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

C/ 149 SC 149.4.2.4	4.5 <i>P</i>	L	# 168		C/ 00	SC O	P 10	L 47	# 117
Razavi, Alireza	Aquantia				Zimmerma	an, George	CME Cons	ulting/ADI, APL G	o, Aquantia, BMW, Cisc
Comment Type E	Comment Status R			EZ	Comment	Type E	Comment Status D	0	
SuggestedRemedy							nendments missing from the now in SA ballot. 802.3cn is		
					Suggested	Remedy			
Response	Response Status C				Insert	missing amend	ments in correct order in fro	nt matter	
REJECT.					Proposed I	Response	Response Status W		
empty comment					PROP	OSED ACCEP	T.		
C/ 00 SC 0	P 1	L 18	# 64		C/ FM	SC FM	P 10	L 48	# 57
Maguire, Valerie	The Siemon C	Company			Wienckows	ski, Natalie	General M	otors	
Comment Type E	Comment Status D			EZ	Comment	Туре Е	Comment Status D		l
Use oxford comma.					IEEE S	Std 802.3cn-20	xx - Amendment 4		
	Gb/s and 10 Gb/s" with "2.5 G	Sb/s. 5 Gb/s. and	d 10 Gb/s".		Suggested Add ⁻ I	,	cn™-20xx		
SuggestedRemedy Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEP1	Gb/s and 10 Gb/s" with "2.5 G <i>Response Status</i> W T.	Gb/s, 5 Gb/s, and	d 10 Gb/s".		Add: I Ameno Gb/s, 2	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4	cn™-20xx amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches	ecifications and ma	
Replace, "2.5 Gb/s, 5 Proposed Response	Response Status W	Gb/s, 5 Gb/s, and			Add: I Ameno Gb/s, 2	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4 eration over sin	amendment includes chang 400 Gb/s Physical Layer spe	ecifications and ma	
Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEPT C/ FM SC	Response Status W T. P 2	L 5	d 10 Gb/s". # 40		Add: I Ameno Gb/s, 2 for ope Proposed I	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4 eration over sin	amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches <i>Response Status</i> W	ecifications and ma	
Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEPT C/ FM SC Marris, Arthur	Response Status W T.	L 5		EZ	Add: I Ameno Gb/s, 2 for ope Proposed I	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4 eration over sin <i>Response</i>	amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches <i>Response Status</i> W	ecifications and ma	
Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEPT C/ FM SC Marris, Arthur Comment Type E "This amendment to IB	Response Status W T. P2 Cadence Des Comment Status D EEE Std 802.3-2018 adds phy	L 5 sign Systems vsical layer spec	# <u>40</u> ifications and		Add: I Amena Gb/s, 2 for ope Proposed I PROP C/ FM	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4 eration over sin Response POSED ACCEP SC FM	amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches <i>Response Status</i> W T. <i>P</i> 10	ecifications and ma of at least 40 km. <i>L</i> 51	nagement parameters
Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEPT C/ FM SC Marris, Arthur Comment Type E "This amendment to IE management paramet	Response Status W T. P2 Cadence Des Comment Status D EEE Std 802.3-2018 adds phy ters for 2.5 Gb/s, 5 Gb/s, and 2	<i>L</i> 5 sign Systems vsical layer spec 10 Gb/s operatio	# <u>40</u> ifications and		Add: I Amena Gb/s, 2 for ope Proposed I PROP C/ FM Wienckows	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4 eration over sin <i>Response</i> 20SED ACCEP SC FM ski, Natalie	amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches <i>Response Status</i> W T. <i>P</i> 10 General Me	ecifications and ma of at least 40 km. <i>L</i> 51	nagement parameters # <u>58</u>
Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEPT C/ FM SC Marris, Arthur Comment Type E "This amendment to IE management paramet pair of conductors suit	Response Status W T. P2 Cadence Des Comment Status D EEE Std 802.3-2018 adds phy	<i>L</i> 5 sign Systems vsical layer spec 10 Gb/s operatio	# <u>40</u> ifications and		Add: I Amena Gb/s, 2 for ope Proposed I PROP C/ FM Wienckows Comment	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4 eration over sin <i>Response</i> POSED ACCEP SC FM ski, Natalie <i>Type</i> E	amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches <i>Response Status</i> W T. <i>P</i> 10 General Mo <i>Comment Status</i> D	ecifications and ma of at least 40 km. <i>L</i> 51	nagement parameters
Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEPT C/ FM SC Marris, Arthur Comment Type E "This amendment to IE management paramet pair of conductors suit SuggestedRemedy	Response Status W T. P2 Cadence Des Comment Status D EEE Std 802.3-2018 adds phy ters for 2.5 Gb/s, 5 Gb/s, and 2	<i>L</i> 5 sign Systems vsical layer spec 10 Gb/s operatio	# <u>40</u> ifications and		Add: I Amena Gb/s, 2 for ope Proposed I PROP C/ FM Wienckows Comment IEEE S	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4 eration over sin <i>Response</i> POSED ACCEP SC FM ski, Natalie <i>Type</i> E Std 802.3cg-202	amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches <i>Response Status</i> W T. <i>P</i> 10 General Me	ecifications and ma of at least 40 km. <i>L</i> 51	nagement parameters # <u>58</u>
Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEPT C/ FM SC Marris, Arthur Comment Type E "This amendment to IE management paramet pair of conductors suit SuggestedRemedy Change to:	Response Status W T. P2 Cadence Des Comment Status D EEE Std 802.3-2018 adds phy ters for 2.5 Gb/s, 5 Gb/s, and 7 table for applications." does no	<i>L</i> 5 sign Systems vsical layer spec 10 Gb/s operation ot read right	# 40 ifications and on on a single balan		Add: I Amena Gb/s, 2 for ope Proposed I PROP C/ FM Wienckows Comment IEEE S Suggested	IEEE St 802.3 dment 4—This 200 Gb/s, and 4 eration over sin <i>Response</i> OSED ACCEP SC FM ski, Natalie <i>Type</i> E Std 802.3cg-20: <i>IRemedy</i>	amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches <i>Response Status</i> W T. <i>P</i> 10 General Ma <i>Comment Status</i> D xx - Amendment 5	cifications and ma of at least 40 km. <i>L</i> 51 otors	nagement parameters # <u>58</u>
Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEPT C/ FM SC Marris, Arthur Comment Type E "This amendment to IB management paramet pair of conductors suit SuggestedRemedy Change to: "This amendment to IB management paramet	Response Status W T. P2 Cadence Des Comment Status D EEE Std 802.3-2018 adds phy ters for 2.5 Gb/s, 5 Gb/s, and 7 table for applications." does no EEE Std 802.3-2018 adds phy ters for 2.5 Gb/s, 5 Gb/s, and 7	<i>L</i> 5 sign Systems vsical layer spec 10 Gb/s operation ot read right vsical layer spec 10 Gb/s operation	# 40 ifications and on on a single balan ifications and	ced	Add: I Amena Gb/s, 2 for opsed I PROP C/ FM Wienckows Comment IEEE S Suggested Add: /	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4 eration over sin <i>Response</i> POSED ACCEP SC FM ski, Natalie <i>Type</i> E Std 802.3cg-20: <i>IRemedy</i> Amendment 5—	amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches <i>Response Status</i> W T. <i>P</i> 10 General Mo <i>Comment Status</i> D xx - Amendment 5 – after the title for cg and be	cifications and ma of at least 40 km. <i>L</i> 51 otors	nagement parameters # <u>58</u>
Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEPT C/ FM SC Marris, Arthur Comment Type E "This amendment to IE management paramet pair of conductors suit SuggestedRemedy Change to: "This amendment to IE management paramet pair of conductors suit	Response Status W T. P2 Cadence Des Comment Status D EEE Std 802.3-2018 adds phy ters for 2.5 Gb/s, 5 Gb/s, and 7 table for applications." does no EEE Std 802.3-2018 adds phy ters for 2.5 Gb/s, 5 Gb/s, and 7 table for automotive application	<i>L</i> 5 sign Systems vsical layer spec 10 Gb/s operation ot read right vsical layer spec 10 Gb/s operation	# 40 ifications and on on a single balan ifications and	ced	Add: I Amena Gb/s, 2 for ope Proposed I PROP C/ FM Wienckows Comment IEEE S Suggested Add: / Proposed I	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4 eration over sin <i>Response</i> POSED ACCEP SC FM ski, Natalie <i>Type</i> E Std 802.3cg-200 dRemedy Amendment 5— <i>Response</i>	amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches <i>Response Status</i> W T. <i>P</i> 10 General Mo <i>Comment Status</i> D xx - Amendment 5 – after the title for cg and be <i>Response Status</i> W	cifications and ma of at least 40 km. <i>L</i> 51 otors	nagement parameters # <u>58</u>
Replace, "2.5 Gb/s, 5 Proposed Response PROPOSED ACCEPT C/ FM SC Marris, Arthur Comment Type E "This amendment to IE management paramet pair of conductors suit SuggestedRemedy Change to: "This amendment to IE management paramet	Response Status W T. P2 Cadence Des Comment Status D EEE Std 802.3-2018 adds phy ters for 2.5 Gb/s, 5 Gb/s, and 7 table for applications." does no EEE Std 802.3-2018 adds phy ters for 2.5 Gb/s, 5 Gb/s, and 7 table for automotive application Response Status W	<i>L</i> 5 sign Systems vsical layer spec 10 Gb/s operation ot read right vsical layer spec 10 Gb/s operation	# 40 ifications and on on a single balan ifications and	ced	Add: I Amena Gb/s, 2 for ope Proposed I PROP C/ FM Wienckows Comment IEEE S Suggested Add: / Proposed I	IEEE Std 802.3 dment 4—This 200 Gb/s, and 4 eration over sin <i>Response</i> POSED ACCEP SC FM ski, Natalie <i>Type</i> E Std 802.3cg-20: <i>IRemedy</i> Amendment 5—	amendment includes chang 400 Gb/s Physical Layer spe gle-mode fiber with reaches <i>Response Status</i> W T. <i>P</i> 10 General Mo <i>Comment Status</i> D xx - Amendment 5 – after the title for cg and be <i>Response Status</i> W	cifications and ma of at least 40 km. <i>L</i> 51 otors	nagement parameters # <u>58</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: Page, Line

