				_					-				
CI 00	SC	0		Р	L	# 11		C/ 00	SC	0	P 338	L 30	# 302
Brown, Ma				Alphawave S	Semi			Ran, Adee			Cisco		
Comment		Е	Comment S				(bucket)	Comment T		т	Comment Status R		(withdrawn)
(176.7	7.4.1), a te/refor	and Inne mat the	defining the variou r FEC (177.5.4.1, counter definition	184.5.7) var	y wildly from cla		PMA	all othe "is limit	er mea ted to"	suremen reads lik	/ariation at SP2 are specified v t points it is specified with "sha e an informative statement, bu SP2 may not be accessible; th	all be less than it it is a norma	". ive requirement (it is not
••		•	definitions in 175	5253 1765	7 1 1 177 5 1 1	and 184 5 7 to	he the	T 1.1.			te secultin le selecce de due due fu		data wata) Nista di at di a
same	format		her 175.2.5.3 ro 1				be the	same v	vordin	g is used	in multiple places in the draft (in multiple clauses of the base		
Response			Response St	tatus C						enance.			
		PRINCI		0744477	5 4 4 and 40 4			Suggested					
forma	t as 17	5.2.5.3.	definitions in 17	6.7.4.1, 177.	5.4.1, and 184.	5.7 to use the s	ame	Change SP2.	e "is lir	mited to"	to "shall be less than" in all ins	stances of Ske	w and Skew variation at
			orial license. 176, 177, 184]					Response			Response Status Z		
			,	B				REJEC	CT.				
CI 00	SC	0		P 261	L 47	# 273		This or	mmor		THDRAWN by the commente	-	
Ran, Adee	е			Cisco					mmer	it was vv	IT HDRAWN by the commente	1.	
the va This s Acces otherv	riables entenc ss to the vise it i	is recor e is repe e manag s only re	e is not implemen nmended." eated in multiple c gement variables i commended to ha access to the ma	lauses and a s required (" ave them acc	annexes (14 ins shall") if MDIO i cessible.	tances). s implemented,	but						
		emented		nagement va	anables should	be a requirement	it even ii						
Suggested		,											
Chang instan		vision of	is recommend	ed" to "shall	be provided", w	ith editorial licer	nse, in all						
Response	,		Response St	atus C									
In 175 187.1 Chang to acc To: "If manag	5.8, 176 1, and ge "If th ess the the MI gemen	178B.15 ne MDIO e variable DIO Inte t variable	⁷ .10, 178.13, 179.	nplemented, ed." mented, an a	provision of an	equivalent med	·						

C/ 00 SC 0

C/ 1	SC 1.4.92a	P 53	L10	# 269	C/ 45	SC	45.2.1		P 70	L 7	# 271
Ran, Adee	9	Cisco			Ran, Adee	е			Cisco		
Comment	Туре Е	Comment Status R		(withdrawn)	Comment	Туре	ER	Commen	t Status A		(bucket)
interfa duplici	ces" followed by ity is not helpful.		es and for chip-to	o-chip interfaces". This	addre: This te	sses are ext poin	e allocated ts to 83.1.	d. .4, 109.1.4, a	and 120.1.4, but		ers and how MMD the corresponding and 176.11.
	ring the new des ion can be impro	criptions introduced in the ner oved.	w AUI annexes,	the clarity of this	Suggestee	dRemed	dy				
					Bring	in the fi	rst paragra	aph of 45.1.2	2 and add refere	nces to 173.1.4 a	and 176.11.
