C/ FM	SC FM	P1	L 29	# 50	C/ FM	SC FM	P 8	L 24	# 52
Grow, Rob	ert	Self			Grow, Rob	ert	Self		
Comment 7	• •	Comment Status D		(bucket1)	Comment 7		Comment Status D		(bucket1
		oproved during the March SAS	B meeting and	should be referenced	The W	G ballot group is	s now known, please fill in so	that names can	be reviewed.
	e year 2023.				Suggested	Remedy			
Suggested Replac	•	023" here and on page 12.			Per cor	nment.			
Proposed F		Response Status W			Proposed F	Response	Response Status W		
	OSED ACCEPT	,			PROPO	DSED ACCEPT			
					C/ FM	SC FM	P 8	L 42	# 72
C/ FM	SC FM	P 4	L 21	# 51	D'Ambrosia	a, John	Futurewei, US	S Subsidiary of H	luawei
Grow, Rob		Self			Comment 7	ype E	Comment Status D		(bucket1
Comment	51	Comment Status D		(bucket1)	Membe	ers of WG Ballot	not added		
	not the current	ront matter.			Suggested	Remedy			
Suggested					Add W	G Balloting List			
•	e with current fr				Proposed F	Response	Response Status W		
Proposed H		Response Status W			PROPO	DSED ACCEPT			
	OSED ACCEPT ront matter with	IN PRINCIPLE. latest 802.3 FrameMaker temp	late.		C/ FM	SC FM	P 12	L37	# 53
/ FM	SC FM	 P8	L12	# 71	Grow, Rob		Self	201	" 00
)'Ambrosia		Futurewei, US			Comment 7	уре Е	Comment Status D		(bucket1
Comment 7	-	Comment Status D		(bucket1)			cription of the approved D3.2		
	51	o not fully recognized		(000/01/)		anged when the z-2023 is expect	e original project was split add ted soon.)	ling P802.3dh. (Publication of IEEE Std
Suggested	Remedy				Suggested	Remedy			
1. Mod					"for opt	ical automotive	Ethernet using graded-index	glass optical fibe	er."
"Mark I to	Nowell, IEEE P8	802.3df Task Force Vice Chair"			Proposed F	Response	Response Status W		
Mark N Force (02.3df Task Force Vice Chair, I	IEEE P802.3df	"Optics"Sub-task	-	OSED ACCEPT ent with editoria	IN PRINCIPLE. al license.		
	usted, IEEE P80	02.3df "Electrical" Sub-task For 023df "Architecture and Logic"		e Chair					
	Gustlin, IEEE P8	6							
Kent Li Mark G		Response Status W							
Kent Lu Mark G Proposed F		,							

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G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ FM SC FM Page 1 of 26 2023-05-05 6:44:55 AM

C/ FM	SC FM	P 12	L 47	# 54	CI 0	SC ()	ŀ	^{>} 99	L36	# 65
Dudek, M	like	Marvell			D'Ambros	ia, John		Fu	turewei, US	Subsidiary of I	Huawei
Comment	Type E	Comment Status D		(bucket1)	Comment	Туре	ER	Comment Stat	us D		figure label
Suggeste	dRemedy	nas been published			PCS a	and PMA	associa		E-R PMDs		400GBASE-ZR. The med to 400GBASE-R
Chan	ge 202x to 2022				Suggested	dRemed	v				
•	<i>Response</i> POSED ACCEPT	Response Status W			Chang	ge all ins	tances ir	n text and figures o s to "400GBASE-R			cument that are relevant PMA"
C/ 0	SC 0	P 99	L13	# 66	Proposed	Respon	se	Response Statu	ıs W		
D'Ambros			Subsidiary of H					IN PRINCIPLE.			
Comment	,	Comment Status D		fiqure labels			w of the l	ollowing presentat 5xx	ion:		
Given	progress of 800	G in IEEE P802.3dj with the c at there will be a PCS related		e lambda solution at	[Editor	r's note:	changed	I Clause/Subcl fror	n 124/124.	1 to 0/0]	
be dif	fferent than the F	PCS for other 800GBASE-R P PCSs and PMAs at 800G.			C/ 00	SC ()	ŀ	225	L	# 68
	•				D'Ambroo	ia, John		Fu	turewei. US	Subsidiary of I	
Suaaeste	dRemedv				DAMDIOS			1 4			Huawei
Modif editor Modif	ial license.	00GBASE-R PCS" throughou 00GBASE-R PMA" throughou		-	Comment As not and op in the	<i>Type</i> ted in Ta ptical PH extende	IY types,	Comment State 2-2 and 169-3, 800 which means you	us D G AUI varia could have	ants are optiona an 800GAUI-8	Huawei PMA AL Il for both 800G copper B in the PHY as well as) to support AUIs - not
Modif editor Modif editor	y "PCS" to be "80 ial license. y "PMA" to be "80	-		-	Comment As not and op in the PMA 8	<i>Type</i> ted in Ta otical PH extende 3:8	ables 169 IY types, r. This n	Comment State -2 and 169-3, 800 which means you neans you would P	us D G AUI varia could have MA (32:8)	ants are optiona an 800GAUI-8 and PMA (8:32)	PMA AU I for both 800G copper B in the PHY as well as) to support AUIs - not
Modif editor Modif editor Proposed PROF	y "PCS" to be "80 ial license. y "PMA" to be "80 ial license. <i>Response</i> POSED ACCEPT	00GBASE-R PMA" throughou Response Status W IN PRINCIPLE.		-	Comment As not and op in the PMA & See F	<i>Type</i> ted in Ta ptical PH extende 3:8 ig 173A	ables 169 IY types, r. This n 4 as exa	Comment State -2 and 169-3, 800 which means you neans you would P	us D G AUI varia could have MA (32:8)	ants are optiona an 800GAUI-8 and PMA (8:32)	<i>PMA AL</i> I for both 800G copper i in the PHY as well as
Modif editor Modif editor Proposed PROF Pendi	y "PCS" to be "80 ial license. y "PMA" to be "80 ial license. <i>Response</i> POSED ACCEPT	00GBASE-R PMA" throughou Response Status W IN PRINCIPLE. following presentation:		-	Comment As not and op in the PMA & See F Suggested The st	Type ted in Ta otical PH extende 3:8 ig 173A dRemed atemen	ables 169 IY types, r. This n -4 as exa y ts regard	Comment State 0-2 and 169-3, 800 which means you neans you would P mple that a PMA (us D G AUI varia could have MA (32:8) 32:8) is cal 32 PMAs s	ants are optiona e an 800GAUI-8 and PMA (8:32) led out for conn should reflect be	PMA AL al for both 800G copper B in the PHY as well as) to support AUIs - not necting to a 800GAUI-8 eing present to support
Modif editor Modif editor Proposed PROF Pendi damb	y "PCS" to be "80 ial license. y "PMA" to be "80 ial license. <i>Response</i> POSED ACCEPT ing review of the rosia_3df_xx_230	00GBASE-R PMA" throughou Response Status W IN PRINCIPLE. following presentation:	t document in all	-	Comment As not and op in the PMA & See F Suggested The st	Type ted in Ta ptical PH extende 3:8 ig 173A dRemed atemen AUIs wh	ables 169 IY types, r. This n -4 as exa y ts regard ich may n	Comment State -2 and 169-3, 800 which means you neans you would P mple that a PMA (ing the 32:8 and 8:	us D G AUI varia could have MA (32:8) 32:8) is cal 32:2 PMAs s xtender as	ants are optiona e an 800GAUI-8 and PMA (8:32) led out for conn should reflect be	PMA AL al for both 800G copper B in the PHY as well as) to support AUIs - not necting to a 800GAUI-8 eing present to support

CI 00 SC 0

C/ 1	SC 1.3	P 30	L 40	# 55	C/ 1	SC 1.4.148	i P31	L 44	# 24
Dudek, N	<i>l</i> ike	Marvell			Slavick, Je	eff	Broadcom		
Commen	t Type E	Comment Status D		(bucket1)	Comment	Type TR	Comment Status D		(bucket1)
	fibre rows" is stra	ange.					erface between the RS and eith inition only lists RS to PCS.	er a PCS or Ext	ender and an Extender
00	edRemedy				Suggested		···· , ··· ···		
Chec its tit		nd correct to "One fibre row" u	inless the refere	nce does have this in	00	-	etween the Reconciliation Subl	aver (RS). Med	ia Independent
	d Response	Response Status W				ce Extender S	ublayer (XS) and the Physical (
The recer		rd is currently in draft state. T d to say "One fibre row".	he title in the rel	erenced draft has	The 80	OSED REJEC	Response Status W T. ed an interface between the RS extends the reach of the 800Gl		,
C/ 1	SC 1.4.135a	P 30	L 49	# 73	the MA		extends the reach of the 800G	MII 10 a PCS Ina	it is not colocated with
D'Ambro	sia, John	Futurewei, US	Subsidiary of F	luawei	C/ 1	SC 1.4.184	b <i>P</i> 31	L 6	# 74
Commen	t Type E	Comment Status D		optical lanes	D'Ambrosi	a. John	Futurewei, U	S Subsidiary of I	Huawei
The for a f		bigous when discussing SMF	-as a lane may	be either a wavelength	Comment 800GE	<i>Type</i> E BASE-DR8 rm "lane" is a	Comment Status D	·	optical lanes
level least to IEEE level fibes Proposed	E 802.3 Physical L pulse amplitude r 2 km. (See IEEE 802.3 Physical L pulse amplitude r	Layer specification for 400 Gb nodulation over four lanes of s Std 802.3, Clause 124.)" ayer specification for 400 Gb/ nodulation over four waveleng at least 2 km. (See IEEE Std Response Status W	single-mode fibe s using 400GBA ths distributed c	r, with reach up to at SE-R encoding and 4- over 4 single-mode	level p least 5 to IEEE 8 level p	e 802.3 Physica ulse amplitude 500 m. (See IE 302.3 Physical ulse amplitude	I Layer specification for 800 Gt modulation over eight lanes o EE Std 802.3, Clause 124.)" Layer specification for 800 Gb modulation over eight waveler p to at least 500 m. (See IEEE	f single-mode fit /s using 800GBA ngths distibuted	er, with reach up to at ASE-R encoding and 4- over 8 single-mode
	brown_3df_03_23				-	•	Response Status W PT IN PRINCIPLE. 2305xx.		