Pa **10** Li **51**

.										Gb/s Au			
C/ FM	SC FM	P 11	L 4	# 37		C/ FM	SC		P 2	2	L 6	# 41	
Vienckows	ski, Natalie	General Motors				Marris, Arth	hur		Cade	nce Desig	n Systems		
Comment	Туре Е	Comment Status D			ΕZ	Comment	Туре	Е	Comment Status	D			E
Missin	g 149C in the de	scription of the ammendment.				Title is	wrong.						
Suggested	Remedy					Suggested	Remedy	/					
		149 and Annex 149A and Anne nd Annex 149A, Annex 149B, a				"Draft		d for Eth	ernet Amendment:	_			
Proposed I PROP	Response OSED ACCEPT.	Response Status W							cations and Managen rical Ethernet"	nent Paran	neters for 2.5 (Gb/s, 5 Gb/s and	10
C/ FM	SC FM	P 11	L 6	# 60		Autom	otive Eth	nernet P	g page headers to so 'HY Task Force" EE P802.3ch Task F	-			Gig
	ski, Natalie	General Motors				Manag	ement F	Paramete	ers for 2.5 Gb/s, 5 Gt	orce. Fills	Gb/s Automot	ive Electrical Ethe	ernet"
Comment	51	Comment Status D			ΕZ	Proposed I			Response Status				
IEEE S	Std 802.3cm-20x	x - Amendment 7				-			IN PRINCIPLE.	••			
Physic on four over re	r pairs (400GBAS eaches of at leas	pecifications and management p SE-SR4.2) and eight pairs (4000				Gb/s A	utomotiv	ve Electi he page	ations and Managem rical Ethernet" header as it is suppo P 2	osed to be			
100 m.									_	-			0.
•	Response	Response Status W				Zimmerma		5	CME Comment Status		g/ADI, APL Gp	o, Aquantia, BMW	, Cisco Ež
PROP	OSED ACCEPT.					Comment	•••	T	N IS OPTIONAL sho			T1' otherwise the	<i></i>
;/ FM	SC FM	P11	L 6	# 59		asteris		like a ge	eneral comment on at				
	,	General Motors				Suggested							
		Comment Status D			EZ				1" after "AUTO-NEG	OTIATION	I IS OPTIONAL	L"	
Comment	51	- Amendment 6											
Comment T IEEE S	Std 802.3cq-20xx	- Amendment 6				Proposed I	Respons	se	Response Status	Z			
Comment ^{**} IEEE S Suggested	Std 802.3cq-20xx Remedy					,	Respons OSED R		•	Z			
Comment IEEE S Suggested Add: I Ameno	Std 802.3cq-20xx <i>Remedy</i> EEE Std 802.3cc Iment 6—This ar			ctions, refineme	ents,	PROP	, OSED R	REJECT.	•				
S <i>uggested</i> Add: I Ameno	Std 802.3cq-20xx <i>Remedy</i> EEE Std 802.3cd Iment 6—This ar arifications to Cla	זי nendment includes editorial and		ctions, refineme	ents,	PROP	, OSED R	REJECT.	,				

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: Page, Line

Pa **28** Li **50**

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

CI 44 SC 44.1.4.4 P 30 L 43 # 66	Cl 45 SC 45.2.1.7.5 P 33 L 3 # 121
Tu, Mike Broadcom	Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco
Comment Type E Comment Status D EZ	Comment Type E Comment Status D E
I think "gray code" should be "Gray code".	PHY names should not break across lines.
SuggestedRemedy	SuggestedRemedy
Change "gray code" to "Gray code"	Widen first column of Tables 45-9 and 45-10 and use non-breaking hyphens in BASE-T1
Proposed Response Response Status W	instances. (do both - this way no matter what happens in the future, PHY names won't break across lines.)
PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W
This comment does not apply to the substantive changes between IEEE P802.3ch 2.0 and	PROPOSED ACCEPT.
D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the	
scope of the recirculation ballot.	C/45 SC 45.2.1.7.4 P 33 L 5 # 2
Change "gray code" to "Gray-code" as "Gray" is based on a name and this is how it is	Anslow, Pete Ciena
written in this and other Clauses.	Comment Type E Comment Status D E
V 45 SC 45.2.1 P 32 L 29 # 120	The empty rows in Table 45-9 and Table 45-10 should contain an ellipsis
	SuggestedRemedy
Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco Comment Type E Comment Status D	Add an ellipsis to the empty rows (two instances per table)
Comment Type E Comment Status D EZ "Minimum SNR margin" - Minimum should not be capitalized (it isn't the first word or an	Proposed Response Response Status W
acronym)	PROPOSED ACCEPT.
SuggestedRemedy	C/ 45 SC 45.2.1.18 P 34 L 24 # 3
Change Minimum to minimum.	
Proposed Response Response Status W	Anslow, Pete Ciena
PROPOSED ACCEPT IN PRINCIPLE.	Comment Type E Comment Status D E
	"Add" is not a valid editing instruction. Table 45-21 is not being changed, so should not be shown.
This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it	Notes should use the paragraph tag "Note"
is not within the scope of the recirculation ballot.	SuggestedRemedy
	Change the editing instruction to: "Insert the following note below Table 45-21:"
Make suggested change to follow IEEE802.3 style.	Delete Table 45-21.
	Apply Paragraph tag "Note" to the note.
	Proposed Response Response Status W
	PROPOSED ACCEPT.

Pa **34** Li **24**

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

C/ 45 SC 45.2.1.193 P3	7 L 7	# 97		C/ 45	SC 45.2.1.1	94	P 39	L 19	# 98	
Graba, Jim Broad	com			Graba, Jir	n		Broadcom			
Comment Type E Comment Status	D		ΕZ	Comment	Туре Е	Comment S	Status D			E
In Table 45-155b, "EEE Ability" should be "E	EE ability".			In Tab	ole 45-155c, cha	inge "Slow wake	e" to "Slow Wal	ke" in order to be	e consistent.	
SuggestedRemedy				Suggested	dRemedy					
Change "EEE Ability" to "EEE ability"						es of "Slow wake	e" and "slow w	ake" into "Slow V	Nake" througout the	э
Proposed Response Response Status	w			docun						
PROPOSED ACCEPT IN PRINCIPLE.				,	Response POSED ACCEPT	Response S T IN PRINCIPLE				
This comment does not apply to the substar D2.0 and D2.1 or the unsatisfied negative or is not within the scope of the recirculation ba	omments from earlier ba allot.			D2.0 a		unsatisfied nega	ative comments	nges between IE s from earlier bal		
Make suggested change to follow IEEE802.	3 style.			Make	changes define	d below to make	e draft consiste	nt		
C/ 45 SC 45.2.1.194.1 P3	B L 41	# 69		P39 L	19 - change "Slo	ow wake" to "Slo	ow Wake"			
Гu, Mike Broad	com			P40 L	20, P40 L44, & I	P40 L45 - chang	ge "slow wake"	to "Slow Wake"		
Comment Type E Comment Status	D		ΕZ	C/ 45	SC 45.2.1.1	94.4	P 39	L 38	# 5	
"Reed-Solomon 'receiver' interleave setting"	does not sound right.	Delete the word		Anslow, P	ete		Ciena			
'receiver'.				Comment	Туре Е	Comment S	Status D			E
luggestedRemedy					onvention used	in Clause 45 is t	to use "is one"	and "is zero" rati	her than "is 1" and	"is
Change from: " the Reed-Solomon receive To: " the Reed-Solomon interleave setting				0".						
				Suggested	dRemedy					
Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE.	vv				ge "is 1" to "is or ge "is 0" to "is ze					
This comment does not apply to the substar D2.0 and D2.1 or the unsatisfied negative of is not within the scope of the recirculation ba	omments from earlier b				Response POSED ACCEP	Response S T.	Status W			

Make suggested change to clarify draft.

Pa **39** Li **38**

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

C/ 45	SC 45.2.1.195.1	P 40	L 41	# 99		C/ 45	SC 4	5.2.1.196.2	P 41	L 50	# 6	
Graba, Jim		Broadcom				Anslow, P			Ciena			
Comment 1	Type T Comm	ent Status D			ΕZ	Comment	Туре	E	Comment Status D			ΕZ
These Suggested	bits are requested by the li	ink partner via Info	field. The curren	t text is confusing.			onvention en them.	n used in Cl	lause 45 for the values of p	pairs of bits is to	not include a spa	се
	e from: " communicated	to the link partner	via Infofielde "			Suggeste	dRemedy					
	communicated by the link								value of 00"			
Proposed F	,	se Status W							value of 01" value of 10"			
PROP	OSED ACCEPT IN PRINC	IPLE.				Proposed	Respons	e l	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			
	omment does not apply to t nd D2.1 or the unsatisfied					PROF	POSED A	CCEPT.				
	vithin the scope of the reci		s nom earlier ba	nots. Hence it		C/ 45	SC 4	5.2.1.196.2	P 41	L 51	# 146	
Make r	equested change to impro	ve clarity				McClellan	, Brett		Marvell			
INARC I						Comment	Туре	E	Comment Status D			ΕZ
Cl 45	SC 45.2.1.195.4	P 41	L 5	# 70		Test	mode 2 is	described	in 149.5.2.3.1			
Tu, Mike		Broadcom				Suggeste	dRemedy					
Comment 7	Type E Comm	ent Status D			ΕZ	chang	ge "149.5.	2.3"				
Both "local F	ocal device" and "local PH	Y" are used in this	document. May	be we should stay w	rith		9.5.2.3.1"					
						Proposed	Respons	e l	Response Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉			
Suggested	•	device" by Weeel D		4h		PROF	POSED A	CCEPT.				
•	e all occurrenecs of "local	2	HY inroughout	the document.		C/ 45	SC 4	5.5.3.3	P 54	L 8	# 7	
Proposed F	,	se Status W				Anslow, F	Poto		Ciena			
PROPO	OSED ACCEPT IN PRINC	IPLE.				Comment		Е	Comment Status D			ΕZ
	omment does not apply to t nd D2.1 or the unsatisfied							erted item				
	vithin the scope of the reci					Suggeste	dRemedy					
Chann				les the sheet severist	t .	Chan	ge "throug	gh MM227"	to "through MM231"			
Change	e "local device" to "local Pl		g locations to ma	ike the draft consist	ent:	Proposed	Respons	e l	Response Status W			
			L40, P153 L43,			•						