		in the definitions of 200GAUI	l-n, 400GAUI-n, a	and 800GAUI-n.	Response)		Response	Status C		
"A phy	e the definition	on of the PMA service			Bring		PRINCIPL rst paragra		I from the base	standard and add	d references to 173.1.4
across	ce over n lanes, s multiple device	enabling partitioning of a 1.6 s. Specified separately for ch	ip-to-chip and ch	ayer implementation hip-to-module electrical	C/ 45	SC	45.2.1.21	3a	P 92	L13	# 6
interfa	ces. Two				Marris, Ar	rthur			Cadence De	sign Systems	
eight-la		re defined: 16-lane (1.6TAUI-	16 C2C and 1.61	TAUI-16 CZIVI), and	Comment	Туре	т	Commen	t Status A		(bucket)
(1.6TA	UI-8 C2C and 1	.6TAUI-8 C2M)."						oits with a sin	gle reset bit in T	able 45–177a	
,	corresponding c	.6TAUI-8 C2M)." hanges in the definitions of 20 <i>Response Status</i> Z	00GAUI-n, 400G	GAUI-n, and 800GAUI-n.	Suggestee In Tab	dRemed ole 45–1	dy I 77a deleti	e rows "Inne	-		EC enable lane 7" and
Apply	corresponding c	hanges in the definitions of 2	00GAUI-n, 400G	GAUI-n, and 800GAUI-n.	Suggested In Tab in the	dRemed ble 45–1 row for	dy I 77a deleti	e rows "Inne " change "er	r FEC enable la nable" to "reset"		EC enable lane 7" and
Apply Response REJEC	corresponding c CT. omment was Wi	hanges in the definitions of 20 <i>Response Status</i> Z	er.	·	Suggested In Tab in the Response ACCE	dRemed ble 45–1 row for PT IN F	dy 177a deleta "1.2400.0 PRINCIPL	e rows "Inne " change "er <i>Response</i>	r FEC enable la nable" to "reset" e Status C		EC enable lane 7" and
Apply Response REJEC This co Cl 45	corresponding c CT. omment was Wi SC 45.2.1	thanges in the definitions of 20 <i>Response Status</i> Z ITHDRAWN by the commenter P70		GAUI-n, and 800GAUI-n. # 272	Suggested In Tab in the Response ACCE	dRemed ole 45–1 row for P EPT IN F	dy 177a deleta "1.2400.0 PRINCIPL	e rows "Inne " change "er <i>Response</i> E. onse to com	r FEC enable la nable" to "reset" e Status C		EC enable lane 7" and
Apply of Response REJEC This co Cl 45 Ran, Adee	corresponding c CT. omment was Wi SC 45.2.1	thanges in the definitions of 20 Response Status Z THDRAWN by the commente P 70 Cisco	er.	# 272	Suggestee In Tab in the Response ACCE Resol CI 45	dRemed ole 45–1 row for P EPT IN F ve using SC	dy 177a delet "1.2400.0 PRINCIPL g the respo	e rows "Inne " change "er <i>Response</i> E. onse to com	r FEC enable la nable" to "reset" e <i>Status</i> C ment #1.	ne 1" to "Inner Fl	
Apply Response REJEC This co Cl 45 Ran, Adee Comment	corresponding c CT. omment was WI SC 45.2.1 e <i>Type</i> T	thanges in the definitions of 24 Response Status Z THDRAWN by the commente P 70 Cisco Comment Status R	er. L 7	# 272 (bucket)	Suggestee In Tab in the Response ACCE Resol	dRemed ole 45–1 row for EPT IN F ve using SC hawn	dy 177a delet "1.2400.0 PRINCIPL g the respo	e rows "Inne " change "er <i>Response</i> E. onse to com 3a	r FEC enable la nable" to "reset" e <i>Status</i> C ment #1. P 92	ne 1" to "Inner Fl	
Apply of Response REJEC This co Cl 45 Ran, Adee Comment Inner F inner F	corresponding c CT. omment was Wi SC 45.2.1 S <i>Type</i> T FEC registers ar FEC positioning	thanges in the definitions of 20 Response Status Z THDRAWN by the commente P 70 Cisco	er. L7 section but there	# 272 (bucket) e is no reference to the	Suggestee In Tab in the Response ACCE Resolv CI 45 Nicholl, SI Comment Descr	dRemed ble 45–1 row for EPT IN F lve using SC hawn : Type ription co	dy 177a deleta "1.2400.0 PRINCIPL g the respo 45.2.1.21: TR olumn of fi	e rows "Inne " change "er <i>Response</i> E. onse to com 3a <i>Commen</i> iields in "Tab	r FEC enable la hable" to "reset" e <i>Status</i> C ment #1. P92 AMD t <i>Status</i> A le 45-177a - Inn	ne 1" to "Inner Fl	# 91