C/ 1 SC 1.4.184b Page 3 of 26 2023-05-05 6:44:55 AM

C/ 1	SC 1.4.184c	P 31	L10	# 75	C/ 1	SC 1.4.184g	P 31	L 24	# 77
D'Ambros	ia, John	Futurewei, US	Subsidiary of F	luawei	D'Ambros	sia, John	Futurewei, U	S Subsidiary of I	Huawei
	BASE-DR8-2 erm "lane" is ambi	Comment Status D	-as a lane may l	optical lanes	With	BASE-VR8 the introduction of	Comment Status D WDM technology over MM ne may be either a wavele		optical lane
Chan "IEEE level least to IEEE level fibers	802.3 Physical La bulse amplitude m 500 m. (See IEEE 802.3 Physical La bulse amplitude m with reaches up to <i>Response</i>	ayer specification for 800 Gb. odulation over eight lanes of Std 802.3, Clause 124.)" yer specification for 800 Gb/s odulation over eight wavelen o at least 2 km. (See IEEE S <i>Response Status</i> W	single-mode fib s using 800GBA gths distibuted o	er, with reach up to at SE-R encoding and 4- over 8 single-mode	level least to IEEE level fibers	ge 802.3 Physical La pulse amplitude m 50 m. (See IEEE S 802.3 Physical La pulse amplitude m , with reach up to <i>Response</i>	yer specification for 800 G odulation over eight lanes of itd 802.3, Clause 167.)" yer specification for 800 Gk odulation over eight wavele at least 50 m. (See IEEE S Response Status W	of multimode fibe o/s using 800GB/ ngths distributed	r, with reach up to at ASE-R encoding and 4- l over 8 multimode
	POSED ACCEPT I rown_3df_03_230		L 20	# 76		POSED ACCEPT I prown_3df_03_230 SC 1.4.184h		L37	# 56
) D'Ambros		-	2 2 ک ے Subsidiary of H		Dudek, M		F 31 Marvell	231	# 36
Comment 800G With t discus Suggester Chan "IEEE level	<i>Type</i> E BASE-SR8 he introduction of ssing MMF -as a la <i>dRemedy</i> ge 802.3 Physical La pulse amplitude m	Comment Status D WDM technology over MMF, ane may be either a wavelen ayer specification for 800 Gb odulation over eight lanes of Std 802.3, Clause 167.)"	, the term "lane" gth or a fiber. /s using 800GB/	optical lanes is ambigous when ASE-R encoding and 4-	Comment The e Suggeste delete Proposed PROF	Type E ditors note has se dRemedy the editors note Response POSED ACCEPT.	Comment Status D ved its purpose Response Status W page from 33 to 31]		(bucket)
to IEEE Ievel I fibers Proposed PROF	802.3 Physical La oulse amplitude m	yer specification for 800 Gb/s odulation over eight wavelen at least 100 m. (See IEEE St <i>Response Status</i> W N PRINCIPLE.	gths distributed	over 8 multimode	Suggester Chan	<i>Type</i> E ich thing as "800 G d <i>Remedy</i>	P32 Huawei Comment Status D b/s Extender Sublayer". So nder Sublayer" to "800GMI		# 47 (bucket) yer"
					Proposed	Response OSED ACCEPT.	Response Status W		

C/ 1 SC 1.4.461	P 32	L18	# 31	CI 30	SC 30.5.1.1.	.2	P 35	L 8	# 79	
Huber, Tom	Nokia			D'Ambros	sia, John		Futurewei, U	S Subsidiary of	Huawei	
comment Type E	Comment Status D		(bucket1)	Comment	t Type E	Comment	Status D		opi	ical lane
The text has a comma splic	ce				BASE-DR8 erm "lane" is am	bigous when d	licoucoing SME		he either e wey	olonath
SuggestedRemedy				or a f		ibigous when o	iiscussiriy Sivir	-as a lane may	be either a wav	elengin
Change "the PCS distributer of the PCS lanes." to "the PCS				Suggeste	dRemedy					
lanes."				Chan 800C	ige iBASE-R PCS/PI	MA over 8-lane	single-mode fi	ibor PMD with re	ach un to at lea	et 500
	esponse Status W				specified in Clau		single-mode i			31 300
PROPOSED ACCEPT IN F The sentence as written is				to			alaaatha diatrib	uted ever 0 eine	alo modo fibroo	
Implement the suggested r		nse.			BASE-R PCS/PN reach up to at lea				gie-mode libres	IND
CI 4 SC 4.4.2	P33	L 32	# 41	Make	es changes throug	ghout documer	nt as appropria	te with editorial	lcense	
Schreiner, Stephan	Rosenberger	Hochfrequenzted	chnik GmbH & Co. KG	Proposea	l Response	Response	Status W			
51	Comment Status D		(bucket1)	-	POSED ACCEPT	-	E.			
	D/a E C D/a ia a lina hi	rook ofter 512 hite	which might be	See b	orown_3df_03_23	305xx.				
in minFrameSize for 2.5 Gl		eak aller 512 bits	, which high be							
caused by a different colun		eak aller 512 bits	, which high be	C/ 30	SC 30.5.1.1.	.2	P 35	L10	# 80	
caused by a different colun SuggestedRemedy	nn width		-			.2		L10 S Subsidiary of		
caused by a different colun SuggestedRemedy Inrease width of column to	nn width match the size of the oth		-	C/ 30	sia, John	2 Comment	Futurewei, U	-	Huawei	ical lan
caused by a different colun SuggestedRemedy Inrease width of column to	nn width		-	CI 30 D'Ambros Comment 800G The tu	sia, John t <i>Type</i> E BASE-DR8-2 erm "lane" is am	Comment	Futurewei, U Status D	S Subsidiary of	Huawei	
caused by a different colun SuggestedRemedy Inrease width of column to Proposed Response	nn width match the size of the oth		-	C/ 30 D'Ambros Comment 800G The t or a fi	sia, John t <i>Type</i> E BASE-DR8-2 erm "lane" is am iber.	Comment	Futurewei, U Status D	S Subsidiary of	Huawei	<i>ical lane</i> elength
caused by a different colun SuggestedRemedy Inrease width of column to Proposed Response ROPOSED ACCEPT.	nn width match the size of the oth Response Status W P34	her columns from	the MAC data rate # 78	C/ 30 D'Ambros Comment 800G The tr or a fi Suggeste	sia, John t <i>Type</i> E BASE-DR8-2 erm "lane" is am iber. td <i>Remedy</i>	Comment	Futurewei, U Status D	S Subsidiary of	Huawei	
caused by a different colun SuggestedRemedy Inrease width of column to Proposed Response PROPOSED ACCEPT. Cl 30 SC 30.5.1.1.2 D'Ambrosia, John	nn width match the size of the oth Response Status W P34	ner columns from	the MAC data rate # 78	C/ 30 D'Ambros Comment 800G The t or a fi Suggeste Chan 800G	sia, John t <i>Type</i> E BASE-DR8-2 erm "lane" is am iber. d <i>Remedy</i> ge BASE-R PCS/PM	Comment Ibigous when d MA over 8-lane	Futurewei, U Status D	S Subsidiary of	Huawei op: be either a wav	elength
caused by a different colun SuggestedRemedy Inrease width of column to Proposed Response PROPOSED ACCEPT. CI 30 SC 30.5.1.1.2 D'Ambrosia, John Comment Type E 400GBASE-DR4	nn width match the size of the oth <i>Response Status</i> W P 34 Futurewei, U Comment Status D	ner columns from <i>L</i> 51 S Subsidiary of H	the MAC data rate # <u>78</u> luawei <i>optical lanes</i>	C/ 30 D'Ambros Comment 800G The t or a fi Suggeste Chan 800G	sia, John t <i>Type</i> E BASE-DR8-2 erm "lane" is am iber. ed <i>Remedy</i> ge	Comment Ibigous when d MA over 8-lane	Futurewei, U Status D	S Subsidiary of	Huawei op: be either a wav	elength
caused by a different colun SuggestedRemedy Inrease width of column to Proposed Response ROPOSED ACCEPT. CI 30 SC 30.5.1.1.2 D'Ambrosia, John Comment Type E	nn width match the size of the oth <i>Response Status</i> W P 34 Futurewei, U Comment Status D	ner columns from <i>L</i> 51 S Subsidiary of H	the MAC data rate # <u>78</u> luawei <i>optical lanes</i>	C/ 30 D'Ambros Comment 800G The t or a fi Suggeste Chan 800G as sp to 800G	sia, John t Type E BASE-DR8-2 erm "lane" is am iber. adRemedy ge BASE-R PCS/PI ecified in Clause BASE-R PCS/PI	Comment Ibigous when d MA over 8-lane 124 MA over 8 wave	Futurewei, U Status D liscussing SMF single-mode fi elengths distrib	S Subsidiary of -as a lane may iber PMD with re puted over 8 sing	Huawei op: be either a wav each up to at lea	elength st 2 km
caused by a different colum SuggestedRemedy Inrease width of column to Proposed Response PROPOSED ACCEPT. C/ 30 SC 30.5.1.1.2 D'Ambrosia, John Comment Type E 400GBASE-DR4 The term "lane" is ambigor or a fiber.	nn width match the size of the oth <i>Response Status</i> W P 34 Futurewei, U Comment Status D	ner columns from <i>L</i> 51 S Subsidiary of H	the MAC data rate # <u>78</u> luawei <i>optical lanes</i>	C/ 30 D'Ambros Comment 800G The t or a fi Suggeste Chan 800G as sp to 800G	sia, John t Type E BASE-DR8-2 erm "lane" is am iber. tadRemedy ge BASE-R PCS/PI becified in Clause	Comment Ibigous when d MA over 8-lane 124 MA over 8 wave	Futurewei, U Status D liscussing SMF single-mode fi elengths distrib	S Subsidiary of -as a lane may iber PMD with re puted over 8 sing	Huawei op: be either a wav each up to at lea	elength st 2 km
caused by a different colum SuggestedRemedy Inrease width of column to Proposed Response PROPOSED ACCEPT. Cl 30 SC 30.5.1.1.2 D'Ambrosia, John Comment Type E 400GBASE-DR4 The term "lane" is ambigor	nn width match the size of the oth <i>Response Status</i> W P 34 Futurewei, U Comment Status D	ner columns from <i>L</i> 51 S Subsidiary of H	the MAC data rate # <u>78</u> luawei <i>optical lanes</i>	C/ 30 D'Ambros Comment 800G The t or a fi Suggeste Chan 800G as sp to 800G reach	sia, John t Type E BASE-DR8-2 erm "lane" is am iber. adRemedy ge BASE-R PCS/PI ecified in Clause BASE-R PCS/PI	Comment abigous when d MA over 8-lane 124 MA over 8 wave km as specified	Futurewei, U Status D liscussing SMF single-mode fi elengths distrib d in Clause 124	S Subsidiary of -as a lane may iber PMD with re puted over 8 sing 4	Huawei op be either a wav each up to at lea gle-mode fibres	elength st 2 km
caused by a different colum SuggestedRemedy Inrease width of column to Proposed Response PROPOSED ACCEPT. C/ 30 SC 30.5.1.1.2 D'Ambrosia, John Comment Type E 400GBASE-DR4 The term "lane" is ambigor or a fiber. SuggestedRemedy Change 400GBASE-R PCS/PMA or	nn width match the size of the oth <i>Response Status</i> W P 34 Futurewei, U: Comment Status D us when discussing SMF ver 4-lane single-mode fi	her columns from <i>L</i> 51 S Subsidiary of H -as a lane may b	the MAC data rate # 78 uawei <i>optical lanes</i> be either a wavelength	C/ 30 D'Ambros Comment 800G The t or a fi Suggeste Chan 800G as sp to 800G reach	sia, John t Type E BASE-DR8-2 erm "lane" is am iber. dRemedy ge BASE-R PCS/PN becified in Clause BASE-R PCS/PN bup to at least 2 l	Comment abigous when d MA over 8-lane 124 MA over 8 wave km as specified	Futurewei, U Status D liscussing SMF single-mode fi elengths distrib d in Clause 124	S Subsidiary of -as a lane may iber PMD with re puted over 8 sing 4	Huawei op be either a wav each up to at lea gle-mode fibres	elength st 2 km
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TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 30 SC 30.5.1.1.2 Page 5 of 26 2023-05-05 6:44:55 AM

C/ 30	SC 30.5.1.1.2	P 35	L14	# 61	C/ 45	SC 45.2.1.7.5	5	P 40	L14	# 1
D'Ambros	ia, John	Futurewei, US	Subsidiary of I	Huawei	Hajduczer	nia, Marek		Charter Con	nmunications	
With t	BASE-SR8 he introduction of	Comment Status D WDM technology over MMF ane may be either a wavelen		<i>optical lanes</i> is ambigous when	800GI	es "." instead of " BASE-KR8"	Comment S ," in edited list "		-KR1, 200GBASE	(bi E-KR2, 400GBASE
	dRemedy	,	g		Suggested Chang 12	•	newly added e	ntry. Same o	on line 19. The sa	ime applies to Tabl
800GI as spe to 800GI	BASE-R PCS/PM ecified in Clause ⁻ BASE-R PCS/PM	A over 8-lane multimode fibe 167□ A over 8 wavelengths distribu n as specified in Clause 16	ited over 8 mult		Proposed	Response OSED ACCEPT.	Response S	tatus W		
PROF See b	Response POSED ACCEPT rown_3df_03_230	05xx.								
30	SC 30.5.1.1.2		L16	# 62						
Ambros			Subsidiary of I	Huawei						
With t discus	BASE-VR8 the introduction of ssing MMF -as a l	Comment Status D WDM technology over MMF ane may be either a wavelen		optical lanes						
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Makes	s changes throug	nout document as appropriate	e with editorial le	cense						
Proposed	Response	Response Status W								
	POSED ACCEPT rown_3df_03_230									

C/ 45 SC 45.2.1.7.5

C/ 45	SC 45	5.2.1.135	P45	5	L 29	#	16
Ran, Adee			Cisco				
Comment Ty	′pe	TR	Comment Status	D		7	TX EQ register

Registers 1.500 through 1.515 and 1.516 through 1.531 are mapped to variables that are used for transmitter equalization (local and remote) with AUI-C2C interfaces at 25 or 50 Gb/s per lane (defined in Annex 120B or 120D respectively). The transmit equalizer has 3 taps and specific sets of tap values (or ratios) with relatively coarse steps.