Pa **54** Li **8**

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

CI 78	SC 78.2	P 58	L 53	# 8		C/ 104 SC 104.9	P 68	L 1	# 10
Anslow, Pe	ete	Ciena				Anslow, Pete	Ciena		
Comment T	Туре Е	Comment Status D			EZ	Comment Type E	Comment Status D		
The bo	ottom ruling of Tal	ble 78-2 should not be "Very T	hin"				on at the top of page 68 is redu	ndant as each c	hange has its own
Suggested remove	•	the bottom ruling of Table 78-2	2			editing instruction. "Modify" is not a vali The instruction is too	d editing instruction. vague to be of any use anywa	ıy.	
Proposed F PROP	Response OSED ACCEPT.	Response Status W				SuggestedRemedy Delete the editing in:	struction at the top of page 68		
Cl 78 Anslow. Pe	SC 78.5	P 59 Ciena	L 17	# 9		Proposed Response PROPOSED ACCER	Response Status W		
Comment T		Comment Status D			EZ	C/ 104 SC 104.9.	3 P 68	L 8	# 11
"Insert	an 10th paragrap	ph" should be "Insert a 10th pa	ragraph"			Anslow, Pete	Ciena		
Suggested	IRemedy					Comment Type E	Comment Status D		
						The two items *PSE	TE and *PDTE are being insert	ed by IEEE Std	802.3cg-20xx. The
Chang	je "an" to "a"								
0		Response Status W					struction at the top of the page change the fact that this editing	(proposed to be	deleted in another
Proposed F		,						(proposed to be	deleted in another
Proposed F PROPO CI 104	Response OSED ACCEPT. SC 104.5.6.4	Р 66	L 40	# 23		comment) does not o SuggestedRemedy	in 104.9.3 as follows" to "in the	(proposed to be instruction sho	e deleted in another uld include this.
Proposed F PROP(Cl 104 Wienckows	Response OSED ACCEPT. SC 104.5.6.4 ski, Natalie	, P 66 General Motors		# 23		comment) does not o SuggestedRemedy Change "in the table	in 104.9.3 as follows" to "in the	(proposed to be instruction sho	e deleted in another uld include this.
Proposed F PROPO C/ 104 Wienckows	Response OSED ACCEPT. SC 104.5.6.4 ski, Natalie	Р 66		# 23	EZ	comment) does not o <i>SuggestedRemedy</i> Change "in the table Std 802.3cg-20xx) a	change the fact that this editing in 104.9.3 as follows" to "in the s follows" <i>Response Status</i> W	(proposed to be instruction sho	e deleted in another uld include this.
Proposed F PROP(C/ 104	Response OSED ACCEPT. SC 104.5.6.4 ski, Natalie Type E	, P 66 General Motors		# 23	EZ	comment) does not o SuggestedRemedy Change "in the table Std 802.3cg-20xx) a Proposed Response	change the fact that this editing in 104.9.3 as follows" to "in the s follows" <i>Response Status</i> W PT.	(proposed to be instruction sho	e deleted in another uld include this.
Proposed F PROPO Cl 104 Wienckows Comment T Suggested	Response OSED ACCEPT. SC 104.5.6.4 ski, Natalie Type E IRemedy "Table 104-7" a h	P 66 General Motors Comment Status D		# 23	EZ	comment) does not of SuggestedRemedy Change "in the table Std 802.3cg-20xx) a Proposed Response PROPOSED ACCER C/ 104 SC 104.9.4 Anslow, Pete	change the fact that this editing in 104.9.3 as follows" to "in the s follows" <i>Response Status</i> W PT. 4.3 <i>P</i> 69 Ciena	(proposed to be instruction sho table in 104.9.	# deleted in another uld include this. 3 (as modified by IEEE # <u>12</u>
Proposed F PROPO Cl 104 Wienckows Comment T Suggested Make "	Response OSED ACCEPT. SC 104.5.6.4 ski, Natalie Type E IRemedy "Table 104-7" a h P67 L4	P 66 General Motors Comment Status D		# <u>23</u>	EZ	comment) does not of SuggestedRemedy Change "in the table Std 802.3cg-20xx) a Proposed Response PROPOSED ACCER C/ 104 SC 104.9.4 Anslow, Pete Comment Type E	change the fact that this editing in 104.9.3 as follows" to "in the s follows" <i>Response Status</i> W PT. 1.3 <i>P</i> 69 Ciena <i>Comment Status</i> D	(proposed to be instruction sho table in 104.9.	e deleted in another uld include this. 3 (as modified by IEEE
CI 104 Wienckows Comment T Suggested Make " Also, P Proposed F	Response OSED ACCEPT. SC 104.5.6.4 ski, Natalie Type E IRemedy "Table 104-7" a h P67 L4	P 66 General Motors <i>Comment Status</i> D		# <u>23</u>	EZ	comment) does not of SuggestedRemedy Change "in the table Std 802.3cg-20xx) a Proposed Response PROPOSED ACCER Cl 104 SC 104.9.4 Anslow, Pete Comment Type E "Modify" is not a vali	change the fact that this editing in 104.9.3 as follows" to "in the s follows" <i>Response Status</i> W PT. 1.3 <i>P</i> 69 Ciena <i>Comment Status</i> D	(proposed to be instruction sho table in 104.9.	# deleted in another uld include this. 3 (as modified by IEEE # <u>12</u>
CI 104 Wienckows Comment T Suggested Make " Also, P Proposed F	Response OSED ACCEPT. SC 104.5.6.4 ski, Natalie Type E IRemedy "Table 104-7" a h P67 L4 Response	P 66 General Motors <i>Comment Status</i> D		# <u>23</u> # <u>24</u>	EZ	comment) does not of SuggestedRemedy Change "in the table Std 802.3cg-20xx) a Proposed Response PROPOSED ACCER C/ 104 SC 104.9.4 Anslow, Pete Comment Type E	change the fact that this editing in 104.9.3 as follows" to "in the s follows" <i>Response Status</i> W PT. 4.3 <i>P</i> 69 Ciena <i>Comment Status</i> D d editing instruction.	(proposed to be instruction sho table in 104.9.	# deleted in another uld include this. 3 (as modified by IEEE # <u>12</u>
Proposed F PROPO Cl 104 Wienckows Comment T Suggestedh Make " Also, P Proposed F PROPO	Response OSED ACCEPT. SC 104.5.6.4 ski, Natalie Type E IRemedy "Table 104-7" a h P67 L4 Response OSED ACCEPT. SC 104.5.6.4	P 66 General Motors <i>Comment Status</i> D yperlink. <i>Response Status</i> W	L 5		EZ	comment) does not of SuggestedRemedy Change "in the table Std 802.3cg-20xx) a Proposed Response PROPOSED ACCER Cl 104 SC 104.9.4 Anslow, Pete Comment Type E "Modify" is not a vali SuggestedRemedy	change the fact that this editing in 104.9.3 as follows" to "in the s follows" <i>Response Status</i> W PT. 4.3 <i>P</i> 69 Ciena <i>Comment Status</i> D d editing instruction.	(proposed to be instruction sho table in 104.9.	# deleted in another uld include this. 3 (as modified by IEEE # <u>12</u>

Make "Table 104-7" a hyperlink and remove the "forrest green" color. Also, P67 L6, P67 L11, P67 L14.

Proposed Response Response Status W

PROPOSED ACCEPT.

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

Pa **69** Li **3**

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

C/ 104 SC 104.9.4.	3 P 69	L 12	# 25		C/ 125	SC 125.1.4	P72	L 34	# 26
Wienckowski, Natalie	General Motor	rs			Wienckows	,	General Motor	S	
Comment Type E	Comment Status D			EZ	Comment	Туре Е	Comment Status D		
<i>SuggestedRemedy</i> Make "Table 104-7" a	hyperlink.				<i>Suggested</i> Make '	<i>Remedy</i> '78" a hyperlink	<u>.</u>		
Proposed Response	Response Status W				Proposed I	Response	Response Status W		
PROPOSED ACCEP	г.				PROP	OSED ACCEP	T IN PRINCIPLE.		
C/ 104 SC 104.9.4. Wienckowski, Natalie Comment Type E	3 P 69 General Motor Comment Status D	L 17 rs	# 39	EZ	D2.0 a is not v	nd D2.1 or the within the scope	ot apply to the substantive cha unsatisfied negative comments a of the recirculation ballot. prove readability of the draft.		
SuggestedRemedy					C/ 125	SC 125.3	P74	L 12	# 47
	yperlink and remove the "forres	st areen" color.			Lo. William		Axonne Inc.	- 12	" -1
Proposed Response	Response Status W	5			Comment		Comment Status D		
PROPOSED ACCEP	,					fix gap in colum			
	P71	L 46	# 128		Suggested				
				Oisses	Remov	/e the gaps in a	Ill the numbers in column 2.		
Zimmerman, George <i>Comment Type</i> TR	CME Consulti Comment Status D	ng/ADI, APL Gr	o, Aquantia, BMW,	Cisco F7	Proposed I	Response	Response Status Z		
· · · //·	GOTIATION IS OPTIONAL" AU	ito-Negotiation i	s only ontional for		PROP	OSED REJECT	Г.		
BASE-T1 PHYs.	SCHATION IS OF HOMAE AC	ito-Negotiation i	s only optional for	uic	This of	mmont was M	ITUDDAWAL by the commenter		
SuggestedRemedy					THIS CO		ITHDRAWN by the commenter		
Add "FOR BASE-T1 F	PHYs" after "AUTO-NEGOTIAT	ION IS OPTION	NAL"		C/ 149	SC 149.1.3.	1 <i>P</i> 77	L 44	# 129
Proposed Response	Response Status Z				Zimmerma				p, Aquantia, BMW, Cis
PROPOSED REJECT	Γ.				Comment	, 0	Comment Status D	IY/ADI, AFL O	p, Aquantia, Divivi, Ci
This comment was W	ITHDRAWN by the commenter				149.3.2	2.2.18 is NOT v	where the interleaving is describ 3.2.2.16, where it was in the pre	oed. It is where vious draft	e the scrambler is. Th
					Suggested	Remedy			
					Chang	e cross-ref fron	n 149.3.2.2.18 to 149.3.2.2.16		
					Proposed I	Response	Response Status W		

Pa **77** Li **44**

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

C/ 149	SC 149.1.3.3	P 78	L 27	# 130	C/ 149	SC 149.1.6	P 80	L 41	# 137
immermaı	n, George	CME Consultin	g/ADI, APL Gp	, Aquantia, BMW, Ci	sco Zimmerm	an, George	CME C	onsulting/ADI, APL	Gp, Aquantia, BMW, Cisc
Comment 1	Гуре Т	Comment Status D			EZ Comment	Туре Т	Comment Status	D	Ε
	nt of a sentence a	n LPI mode shall not cause an and an untestable shall	ny MAC frames	to be lost or" is a	avoid comb	parentheses aro inations of AND a	und logical functions of and OR operations, add	relational operators pting precedence is	
	•	nt, or change it to read: "The	ransition to or t	rom I PI mode shoul	Fortu	nately, 802.3bt di	d this work and it is in o	clause 145.	
		nes to be lost or corrupted."			Suggeste	•			
Proposed F PROP(Response DSED ACCEPT II	<i>Response Status</i> W N PRINCIPLE.			notati	on used in the st		e conventions of sta	ventions of 21.5." to "The te diagrams as described
The wo	ord "corrupted" wa	as acccidentally deleted from	the end of the s	sentence. Add it bac	roposed	Response	Response Status	w	
	ment #100.	·····, ·····				POSED ACCEPT	IN PRINCIPLE.		
C/ 149	SC 149.1.3.3	P 78	L 27	# 100			ot apply to the substant Insatisfied negative cor		
Graba, Jim		Broadcom			is not		of the recirculation bal		
Comment 7	51	Comment Status D			EZ				
The las	st part of the sente	ence is missing?				the requested cr dence.	nange as current state	ransitions in our dia	grams assume this
Suggestedl	,								
	on D2.0, change to be lost or corr	last part of sentence from: " upted."	. to be lost or"		C/ 149	SC 149.2.1.		L 24	# 75
Proposed F	Response	Response Status W			Tu, Mike <i>Commen</i> i	Τνρε Τ	Broadc <i>Comment Status</i>		E
PROP	OSED ACCEPT.	,					be set by either the A	-	_
		8-4				ronization.			
C/ 149	SC 149.1.3.3	P 78	L 27	# 42	Suggeste	dRemedy			
Slavick, Jef		Broadcom				ge line 24 and 25			
Comment 1	51	Comment Status D			EZ DIAB	LE Used by the	Auto-Negotiation or Pl	HY Link Synchroniza	ation function to disable
Extra o	r instead of a per	iod.					Auto-Negotiation or P	HY Link Svnchroniza	ation function to enable
Suggested					the P		0	,	
Replac	e the or with a "."				Proposed	Response	Response Status	Z	
Proposed F PROP(Response DSED ACCEPT II	Response Status W N PRINCIPLE.				POSED REJECT			
						comment was WI	THDRAWN by the com	menter.	
	ord "corrupted" wa ment #100.	as acccidentally deleted from	the end of the s	sentence. Add it bac	:k				