Apply Response REJEC This co Cl 45 Ran, Adee Comment Inner F Suggesteo	corresponding c CT. omment was Wi SC 45.2.1 o Type T FEC registers ar FEC registers ar FEC positioning IRemedy	thanges in the definitions of 20 Response Status Z THDRAWN by the commente P70 Cisco Comment Status R re contained in the PMA/PMD in the stack, nor to the clause	er. L7 section but there s where it is defi	# 272 (bucket) e is no reference to the ined (177 and 184).	Suggestee In Tak in the Response ACCE Resol C/ 45 Nicholl, SI Comment Descr incons	dRemec ble 45–1 row for EPT IN F ve using SC hawn Type ription c sistent v	dy 177a deleti "1.2400.0 PRINCIPL g the resp 45.2.1.21: TR olumn of fi vith other 1	e rows "Inne " change "er <i>Response</i> E. onse to com 3a <i>Commen</i>	r FEC enable la hable" to "reset" e <i>Status</i> C ment #1. P92 AMD t <i>Status</i> A le 45-177a - Inn	ne 1" to "Inner Fl	# 91(bucket)
Apply Response REJEC This co Cl 45 Ran, Adee Comment Inner F inner F Suggestea Add te	corresponding c CT. omment was Wi SC 45.2.1 C Type T FEC registers ar FEC positioning <i>Remedy</i> est describing the	thanges in the definitions of 20 Response Status Z THDRAWN by the commente P70 Cisco Comment Status R re contained in the PMA/PMD	er. L7 section but there s where it is defi	# 272 (bucket) e is no reference to the ined (177 and 184).	Suggestee In Tab in the Response ACCE Resol Cl 45 Nicholl, Sl Comment Descr incons Suggestee	dRemec ble 45–1 row for EPT IN F Ve using SC hawn Type ription co sistent v dRemec	dy 177a delet: "1.2400.0 PRINCIPL g the respo 45.2.1.21: TR olumn of fi with other 1	te rows "Inne " change "er <i>Response</i> E. onse to com 3a <i>Commen</i> fields in "Tab MDIO registe	r FEC enable la nable" to "reset" e Status C ment #1. P92 AMD t Status A le 45-177a - Inn ers.	ne 1" to "Inner Fl	# 91 <i>(bucket)</i> egister bit definitions" is
Apply Apply Response REJEC This co Cl 45 Ran, Adee Comment Inner F inner F Suggestea Add te Response	corresponding c CT. omment was Wi SC 45.2.1 Type T FEC registers ar FEC positioning <i>Remedy</i> est describing the	thanges in the definitions of 20 Response Status Z THDRAWN by the commente P70 Cisco Comment Status R re contained in the PMA/PMD in the stack, nor to the clause	er. L7 section but there s where it is defi	# 272 (bucket) e is no reference to the ined (177 and 184).	Suggestee In Tak in the Response ACCE Resol Cl 45 Nicholl, Sl Comment Descr incons Suggestee Propo	dRemec ble 45–1 row for EPT IN F ve using SC hawn <i>Type</i> ription co sistent v dRemec bse the f	dy 177a delet: "1.2400.0 PRINCIPL g the respo 45.2.1.21: TR olumn of fi with other 1	te rows "Inne " change "er <i>Response</i> E. onse to com 3a <i>Commen</i> Tields in "Tab MDIO registe ext for the de	r FEC enable la nable" to "reset" e Status C ment #1. P92 AMD t Status A le 45-177a - Inn ers.	ne 1" to "Inner Fl	# 91 <i>(bucket)</i> egister bit definitions" is