For 100 Gb/s per lane AUI-C2C, the transmitter equalization is controlled by a different set of variables, as defined in 120F.3.1.7 and 120F.3.2.6. The variables are different from and incompatible with those of Annex 120B/120D - the transmit equalizer has 5 taps and finer step size. The mapping of these variables to MDIO registers is also specified in these subclauses of 120F.

Therefore, Registers 1.500 through 1.531 should be made specific to the AUI-C2C at 25 or 50 Gb/s per lane.

This should have been done in 802.3ck, but if the subclauses of clause 45 are modified by this project, it should be done correctly.

If the suggested remedy is not within scope then, as an alternative, these subclauses of clause 45 should be deleted from 802.3df, since they are irrelevant for 800GAUI-n and thus out of scope.

SugaestedRemedv

In the title and body text of 45.2.1.135, change "50GAUI-n, 100GAUI-2, 200GAUI-n, and 400GAUI-n, and 800GAUI-n" to "50GAUI-n, 100GAUI-2, 200GAUI-8, 200GAUI-4, 400GAUI-16. and 400GAUI-8". Apply the same change in the title of Table 45-107.

Apply similarly in 45.2.1.136, 45.2.1.137 (including Table 45-108), and 45.2.1.138.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Some of the changes proposed in the suggested remedy are not within the scope of this project. However, some changes are warranted.

Delete the changes to the 45.2.1.135, 45.2.1.136, 45.2.1.137, and 45.2.1.138 subclauses from the 802.3df draft.

Other changes may be addressed through the 802.3 maintenance process.

Cl 45	SC 45.2.	1.135.1	P 45	L48	#	25
Slavick, Je	ff		Broadcom			
Comment 7	vpe TR	Comn	nent Status D			TX EQ reaister

Comment Type TR Comment Status D

With the deletions the paragraph now reads a bit strangely and needs some word smithing. "The value of this bit indicates the value of the variable Request flag in the lane 0 receiver in the receive direction (see 120B.3.2 and 120D.3.2.3). This indicates whether the chip-tochip device is issuing a request to change the remote transmitter equalization in the chip-tochip lane 0 transmitter in the receive direction. If a lane 0 receiver in the receive direction is not present in the package, then the value returned for this bit should be zero."

SuggestedRemedy

Make it so the old paragraph is a full cross out text and replaced with the following paragraph:

"This bit indicates the state of the Request_flag variable of the lane 0 receiver in the receive direction (see 120B.3.2 and 120D.3.2.3). When read as a one, the device is issuing a request to change the transmitter equalization of the transmitter driving lane 0 in the receive direction. If a lane 0 receiver in the receive direction is not present in the package, then the value returned for this bit should be zero."

Proposed R	esponse	Response Status W		
	SED REJECT. e using the respor	se to comment #16.		
C/ 45	SC 45.2.1.135.	1 P48	L 44	# 57
Dudek, Mike	е	Marvell		
Comment T	ype E	Comment Status D		TX EQ register

800GAUI-16 is not being defined in this amendment and therefore 120D and 120B are not used. There is no need to make changes to these sections?

SuggestedRemedy

Remove the changes to sections 45.2.1.135.1 to 45.2.1.135.7 and other equivalent changes. (If 800GAUI-16 is to be included in this amendment then bring in Annex 120D and make appropriate changes (including Title changes)

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #16.

C/ 45 SC 45.2.1.135.1

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C/ 45	SC 45.2.1.13	5.2	P 46	L 3	# 26	C/ 45	SC 45.2.1.13	5.4 P4	6	L 22	# 29
Slavick, Je	eff		Broadcom			Slavick, Je	eff	Broad	dcom		
	lue of these indic	Comment S cates the value		ase	TX EQ register		providing the trai	<i>Comment Status</i> nsmitter eq that is dri ends of the C2C link	iving this re	eceiver. Not s	TX EQ registe sure this text supports
the" wir Proposed F PROP	ce "The value of t th "These its indi	icate the state of Response St	of the Request <i>tatus</i> W		Requested_eq_c1 in ble of the"	with "being	ce "being used in used by the tran the same chang	lane 0 of the transm smitter driving the lat in 45.2.1.135.5 <i>Response Status</i>	ne 0 receiv		
C/ 45	SC 45.2.1.13	5.2	P 46	L 3	# 28	,	OSED REJECT.	,	vv		
Slavick, Je		-	Broadcom	25	# 20	-		onse to comment #1	6.		
Comment		Comment S	Status D		TX EQ register	C/ 45	SC 45.2.3.25	P6	0	L1	# 30
					be changed. Not sure	Slavick, Je	eff	Broad	dcom		
	kt supports lane r	reversal betwee	en ends of the	C2C link or not.		Comment	Type TR	Comment Status	D		(bucket1
Replac	ce "for the transm				ansmitter in the receive	first pa	aragraph provides	is not necessary and s references to all the	e necessar	y registers for	the maximal width
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TYPE: TR/technical required ER/editorial required GR/gener	ral required T/technical E/editorial G/general	C/ 45	Page 8 of 26
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 45.2.3.25	2023-05-05 6:44:55 AM
SORT ORDER: Clause, Subclause, page, line			

C/ 45	SC 45.2.3.25.1	P 60	L14	# 18	C/ 45	SC 45.2.4.15	P68	L 47	# 21
Slavick, Jeff		Broadcom			Slavick, Jo	eff	Broadcor	n	
	pe TR Comi the PCS rate when de he clauses those given			<i>(bucket1)</i> formation. Just	inform	the number of P ation provided in	Comment Status D CS lanes for each PCS the actual PCS clause.	This text is likely to	
SuggestedRe	emedy						or PCS configurations are	added.	
•	the last sentence to rea 2.19.2.2, 119.2.6.2.2, o		the state of am_lo	ock[0] or amps_lock[0]	Suggested Remo	-	raph that begins with Cla	use 119	
Proposed Res	sponse Respo	onse Status W			Proposed	Response	Response Status W		
Change to	SED ACCEPT IN PRIN to: "This bit reflects the 2.2 and 172.2.6.2.2)."		(see 82.2.19.2.2) or amps_lock[0] (see	-	POSED ACCEPT.	page/line from 0/0 to 68	/47]	
[Editor's n	note: changed page/lin	e from 0/0 to 60/14]				Ū		•	"
C/ 45	SC 45.2.3.48a	P 62	L 43	# 19	C/ 45	SC 45.2.4.16		L 45	# 23
Slavick, Jeff		Broadcom			Slavick, Jo		Broadcor Comment Status D	n	(husland)
Comment Typ	pe TR Comi	ment Status D		(bucket1)	Comment	51	are containers for inforr	nation the other cla	(bucket1) Whathar a
	se 45 registers are con						anal Clause dependency		
counter ex	exists is functional Clau	ise dependency not	a Clause 45 depe	endency.	Suggested	dRemedy			
SuggestedRei	modu					•			
00	,				Remo	ve the word "optic	onal" in the second sente	ence	
00	the word "optional" in t	he second sentence	9			ve the word "optic Response		ence	
Remove t Proposed Res	the word "optional" in t sponse Respo	he second sentence onse Status W	9		Proposed		Response Status W	ence	
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Remove t Proposed Res PROPOS [Editor's n C/ 45 Slavick, Jeff	the word "optional" in t sponse Respo SED ACCEPT. note: changed page/lin SC 45.2.4.15	e from 0/0 to 62/43] P68 Broadcom			Proposed PROF [Edito Cl 45 Slavick, Ju	Response POSED ACCEPT. r's note: changed SC 45.2.5.16	Response Status W page/line from 0/0 to 71 a P81 Broadcor	/45] L 45	
Remove t Proposed Res PROPOS [Editor's n Cl 45 Slavick, Jeff Comment Typ	the word "optional" in t sponse Respo SED ACCEPT. note: changed page/lin SC 45.2.4.15 pe TR Com	e from 0/0 to 62/43] P68 Broadcom ment Status D	L 36	(bucket1)	Proposed PROF [Edito Cl 45 Slavick, Ju Comment	Response POSED ACCEPT. r's note: changed SC 45.2.5.16 eff Type TR	Response Status W page/line from 0/0 to 71 a P81 Broadcor Comment Status D	/45] <i>L</i> 45 n	(bucket1)
Remove t Proposed Res PROPOS [Editor's n Cl 45 Slavick, Jeff Comment Typ Including	the word "optional" in t sponse Respo SED ACCEPT. note: changed page/lin SC 45.2.4.15	e from 0/0 to 62/43] P68 Broadcom ment Status D fining which variable	L 36 e is extraneous in	(bucket1)	Proposed PROF [Edito Cl 45 Slavick, Ju Comment The cl	Response POSED ACCEPT. r's note: changed SC 45.2.5.16 eff Type TR ause 45 registers	Response Status W page/line from 0/0 to 71 a P81 Broadcor	/45] <i>L</i> 45 n nation the other cla	<i>(bucket1)</i> uses have. Whether a
Remove t Proposed Res PROPOS [Editor's n Cl 45 Slavick, Jeff Comment Typ Including	the word "optional" in t sponse Respo SED ACCEPT. note: changed page/lin SC 45.2.4.15 pe TR Comm the PCS rate when de he clauses those given	e from 0/0 to 62/43] P68 Broadcom ment Status D fining which variable	L 36 e is extraneous in	(bucket1)	Proposed PROF [Edito Cl 45 Slavick, Ju Comment The cl counter	Response POSED ACCEPT. r's note: changed SC 45.2.5.16 eff Type TR ause 45 registers er exists is function	Response Status W page/line from 0/0 to 71 a P81 Broadcor <i>Comment Status</i> D s are containers for inform	/45] <i>L</i> 45 n nation the other cla	<i>(bucket1)</i> uses have. Whether a
Remove t Proposed Res PROPOS [Editor's n Cl 45 Slavick, Jeff Comment Typ Including provide th SuggestedRed	the word "optional" in t sponse Respo SED ACCEPT. note: changed page/lin SC 45.2.4.15 pe TR Comm the PCS rate when de he clauses those given	e from 0/0 to 62/43] P68 Broadcom ment Status D fining which variable variable and the cla	L 36 e is extraneous in ause numbers.	<i>(bucket1)</i> formation. Just	Proposed PROF [Edito Cl 45 Slavick, Ju Comment The cl counter Suggested	Response POSED ACCEPT. r's note: changed SC 45.2.5.16 eff Type TR ause 45 registers er exists is function dRemedy	Response Status W page/line from 0/0 to 71 a P81 Broadcor <i>Comment Status</i> D s are containers for inform	/45] <i>L</i> 45 n nation the other clar not a Clause 45 dep	<i>(bucket1)</i> uses have. Whether a
Remove t Proposed Res PROPOS [Editor's n Cl 45 Slavick, Jeff Comment Typ Including provide th SuggestedRei Change tt 119.2.6.2.	the word "optional" in t sponse Respo SED ACCEPT. note: changed page/lin SC 45.2.4.15 pe TR Comu the PCS rate when de he clauses those given emedy the last sentence to rea 2.2, or 172.2.6.2.2)."	e from 0/0 to 62/43] P68 Broadcom ment Status D fining which variable variable and the cla	L 36 e is extraneous in ause numbers.	<i>(bucket1)</i> formation. Just	Proposed PROF [Edito Cl 45 Slavick, Ju Comment The cl counte Suggested Remo	Response POSED ACCEPT. r's note: changed SC 45.2.5.16 eff Type TR ause 45 registers er exists is function dRemedy	Response Status W page/line from 0/0 to 71 a P81 Broadcor Comment Status D s are containers for inforr onal Clause dependency conal" in the second sente	/45] <i>L</i> 45 n nation the other clar not a Clause 45 dep	<i>(bucket1)</i> uses have. Whether a
Remove t Proposed Res PROPOS [Editor's n Cl 45 Slavick, Jeff Comment Typ Including provide th SuggestedRea Change th 119.2.6.2. Proposed Res	the word "optional" in t sponse Respo SED ACCEPT. note: changed page/lin SC 45.2.4.15 pe TR Comu the PCS rate when de he clauses those given semedy the last sentence to rea 2.2, or 172.2.6.2.2)."	e from 0/0 to 62/43] P68 Broadcom ment Status D fining which variable variable and the cla ad "This bit reflects the ponse Status W	L 36 e is extraneous in ause numbers.	<i>(bucket1)</i> formation. Just	Proposed PROF [Edito Cl 45 Slavick, Ju Comment The cl counte Suggested Remo Proposed	Response POSED ACCEPT. r's note: changed SC 45.2.5.16 eff Type TR ause 45 registers er exists is function (Remedy) ve the word "option	Response Status W page/line from 0/0 to 71 a P81 Broadcor <i>Comment Status</i> D s are containers for inforr onal Clause dependency	/45] <i>L</i> 45 n nation the other clar not a Clause 45 dep	<i>(bucket1</i>) uses have. Whether a
Remove t Remove t PROPOS [Editor's n Cl 45 Slavick, Jeff Comment Typ Including provide th SuggestedRei Change tt 119.2.6.2. Proposed Res PROPOS Change to	the word "optional" in t sponse Respo SED ACCEPT. note: changed page/lin SC 45.2.4.15 pe TR Comu the PCS rate when de he clauses those given emedy the last sentence to rea 2.2, or 172.2.6.2.2)."	e from 0/0 to 62/43] P68 Broadcom ment Status D fining which variable variable and the cla ad "This bit reflects the onse Status W CIPLE. state of amps_lock	L 36 e is extraneous in ause numbers.	<i>(bucket1)</i> formation. Just _lock[0] (see	Proposed PROF [Edito Cl 45 Slavick, Ju Comment The cl counte Suggested Remo Proposed PROF	Response POSED ACCEPT. I's note: changed SC 45.2.5.16 eff Type TR ause 45 registers er exists is function (Remedy ve the word "option Response POSED ACCEPT.	Response Status W page/line from 0/0 to 71 a P81 Broadcor Comment Status D s are containers for inforr onal Clause dependency conal" in the second sente	/45] L 45 n nation the other cla not a Clause 45 de ence	<i>(bucket1)</i> uses have. Whether a
Remove t Proposed Res PROPOS [Editor's n Cl 45 S Slavick, Jeff Comment Typ Including provide th SuggestedRei Change th 119.2.6.2. Proposed Res PROPOS Change to Make sim	the word "optional" in t sponse Response SED ACCEPT. note: changed page/lin SC 45.2.4.15 pe TR Comm the PCS rate when de he clauses those given amedy the last sentence to real 2.2, or 172.2.6.2.2)." sponse Response SED ACCEPT IN PRIN to: "This bit reflects the	e from 0/0 to 62/43] P68 Broadcom ment Status D fining which variable variable and the cla ad "This bit reflects the onse Status W CIPLE. state of amps_lock[5.1	L 36 e is extraneous in ause numbers.	<i>(bucket1)</i> formation. Just _lock[0] (see	Proposed PROF [Edito Cl 45 Slavick, Ju Comment The cl counte Suggested Remo Proposed PROF	Response POSED ACCEPT. I's note: changed SC 45.2.5.16 eff Type TR ause 45 registers er exists is function (Remedy ve the word "option Response POSED ACCEPT.	Response Status W page/line from 0/0 to 71 a P81 Broadcor <i>Comment Status</i> D s are containers for inforr onal Clause dependency onal" in the second sente Response Status W	/45] L 45 n nation the other cla not a Clause 45 de ence	<i>(bucket1</i>) uses have. Whether a

