauses and renumber remaining subclauses as needed.	145.2.5.2."
"149.4.4 Detailed functions and state diagrams	
149.4.4.1 State diagram conventions	Proposed Response Response Status W
The body of this subclause is comprised of state diagrams, including the associated	PROPOSED ACCEPT.
definitions of constants, variables, functions, counters, and messages. Should there be a	Should be "FALSE" only when this represents a variable value.
discrepancy between a state diagram and	
descriptive text, the state diagram prevails.	
The notation used in the state diagrams follows the conventions of 21.5. "	Change "false" to "FALSE" on P114 L18, P114 L31, P115 L19, P115 L34, P115 L38, P115 L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7,
Proposed Response Response Status W	P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126
PROPOSED REJECT.	L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152
	L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13,
This text is not needed as this is done in 149.1.6 for the Clause. The conventions are being removed from 149.3.7.1 (Comment 32) and 149.3.9.4.1 (Comment 33).	P206 L6, P206 L30, P206 L41.
	Also, change "False" to "FALSE" on P136 L20.

Topic State Diagrams Pa