Apply Apply Response REJEC This co Cl 45 Ran, Adee Comment Inner F Suggestea Add te Response REJEC	corresponding c CT. omment was Wi SC 45.2.1 CType T FEC registers ar FEC registers ar FEC positioning <i>IRemedy</i> est describing the	thanges in the definitions of 24 Response Status Z THDRAWN by the commente P70 Cisco Comment Status R te contained in the PMA/PMD in the stack, nor to the clause te inner FEC MDIO positioning Response Status C	er. L7 section but there s where it is defined g (in the same Mi	# 272 (bucket) e is no reference to the ined (177 and 184). MD as the PMD).	Suggestee In Tak in the Response ACCE Resol Cl 45 Nicholl, Sl Comment Descr incons Suggestee Propo 1 = Er	dRemec ble 45–1 row for EPT IN F ve using SC hawn <i>Type</i> ription co sistent v dRemec base the f nable In	dy 177a delet "1.2400.0 PRINCIPL g the resp 45.2.1.21 TR olumn of fi with other 1 dy following te	te rows "Inne " change "er <i>Response</i> E. onse to com 3a <i>Commen</i> Tields in "Tab MDIO registe ext for the de on lane 7	r FEC enable la nable" to "reset" e Status C ment #1. P92 AMD t Status A le 45-177a - Inn ers.	ne 1" to "Inner Fl	# 91 <i>(bucket)</i> egister bit definitions" is
Apply Apply Response REJEC This co Cl 45 Ran, Adee Comment Inner F Suggestea Add te Response REJEC There	corresponding c CT. omment was WI SC 45.2.1 SC 45.2.1 Type T FEC registers ar FEC positioning IRemedy est describing the CT. is precedence for	thanges in the definitions of 24 Response Status Z THDRAWN by the commente P70 Cisco Comment Status R re contained in the PMA/PMD in the stack, nor to the clause e inner FEC MDIO positioning	er. L7 section but there as where it is defined g (in the same Mile atus registers in t	# 272 (bucket) e is no reference to the ined (177 and 184). MD as the PMD). the PMA/PMD address	Suggestee In Tab in the Response ACCE Resolv CI 45 Nicholl, SI Comment Descr incons Suggestee Propo 1 = Er 0 = Di	dRemec ble 45–1 row for EPT IN F ve using SC hawn <i>Type</i> ription cosistent v dRemec base the f nable In isable Ir	dy 177a delete "1.2400.0 PRINCIPL g the response 45.2.1.21: TR olumn of fin vith other 1 dy following te ner FEC conner f	e rows "Inne " change "er <i>Response</i> E. onse to com 3a <i>Commen</i> fields in "Tab MDIO registe ext for the de on lane 7 on lane 7	r FEC enable la hable" to "reset" e Status C ment #1. P92 AMD t Status A le 45-177a - Inn ers.	ne 1" to "Inner Fl	# 91 (bucket) egister bit definitions" is

ACCEPT IN PRINCIPLE.

Resolve using the response to comment #1.

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

Cl	45
SC	45.2.1.213a

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CI 73 SC 73.6	6.2.5.3	P122	L 46	# 92	C/ 73	SC 73.10.2	P130	L14	# 546
Nicholl, Shawn		MD			Dawe, Piers		Nvidia		" 040
Comment Type T				(bucket)	Comment Typ	be E	Comment Status R		(bucket
The paragraph th	at begins "The variable		nt_negotiated_c	control indicates that	This is co	ontrary to the s	standard order (slow to fast).		
	located in the incorrec				SuggestedRe	medv			
SuggestedRemedy					00	2	ediately below the 100G/lane	one. As the bas	se document is out of
	the paragraph such that stent with editorial guidates").				order and	l this project a	imendment cannot deliver a p o link_fail_inhibit_timer rows	properly ordered	table without cleaning
Response	Response Stat	tus C			Response		Response Status C		
ACCEPT.					REJECT.				
CI 73 SC 73.6	6.4	P 125	L 25	# 93			Iressed at the revision projectors not relevant to 802.3dj so		
Nicholl, Shawn	AI	MD			CI 73A	SC 73A.1a	P 640	L 40	# 97
Comment Type E	Comment Sta	tus A		(bucket)	Nicholl, Shaw	'n	AMD		
	0[10:0] and D[47:16] cor	ntains the Un	formatted Code	Field", but should	Comment Typ		Comment Status A		(buckei
use the singular v SuggestedRemedy	verd.				Currently	says " indic	ates additional abilities that v		
					codeword	i Dasc i age .	" Present tense seems mor	e appropriate.	
Propose "D[10:0]	and D[47:16] contain the	he Unformatt	ed Code Field"		SuggestedRe	Ŭ	Present tense seems mor	e appropriate.	