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line Cl **45** SC **45.2.5.16a** Page 9 of 26 2023-05-05 6:44:55 AM

C/ 45	SC	45.2.5.16a	P 81	L 49	# 11	C/ 116	SC	116.1.3	P 95	L38	# 63
Ewen, Joł		-0.2.0.100	Independent	-------------	" <u> </u>	D'Ambros				IS Subsidiary of	
Comment		Е	Comment Status D		(bucket1)	Comment	,	E	Comment Status D		optical lanes
Begin definir	ning of s	sentence re ters 5.300 t	efers to registers 4.300 to 4.3	02; however, tl	()	400GI	BASE-D erm "lan	DR4	bigous when discussing SMI	F -as a lane may	
Suggested Chang parag	ge 4.300	•	5.300 - 5.302 respectively ir	first sentence	of second sub-clause	Suggested Chang		<i>ly</i> ription to:			
Proposed	Respon	nse ACCEPT.	Response Status W			400 G	b/s PH	Y ['] using 40	00GBASE-R encoding over up to at least 500 m (see 0		listributed over 4 single-
	00	00.4.4	Date	1 = 4	# [2	Makes	s chang	es throug	hout document as appropria	ate with editorial I	lcense
C/ 93A		93A.1	P245	L 54	# 9	Proposed	Respor	nse	Response Status W		
Lusted, Ke		TR	Intel Corporati Comment Status D	on	(bucket1)	-		ACCEPT df 03 230	IN PRINCIPLE.)5xx.		
			er specificiations that emplo -2022, does not contain ent			C/ 116	SC	116.1.3	P 95	L 41	# 64
Suggested	dRemea	ły				D'Ambros	ia, Johr	ו	Futurewei, L	IS Subsidiary of	Huawei
800G/ 800GI	AUI-8 C BASE-C	2C (Annex CR8 (Clause	de the following Physical Lay 120F) Table 120F-8 9 162) Table 162-20 9 163) Table 163-11	ver references a	and Parameter values:		BASE-D erm "lan		Comment Status D	F -as a lane may	<i>optical lanes</i> be either a wavelength
Proposed	Respon	nse	Response Status W			Suggestee	dRemed	dy			
Add A In 93A	Annex 93 A.1 add	3A to the dr the instruct	N PRINCIPLE. aft. ion "Change Table 93A–2 (a d rows not shown):"	s amended by	802.3ck-2022) as	400 G	b/s PH		00GBASE-R encoding over up to at least 2 km (see Cl		listributed over 4 single-
Insert	t rows pe	er the sugge	ested remedy, after the last	ow for 400GAL	II-4 C2C (Annex 120F).	Makes	s chang	es throug	hout document as appropria	ate with editorial I	lcense
Implei	ment wit	th editorial	license.			Proposed	Respor	nse	Response Status W		
						-		ACCEPT df_03_230	IN PRINCIPLE.)5xx.		

C/ 116 SC 116.1.3 Page 10 of 26 2023-05-05 6:44:55 AM

C/ 120 SC	120.5.11.2	P 98	L13	# 15	C/ 124	SC 124.5.4	P 106	L10	# 84
Ran, Adee		Cisco			Dawe, Pier	s	Nvidia		
Comment Type	т	Comment Status D		(bucket1)	Comment 7	ype TR	Comment Status D		launch powei
defined without	ut precoding. Iso include 12	in 120.5.11.2.1, 120.5.11. " 20.5.11.2.a (PRBS9Q test			DR8, 1 complia	00GBASE-FR1 ance for a virtua	II be capable of any of 100GB , 400GBASE-DR4-2, 800GBA ally unusable 0.2 dB on an uni I add procedural cost.	SE-DR8-2. No	minal nearly-
Add 120.5.11	,				Suggested	Remedy			
Proposed Respon PROPOSED	nse F	Response Status W			increas the me	ed from -3.1 to antime: add a r	e average launch power (min) f -2.9 dBm to bring it in line wit ecommendation that the SIGN GBASE-DR4-2 and 800GBAS	h 100GBASE-D IAL_DETECT p	R/400GBASE-DR4. In ower criterion for
C/ 120G SC	120G.1	P 255	L 14	# 70	power,	each lane (min) in Table 124-7) should be -7	.1 dBm. `	Ū.
D'Ambrosia, John	n	Futurewei, US	Subsidiary of H	uawei			plementers will set it lower that and for interoperability text.	an this anyway.	See other comments
sublayers SuggestedRemed	S Sublayers, dy MA sublayers	Comment Status D and AUI's are all distingui s with reference to data rat Response Status Z	,	withdrawn tes except the PMA	Proposed F PROPO The fac the imp The su scope o Further	Response DSED REJECT to that modules elementer, not a ggested remed of this project.	Response Status W meet several compatible spect a requirement from the standa y refers to a modification of 10 nt justification is provided why	rd.)0GBASE-FR1 \	which is outside the
This commen	t was WITHE	RAWN by the commenter	r.		C/ 124	SC 124.5.4	P106	L10	# 42
WITHDRAWN	N				Suggestedi Insert E Proposed F	Type E Bracket 3x"(" Remedy Bracket at the E	Comment Status D but only 2x")" End of Line 11 Response Status W	Hochfrequenzte	chnik GmbH & Co. KG <i>(bucket1)</i>