Pa **81** Li **24**

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

	, , ,			5					
C/ 149 SC 149.2.1	.1.2 P 81	L 30	# 76		C/ 149	SC 149.3.2.2	P 91	L 12	# 131
u, Mike	Broadcom				Zimmerma	in, George	CME Consult	ing/ADI, APL Gp	, Aquantia, BMW, Cisc
omment Type T	Comment Status D			ΕZ	Comment	Туре Е	Comment Status D		E
PMA_Link.request ca Synchronization.	n be set by either the Auto-Neg	gotiation or the l	PHY Link				ions of the PCS Transmit pro er talks about the generation		gless, because the
uggestedRemedy					Suggested	IRemedy			
	entence from: "Auto-Negotiatio or PHY Link Synchronization g						ent functions of the PCS Trar /65B blocks, the subsequent		
Proposed Response	Response Status Z				Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉		
PROPOSED REJEC	Т.				PROP	OSED ACCEPT			
This comment was W	/ITHDRAWN by the commenter				C/ 149	SC 149.3.2.2	P 91	L 13	# 79
					Tu, Mike		Broadcom		
V 149 SC 149.2.1	.2 <i>P</i> 81	L 40	# 77		Comment	Туре Т	Comment Status D		E
u, Mike	Broadcom						eaving is done prior to or at th		
comment Type T	Comment Status D			ΕZ	encod	ing. Also there is	a typo on this line: "RS-FE s	ymbols" should l	be "RS-FEC symbols".
PMA Link.indication	also goes to the PHY Link Syno	chronization.			Suggested	lRemedy			
—	с ;						from: " OAM field, then add	l 340 bits of parit	y for the RS-FEC,
SuggestedRemedy	d the Auto Negatistian function	• "				ave the RS-FE s		. f	
	d the Auto-Negotiation function -Negotiation or PHY Link Synch		tion "			-	interleave and add 340 bits	of parity for the F	RS-FEC,"
Proposed Response	Response Status Z				Proposed	•	Response Status W		
PROPOSED REJEC					PROP	OSED ACCEPT			
FROFOSED REJEC	1.				C/ 149	SC 149.3.2.2	P 91	L 13	# 148
This comment was W	ITHDRAWN by the commenter								" 140
					McClellan,		Marvell		
C/ 149 SC 149.2.1	.2.3 <i>P</i> 82	L 8	# 78		Comment	Type E	Comment Status D		E
īu, Mike	Broadcom				typo				
Comment Type T	Comment Status D			EZ	Suggested	•			
• •	19.4.2.6.4 PHY Link Synchroniz	ation State Dia	arom		chang	e 'RS-FE' to 'RS	FEC' in multiple locations		
			gram.		Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉		
SuggestedRemedy					PROP	OSED ACCEPT	IN PRINCIPLE.		
	ffect of receipt of this primitive is eipt of this primitive is specified _ink Synchronization."			id in	Chang	je on P91 L13 ar	nd P91 L 48		
roposed Response	Response Status Z								
PROPOSED REJEC	•								
This comment was W	/ITHDRAWN by the commenter	:							
VDE: TR/technical requi	red ER/editorial required GR/g	neneral required	T/technical E/od	litorial G/a	onoral		Pa 9 1	1	Page 9 of 25
	ica Liveullonaliequileu GR/Q	joneral required	i inconnical E/eu	nona G/g	Gillai		ra 9		Faye 9 UI 20

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: Page, Line

Page 9 of 25 8/29/2019 4:15:19 PM

Li 13

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

C/ 149 SC 149.3.2.	2 <i>P</i> 91	L 13	# 43		C/ 149	SC 149.3.2	2	P 91	L 33	# 149	
Slavick, Jeff	Broadcom				McClellan,	Brett		Marvell			
Comment Type E Missing C	Comment Status D			EZ		<i>Type</i> E ect reference. th d should point t	is links to the	<i>Status</i> D Link Monitor fu	nction.		EZ
SuggestedRemedy					Suggested	•	0 140.4.2.4				
Change "RS-FE symb	ools" to "RS-FEC symbols"					e to 149.4.2.5 to	0 149 4 2 4				
Proposed Response PROPOSED ACCEP	Response Status W T.				Proposed		Response	Status W F			
Cl 149 SC 149.3.2. Lo, William Comment Type E Spelling	2 P 91 Axonne Inc. Comment Status D	L 13	# 48	EZ	D2.0 a is not v	nd D2.1 or the within the scope	unsatisfied neo of the recircu	gative commer lation ballot.	aanges between I its from earlier ba		
SuggestedRemedy					Correc	t the link to imp	prove readabilit	y of the draft.			
RS-FE should be RS	FEC				C/ 149	SC 149.3.2.	2	P 92	L 2	# 157	
Proposed Response PROPOSED ACCEP	Response Status W T.				McClellan, <i>Comment</i> Per Fid	Туре Т		Marvell Status D	RS and LPI Clien	nt that controls ent	EZ
C/ 149 SC 149.3.2.	2 <i>P</i> 91	L 13	# 132		LPI mo						
Zimmerman, George <i>Comment Type</i> E	CME Consul Comment Status D	ting/ADI, APL G	p, Aquantia, BMW, C	Cisco EZ	<i>Suggested</i> Chang	<i>Remedy</i> je 'MAC' to 'RS'					
Typo: RS-FE					Proposed	Response	Response	Status W			
SuggestedRemedy Change "RS-FE" to "F	RS-FEC"					OSED ACCEP			nanges between I	FFF P802 3ch	
Proposed Response PROPOSED ACCEP	Response Status W				D2.0 a		unsatisfied neg	gative commer	its from earlier ba		
					Make	the requested c	hange to fix ar	n error in the di	aft.		

Pa **92** Li **2**

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

C/ 149 SC 149.3.2.2 P 92 L 5 # 81		C/ 149	SC 149.3.2	.2.3	P 93	L 17	# 103	
Tu, Mike Broadcom		Graba, Jim			Broadcom			
Comment Type E Comment Status D	ΕZ	Comment Ty	vpe E	Comme	nt Status D			ΕZ
The block diagramis "shown" in Figure 149-5.		To be co	nsistent, "Tx	B" should be	"tx_coded" and "	RxB" should be '	'rx_coded".	
SuggestedRemedy		SuggestedR	emedy					
Change the sentence to: "A block diagram of the PCS Transmit functions is shown in Figure 149–5."		where T	xB<0> and R	xB<0> repres	sent the first trans	smitted bit."	<31:0> and RxB<3	31:0>
Proposed Response Response Status W					eived block are l			
PROPOSED ACCEPT IN PRINCIPLE.		transmit		ectively when	e tx_coded<0> a		represent the first	
This comment does not apply to the substantive changes between IEEE P802.3ch		Proposed Re	sponse	Respons	e Status 🛛 🛛 🛛 🖤			
D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.		PROPO	SED ACCEP	T IN PRINCI	PLE.			
Make the following change to be consistent with wording used throughout this draft. Change: A block diagram of the PCS Transmit functions is in Figure 149–5. To: A block diagram of the PCS Transmit function is shown in Figure 149–5.		D2.0 and is not wit	d D2.1 or the thin the scop	unsatisfied n e of the recirc	e substantive ch egative commen culation ballot. e text matches the	ts from earlier ba		
C/ 149 SC 149.3.2.2 P 92 L 12 # 150		C/ 149	SC 149.3.2	.2.3	P 93	L 22	# 158	
McClellan, Brett Marvell		McClellan, B			Marvell			
Comment Type E Comment Status D	ΕZ	Comment Ty		Comme	nt Status D			ΕZ
's_n' should be 'S_n' to match usage in 149.3.4		,				>. Only the XGM	III TXD<0> to TXD-	
SuggestedRemedy						,		
change 's_n' to 'S_n'								
Proposed Response Response Status W		SuggestedR	emedy					
PROPOSED ACCEPT IN PRINCIPLE.				<31>, TXD<3 with the arrow		> and move the	XGMII line with sig	jnal
This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.		Proposed Re PROPO	•	Respons T IN PRINCII	e Status W PLE.			
Make the requested change to be consistent with the terminology used throughout this document.		D2.0 and	d D2.1 or the	unsatisfied n	e substantive ch egative commen culation ballot.			

Make change as requested as the current implementation could cause additional comments in the future.

Pa **93** Li **22**

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

				<u> </u>						
C/ 149 SC 149.3.2	2.2 P 93	L 52	# 13		C/ 149	SC 1	49.3.2.2.3	P 94	L7	# 116
Anslow, Pete	Ciena				Edem, Bria	an		Aquantia		
Comment Type E	Comment Status D			EZ	Comment	Туре	Е	Comment Status D		
When there is more the notes in sequence sh	9-7 now contain two notes each nan one note, the IEEE-SA Sta ould be numbered "NOTE 1—' no spaces either side of the e	andards Style Ma ', "NOTE 2—", e	anual includes "Mu tc."	ltiple	XGMII Suggested	at the to	op of the di	arrows from the "Input to d awing should be pointing t		
SuggestedRemedy										
In Figures 149-6 and Change "Note — This Change "Note — Figu					Proposed PROP	,	CCEPT.	Response Status W		
Proposed Response	Response Status W				C/ 149	SC 1	49.3.2.2.3	P 94	L7	# 151
PROPOSED ACCEP	•				McClellan,	Brett		Marvell		
			"		Comment	Туре	E	Comment Status D		
C/ 149 SC 149.3.2	2.3 P 94	L 3	# 159		arrows	are in w	vrong direc	tion and should point towa	rd the XGMII	
McClellan, Brett Comment Type T	Marvell Comment Status D			EZ	Suggested revers	,	/ ow directio	ons		
There's no signals de RXD<31>.	fined as RXD<32> to RXD<63	>. Only the XGN	III RXD<0> to		Proposed I	,	se CCEPT.	Response Status W		
SuggestedRemedy					FNOF	USED A	COLF I.			
delete RXD<0>, RXD labels down to align v	<31>, RXD<32>, and RXD<63 vith the arrows.	3> and move the	XGMII line with si	gnal	C/ 149		49.3.2.2.3	P 94 Marvell	L 24	# 152
Proposed Response	Response Status W				McClellan, Comment		Е	Comment Status D		
PROPOSED ACCEP	T IN PRINCIPLE.				149.3.		_	descrambler' for the rece	iver. Should pro	
	ot apply to the substantive cha				figure.					
	unsatisfied negative comment e of the recirculation ballot.	s from earlier ba	llots. Hence it		Suggested change	-	∕ bler' to 'de	scrambler'		
	lested as the current implemer	ntation could cau	se additional		Proposed	Respons	se	Response Status W		
comments in the futur	e.				PROP	OSED A	CCEPT IN	I PRINCIPLE.		
					D2.0 a	nd D2.1	or the uns	pply to the substantive cha atisfied negative comment the recirculation ballot.		
					Make	the requ	ested char	ige so the Figure matches	the text.	