Propose "D[10:0] Response ACCEPT.	and D[47:16] contain t <i>Response Stat</i>		ed Code Field"		SuggestedRe	medy ' indicates a	additional abilities that are not		I in the link codeword
Response ACCEPT.	Response Stat	tus C		# 04	SuggestedRe Propose "	medy ' indicates a			I in the link codeword
Response ACCEPT. Cl 73 SC 73. 8	Response Stat	tus C P 128	L21	# 94	SuggestedRe Propose ' Base Pag	medy ' indicates a ge"	additional abilities that are not		I in the link codeword
Response ACCEPT. Cl 73 SC 73.8 Nicholl, Shawn	Response Stat	tus C P 128 MD			SuggestedRe Propose ' Base Pag Response ACCEPT.	medy ' indicates a je"	additional abilities that are not Response Status C	accommodated	
Response ACCEPT. Cl 73 SC 73.8 Nicholl, Shawn Comment Type El	Response Stat B R Comment Sta	tus C P128 MD tus A	L 21	(bucket)	SuggestedRe Propose ' Base Pag Response ACCEPT.	medy ' indicates a ge"	additional abilities that are not Response Status C P138		t in the link codeword # 114
Response ACCEPT. Cl 73 SC 73.8 Nicholl, Shawn Comment Type El Typo mr_lp_adv_	Response Stat	tus C P128 MD tus A	L 21	(bucket)	SuggestedRe Propose " Base Pag Response ACCEPT. C/ 116 Slavick, Jeff	medy ' indicates a je" SC 116.1.4	additional abilities that are not Response Status C P138 Broadcom	accommodated	# [114
Response ACCEPT. Cl 73 SC 73.8 Nicholl, Shawn Comment Type El Typo mr_lp_adv_ variable to MDIO	Response Stat Response Stat R Al R Comment Sta extened_ability[32:1] in	tus C P128 MD tus A	L 21	(bucket)	SuggestedRe Propose " Base Pag Response ACCEPT. Cl 116 Slavick, Jeff Comment Typ	medy indicates a je" SC 116.1.4 pe E	additional abilities that are not Response Status C P138 Broadcom Comment Status A	Laccommodated	# [114
Response ACCEPT. Cl 73 SC 73.8 Nicholl, Shawn Comment Type El Typo mr_lp_adv_ variable to MDIO SuggestedRemedy	Response Stat Response Stat R Al R Comment Sta extened_ability[32:1] in	tus C P 128 MD tus A o "Table 73-6-	L 21	(bucket)	SuggestedRe Propose " Base Pag Response ACCEPT. Cl 116 Slavick, Jeff Comment Typ Table 116	ymedy ' indicates a je" SC 116.1.4 De E S-3b has a thio	additional abilities that are not Response Status C P138 Broadcom	Laccommodated	# [114
Response ACCEPT. Cl 73 SC 73.8 Nicholl, Shawn Comment Type El Typo mr_lp_adv_ variable to MDIO SuggestedRemedy Propose mr_lp_a	Response Stat B R Comment Sta extened_ability[32:1] in register mapping"	tus C P 128 MD tus A 1 "Table 73-6 ::1]	L 21	(bucket)	SuggestedRe Propose " Base Pag Response ACCEPT. Cl 116 Slavick, Jeff Comment Typ Table 116 SuggestedRe	medy ' indicates a le" SC 116.1.4 SC 116.1.4 De E S-3b has a thic medy	additional abilities that are not Response Status C P138 Broadcom Comment Status A ck bar on the right side of clar	Laccommodated	# 114
Response ACCEPT. Cl 73 SC 73.8 Nicholl, Shawn Comment Type El Typo mr_lp_adv_ variable to MDIO SuggestedRemedy	Response Stat Response Stat R Comment Sta extened_ability[32:1] in register mapping"	tus C P 128 MD tus A 1 "Table 73-6 ::1]	L 21	(bucket)	SuggestedRe Propose " Base Pag Response ACCEPT. Cl 116 Slavick, Jeff Comment Typ Table 116 SuggestedRe	ymedy ' indicates a je" SC 116.1.4 De E S-3b has a thio	additional abilities that are not Response Status C P138 Broadcom Comment Status A ck bar on the right side of clar	Laccommodated	

C/ 116 SC 116.1.4