C/ 124 SC 124.5.4

C/ 124	SC 124.7.1		P108	L 23	# 85	C/ 124	SC	124.7.3	P 110	L16	# 12
Dawe, Pie	ers		Nvidia			Stassar, F	Peter		Huawei		
Comment The n 400G dB, w made that. There powel intent <i>Suggester</i> Chang See a Proposed PROF	Type TR ininimum OMA f BASE-DR4/100 0.2 dB lower is hich is very hig multi-complian is a minor ben which should ional signal det dRemedy ge Average lau ge Average rec nother commen Response POSED ACCEF	or 400GBAS IGBASE-DR s not helpful. h, will exceed t for convenin efit in improv be very wide ect hysteresis nch power, e n for interope <i>Respon</i> . T IN PRINC	ent Status D E-DR4-2 and 8000 and 800GBASE-D Any transmitter w d the 400GBASE- ence in interopera ring the clearance to accomodate be s. ach lane (min) from each lane (min) from each lane (min) from erability text. se Status W	DR8, so setting th vith an extinction DR4 limit anywa bility and breako between Rx min etter-than-worst r m -3.1 to -2.9 dB pm -7.1 to -6.9 dE	ratio lower than 9.8 y. Modules will be ut - let us document power and Tx off max eceivers and m	Comment In cla dB, w The d poten config Becau discre for MF Suggester In Tat alloca Furthe prese Proposed PROF	Type use 124 hereas f lifference tially suf guration use it wa ter reflec PI penal dRemed ble 124-t ation for ermore on ntation v Respon	for 400G- e of 0.3 d ffering a h compared as agreed ctances a ty can be dy 8, in the c penalties change Tr will be pro ose ACCEPT	Comment Status D 24-8, for 400G-DR4 and 8000 DR4-2 and 800G-DR8-2 it is B seems to originate from the igher MPI penalty due to larg d to a DR4/DR8 configuration (during the TF phase) to use s shown in in-force Table 12-4 assumed for DR4/DR8 and I columns for 400GBASE-DR4 from 3.8 dB to 3.5 dB. k min power from x to y and F wided for the comment resolu- wided for the comment resolu- <i>Response Status</i> W IN PRINCIPLE.	3.8 dB. e FR4 spec in (ger individual re a. e the same list 4-13, also the s DR4-2/DR8-2. -2 and 800GBA Rx sensitivity fr ution meeting	Clause 151, which is effections in an FR4 of requirements for ame (lower) allocation ASE-DR8-2, change the
consis 10 dB	stent across PN for 400GBASE	ID types. Thi DR4 (and 8	is is related to the 00GBASE-DR8),	assumption of a while for the 400	max extinction ratio of GBASE-DR4-2 and	Pendi	ing revie	w of pres	entation and task force discu	ission.	
	BASE-DR8-2 th ed up. For TF d		ction ratio is assun	ned to be infinity.	This may need to be	C/ 124 Nicholl, S		124.8.1	P115 AMD	L 8	# 3
						Comment		т	Comment Status D		test pattern (bucket1)
						The P 400G	Pattern c BASE-R	olumn for signal, o	the Wavelength row contain r 800GBASER signal". Curr GBASE-R signal, and not to	ently, it seems	wave, 3, 4, 5, 6, or valid that the word valid is
						Suggeste	dRemea	ly			
						Propo signal		iare wave	, 3, 4, 5, 6, or valid 400GBA	SE-R signal, or	valid 800GBASER
									ws pertaining to "Side mode " parameter.	suppression ra	tio" parameter and to
						Proposed	Respon	ise	Response Status W		
						Chang Imple	ge to "S	quare way	IN PRINCIPLE. ve, 3, 4, 5, 6, or valid 400GB Il license.	ASE-R or 8000	GBASE-R signal".

See comment #94.

C/ 124 SC 124.8.1

C/ 124	SC 124.	11a.1	P 122	L 21	# 86	C/ 124	SC 124.12	4	P 124	L11	# 45
Dawe, Pie	rs		Nvidia			Brown, Ma	itt		Huawei		
Comment	Type TR	С	omment Status D		average power	Comment	Туре Е	Commer	nt Status D		(bucket1)
power	is greater th	an or equ	on "provided that the al to the value for averag ds procedural cost for no	ge launch power	(min) for 400GBASE-		e is not define				ated. Also, the status d for each PMD type.
400GE averag 400GE	g made the i BASE-DR4 (see anoth greater tha n Table 12	100GBASE-DR4-2 trans er comment), delete "an n or equal to the value f 24-6."	d the 400GBAS	E-DR4-2 transmitter	In 124. In 124. - chan - upda Proposed i	12.3 create s 12.4.3, 124.1 ge the item la te the status v Response	2.4.3a, 124.12. bels such that t vith the new sta	e Status W		
Proposed	Response	Re	sponse Status W						editorial license.		
-	OSED REJ	-	85.			C/ 124	SC 124.12	.4.	P125	L 35	# 92
			acceptance of commen remains REJECT then		eds to be dealt with first. be reiected as well.	Dawe, Pie			Nvidia		
C/ 124 Dawe, Pie	SC 124.	12.2	P 123 Nvidia	L 42	# 87		PICS for the 8			nnector reference	<i>(bucket1)</i> is different to 400G,
Comment	Type E	-	omment Status D abilities/options		(bucket1)	Suggested Per co	<i>Remedy</i> mment				
S <i>uggested</i> Add m	,	for the for	ur PMD types			-	, OSED ACCEI	, PT IN PRINCIP			
Proposed	Response	Re	sponse Status W			· · · ·			ditorial license		
	OSED ACC		RINCIPLE. to comment #45.			C/ 124 Dawe, Pie	SC 124.12	.4.1	P 124 Nvidia	L 3	# 88
						Comment	Туре Е	Commer 400GBASE-R I	nt Status D		(bucket1)
						Suggested					
							OSED ACCEI	, PT IN PRINCIP	e Status W PLE. editorial license		

C/ 124 SC 124.12.4.1

C/ 124	SC 124.12.4.3a	P124	L11	# 89	C/ 162	SC 162.14.4.2	P 139	L 52	# 7
Dawe, Pier	S	Nvidia			Lusted, Ke	ent	Intel Corpor	ation	
Comment 1	Туре Е Со	mment Status D		(bucket1)	Comment	Type TR	Comment Status D		(bucket)
adjuste	use: "400GBASE-DR4	or options. Also, they	could be combi	ned as one table in one	2022, due to	has an incorrect re	D control function" the bas eference to the relevant su e new item (h) in 3df 162.6	bclause for the ti	raining pattern entries
Per cor	•				Suggested	Remedy			
	Response Res		ent #45		For Ite - upda	m 'PC2': te the subclause to	Control Function PICS ite o be 162.8.11.1 to reference Table 162-10		
C/ 124 Dawe, Pier	SC 124.12.4.4	P 125 Nvidia	L1	# 90		m 'PC3': te the subclause to	o be 162.8.11.1		
Comment 1		mment Status D		(bucket1)	Proposed	Response	Response Status W		
This su we spe parame	bclause title "Optical n cify testing, which we deters are and how they	don't; we specify parar might be determined	neter limits and by measuremen	t. We started to move	Add 10	OSED ACCEPT II 32.14.4.2 from the sted remedy.	N PRINCIPLE. base document and ame	nd table items PC	C2 and PC3 per the
require	rom this in Clause 52, ments", matching 52.9 rement methods"				C/ 163	SC 163.13.4.2		L 52	# 8
					Lusted, Ke		Intel Corpor	ation	(h
method Proposed F	e "Optical measuremen ds". Response Res	nt methods" to "Optica	l parameters an	d measurement	2022, due to	CS table for "PME has an incorrect re	Comment Status D O control function" the base efference to the relevant such a new item (h) in 3df 162.6	bclause for the ti	raining pattern entries
This titl	OSED REJECT. le is consistent with sir onsistent with the PICS			e of this subclause is		e 163.13.4.2 PMD	Control Function PICS ite	ms as follows:	
Cl 124 Dawe, Pier	SC 124.12.4.4	P 125 Nvidia	L 21	# 91	- upda	m 'PC2': te the subclause to te value/comment	o be 162.8.11.1 to reference Table 162-10)a	
Comment 7 The sta	<i>Type</i> E Co atus of OM9 to OM12 s	<i>mment Status</i> D hould depend on the r	major option for	<i>(bucket1)</i> PMD type		m 'PC3': te the subclause t	o be 162.8.11.1		
Suggestedl	Remedy				Proposed	Response	Response Status W		
Per cor	mment					OSED ACCEPT II	N PRINCIPLE. base document and ame	nd table items DC	2 and PC2 par tha
Proposed P	•	ponse Status WI				sted remedy.	base document and ame		52 and PC3 per the

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 163 SC 163.13.4.2 Page 14 of 26 2023-05-05 6:44:55 AM

C/ 167 SC 167.1	.1 P151	L 40	# 93	C/ 167	SC 167.8.1	P 159	L 9	# 94
Dawe, Piers	Nvidia			Dawe, Pier	rs	Nvidia		
Comment Type E	Comment Status D		(bucket1)	Comment	Туре Т	Comment Status D		test pattern (bucket1)
Clause 173 and the	n Clause 172					aren't talking about an optica		
SuggestedRemedy Could be simplified	to: Clause 173 then Clause 172			One co table e	ould assume it n entry has becom	does not depend on V vs. S. neans the same as compliant e very long.		
including 122.1.1,	Response Status W CT. sistent with multiple similar subc 24.1.1 and 151.1.1. ge does not improve accuracy c			3, 4, 5, 100GE to 3, 4, 5, Surpris 100GE	ASE-SR1, 2000 , 6, or 100GBAS singly, we have BASE-R10 and 1	GBASE-VR1, 200GBASE-VR GBASE-SR2, 400GBASE-SR SE-R1, 200GBASE-R2, 400G not used the term "800GBAS 00GBASE-R4. Such names as we work on 200G/lane in F	4, or 800GBA BASE-R4 or 8 E-R8" althoug will be useful	SE-SR8 signal 300GBASE-R8 signal Jh in Section 6 we have
				Suggested	Remedy			
				100GE to	, 6, or valid 1000 BASE-SR1, 2000	GBASE-VR1, 200GBASE-VR GBASE-SR2, 400GBASE-SR SE-R1, 200GBASE-R2, 400G	4, or 800GBA	SE-SR8 signal
				For Str compli Define	ance anyway, b 100GBASE-R1	sensitivity, just delete "valid".		
				Proposed I	Response	Response Status W		
				PROP The wo In Tab "or vali 100GE to	OSED ACCEPT ording should be le 167-11 chang id 100GBASE-V BASE-SR1, 2000	IN PRINCIPLE. e improved. Use similar word ge (R1, 200GBASE-VR2, 400GE GBASE-SR2, 400GBASE-SR 2, 200GBASE-R, 400GBASE-	BASE-VR4, 80 4, or 800GBA	0GBASE-VR8, SE-SR8 signal"

C/ 167 SC 167.8.1

C/ 167	SC	167.10.3.4	P165	L1	# 95
Dawe, Piers	6		Nvidia		
Comment T	ype	TR	Comment Status D		(bucket1)
400GBA position approac With the	ASE-S s are ch has e high	R8 has two used) and become e er bandwid	onnector was recommend o options: a dual-row twelv a single-row sixteen-fiber stablished. th for 800GBASE-SR8 vs ctor is more important.	ve-fiber interface interface. Since t	(although different then, the sixteen-fiber
SuggestedR	Remed	dy			
		A, the dua accordingl	al-row 24-position non-ang y.	led connector.	
Proposed R	espor	nse	Response Status W		
This iss	ue wa	REJECT. Is previous	addressed in D1.0 comm		ents final clause.pdf.
This iss https://w and D1. https://w and in b option.	ue wa vww.ie 1 con vww.ie ooth ca	REJECT. as previous eee802.org nment #115 eee802.org ases the ta	addressed in D1.0 comm /3/df/comments/D1p0/802	23df_D1p0_comm 23df_D1p1_comm the dual-row, twe	nents_final_clause.pdf, lve fiber connector
This iss https://w and D1. https://w and in b option. The con	ue wa vww.ie 1 con vww.ie ooth ca nmen	REJECT. as previous eee802.org nment #115 eee802.org ases the ta	addressed in D1.0 comm /3/df/comments/D1p0/802 5, /3/df/comments/D1p1/802 sk force decided to retain	23df_D1p0_comm 23df_D1p1_comm the dual-row, twe	nents_final_clause.pdf, live fiber connector e suggested remedy.
This iss https://w and D1. https://w and in b option.	ue wa vww.ie 1 con vww.ie ooth ca nmen SC	REJECT. as previous eee802.org nment #115 eee802.org ases the ta t does not p	addressed in D1.0 comm /3/df/comments/D1p0/802 5, /3/df/comments/D1p1/802 sk force decided to retain provide sufficient justificat	23df_D1p0_comm 23df_D1p1_comm the dual-row, twe ion to support the	nents_final_clause.pdf, lve fiber connector
This iss https://w and D1. https://w and in b option. The con <i>Cl</i> 167 Dudek, Mike <i>Comment Ty</i>	ue wa vww.ie 1 con vww.ie ooth ca nmen SC e ype	REJECT. as previous beee802.org ment #115 beee802.org ases the ta t does not p 167.10.3.4 T	addressed in D1.0 comm /3/df/comments/D1p0/802 5, /3/df/comments/D1p1/802 sk force decided to retain provide sufficient justificat P165	23df_D1p0_comm 23df_D1p1_comm the dual-row, twe ion to support the <i>L</i> 14	nents_final_clause.pdf, live fiber connector e suggested remedy. # 58 (bucket1)
This iss https://w and D1. https://w and in b option. The con C/ 167 Dudek, Mike Comment Ty The opti SuggestedF	ue wa www.ie 1 con www.ie ooth ca ooth ca nmen SC s ype ion B	REJECT. is previous see802.org iment #115 see802.org ases the ta t does not p 167.10.3.4 T uses the an	addressed in D1.0 comm /3/df/comments/D1p0/802 5, /3/df/comments/D1p1/802 sk force decided to retain provide sufficient justificat <i>P</i> 165 Marvell <i>Comment Status</i> D ngled interface which is de	23df_D1p0_comm 23df_D1p1_comm the dual-row, twe ion to support the <i>L</i> 14	nents_final_clause.pdf, live fiber connector e suggested remedy. # 58 (bucket1)