Pa **94** Li **24**

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

C/ 149 SC 149.3.2.2.14 P 98 L 28 # 91	C/ 149 SC 149.3.2.2.17 P 100 L 10 # 83
Tu, Mike Broadcom	Tu, Mike Broadcom
Comment Type T Comment Status D EZ	Comment Type T Comment Status D EZ
Figure 149-6 shows the PCS bit ordering, not Figure 149-8.	The additive scrambler is added after the encoder and interleaver. So this sentence is not
SuggestedRemedy	quite correct.
Change "Figure 149-8" to "Figure 149-6".	SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT.	Change from: "tx_RSmessage<3259:0> prior to additive scrambling is formed as follows." To: "tx_RSmessage<3259:0> prior to the RS-FEC (360,326) encoder is formed as follows:"
	Also add indents at line 12 and line 14.
C/ 149 SC 149.3.2.2.14 P 98 L 31 # 90	Proposed Response Response Status W
u, Mike Broadcom	PROPOSED ACCEPT IN PRINCIPLE.
Comment Type T Comment Status D EZ	This comment does not apply to the substantive changes between IEEE P802.3ch
The RS-FEC encoder input of 3260 bits consist of tx_group50x65B AND the 10-bit OAM.	D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it
SuggestedRemedy	is not within the scope of the recirculation ballot.
Change line 31 from: " takes the 3260-bit vector tx_group50x65B, and" To: " takes the 3260-bit vector tx_group50x65B and the 10-bit OAM_field, and"	Make the requested change to fix an error in the draft.
Proposed Response Response Status W	C/ 149 SC 149.3.2.2.17 P 100 L 12 # 89
PROPOSED ACCEPT IN PRINCIPLE.	Tu, Mike Broadcom
This comment does not apply to the substantive changes between IEEE P802.3ch	Comment Type T Comment Status D E
D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Make the following change to fix an error in the draft.	The mapping on line 12 and line 14 is inconsistent with Figure 149-6. The OAM symbol is appended after the fifty 65B blocks, and should be the last symbol entering into each RS FEC encoder. But the mapping on line 12 and line 14 will make the OAM symbol the first one to enter the RS FEC encoder.
Change line 31 from: " takes the 3260-bit vector tx_group50x65B, and"	SuggestedRemedy
To: " takes the 3260-bit vector, consisting of tx_group50x65B and the 10-bit OAM_field, and"	Change line 12 from: "tx_RSmessage<3259:10> = tx_group50x65B<3249:0>."
	To: "tx_RSmessage<3249:0> = tx_group50x65B<3249:0>."
	Change line 14 from: "tx_RSmessage<9:0> = OAM_field<9:0>." To: "tx_RSmessage<3259:3250> = OAM_field<9:0>."
	Proposed Response Response Status W
	PROPOSED ACCEPT IN PRINCIPLE.
	This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.
	Make the requested change to fix an error in the draft.
	· · · · · ·

Pa **100** Li **12**

SORT ORDER: Page, Line

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

C/ 149 SC 149.3.2.	2.17 <i>P</i> 100	L 48	# 153		C/ 149	SC 149.3.2.2	2.20	P 102	L 27	# 45	
cClellan, Brett	Marvell				Slavick, Je	ff		Broadcom			
omment Type E	Comment Status D			ΕZ	Comment	Type TR	Comment	Status D			ΕZ
typo						ecoder_type is a solution of the solution of t			bits from the In uld be used?	foFields, which	
uggestedRemedy change 'an' to 'a'					Suggested	Remedy					
Proposed Response	Response Status W					e "two bits in the ges (see 149.4.		sages" to "the	PrecodeSel field	from the InfoField	
PROPOSED ACCEPT	IN PRINCIPLE.				Proposed I	Response	Response S	Status W			
	ot apply to the substantive cha unsatisfied negative comment				PROP	OSED ACCEPT	IN PRINCIPLI	Ξ.			
is not within the scope	e of the recirculation ballot.				D2.0 a		insatisfied neg	ative comments	nges between II s from earlier ba		
C/ 149 SC 149.3.2.	hange to fix an error in the dra	L 35	# 84			he requested ch			erstanding.		
u, Mike	Broadcom		" 04		C/ 149	SC 149.3.2.2	-	P 102		# 22	
Comment Type E	Comment Status D			ΕZ	Wienckows			General Motor			
Apply subscript forma	tting on the index "n" in Dn[0]	and Dn[1].			Comment	,	Comment		5		ΕZ
uggestedRemedy						s "PAM4 mode"					
Apply subscript forma	tting on the index "n" in Dn[0]	and Dn[1].			Suggested	Remedy					
Proposed Response	Response Status W					e: PAM4 mode					
PROPOSED ACCEPT	Г.				To: PA	M4 encoding					
C/ 149 SC 149.3.2.	2.19 <i>P</i> 101	L 53	# 133		Proposed I	Response	Response S	Status W			
					PROP	OSED ACCEPT	IN PRINCIPLI	Ξ.			
Zimmerman, George Comment Type E	CME Consult Comment Status D	ing/ADI, APL Gp	o, Aquantia, BMW, C	ISCO EZ	This co	mment does no	ot apply to the s	substantive cha	nges between II	EEE P802.3ch	
21	renthetical phrase: "Each pair	of bits, {A, B}, w	here A is the bit	LL		nd D2.1 or the u vithin the scope			from earlier ba	llots. Hence it	
uggestedRemedy					Make t	he requested ch	nange to increa	se reader unde	erstanding.		
change "Each pair of I	bits, {A, B}, where A is the bit a ere A is the bit arriving first, is		onverted to" to "Each	ı							
Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉										
PROPOSED ACCEPT	IN PRINCIPLE.										
D2.0 and D2.1 or the	ot apply to the substantive cha unsatisfied negative comment e of the recirculation ballot.										
Make the requested c	hange to improve readability.										
	ed ER/editorial required GR/ ispatched A/accepted R/reje							Pa 10	2	Page 14 o	f 25

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

/ 149 SC 149.3.2.3	P 104	L 39	# 86	CI 1	149 S	C 149.3.6	P 108	L 16	# 160	
u, Mike	Broadcom			McC	Clellan, Bre	tt	Marvell			
omment Type E C	comment Status D			EZ Con	nment Type	ЭТ	Comment Status D			E
Redundant statement?							of the PHY initiates a transition			
iggestedRemedy							es 8 RS-FEC frames compose 22. The transmit function of t			
Change from: " separated	into a 10-bit OAM field, ؛	eparated from the	e 64B/65B blocks,		using the s	leep signal"		·	0	
and fifty 64B/65B blocks." To: " separated into a 10-	hit OAM field and fifty 641	R/65B blocks "					why reference the link partne	er? This text is a	about the local dev	vice
	-	JOSE DIOCKS.			and LPI sig	gnaling.				
PROPOSED ACCEPT IN P	esponse Status W			Sua	gestedRen	nedv				
PROPOSED ACCEPT IN P					change to	louy				
This comment does not app					"The transi		of the PHY initiates a transitio			
D2.0 and D2.1 or the unsati is not within the scope of the		from earlier ballot	ts. Hence it				gnal comprised of 8 RS-FEC	frames compos	ed entirely of LPI	
					bosed Res		described in 149.3.2.2.22. " Response Status W			
Make the requested change	to increase reader under	standing.					IN PRINCIPLE.			
149 SC 149.3.2.3	P 105	L 15	# 134							
nmerman, George	CMF Consultir	a/ADI API Gn A	Aquantia, BMW, Ci				t apply to the substantive cha			
	Comment Status D	g// 121, / 11 E Op, //	iquania, Binn, en				nsatisfied negative comment of the recirculation ballot.	s from earlier ba	allots. Hence it	
and subject to the timing re		ere are no timing	requirements in							
46.1.7. 46.1.7 is the mapping	ng of primitives. Do you r	nean 46.3.1.5 Tra	ansmit direction LP		Make the r	equested ch	ange to increase reader unde	erstanding.		
transition?				CI 1	149 S	C 149.3.6	P 108	<i>L</i> 31	# 154	
iggestedRemedy				МсС	Clellan, Brei	tt	Marvell			
Change 46.1.7 to 46.3.1.5				Con	nment Type	ε	Comment Status D			E
	esponse Status W				"offset by t	he link partn				
pposed Response Re PROPOSED ACCEPT.	esponse Status W					he link partn				
	esponse Status W				"offset by t	he link partn anguage				
	esponse Status 🛛 W			Sug	"offset by t awkward la gestedRen	he link partn anguage <i>nedy</i>				
	esponse Status W			Sug	"offset by t awkward la gestedRen	he link partn anguage <i>nedy</i> "offset betwe	er's."			
	esponse Status W			Sug Prop	"offset by t awkward la gestedRen change to posed Resp	he link partn anguage nedy "offset betwe ponse	een the link partners."			
	esponse Status W			Sug Prop	"offset by t awkward la gestedRen change to posed Resp PROPOSE	he link partn anguage nedy "offset betwe conse ED ACCEPT	eer's." een the link partners." <i>Response Status</i> W	anges between II	EEE P802.3ch	
	esponse Status W			Sug Prop	"offset by t awkward la gestedRen change to posed Resp PROPOSE This comm D2.0 and D	he link partn anguage nedy "offset betwo conse ED ACCEPT nent does no 02.1 or the u	eer's." een the link partners." <i>Response Status</i> W IN PRINCIPLE. It apply to the substantive chansatisfied negative comment			
	esponse Status W			Sug Prop	"offset by t awkward la gestedRen change to posed Resp PROPOSE This comm D2.0 and E is not withi	he link partn anguage nedy "offset betwo ponse ED ACCEPT hent does no 02.1 or the u n the scope	eer's." een the link partners." <i>Response Status</i> W IN PRINCIPLE. t apply to the substantive cha			