C/ 116	SC 116.3.3.4.1	P150	L12	# 152	C/ 119	SC 119.3	P 162	L 33	# 14
Bruckman, L	_eon	Nvidia			Brown, Mat	t	Alphawav	re Semi	
Comment Ty	/pe E	Comment Status A		(bucket)	Comment T	<i>уре</i> т	Comment Status A		(bucket)
Missing of	comma						e provided for 800GBASE-F		
	-	des tool in the second second				ASE-R or 400 ceive path pe	GBASE-R PCS. These cou r 174A.7.	inters are needed fo	or accurate testing of a
	e consistent with before: but it is c	the text in the previous sect considered	ion penumtimati	e paragph, add a	SuggestedF	Remedy			
Or delete grammat		e previous section penumtim	tate paragph, wa	athever makes sense	that the	se counters a	n counters FEC_codeword_ re optional if the PCS is us		
Response		Response Status C			lane PN	/ID.	_		
	T IN PRINCIPLE				Response		Response Status C		
On page	e 149 line 27 dele	ete comma preceding " but it	t is considered".			T IN PRINCI	PLE. Inters FEC codeword erro	r hin i as defined i	n 172 3.6. also add
C/ 116	SC 116.4	P 150	L 52	# 24			defined in 172.3.5. Since th		
Brown, Matt		Alphawave Se	emi				no need to restrict the optio	onality to " PHYs that	at includes 200 Gb/s per
Comment Ty		Comment Status A		(bucket)	lane PN Implem	ent with edito	rial license.		
Delay lim in 177.7.		BASE-R Inner FEC are TBD) in Table 116-6	but are indeed defined	C/ 120F	SC 120F.1	P645	L 53	# 428
SuggestedRe	emedv				Dudek, Mik	е	Marvell		
	•	the delay numbers specified	d in 177.7.		Comment T	ype E	Comment Status A		(bucket)
Response		Response Status C			The refe	erence to 120	F.4 should be a hot link as	this is changed in 8	02.3dj
ACCEPT	т	Response Status			SuggestedF	Remedv			
					Make it	-			
C/ 116	SC 116.4	P151	L 49	# 25	Response		Response Status C		
Brown, Matt		Alphawave Se	mi		ACCEP	νT.			
Comment Ty	/pe E	Comment Status A		(bucket)					
,		BASE-R Inner FEC are TBE) in Table 116-7	but are indeed defined	C/ 120F	SC 120F.1	P 646	L 9	# 429
in 177.7.					Dudek, Mik	е	Marvell		
SuggestedRe	•				Comment T	ype ER	Comment Status R		(withdrawn)
Update T	Table 116-7 with	the delay numbers specified	d in 177.7.			erence to 135	F.3.2.1 is not correct. That	t subsection is abo	ut Receiver Signalling
		Response Status C			rate.				
Response	Т.				SuggestedF	-	_		
Response ACCEPT					Change	e the reference	e to 135F.5		
•					Response		Response Status Z		
					Response				
•					REJEC	т.			
					REJEC		/ITHDRAWN by the comm	enter.	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 120F	Page 4 of 48
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 120F.1	1/21/2025 9:54:03 AM
SORT ORDER: Clause, Subclause, page, line		

C/ 169 SC 16	9.2.4	P 172	L 50	# 42	C/ 169	SC 169.4	P 178	L 23	# 154
Huber, Thomas		Nokia			Bruckman, I	eon	Nvidia		
Comment Type	r c	comment Status A		(bucket)	Comment Ty	pe TR	Comment Status A		(bucke
This clause sho	uld include a	a reference to the 800GE	BASE-ER1 PMA				ASE-R Inner FEC and 8000	GBASE-LR1 are d	lefined in the respective
SuggestedRemedy						ed sections.			
Add a sentence:	The 800GE	BASE-ER1 PMA is speci	ified in clause 18	86.3	SuggestedR	,			
Response	Re	esponse Status C				the reference	169-4 for 800GBASE-R Inr ed sections	er FEC and 800G	BASE-LR1 with the
ACCEPT IN PR		medy with editorial licer	ise.		Response	IN PRINCIP	Response Status C		
C/ 169 SC 16	9.4	P 178	L 22	# 43		-	ponse to comment #44.		