C/ 167	SC 16	67.11.4.6	P 168	L 35	# 59	
Dudek, Mił	<e< td=""><td></td><td>Marvell</td><td></td><td></td><td></td></e<>		Marvell			
Comment	Type I	E	Comment Status D		(bucket1)
OC17 a	appears t	to be iden	tical to OC16 except in	the status colu	ımn.	
Suggested	Remedy					
Label o	one of the	ese with C	Option A and one with C	Dption B		
Proposed I	Response	Э	Response Status W			
			AFI" in OC16 means r OC8 and OC9 of 167.1			means
C/ 169	SC 16	0 /	P 177	1 07	11	
	00 10	JJ.4	F 177	L 27	# 82	
Maki, Jeffe			Juniper N		# 82	
Comment	ery Type	т	Juniper N Comment Status D	etworks	de	,
Comment The su and 20 the obs delays seen fo	Type Im of the 0.48 ns fo served de are spec or optical	T sublayer r 800GBA elay of two sified too s	Juniper N	letworks 300GBASE-R F 8-2 PMD is 112 PMD. The cond sible. Excessiv	de PMA (up to four PMA 2.64 ns, which is less ern is that these subl	than ayers
Comment The su and 20 the obs delays seen fo Suggested	ery Type Im of the 48 ns fo served de are spec or optical Remedy	T sublayer r 800GBA elay of two iffied too s modules	Juniper N Comment Status D delays of 92.16 ns for 8 SE-VR8/SR8/DR8/DR PMA stages and the small in value to be fea (two PMA stages + PM	letworks 300GBASE-R F 8-2 PMD is 112 PMD. The cond sible. Excessiv 1D).	de PMA (up to four PMA 2.64 ns, which is less ærn is that these subl e delays of about 50%	stages) than ayers
Comment The su and 20 the obs delays seen fo Suggested	ery Type Im of the .48 ns fo served de are spec or optical <i>Remedy</i> se Delay	T sublayer r 800GBA elay of two ified too s modules values for	Juniper N Comment Status D delays of 92.16 ns for 8 SE-VR8/SR8/DR8/DR DPMA stages and the small in value to be fea	letworks 300GBASE-R F 8-2 PMD is 112 PMD. The cond sible. Excessiv 1D).	de PMA (up to four PMA 2.64 ns, which is less ærn is that these subl e delays of about 50%	stages) than ayers

C/ 169 SC 169.4 Page 16 of 26 2023-05-05 6:44:55 AM

C/ 169 SC 169.4	P 177	L 40	# 10	C/ 169	SC	169.5	P180	L 9	# 96
_aubach, Mark	IEEE Member	/ Self		Dawe, Pier	rs		Nvidia		
Comment Type E	Comment Status D		withdrawn	Comment	Туре	TR	Comment Status D		skew (CC
the standard. Clause 3	nition of pause_quanta.)". I s 1B.2 defines "pause_time" or use_quanta," "pause_quar	nly and that "Th	e pause_time is	slow by Also th future 2	y mode ley wer 200G/la	ern standar e heavily s	and Skew Variation limits ds, and CWDM over 40 km andbagged. It is important Ethernet is not locked into a case.	which is not goi to sort this out f	ng to happen for 800G. or 800G so that the
	re pause_quanta is actually d	lefined?		Suggested	Remed	ly			
Proposed Response	Response Status Z					investigatio adding.	on, revise the numbers acc	ording to relevan	t technology, take out
PROPOSED REJECT.				Proposed I	Respor	ise	Response Status W		
	HDRAWN by the commenter			-			N PRINCIPLE.		
C/ 169 SC 169.5	P 180	L 2	# 81	C/ 169	SC	169.5	P180	L31	# 97
i, Mike	Intel			Dawe. Pier	rs		Nvidia		
	Comment Status D nis table 169-5 no longer reps r 800GE which needs to be c		<i>skew (CC)</i> ogy in reality, resulting	Comment Table I	Туре	Е	Comment Status D		(bucket
SuggestedRemedy				Suggested	Remed	ly			
See slide 10 of li_3df_0 Architecture and logic a	1_0423 (presenation made a d hoc". Also inserted.	t the April 26, 2	023 "802.3df	Adjust Proposed I		n widths	Deepense Status W		
Proposed Response PROPOSED REJECT. Pending review of the c	Response Status W			PROP	OSED are no	REJECT. apparent is	Response Status W ssues with the layout of Tal provide sufficient justification		hanges to the draft.
For task force review.				C/ 170	SC	170.4.4.2	P187	L 3	# 98
				Dawe, Pier	rs		Nvidia		
				<i>Comment</i> Broker	51	E ole name	Comment Status D		(bucket1
				Suggested Make s			ightly wider		
				Proposed I	Respor		Response Status W		

C/ 170 SC 170.4.4.2

C/ 171	SC 171.1	P 189	L11	# 44	C/ 171	SC 171.3	P 192	L15	# 4
Brown, Ma	itt	Huawei			Nicholl, Sh	awn	AMD		
Comment	Туре Е	Comment Status D		(bucket1)	Comment	Type TR	Comment Status D		(bucket
		implies it has only one 800G n is a physical instantiations s		-	in the t	ransmit path of	nal block diagram for the PHY the PHY 800GXS and likewis		
Suggested	Remedy					•	oduces confusion.		
800GX PMA s To: "The 8 at the	S at the PHY en ublayers." 00GMII Extender	Extender is composed of a D d with a physical instantiation is composed of a DTE 800G e or two 800GAUI-n between 34j.	of 800GAUI-n	between two adjacent	* Úpd to 8000 800GX probler	e one of the fol ate the diagram GMII), use label S (i.e. direction n with this prop	lowing solutions: a. In the transmit path of the s "Flow 0 Tx" and "Flow 1 Tx" from 800GMII to PMA), use osal is that it contradicts the l ansmit function" of the 800GX	". In the receive labels "Flow 0 R PICS tables (wh	path of the PHY x" and "Flow 1 Rx". The ich for example, indicate
Proposed I	Response	Response Status W			transco				
PROP	OSED ACCEPT.				"Flow ()". Replace "Flo	 Remove the Tx/Rx in the d ow 1 Tx" with "Flow 1". Replay 1". If this solution is chosen 	ace "Flow 0 Rx"	with "Flow 0". Replace
C/ 171	SC 171.1	P190	L 22	# 67			nal block diagram".	, propose to app	by similar solution to
D'Ambrosi	a, John	Futurewei, US	Subsidiary of I	Huawei			m. Since the diagram is effect agram", rely on the text (in the		
	efinition of the OS	Comment Status D I Physical Layer is incorrect a	as shown in Fig	<i>(bucket1)</i> 171-1. The medium is		KS/400GXS Sul	blayer" was able to rely on the Response Status W		
	rt of the Physical	Layer					IN PRINCIPLE.		
Suggested	2	w the Physical Layer bottom	hardar at the h	ottom of the MDI	Resolv	e using the resp	ponse to comment #5.		
	0								
Proposed I	Response OSED ACCEPT.	Response Status W							
	SC 171.2	P190	L 46	# 99					
C/ 171			L40	# 99					
Dawe, Pie		Nvidia Comment Status D		(buokott)					
to the	see any the mod	ification to the FEC degrade CS, but here we are comparin							
Suggested	Remedy								
Delete	"with the modifie	ed FEC degrade signaling def	ined in 171.5"						
Proposed I	Response	Response Status W							
	OSED ACCEPT	IN PRINCIPLE.							

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

C/ 171 SC 171.3 Page 18 of 26 2023-05-05 6:44:55 AM

C/ 171	SC 171.4	P 193	L 42	# 13
Ran, Adee		Cisco		
Comment Ty	pe T	Comment Status D		fault signaling

The standard should be explicit about what happens in a PHY connected to an 800GMII Extender when there is no valid input signal.

The precedence is set in 802.3cw: D2.1 states (in 155.2.6.7.2) that the 400GBASE-ZR PCS sends local fault ordered sets to the 400GMII when there is no signal; this means the PHY XS transmits these local fault over the 400GAUI-n toward the DTE XS. There is no provision for "shutting down" the PHY XS output, so the 400GAUI-n in an Extender is never silent.

The behavior of the 800GMII extender should be the same as that of the 400GMII extender as described above.

Note that this behavior is different from existing optical modules that are connected with any AUI-C2M to a PCS (as part of the PHY, not an extender), where it is common to squelch the module electrical output (aka disable the AUI's transmitter) when there is no optical input (PMD:IS_SIGNAL.indication is not_ok); that is indicated to by PCS via PMA:IS_SIGNAL.indication on its adjacent PMA. That would not be compliant behavior when the AUI is within a 800GMII Extender.

The different behavior required from Extender modules may not be obvious and should be mentioned.

Note: if the task force wants to allow squelching the Extender's AUI, it may require more significant changes; as an alternative, an editor's note can be added to capture that intent until a detailed proposal is presented

(such as "Editor's note: the behavior of the Extender when there is no input signal from the PHY is to be determined").

SuggestedRemedy

Add the following paragraph at the end of 171.4:

NOTE-link fault signaling generated by the PHY (see 170.3 and 81.3.4) is transmitted to the RS through the 800GMII Extender. Therefore, the electrical interface used within the 800GMII Extender sends valid PHY 800GXS data regardless of the link state of the PHY below the 800GMII.

Proposed Response Response Status W

PROPOSED REJECT.

800GMII Extender is able to pass the necessary fault signaling to the upper RS using sequence ordered sets.