Pa **108** Li **31**

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

C/ 149 SC 149.3.6	P 109	L 37	# 161		C/ 149	SC	149.3.6.1	P 109	L 47	# 104	
McClellan, Brett	Marvell				Graba, Jim			Broadco	m		
Comment Type T Com	ment Status D			EZ	Comment 7	Туре	Е	Comment Status D			E.
The prior paragraphs talk abou changed topic to receiver beha		signaling, sudd	enly this paragr	aph	The wo PFC co	ording ounter	of this sent alignment	tence is confusing and can be found in 149.4.2	redundant. A bette 2.4.10, page 147 I	er specification regaine 26:	arding
SuggestedRemedy Change text to "The end of LPI mode occurs a quiet-refresh cycle." also move this orphaned text p		the alert signal	indicating the e	end of	transm partial partial the alig	it 65B PHY fi PHY fi ned fr	RS-FEC fr rames of th rame Coun rame."	entering the COUNTDO ame to within +0/–4 × 3 ie MASTER as seen at t shall match the MAST	S (See Table 149- the SLAVE MDI.	-1 for definition of S The SLAVE InfoFie	S.) eld
	onse Status W				Suggested	Reme	dy				
PROPOSED ACCEPT IN PRIN This comment does not apply to D2.0 and D2.1 or the unsatisfie	NCIPLE. o the substantive cha d negative comment				SLAVE MASTE	E's PF0 ER's P or the i	C24 are +0 FC24." requiremen	ntences: "For 10GBASI /–4, +0/–2, and +0/–1 p .ts on the SLAVE and th	artial frames resp	ectively with respe	
is not within the scope of the re	circulation ballot.				Proposed F	Respo	nse	Response Status 🛛 🛛	1		
Make the requested change to The editor will try to move the t		erstanding.			PROPO	OSED	ACCEPT I	N PRINCIPLE.			
C/ 149 SC 149.3.6.1	P 109 Marvell	L 47	# 163		D2.0 ai	nd D2	.1 or the ur	apply to the substantiv satisfied negative com of the recirculation ballo	ments from earlier		
	ment Status D			EZ	Makad	h	www.enterd.ele		dant an aifia dian	a in the sheeft	
"For 10GBASE-T1, 5GBASE-T		the SLAVE's F	PEC24 are +0/4		Maket	ne sug	ggested cha	ange to eliminate redur	idant specification	s in the drait.	
and +0/-1 partial frames respective the partial frames respective to the partial frames the partial frames the partial frames the partial frames for the master.	ctively with respect to	the MASTER	s PFC24."		<i>Cl</i> 149 Graba, Jim		149.3.7.3	P 116 Broadco	m	# 111	
SuggestedRemedy					Comment 1	•••	т	Comment Status D			E
delete the sentence					The RF	FER M	lonitor state	e monitors the RS-FEC	frame error ratio.		
	e <i>i i</i> 				Suggestedl	Reme	dy				
Proposed Response Resp PROPOSED ACCEPT IN PRIN	onse Status W NCIPLE.							ors the received signal eived signal for high R			atio."
This comment does not apply to	o the substantive cha	anges between	IEEE P802 3ch		Proposed F	Respo	nse	Response Status 🛛 🛛	1		
D2.0 and D2.1 or the unsatisfie is not within the scope of the re	ed negative comment				PROP	OSED	ACCEPT I	N PRINCIPLE.			
Make the change suggested by draft.	y comment 104 to ren				D2.0 ai	nd D2	.1 or the ur	apply to the substantiv satisfied negative com	ments from earlier		
Replace the last two sentences SLAVE's PFC24 are +0/-4, +0/							•	of the recirculation ballo	t.		
MASTER's PFC24." To: "For the requirements on th 149.4.2.4.10."	ne SLAVE and the MA	ASTER frame a	lignment, see		Make r	eques	ted change	e to improve clarity.			
YPE: TR/technical required ER/e	ditorial required GR/	general require	d T/technical F	- /editorial G/d	eneral			F	a 116	Page 1	16 of 25

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	Li	5	0			
SORT ORDER: Page, Line						

Page 16 of 25 8/29/2019 4:15:20 PM

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

% 149 SC 149.3.7.3 P 117 L 1 # 112		C/ 149 SC 149	9.3.8.1	P 117	L 45	# 114
Broadcom		Graba, Jim		Broadcom		
Comment Type E Comment Status D	ΕZ	Comment Type T	г Со	mment Status D		
"65B-RS_FEC" should be "65B RS-FEC".				o states named "SEND		
uggestedRemedy		20, there is SEN Figure 149-17.	D_WAKE, bu	ut no SEND_LPI. The te	ext should refer	to the correct states in
Change "65B-RS_FEC" to "65B RS-FEC".		SuggestedRemedy				
roposed Response Response Status W		1. Change "SEN		V I "		
PROPOSED ACCEPT IN PRINCIPLE.		2. Change "SEN	ID_WAKE" to			
This comment does not apply to the substantive changes between IEEE P802.3ch		Proposed Response	Res	ponse Status W		
D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.		PROPOSED AC	CEPT IN PR	INCIPLE.		
Make requested change to fix typo.				to the substantive chance is the substantive chance is the substantive comments is the substant of the substant subst		
7/149 SC 149.3.8.1 P117 L40 # 113				recirculation ballot.		
araba, Jim Broadcom		Make suggested	I changes to :	fix errors in the draft.		
comment Type T Comment Status D	ΕZ					
In Figure 149-18, there are no states named "RECEIVE_LPI" or "RECEIVE_WAKE".		C/ 149 SC 149	9.3.8.3	P 125	L 3	# 88
uggestedRemedy		Tu, Mike		Broadcom		
1. Change "RECEIVE LPI" to "RX L".		Comment Type T	г Со	mment Status D		
 Change "RECEIVE_WAKE" to "RX_W". Change "Figure 149-18" to "Figure "149-19". 		Although both 3.0 3.2322.14 here.	.0.14 and 3.2	322.14 are copies of ea	ach other, I thnk	t it is better to refer to
roposed Response Response Status W		SuggestedRemedy				
PROPOSED ACCEPT IN PRINCIPLE.		Change "3.0.14"	' to "3.2322.1	4".		
This comment does not apply to the substantive changes between IEEE P802.3ch		Proposed Response		ponse Status 🛛 🛛 🛛 🖤		
D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it		PROPOSED AC	CEPT IN PR	INCIPLE.		
is not within the scope of the recirculation ballot.		This comment do	oes not apply	to the substantive cha	inaes between l	IEEE P802.3ch
Make suggested changes to fix errors in the draft.		D2.0 and D2.1 or	r the unsatisf	fied negative comments recirculation ballot.		
		Make change to	improve und	erstanding. Other Clau	uses reference t	their specific hits

Pa **125** Li **3**

Correct the link to improve readability of the draft.

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

	149.3.9.1	P 125	L 36	# 138		C/ 149	SC 149.3.9.	2.13	P 130	L 6	# 14
Zimmerman, Geo	rge	CME Consultin	g/ADI, APL Gp	, Aquantia, BMW,	Cisco	Anslow, Pe	te		Ciena		
Comment Type	E C	Comment Status D			ΕZ	Comment T	уре Е	Comment	Status D		
		field" - there is no such ph e OAM field isn't useful.	irase as OAM1	0-bit field And		that jus	t points to anot	her line. Previo	ously, this was	ient "A2 = 1" is a an input to a mu n is performed w	
SuggestedRemed	dy							gure it is unclea	ar what function	i is periornied w	AZ = 1
		ld in each PHY frame" to "	A 10-bit field in	n each PHY frame		Suggested	•				
reserved for t	the OAM symb	ol"						y multiply by 1, from this then		the multiply sym	bol.
Proposed Respor	nse Re	esponse Status 🛛 🛛 🛛 🛛 🛛 🖉							,	5.	
PROPOSED	ACCEPT IN P	RINCIPLE.				Proposed F	,	Response S			
This sommer	at daga nat anr	ly to the substantive shan	ann hatwaan ll			PROPO	DSED ACCEPT	IN PRINCIPLE	Ξ.		
D2.0 and D2.	.1 or the unsati	bly to the substantive chan sfied negative comments e recirculation ballot.				Remov Figure		all "A_x" and ju	st put the name	e by the symbol/	ine as is done in
	sted change to					C/ 149	SC 149.4.2.	2	P 142	L 29	# 92
In addition, o	n P125 L21 ch	ange "OAM 10-bit field" to	"10-bit OAM fi	eld".		Souvignier,	Tom		Broadcom		
C/ 149 SC	149.3.9.2.12	P 129	L 17	# 27		Comment T	ype TR	Comment	Status D		
	talie	General Motors				The PM	IA Transmit ele	ctrical specifica	ations are giver	n in 149.5.2.	
Wienckowski Na	uno										
Wienckowski, Na Comment Type	F C	omment Status D			F7	Sugaested	Remedv				
,	E C	Comment Status D			EZ	SuggestedF Change	•	149.5.2".			
Comment Type		Comment Status D			EZ	Change	e "149.1.3" to "		Status W		
Comment Type SuggestedRemed	dy	Comment Status D			EZ	Change Proposed R	e "149.1.3" to " Response	Response S			
Comment Type	dy B	Comment Status D			EZ	Change Proposed R	e "149.1.3" to " Response				
Comment Type SuggestedRemed Change: 149 To: Annex 14	<i>dy</i> B 19B				EZ	Change Proposed R PROPC This co	e "149.1.3" to " Response DSED ACCEPT mment does no	Response S IN PRINCIPLE ot apply to the s	E. substantive cha	anges between I	
Comment Type SuggestedRemed Change: 149 To: Annex 14 Proposed Respon	dy B 19B nse Ra	esponse Status W			EZ	Change Proposed R PROPC This co D2.0 ar	e "149.1.3" to " Response DSED ACCEPT mment does no nd D2.1 or the t	Response S IN PRINCIPLE ot apply to the s unsatisfied neg	E. substantive cha ative comments	inges between I s from earlier ba	
Comment Type SuggestedRemed Change: 149 To: Annex 14 Proposed Respor	<i>dy</i> B 19B	esponse Status W			EZ	Change Proposed F PROPC This co D2.0 ar	e "149.1.3" to " Response DSED ACCEPT mment does no nd D2.1 or the t	Response S IN PRINCIPLE ot apply to the s	E. substantive cha ative comments		
Comment Type SuggestedRemed Change: 149 To: Annex 14 Proposed Respor PROPOSED This commer	dy B I9B Ise Re ACCEPT IN P It does not app	esponse Status W			EZ	Change Proposed R PROPC This co D2.0 ar is not w	e "149.1.3" to " Response DSED ACCEPT mment does no nd D2.1 or the u vithin the scope	Response S IN PRINCIPLE ot apply to the s unsatisfied neg	E. substantive cha ative comments ation ballot.		