Huber, Thomas		Nokia			C/ 171	SC 171.7	P 200	L 41	# 418
Comment Type	r c	comment Status A		(bucket)	Nicholl, Gar	,	Cisco Syst	ems	
Table 160-1 is n	viccina rowa	for the 800GBASE-ER					Comment Status A		
Table 109-4 13 11	iissing iows	IOI THE SOUGBAGE-ER	PCS and PMA		Comment Ty	pe TR			(bucke
SuggestedRemedy Add a row for the architecture, add	e PMA. Dep	ending on the dispositio	n of other comm	ients about ER1 s for both in clause 186	Annex 1 SuggestedR	, 76B does not e <i>medy</i>	show any MMD numbering		(bucke
SuggestedRemedy Add a row for th architecture, add are still TBD. Response ACCEPT IN PR	e PMA. Dep d a row for t <i>Re</i> NCIPLE.	ending on the dispositio	on of other comm FEC. The value		Annex 1 SuggestedR Change "Annex numberi to: "Annex	76B does not emedy the second se 73A and Ann ng" 73A shows a	show any MMD numbering entence from: ex 176B show additional ex dditional examples of 800G	amples of 800GX XS partitioning ar	S partitioning and MMD
SuggestedRemedy Add a row for th architecture, add are still TBD. Response ACCEPT IN PR Implement the s	e PMA. Dep d a row for t <i>Re</i> NCIPLE. uggested re	ending on the disposition he ER1 PCS or the ER1 esponse Status C	on of other comm FEC. The value		Annex 1 SuggestedR Change "Annex numberi to: "Annex using th	76B does not emedy the second se 73A and Ann ng" 73A shows a	show any MMD numbering entence from: ex 176B show additional ex dditional examples of 800G 76B.6.2 shows additional ex	amples of 800GX XS partitioning ar	d MMD numbering
SuggestedRemedy Add a row for th architecture, add are still TBD. Response ACCEPT IN PRI Implement the s Cl 169 SC 16	e PMA. Dep d a row for t <i>Re</i> NCIPLE. uggested re	ending on the disposition he ER1 PCS or the ER1 esponse Status C emedy with editorial licer	n of other comm FEC. The value ise.	s for both in clause 186	Annex 1 SuggestedR Change "Annex numberi to: "Annex using th BM PMA	76B does not emedy the second se 73A and Ann ng" 73A shows a e BM PMA. 17 and SM PM/	s show any MMD numbering entence from: ex 176B show additional ex dditional examples of 800G 76B.6.2 shows additional ex	amples of 800GX XS partitioning ar amples of 800GX	S partitioning and MMD
SuggestedRemedy Add a row for th architecture, add are still TBD. Response ACCEPT IN PR Implement the s C/ 169 SC 16 Huber, Thomas Comment Type	e PMA. Dep d a row for t <i>Re</i> NCIPLE. uggested re 9.4	eending on the disposition he ER1 PCS or the ER1 esponse Status C emedy with editorial licer P178 Nokia comment Status A	n of other comm FEC. The value ise. L23	s for both in clause 186 # 44 (bucket)	Annex 1 SuggestedR Change "Annex numberi to: "Annex using th BM PM/ Change	76B does not emedy the second se 73A and Ann og" 73A shows a 9 BM PMA. 17 and SM PM/ the second se	show any MMD numbering entence from: ex 176B show additional ex dditional examples of 800G 76B.6.2 shows additional ex	amples of 800GX XS partitioning ar amples of 800GX pah from:	S partitioning and MMD Id MMD numbering S paritioning using both
SuggestedRemedy Add a row for th architecture, add are still TBD. Response ACCEPT IN PR Implement the s CI 169 SC 16 Huber, Thomas Comment Type T Clause 176 has	e PMA. Dep d a row for t Re NCIPLE. uggested re 9.4	eending on the disposition he ER1 PCS or the ER1 esponse Status C emedy with editorial licer P178 Nokia	n of other comm FEC. The value ise. <i>L</i> 23	s for both in clause 186 # 44 <i>(bucket)</i> se 177 has values for	Annex 1 SuggestedR Change "Annex numberi to: "Annex using th BM PM/ Change "Annex to:	76B does not emedy the second se 73A and Ann ng" 73A shows a 9 BM PMA. 17 and SM PM/ the second se 76B shows a	show any MMD numbering entence from: ex 176B show additional ex dditional examples of 800G '6B.6.2 shows additional ex a".	amples of 800GX XS partitioning ar amples of 800GX pah from: S partitioning and	S partitioning and MMD Id MMD numbering S paritioning using both