Brown, Ma		171.6	P 194	L 26	# 43
	tt		Huawei		
Comment	51	Е	Comment Status D		(bucke
		ove the PMI t have 8 lan	D may not be an 800GBA nes.	ASE-R PMA (per Cl	ause 173) and the
Suggested	Remed	dy			
For the	PMA	immediatel	y above the PMD change	e "PMA (32:8)" to "F	PMA".
Proposed I	Respor	ıse	Response Status W		
PROP	OSED	ACCEPT.			
C/ 171	SC	171.6	P194	L35	# 48
Brown, Ma	tt		Huawei		
Comment 7	Туре	Е	Comment Status D		(bucke
No suc	h thing	j as "800 G	b/s Extender Sublayer".	See 171.1.	
0	e "800	Gb/s EXTE	ENDER SUBLAYER" to "	800GMII EXTEND	ER SUBLAYER"
		1Se	Response Status W		
Proposed F PROP	•	ACCEPT.	Nesponse Status W		
PROP	OSED		P201	L8	# 32
PROP	OSED SC	ACCEPT.		L8	# 32
PROP C/ 171	OSED SC m	ACCEPT.	P201	L 8	# <u>32</u> (bucke
PROPO Cl 171 Huber, Tor Comment T It is no	OSED SC m Type t clear	ACCEPT. 171.8.4.3 E why the co	P 201 Nokia	mp from C6 to C9;	(bucke
Cl 171 Huber, Tor Comment T It is no	OSED SC m Type t clear as wha	ACCEPT. 171.8.4.3 E why the co t is in claus	P 201 Nokia <i>Comment Status</i> D ding rules PICS items jui	mp from C6 to C9;	(bucke
Cl 171 Huber, Tor Comment T It is no same a Suggested	OSED SC m Type t clear as wha	ACCEPT. 171.8.4.3 E why the co t is in claus dy	P 201 Nokia <i>Comment Status</i> D ding rules PICS items jui	mp from C6 to C9; iem sequentially.	<i>(bucke</i> the set of items is the
Cl 171 Huber, Tor Comment T It is no same a Suggested	OSED SC m Type t clear as wha /Remec e the n	ACCEPT. 171.8.4.3 E why the co t is in claus dy numbering c	P201 Nokia <i>Comment Status</i> D ding rules PICS items jun e 118, which numbers th	mp from C6 to C9; iem sequentially.	<i>(bucke</i> the set of items is the

C/ 171 SC 171.8.4.3 Page 19 of 26 2023-05-05 6:44:55 AM

C/ 172	SC 172.1.5	P 204	L14	# 5
Nicholl, Sł	nawn	AMD		
Comment	Type TR	Comment Status D		(bucket1)
Currer "Flow	ntly, the diagram s	nal block diagram" contains a shows "Flow <n> Tx" labels ir the receive path. When/If th</n>	n the transmit pa	th and likewise shows
Suggested	Remedy			
Tx" wi Repla	th "Flow 0". Replace "Flow 1 Rx" wit	liagram. Remove the Tx/Rx ace "Flow 1 Tx" with "Flow 1' h "Flow 1". See similar com HY 800GXS" in sub-clause 1	 Replace "Flow ment against Fig 	v 0 Rx ["] with "Flow 0". gure 171-2 "Functional
Proposed	Response	Response Status W		
PROP	OSED ACCEPT			
171-2.		x" from the labels inside the	dotted boxes in	Fig 172-2 and in Fig
171-2.		x" from the labels inside the	dotted boxes in	Fig 172-2 and in Fig # 100
171-2. Impler	nent with editorial SC 172.2	Rx" from the labels inside the license.		
171-2. Impler C/ 172	nent with editorial SC 172.2 rs	Rx" from the labels inside the license.		
171-2. Impler Cl 172 Dawe, Pie Comment This tr	nent with editorial SC 172.2 rs <i>Type</i> ER tle "Physical Codi	Rx" from the labels inside the license. P205 Nvidia	L1	# 100 (bucket1) as the main clause title
171-2. Impler Cl 172 Dawe, Pie Comment This ti "Physi	nent with editorial SC 172.2 rs <i>Type</i> ER tle "Physical Codi cal Coding Subla	Rx" from the labels inside the license. P205 Nvidia Comment Status D ng Sublayer (PCS)" is as goo	L1	# 100 (bucket1) as the main clause title
171-2. Impler Cl 172 Dawe, Pie Comment This ti "Physi Suggested Chang	nent with editorial SC 172.2 rs Type ER tle "Physical Codi cal Coding Subla <i>Remedy</i> je this to "Functio	Rx" from the labels inside the license. P205 Nvidia Comment Status D ng Sublayer (PCS)" is as goo	L1 od as the same a R" which can't be	# 100 (bucket1) as the main clause title e right.

PROPOSED ACCEPT IN PRINCIPLE.

Change title of 172.2 from "Physical Coding Sublayer (PCS)" to "PCS functions". Change title of 172.2.1 to "Overview".

C/ 172	SC 172.2.1	P 205	L19	# 33
Huber, To	m	Nokia		
^				<i>" " " " " " " " " " "</i>

omment Type E Comment Status D (bucket1)

The word block is overloaded in this paragraph, which discusses 66-, 257-, and 5140-bit blocks, and also uses 'block' to refer to the processes (called functional blocks) in Figure 172-2.

SuggestedRemedy

In the second sentence, change "encode and rate matching block" to "encode and rate matching functional block" or "encode and rate matching process".

Proposed Response	Response Status	W	
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PROPOSED ACCEPT IN PRINCIPLE. Change from: "block in Figure 172–2."

10.	Tunction	snown	ıп ғıg	172-2.	

C/ 172	SC 172.2.1	P 205	L33	# 34
Huber, Tom		Nokia		
Comment Ty	vpe E	Comment Status D		(bucket1)

The sentences describing AM lock, reordering, deskewing could be written more clearly.

uggestedRemedy

Change

It attains alignment marker lock based on the common marker (CM) portion that is periodically transmitted on every PCS lane. After alignment markers are found on all PCS lanes, the individual PCS lanes are identified using the unique marker portion (UM) and then reordered, reordered and deskewed, and the align_status flag is set.. to

It attains alignment marker lock based on the common marker (CM) portion of the alignment markers that are periodically transmitted on every PCS lane and identifies individual PCS lanes using the unique marker portion (UM) or the alignment makers. The PCS lanes are then reordered and deskewed, and the align_status flag is set.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change from: "It attains alignment marker lock based on the common marker (CM) portion that is periodically transmitted on every PCS lane. After alignment markers are found on all PCS lanes, the individual PCS lanes are identified using the unique marker portion (UM) and then reordered and deskewed, and the align_status flag is set.."

To: "It attains alignment marker lock based on the common marker (CM) portion of the alignment markers that are periodically transmitted on every PCS lane and identifies individual PCS lanes using the unique marker (UM) portion of the alignment marker. The PCS lanes are then reordered and deskewed, and the align_status flag is set."

C/ 172 SC 172.2.1 Page 20 of 26 2023-05-05 6:44:55 AM

C/ 172	SC 172.2.3	P 206	L1	# 101	C/ 172	SC 172.2	4.1.1	P 206	L 44	# 103
Dawe, Pier	s	Nvidia			Dawe, Pie	rs		Nvidia		
Comment 1	ype E	Comment Status D		(bucket1)	Comment	Туре Т	Comm	ent Status D		(bucke
Same t	opic, very short	subclauses			If it's C	OK to combin	e criteria in th	e second column it	t's OK in the third	column
uggestedl	Remedy				Suggested	Remedy				
		.1, or remove this subheading	g and change the	e title of 172.2.2 to " 66-	Combi	ine rows 3 an	d 4, combine	rows 5 and 6		
		66B code" or similar.			Proposed	Response	Respor	nse Status W		
Proposed F	kesponse DSED REJECT.	Response Status W			-	OSED REJE				
The sul where consist impact	b-clauses 172.2 119.2.2 is "Use ency with Claus readability of th	2.2 and 172.2.3 are consistent of blocks" and 119.2.3 is "64E se 119 is beneficial for readers	B/66B code". In t s, while a short s	this case, maintaining subclause does not	consei (https: The ta	nsus to make //www.ieee80	the change. 2.org/3/df/cor as written. Th	d in D1.1 comment mments/D1p1/8023 ne comment does i	3df_D1p1_comm	ents_final_id.pdf).
/ 172	SC 172.2.4.1		L 29		C/ 172	SC 172.2	4.4	P 207	L 20	# 106
			L 29	# 35	Dawe, Pie	rs		Nvidia		
uber, Ton		Nokia			Comment	Туре Е	Comm	ent Status D		(bucke
omment 7		Comment Status D		PCS	Instea	d of 0 to 31, t	might be bet	ter to number the la	anes 0.0 to 0.15,	1.0 to 1.15
		lause should not have a sing between the general descript			Suggested	Remedy				
uggestedl	•	section and general accoupt			Per co	omment				
One op level 5 and rer	tion would be to heading immed number the exis	o make 172.2.4.1.1 a level-4 h iately after 172.2.4.1 with an i ting 172.2.4.1.1 to 172.2.4.1.2 d to be updated.	innocuous title li	ke 'Process description'	The cl	OSED REJE	CT. lifferentiates	nse Status W between PCS lane correct as written.		ng to flow 0 and 16-31 emedy does not
Proposed F	Response	Response Status W			improv	ve the accura	cy or clarity o	f the draft.		
		IN PRINCIPLE.			C/ 172	SC 172.2	4.4	P 207	L 27	# 105
See bi	own_3df_03_2	SUSXX			Dawe, Pie	rs		Nvidia		
					Comment	Type ER	Comm	ent Status D		(bucke
					Please	e don't make	work for your	readers		
					Suggested	Remedy				
						n informative o flows, and v			among these lane	es, what is the same fo
					Proposed	Response	Respor	nse Status W		
					172.2. called	out. There ar	learly what is two tables w		erent AM encodir	nd the exceptions are ng for the two flows. N

sufficient justification to make changes in the suggested remedy.

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C/ 172	SC 172.2.4.4	P 208	L 7	# 104	C/ 172	SC 172.2.5	.8.1	P 212	L10	# 37
Dawe, Piers	3	Nvidia			Huber, Tor	n		Nokia		
Comment Ty	ype ER Com	ment Status D		(bucket1)	Comment	уре Е	Comme	nt Status D		PCS
This tab	le is very hard to use.	The next is split over	r two pages							is however useful to
SuggestedR	Remedy						n between the	e general descrip	tion and this new	v stateless encoder.
	e headings line up with				Suggested	•				
are uniq used.	e the two tables, adjust jue, but sub-heading ro orphan rows property t	ws or another colum	n indication flow		level 5 and rei	heading imme	diately after 2 sting 172.2.5	172.2.5.8 with an .8.1 to 172.2.5.8.	innocuous title li	her would be insert a ke 'Process description' a, the cross-reference at
Proposed R		onse Status W			Proposed I			e Status W		
	SED REJECT.				•	DSED ACCEP				
				s show the flow number	See br	own_3df_03_2	305xx			
	t. Nor do the proposed			on to make a change to acv of the draft.	C/ 172	SC 172.2.6	.3	P 214	L15	# 38
C/ 172	SC 172.2.4.9	P210	L48	# 36	Huber, Tor	n		Nokia		
			L40	# 36	Comment	⁻ уре Е	Comme	nt Status D		(bucket1)
Huber, Tom		Nokia			It appe	ars that the on	ly difference	between figure 1	19-3 and figures	172-5 and 172-6 is that
Comment Ty It's more Idle cha	ype T Com e clear to say the test p racters (which the PCS	ment Status D attern is the result of will then turn into bl	f the MII being a ocks, etc.).	<i>(bucket1)</i> continuous stream of	figure 119-3 has been split into two parts because the part shown in figure 172-6 is done separately for each flow. It would be helpful if that was more clear in the bullet points that describe the exceptions.					
SuggestedR	Remedy				Suggested	Remedy				
The scra 800GMI To The scra	the last sentence of the ambled idle test pattern I is a control block with ambled idle test pattern II is a contiuous stream	is the output of the all idle characters. is the output of the	PCS when the in		Change: — The PCS synchronization process is depicted in Figure 172–5 and Figure 172–6, instead of in Figure 119–13. — The monitor for three consecutive uncorrectable FEC codewords (see Figure 172–6) is done independently within each flow. To:					
Proposed R	esponse Resp	onse Status W			— The	PCS synchror	nization proce	ess is depicted in	Figure 172–5 an	d Figure 172–6, which te that the monitor for
	SED ACCEPT IN PRIN	-			three c) is done independently
	t incorrect refers to a "c				Proposed I	Response	Respons	e Status W		
Change	ment, but should be mo	bie specifically referr				OSED REJEC	T.			
	rambled idle test patter Il is a control block with		PCS when the	input to the PCS at the	The tex technic	tt in 172.2.6.3 ally correct as	is listing the e written. The	exceptions to the suggested remed	state diagrams in ly does not add t	n 119.2.6.3. The draft is o the clarity of the draft.
	rambled idle test patter	n is the output of the	PCS when the i	nput to the PCS at the						