Pa 142 Li 29

ΕZ

ΕZ

P802 3ch D2 1

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

C/ 149	SC	149.4.2.4		P 143	L 31	# 9	3	Cl	149	SC
Souvignie	r, Tom			Broadcom		-		So	uvignier,	Tom
Comment	Туре	TR	Comment	Status D			EZ	Со	omment 7	Гуре
			eant by "each PAM2 PHY tr		e the PFC 24 and	d CRC16 va	lues will		Figure Capabi	
Suggeste	dRemec	dy						Su	ggestedl	Reme
Chan	ge this s	sentence f	rom: "Each Inf	foField shall be	e transmitted at le	east 256 tim	es"		Change	e "Usi
		l shall be ti tion at link		east 256 times	s with each chang	ge to octets	7-10 to	Pro	oposed F	'
Proposed	Respor	nse	Response S	Status W					PROPO	JSED
									This co D2.0 ai	nd D2
D2.0	and D2.	.1 or the ur		ative comment	anges between IE s from earlier bal				is not w Make s	
10 1100				and anot				_	make a	,uyye:
Make	the sug	gested ch	ange to impro	ve clarity.				Cl	149	SC
C/ 149	SC	149.4.2.4		P 143	L 37	# 9	6	Tu,	, Mike	
Souvignie	r Tom			Broadcom				Co	mment 7	Гуре
Comment	-	т	Comment				EZ		Need to	o defi
	•••				149-27 not need	led since it i			ggestedl	Reme
figure	s 149-2	8 and Figu	ıre 149-29 for	both PMA stat	es.				Change	
Suggeste	dRemec	dy							= Preco To: "	
Remo	ove Figu	ıre 149-27	and change fi	irst sentence o	f paragraph on p	age 143 line	e 30 to "The		Precod	
				lds in 149.4.2.	4.2 through 149.4	4.2.4.8, also	shown in	Pro	oposed F	-
•		•	ure 149–29."						PROP	
Proposed	•		Response S							JOLD
PROF	OSED	ACCEPT	IN PRINCIPLE	Ξ.						
D2.0	and D2.	1 or the ur		ative comment	anges between IE s from earlier bal					
	sugges	sted chang	e to remove is	sue which cou	Ild lead to comm	ents during	SA ballot.			
Make										
Make										
Make										

C/ 149	SC 1	149.4.2.4	P 1-	43	L 46	#	95	
Souvignier,	Tom		Broad	lcom				
Comment T	ype	Т	Comment Status	D				EZ
<u> </u>								

foField TRAINING format octets 8/9/10 should be labeled "PHY indicated in subclause 149.4.2.4.5 and Table 149-12

ap" to "PHY Capability Bits" in Figure 149–28

Response Status W

EPT IN PRINCIPLE.

not apply to the substantive changes between IEEE P802.3ch ne unsatisfied negative comments from earlier ballots. Hence it ope of the recirculation ballot.

nange to remove issue which could lead to comments during SA ballot.

C/ 149	SC	149.4.2.4.5	P 1	45	L 45	#	73	
Tu, Mike			Broad	lcom				
Comment Ty	pe	т	Comment Status	D				EZ

bit mapping of InterleaverDepth and PrecodeSel.

m: "... PHY capability bits is Oct10<2:1> = InterleaverDepth, Oct10<4:3>

ility bits is Oct10<2:1> = InterleaverDepth[1:0], Oct10<4:3> =

Response Status W

EPT.

22.1 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Autor

C/ 149	SC 149.4.2.6	5.4 P	151	L 25	# 135	
Zimmerma	n, George	CME	E Consulting	/ADI, APL G	p, Aquantia, BMW	, Cisco
Comment	Туре Е	Comment Status	S D			ΕZ
typo: s	end_s_sidget =	true				
Suggested	Remedy					
change	send_s_sidget	t to send_s_sigdet				
Proposed I	Response	Response Status	W			
PROP	OSED ACCEPT	IN PRINCIPLE.				
D2.0 a is not v	nd D2.1 or the ι	ot apply to the substa unsatisfied negative of the recirculation b ge to fix typo.	comments fr	es between om earlier b	IEEE P802.3ch allots. Hence it	
C/ 149	SC 149.4.2.0	3.4 Р	151	L 25	# 15	
Wienckows	ski, Natalie	Gen	eral Motors			
Comment	Туре Е	Comment Status	S D			EZ
	U /	transitions shouldn't ne for true and !varia			e", instead you sho	ould
Suggested	Remedy					
		nge the following:				
		sigdet = false" to "!se e" to "power_on"	nd_s_sidgde	et"		
L40: "i	mr_main_reset	= true" to "mr_main_				
	mr_autoneg_en	able - true" to "mr. c	utoned end			
L49: "I	mr_autoneg_en	able = false" to "!mr_	_autoneg_er			
L49: "I Proposed F	mr_autoneg_en Response	able = false" to "!mr_ <i>Response Status</i>	_autoneg_er			
L49: "I Proposed F	mr_autoneg_en Response	able = false" to "!mr_	_autoneg_er			
L49: "I Proposed F PROP	mr_autoneg_en Response OSED ACCEPT	able = false" to "!mr_ <i>Response Status</i>	_autoneg_er	nable"	IEEE P802.3ch	
L49: " Proposed F PROP This cc D2.0 a	mr_autoneg_en Response OSED ACCEPT omment does no nd D2.1 or the u	able = false" to "!mr_ <i>Response Status</i> IN PRINCIPLE.	_autoneg_er W antive chang comments fr	nable" es between		
L49: "I Proposed F PROPO This cc D2.0 a is not v	mr_autoneg_en Response OSED ACCEPT omment does no nd D2.1 or the u vithin the scope	able = false" to "!mr_ <i>Response Status</i> IN PRINCIPLE. ot apply to the substa unsatisfied negative of the recirculation b	autoneg_er W antive chang comments fr pallot.	nable" es between rom earlier b	allots. Hence it	
L49: "I Proposed F PROPO This cc D2.0 a is not v Make t	mr_autoneg_en Response OSED ACCEPT omment does no nd D2.1 or the u vithin the scope	able = false" to "!mr_ <i>Response Status</i> IN PRINCIPLE. ot apply to the substa unsatisfied negative of	autoneg_er W antive chang comments fr pallot.	nable" es between rom earlier b	allots. Hence it	ling

C/ 149	SC 149.4	.2.6.4	P 151	L 25	#	115	
Edem, Bria	an		Aquantia				
Comment	Туре Е	Comm	ent Status D				EZ

Figure 149-32, transition from SIGDET_WAIT to SILENT_WAIT the condition is misspelled

SuggestedRemedy

Change send_s_sidget to send_s_sigdet

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

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

Make suggested change to fix typo.

C/ 149	SC 149.4.5	P 155	L 4	# 16
Wienckow	ski, Natalie	General Motors		
Comment	Туре Е	Comment Status D		EZ

In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false.

SuggestedRemedy

In Figure 149-33, change the following: L4 & L12: "auto_neg_imp = true" to "auto_neg_imp" L4 & L12: "mr_autoneg_enable = true" to "mr_autoneg_enable" L6 & L14: "auto_neg_imp = false" to "lauto_neg_imp" L6 & L14: "mr_autoneg_enable = false" to "!mr_autoneg_enable" L45: "hi_rfer = false" to "!hi_rfer" L46: "hi_rfer = true" to "hi_rfer" L46: "block_lock = true" to "block_lock" L47: "block_lock = false" to "!block_lock"

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

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

Make the suggested change to match the IEEE802 style.

Pa **155** Li **4**

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

% 149 SC 149.4.5 P 156 L 2 # 17 Vienckowski, Natalie General Motors	C/ 149 SC 149.7.1.1 P 164 L 30 # 142
lionekowski Natalia Conord Matera	
Vienckowski, Natalie General Motors	Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, C
Comment Type E Comment Status D EZ	Comment Type E Comment Status D
In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false.	While Fmax is used for several link segment parameters, it only gets defined for insertion loss. This definition (Equation 149-18) needs to be moved up to 149.7
uggestedRemedy	SuggestedRemedy
In Figure 149-34, change the following: L2: "auto_neg_imp = true" to "auto_neg_imp" L2: "mr_autoneg_enable = true" to "mr_autoneg_enable" L4: "auto_neg_imp = false" to "!auto_neg_imp" L4: "mr_autoneg_enable = false" to "!mr_autoneg_enable" L12: "pcs_data_mode = true" to "pcs_data_mode"	Insert new second paragraph in 149.7: "For the three different PHY types, link segment parameters are specified to different upper frequencies, given by the parameter Fmax shown in Equation 149-17". Insert (new) Equation 149-17, which is the current Equation 149-18: Fmax = 4000 X S Followed by "See Table 149-1 for definition of S." Delete lines 30 through 33, so that 149.7.1.1 after the equation (currently 149-17, now 14
Proposed Response Response Status W	18) reads: f is the frequency in MHz; 1 <= f <= Fmax.
PROPOSED ACCEPT IN PRINCIPLE.	T is the frequency in Mrz, T <- T <- Finax.
This comment does not easily to the substantive changes between IEEE D002.2ch	The insertion loss is illustrated in Figure 149-42.
This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it	Proposed Response Response Status W
is not within the scope of the recirculation ballot.	PROPOSED ACCEPT IN PRINCIPLE.
Make the suggested change to match the IEEE802 style.	This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Make suggested change to clarify draft.
	C/ 149 SC 149.7.1.3 P 165 L 31 # 140
	Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, C
	Comment Type E Comment Status D
	The Return loss section actually is 3 subclauses, one for each PHY type.
	SuggestedRemedy Divide 149.7.1.3 into 149.7.1.3.1 2.5GBASE-T1 link segment return loss, 149.7.1.3.2 5GBASE-T1 link segment return loss, and 149.7.1.3.3 10GBASE-T1 link segment return loss.
	Proposed Response Response Status W
	PROPOSED ACCEPT IN PRINCIPLE.
	This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Page 21 of 25 8/29/2019 4:15:20 PM

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

C/ 149 SC 149.7.1.3	P 166	L 24	# 62		C/ 149 S	SC 149.7.1	.4 P 167	L 35	# 63	
Ohni, Josef	MD Elektronik				Ohni, Josef		MD Elektronik			
Comment Type E	Comment Status D			EZ	Comment Type	e E	Comment Status D			ΕZ
first part. The frequence	l by parts (149–22). The freque y point 3000 belongs to the se			the	In the equ second pa		ed by parts (149–24). The freque	icy point 750	0 belongs to the first	and
consistent.					SuggestedRer	nedy				
SuggestedRemedy					Change th	e first part	"30 ≤ f ≤ 750 MHz" to "30 ≤ f < 75	0 MHz"		
Change the second pa	rt "480/2N ≤ f ≤ 3000 MHz" to	"480/2N ≤ f < 3	000"		Proposed Res	ponse	Response Status 🛛 🛛 🛛 🖤			
Proposed Response	Response Status W				PROPOSI	ED ACCEP	T IN PRINCIPLE.			
PROPOSED ACCEPT	IN PRINCIPLE.									
D2.0 and D2.1 or the u	t apply to the substantive char Insatisfied negative comments of the recirculation ballot.				D2.0 and l is not with	D2.1 or the	not apply to the substantive chang unsatisfied negative comments f e of the recirculation ballot.			
Make change to fix typ	0.				Make cha	nge to fix t	уро.			
			"		C/ 149 S	SC 149.10	P 173	L 23	# 49	
C/ 149 SC 149.7.1.3	<i>P</i> 167	L 23	# 141		Lo, William		Axonne Inc.			
Zimmerman, George		ng/ADI, APL Gp	o, Aquantia, BMW, 0		Comment Type	e E	Comment Status D			ΕZ
Comment Type T	Comment Status D			EZ	Table fix g	ap in colun	nn 3 numbers			
(this is due to frequence	e 149-43 says there are 5 curv y overlaps), but is confusing. e figure even more confusing.			6	<i>SuggestedRer</i> Remove tl		all the numbers in column 3.			
SuggestedRemedy	0 0				Proposed Res		Response Status Z			
	nto 3 figures, one for 2.5G, one	e for 5G and or	e for 10G. Alternat	ely,	•	ED REJEC	,			
Proposed Response	Response Status W				This comn	nent was W	ITHDRAWN by the commenter.			
PROPOSED ACCEPT	· · · · · · · · · · · · · · · · · · ·									
D2.0 and D2.1 or the u	t apply to the substantive chainsatisfied negative comments of the recirculation ballot. ge to help the reader.									