C/ 172 SC 172.2.6.3 Page 22 of 26 2023-05-05 6:44:55 AM

Huber, Tom Nokia Developeration Comment Type E Comment Status D Li appears Mattems C7-C3 are omitted here because in clause 119 they are used for EEEr related rules, which are not relevant to 800G - but the remaining items should have been renumbered. Dawe, Piers Nuida SuggestedRemedy Change the numbering of C9 through C11 to C7 through C9, respectively. Proposed Response Response Status W PROPOSED ACCEPT IN PINCIPLE. Implement the suggested remedy in 172.7.4.3 and 171.8.4.3 with editorial license. (bucket1) C1 173 SC 173.1 P226 L26 # 49 Comment Type E Comment Status D PROPOSED ACCEPT IN PINCIPLE. Change stops Status W PROPOSED ACCEPT. Difficult Comment Status D Change 300 Gb/s Extender Sublayer'. See 171.1. (bucket1) SuggestedRemedy Comment Status D Comment Type E Comment Status D (bucket1) The grouping the MAA. There is no consersus proposed Response Response Status W PROPOSED ACCEPT. L26 # 49 The arcs LP Science Status D D Content Status D D Content Status D D Content Status D											
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	, ,		Response Status W			IS_SIG associa Figure	NAL servi ated with (173-5) , a	ce inte either t nd the	erface primative. There is no l the input or ouput lanes in the erefore the additional of an op	S_SIGNAL set transmit direct	rvice interface primitive tion of an 8:8 PMA (see
[Editor's note: changed line from 231 to 42]						[Editor'	s note: ch	anged	line from 231 to 42]		

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175.4.2
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in slide 3
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PROPOSED ACCEPT IN PRINCIPLE.

Implement the proposed changes in the suggested remedy.

C/ 173	SC 173.4.2.3	P 233	L 7	# 83
Nicholl, Gary	/	Cisco Systems		
Comment Ty	rpe T	Comment Status D		bit muxing

The multiplexing rules in this section (along with the mutiplexing rules in 173.4.2.1 and 173.4.2.1) were updated based on comment #27 against D1.1 and supporting presentation "https://www.ieee802.org/3/df/public/23_01/0130/ran_3df_01b_230130.pdf".

As captued in slide 3 of ran_3df_01b_230130 the motivation of the proposed change was to avoid the situation "where one of two flows always gets the LSB of the PAM4 symbols"

The changes to the mutiplexing rules for PMA 32:8 (173.4.2.1) and PMA 8:32 (173.4.2.2) achieve this goal.

However the change to the mutiplexing rules for the PMA 8:8 (173.4.3) goes one step futher than the changes to the PMA 32:8 and PMA 8:32. This additional restriction is unnecessary (as the situation this step is trying to avoid can be caused by both the PMA 32:8 and PMA 8:32 anyway), and it any may make some existing 100G PAM4 retimer implementions non-compliant.

The additional step is the requirement that "the Gray mapped

PAM4 symbol sequence on the output lane is identical to the Gray mapped PAM4 symbol sequence on the input lane" This means the PAM4 output must be MSB/LSB aligned to the PAM4 input. It is not clear that this would always be the case, and is something that is not equired for the 400GbE generation of PAM4 retimer chips. It is also not fully consistent with the description of the PAM4 Encoding described in 173.4.7.1 (which essentially references the PAM4 encoding rules from Clause 120, which do not require PAM4 outputs o be MSB/LSB aligned to PAM4 inputs).

This step is not required in order to meant the intent captured in slide 3 of ran_3df_01b_230130.pdf.

If the PAM4 input is decoded to a serial bit stream, then in order to meet the intent of ran_3df_01b_230130.pdf, the only rquirement is that the bit stream be sent in the same order (no rearrangement of bits) to the PAM4 output encoder. The output encoder just has to take two bits at a time and encode into a PAM4 symbol (consistent with the description in 173.4.7.1). There is no need for the PAM4 encoder to be MSB/LSB aligned to the bit stream coming from the PAM4 receiver.

It should also be noted that this section only describes the bit level mutipexing functions of a serial bit stream (in keeping with Figure 173-5), and the PAM4 decoding and encoding rules are described in a different section (173.4.7.1).

SuggestedRemedy

Change from:

"The 4 PCSLs received on an input lane shall be mapped to an output lane such that the Gray mapped PAM4 symbol sequence on the output lane is identical to the Gray mapped PAM4 symbol sequence on the input lane, except for possible swapping of each bit pair

TYPE: TR/technical required ER/editorial required GR/gene	C/ 173	Page 24 of 26	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 173.4.2.3	2023-05-05 6:44:55 AM
SORT ORDER: Clause, Subclause, page, line			

(see 173.4.7.1)." to:	C/ 173 SC 173.4.8.3 P236 L19 # 14				
"The 4 PCSLs received on an input lane shall be mapped to an output lane such that the	Ran, Adee Cisco				
order of PCSLs is maintained from input lane to output lane, except for possible swapping of each bit pair (see 173.4.7.1)."	Comment Type T Comment Status D fault signaling				
Proposed Response Response Status W	"Otherwise the SIL reports the signal status as FAIL"				
PROPOSED ACCEPT IN PRINCIPLE. Note, the suggested remedy represents a change to what the TF had agreed to in response to commet #27 against D1.1 (https://www.ieee802.org/3/df/comments/D1p1/8023df_D1p1_comments_final_id.pdf) and captured in slide 21 of	In the case of 8:8 PMA, this FAIL status typically indicates that data is not being received on all 8 input lanes (inst:IS_UNITDATA_0:7.indication). When this happens, the data on the output lanes (PMA:IS_UNITDATA_0:7.indication) cannot be determined from the standard. Apparently it is unspecified, but it isn't stated explicitly.				
https://www.ieee802.org/3/df/public/23_01/0130/brown_3df_03b_230130.pdf. Pending TF presentation and review.	In optical modules (a common implementation of PMAs similar to this one), the typical behavior is to turn off the electrical output of the AUI-C2M; but this functionality is not				
C/ 173 SC 173.4.3.1 P233 L26 # 102	specified in the standard, and there is no specification of "output disabled" in 120G.3.2. It can be argued that this common behavior is non-compliant.				
Dawe, Piers Nvidia	With a providentian of hology in this condition, the signal status is not conveyed to the				
Comment Type T Comment Status D (bucket1)	With no specification of behavior in this condition, the signal status is not conveyed to the PMA client (host ASIC) in a specified and consistent manner. Moreover, SerDes designers				
On further investigation: this must be output not generate. If there are multiple PMAs they share this limit, as is made clear for the receive direction.	cannot assume what signal appears on the AUI when there is no input, and that is a repeating source of confusion, often leading to bad design or unnecessary over-design.				
SuggestedRemedy	We need to specify the AUI behavior when signal status is FAIL such that the PMA client				
Per comment	can detect this situation. Based on existing module behavior, it is suggested to state that a				
Proposed Response Response Status W	PMA with a physically instantiated interface disables the transmitters on all lanes of that interface when signal status is FAIL on the other interface, for some minimum time. The				
PROPOSED ACCEPT IN PRINCIPLE. In checking with similar subclauess in Clause 120 a number of different terms are used in this context, including "produce" and "deliver". "produce" is probably the better term, because the skew between lanes at the output of a PMA is a combination of skew between	PMA client can infer the status is FAL on the other interface, for some minimum time. PMA client can infer the status by detecting that its input signal corresponds to a disa transmitter. This requires adding the missing "output disabled" mode in the module of characteristics (120G.3.2).				
lanes at the input of the PMA and any additional skew that is internally generated by the PMA itself. Change from: "shall generate no more than 29 ns of Skew between PCSLs toward the 800GAUI-8" to:	A possible alternative is to allow the PMA to transmit the PRBS31Q test pattern (120.5.11.2.2), if implemented, instead of disabling the transmitter. The PMA client can then infer the link status by detecting that its input corresponds to a PRBS31Q test pattern. This would not require adding "output disabled" mode, but it is likely not the existing behavior, and would be more disruptive.				
"shall produce no more than 29 ns of Skew between PCSLs toward the 800GAUI-8" This change makes the wording consistent with 120.5.3.1.	Note that this isn't just an 802.3df problem (ambiguity of the module output is a long- standing issue), but since we are defining a new PMA it is a good opportunity to close this gap.				
	SuggestedRemedy				
	Add the following paragraph at the end of 173.4.8.3:				
	"When the signal status is FAIL, an 8:8 PMA shall disable the output on all lanes of its				

all disable the output on all lanes of its physically instantiated service interface for a minimum time of 50 ms."

Add 120G.3.2 to the draft. Change the first sentence from "The module output shall meet the specifications given in Table 120G-3" to

"When the module output is enabled, it shall meet the specifications given in Table

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

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COMMENT STATUS: D/dis	patched A/accepted R/	/rejected RESI	PONSE STATUS: O/open	W/written C/closed	U/unsatisfied	Z/withdrawn	
SORT ORDER: Clause, Su	bclause, page, line						

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	•	ble 120G-3 to "Module output	characteristics in	enabled state at TP4"
	Response	Response Status W		
The s 120 a		ly is not backwards compatible and therefore may make existi		
C/ 173	SC 173.4.11	P236	L 31	# 69
D'Ambros	ia, John	Futurewei, US	S Subsidiary of H	uawei
Comment	Type ER	Comment Status D		wordin
		described elsewhere as an ele sical instantiation" - use consis		in 163.1, but the
Suggestee	dRemedy			
Chang	ge description of	f 800GAUI elsewhere from ele	ctrical interface to	o physical instantiation
Proposed	Response	Response Status W		
Claus The co interfa 121, 1	ommenter is con ice" and "physic 22, 123,124, et ver which of the n situation appe	"physical instantiation" when a rrect in that some clauses (eg al instantiation" when referring c) only use "electrical interface two terms is used ("physical aars to be based on the conext ble based on the specific conte	. 116 and 118) us to the AUI, and " when referring instantiation" or "	se both "electrical some clauses (e.g. to the AUI. electrical interface") in
a give	ale and resonab	le based on the specific conte	xt.	
a give	SC 173.6.5	P241	L 15	# 40
a give accura	SC 173.6.5	·		# 40
a give accura C/ 173 Huber, To Comment	SC 173.6.5 m <i>Type</i> E	P 241	L15	(bucket
a give accura Cl 173 Huber, To Comment The si Suggested	SC 173.6.5 m <i>Type</i> E tatus column sh dRemedy	P 241 Nokia Comment Status D	L15	(bucket

Implement the suggested remedy with editorial license.

C/ 173A SC	173A	P 276	L 28	# 46
Brown, Matt		Huawei		
Comment Type	Е	Comment Status D		(bucket1)

No such thing as "800 Gb/s Extender Sublayer". See 171.1.

SuggestedRemedy

Change "800 Gb/s EXTENDER SUBLAYER" to "800GMII EXTENDER SUBLAYER" Also in Figure 173-4, page 277, line 31.

Proposed Response Response Status W

PROPOSED ACCEPT.

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