Pa **173** Li **23** ΕZ

ΕZ

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

Cl 149 SC 149.11.4.1 P 175 L 28 # [28] Cl 149 SC 149.11.4.1 P 175 L 28 # [28] Wienckowski, Natalie General Motors General Motors Comment Type E Comment Status D EZ SuggestedRemedy Make "Clause 98" in Feature column a hyperlink. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch Cl 149 SC 149.11.4.3.6 P 185 L 33 # 32 Correct the link to improve readability of the draft. Cl 149 SC 149.11.4.3.6 P 185 L 33 # 32 Wienckowski, Natalie General Motors Comment Type E Comment Type I Comment Type I Comment Type I Comment Type I Comment Status D SuggestedRemedy Mienckowski, Natalie General Motors EZ SuggestedRemedy Make "Clause 98" in Feature column a hyperlink. Proposed Response Response Status W PROPOSED ACCEPT. Vienckowski, Natalie General Motors Correct the link to improve readability of the draft. Cl 149 SC 149.114.3.6 P 185 L 38 # 32 Vienckows					
Comment Type E Comment Status D EZ Comment Type E Comment Status D SuggestedRemedy Make "Clause 98" in Feature column a hyperlink. SuggestedRemedy Make "Table 149-11" in Feature column a hyperlink. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy Make "Label 149-11" in Feature column a hyperlink. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Correct the link to improve readability of the draft. C1 149 SC 149.114.2.1 P176 L 27 # 29 Wienckowski, Natalie General Motors Comment Type E Comment Status D SuggestedRemedy Make "Clause 98" in Feature column a hyperlink. Comment Type E Comment Status D EZ SuggestedRemedy Make "Clause 98" in Feature column a hyperlink. SuggestedRemedy Change: 149.3.4.2 to 149.3.5.1 (hyperlink in the document) Proposed Response Response Status W PROPOSED ACCEPT. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Correct the link to improve readability of the draft. C/ 149 SC 149.114.3.6 P185 L 38 # 33 Vienckowski, Natalie General Motors Correct the link to improve read					
SuggestedRemedy Make "Clause 98" in Feature column a hyperlink. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Proposed Response Response Status W Correct the link to improve readability of the draft. C/ 149 SC 149.11.4.3.6 P 185 L 33 # 32 Vienckowski, Natalie General Motors Connent Type E Comment Status D EZ NugestedRemedy Make "Clause 98" in Feature column a hyperlink. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy Make "Clause 98" in Feature column a hyperlink. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Response Status W PROPOSED ACCEPT. C1 149 SC 149.11.4.3.4 P 184 L 6 # 30 Correct the link to improve readability of the draft. C1 149 SC 149.11.4.3.6 P 185 L 38 # 133 Wienckowski, Natalie General Motors Correct the link to improve readability of the draft. C1 149 SC 149.11.4.3.6 P 185 L 38 # 133 Wienckowski, Natalie General Motors Correct the link to improve readability of the draft.					
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PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. C/ 149 SC 149.11.4.3.6 P 185 L 33 # 32 Correct the link to improve readability of the draft. C/ 149 SC 149.11.4.3.6 P 185 L 33 # 32 Vienckowski, Natalie General Motors Correct the link to improve readability of the draft. SuggestedRemedy Change: 149.3.4.2 to 149.3.5.1 (hyperlink in the document). EZ PROPOSED ACCEPT. This comment Type E comment Status W PROPOSED ACCEPT. P185 L 38 # 33 Vienckowski, Natalie General Motors PROPOSED ACCEPT. C/ 149 SC 149.11.4.3.6 P 185 L 38 # 33 Vienckowski, Natalie General Motors Vienckows					
D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Wienckowski, Natalie General Motors Correct the link to improve readability of the draft. Wienckowski, Natalie General Motors C/ 149 SC 149.11.4.2.1 P 176 L 27 # 29 Wienckowski, Natalie General Motors SuggestedRemedy Connent Type E Comment Status D SuggestedRemedy Change: 149.3.4.2 to 149.3.5.1 (hyperlink in the document) Proposed Response Response Status W PROPOSED ACCEPT. C// 149 SC 149.11.4.3.4 P 184 L 6 # 30 C// 149 SC 149.11.4.3.6 P 185 L 38 # 33 Wienckowski, Natalie General Motors Comment Type E Comment Status D SuggestedRemedy Sc 149.11.4.3.6 P 185 L 38 # 33 Wienckowski, Natalie General Motors C// 149 SC 149.11.4.3.6 P 185 L 38 # 33 Wienckowski, Natalie General Motors Comment Type E Comment Status D SuggestedRemedy SuggestedRemedy SuggestedRemedy					
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Cl 149 SC 149.11.4.3.4 P 184 L 6 # 30 Cl 149 SC 149.11.4.3.6 P 185 L 38 # 33 Nienckowski, Natalie General Motors Wienckowski, Natalie General Motors Comment Type E Comment Status D EZ Comment Type E Comment Status D SuggestedRemedy					
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Comment Type E Comment Status D SuggestedRemedy SuggestedRemedy					
SuggestedRemedy SuggestedRemedy					
	E				
Make "Table 149-10" in Feature column a hyperlink. Make "Figure 149–32" in Feature column a hyperlink.					
Proposed Response Response Status W Proposed Response Response Status W					
PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE.					
This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.					
Correct the link to improve readability of the draft.					

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

C/ 149 SC 149.11.4	4.6 <i>P</i> 189	L 27	# 34		C/ 149B SC 149B.4.	2.3 P 202	L 8	# 50	
Wienckowski. Natalie	General Motors				Lo, William	Axonne Inc.	-		
Comment Type E	Comment Status D			EZ	Comment Type E	Comment Status D xes and text in arrows are no	consistent		E.
SuggestedRemedy Make "149.5.2" in Fea	ature column a hyperlink.				<i>SuggestedRemedy</i> Make font sizes of tex	t consistent			
Proposed Response PROPOSED ACCEP	Response Status W T.				Proposed Response PROPOSED ACCEP	Response Status W T IN PRINCIPLE.			
C/ 149 SC 149.11. Wienckowski, Natalie Comment Type E	4.6 P 189 General Motors Comment Status D	L 28	# 35	EZ	D2.0 and D2.1 or the	ot apply to the substantive ch unsatisfied negative commen e of the recirculation ballot. b be consistent.			
SuggestedRemedy					C/ 149B SC 149B.4.	2.3 <i>P</i> 202	L 15	# 19	
Make "149.5.3" in Fea	ature column a hyperlink.				Wienckowski, Natalie	General Mot	ors		
Proposed Response PROPOSED ACCEP	Response Status W T.				Comment Type E Different font sizes in	Comment Status D Figure 149B-2			E
C/ 149A SC 149A.5.		L 41	# 36		SuggestedRemedy Change all text in figu	ire to be 8.0 pt			
Wienckowski, Natalie Comment Type E	General Motors Comment Status D			EZ	Proposed Response PROPOSED ACCEP	Response Status W			
SuggestedRemedy					C/ 149B SC 149B.4.	2.3 P 202	L 15	# 18	
Make "Figure 149A–3	" in Feature column a hyperlink.				Wienckowski. Natalie	General Mot	ors		
Proposed Response Response Status W					Comment Type E	Comment Status D			EZ
PROPOSED ACCEP	T IN PRINCIPLE.					e transitions shouldn't include me for true and !variable_nam		e", instead you shou	uld
	ot apply to the substantive chang				SuggestedRemedy				
D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot. Correct the link to improve readability of the draft.					In Figure 149B-2, change the following: L15 & L28: "mr_rx_clear_rec=true" to "mr_rx_clear_rec" L28: "mr_rx_clear_rec=false" to "!mr_rx_clear_rec"				
					Proposed Response	Response Status W			
					PROPOSED ACCEP	,			

Pa **202**

Li 15

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

C/ 149B SC 149B.4.2.3	P 202	L 38	# 20		C/ Annex SC 149C.2	P 203	L 43	# 54
Wienckowski, Natalie	General Motors				DiMinico, Christopher	MC Comm	unications	
Comment Type E Comme Different font sizes in Figure 149B	nt Status D -3			EZ	Comment Type E	Comment Status D		Ε
SuggestedRemedy Change all text in figure to be 8.0 p	pt				SuggestedRemedy correct text for space o	sircuit		
Proposed Response Respons PROPOSED ACCEPT.	se Status W				Proposed Response PROPOSED ACCEPT	Response Status W		
C/ 149B SC 149B.4.2.3	P 202	L 44	# 65		Change "circ uit" to "ci	rcuit"		
Fu, Mike Comment Type T Comme The variable "mr_tx_request_rec_o	Broadcom ant Status D clear" is not defined.			ΕZ				
SuggestedRemedy In Figure 149B-3, the transition col	ndition should be cha	anged to: "mr	tx_clear_rec = tru	٥"				
-	e Status W	5 _						
Change "mr_tx_request_rec_clear	= true" to "mr_tx_cle	ear_rec"						
C/ 149B SC 149B.4.2.3	P 202	L 44	# 21					
Wienckowski, Natalie	General Motors							
Comment Type E Comme	nt Status D			EZ				
In state diagrams, the transitions s have the variable_name for true ar			, instead you shou	ıld				
SuggestedRemedy								
In Figure 149B-3, change the follo L44: "mr_tx_request_rec_clear = t L50: "mr_rx_rec_cleared = true" to	true" to "mr_tx_reque							
Proposed Response Respons	e Status W							
PROPOSED ACCEPT IN PRINCIP	PLE.							
In Figure 149B-3, change the follow L44: "mr_tx_request_rec_clear = 1 L50: "mr_rx_rec_cleared = true" to	true ["] to "mr_tx_clear_							

Pa **203** Li **43**