SuggestedRemedy Add a row for th architecture, add are still TBD. Response ACCEPT IN PR Implement the s C/ 169 SC 16 Huber, Thomas Comment Type T Clause 176 has 800GBASE-R in	e PMA. Dep d a row for t Re NCIPLE. uggested re 9.4	eending on the disposition he ER1 PCS or the ER1 esponse Status C emedy with editorial licer P178 Nokia comment Status A raints for 800G 32:4 and	n of other comm FEC. The value ise. <i>L</i> 23	s for both in clause 186 # 44 <i>(bucket)</i> se 177 has values for	Annex 1 SuggestedR Change "Annex numberi to: "Annex using th BM PM/ Change "Annex to: "176B.7	76B does not emedy the second se 73A and Ann ng" 73A shows a 9 BM PMA. 17 and SM PM/ the second se 76B shows a	s show any MMD numbering entence from: ex 176B show additional ex dditional examples of 800G 76B.6.2 shows additional ex A". entnce of the second parage dditional examples of 1.6TXS p	amples of 800GX XS partitioning ar amples of 800GX pah from: S partitioning and	S partitioning and MMD Id MMD numbering S paritioning using both
SuggestedRemedy Add a row for th architecture, add are still TBD. Response ACCEPT IN PR Implement the s CI 169 SC 16 Huber, Thomas Comment Type Clause 176 has 800GBASE-R in SuggestedRemedy	e PMA. Dep d a row for t <i>Re</i> NCIPLE. uggested re 9.4 T C delay const ner FEC, ar	eending on the disposition he ER1 PCS or the ER1 esponse Status C emedy with editorial licer P178 Nokia comment Status A raints for 800G 32:4 and nd clause 184 has value appropriate values from	n of other comm FEC. The value nse. L23 4 4:4 PMAs, clau s for the LR1 inn	# 44 (bucket) se 177 has values for her FEC	Annex 1 SuggestedR Change "Annex numberi to: "Annex using th BM PM/ Change "Annex to: "176B.7 Change	76B does not emedy the second se 73A and Ann ng" 73A shows a BM PMA. 17 and SM PM/ the second se 76B shows a 2 shows addi the title of 17	s show any MMD numbering entence from: ex 176B show additional ex dditional examples of 800G 76B.6.2 shows additional ex A". entnce of the second parage dditional examples of 1.6TXS p	amples of 800GX XS partitioning ar amples of 800GX pah from: S partitioning and	S partitioning and MMD Id MMD numbering S paritioning using both
SuggestedRemedy Add a row for th architecture, add are still TBD. Response ACCEPT IN PRI Implement the s Cl 169 SC 16 Huber, Thomas Comment Type Clause 176 has 800GBASE-R in SuggestedRemedy Replace the TBI clause 184.7 for	e PMA. Dep d a row for t Re INCIPLE. uggested re 9.4 T C delay const ner FEC, ar Ds wiith the the LR1 inr	eending on the disposition he ER1 PCS or the ER1 esponse Status C emedy with editorial licer P178 Nokia comment Status A raints for 800G 32:4 and nd clause 184 has value appropriate values from	n of other comm FEC. The value nse. L23 4 4:4 PMAs, clau s for the LR1 inn	# 44 (bucket) se 177 has values for her FEC	Annex 1 SuggestedR Change "Annex numberi to: "Annex using th BM PM/ Change "Annex to: "176B.7 Change "800GX to:	76B does not emedy the second se 73A and Ann ng" 73A shows a BM PMA. 17 and SM PM/ the second se 76B shows a 2 shows addi the title of 17 ⁻ 6 and 1.6TXS	show any MMD numbering entence from: ex 176B show additional ex dditional examples of 800G 6B.6.2 shows additional ex A". entnce of the second parage dditional examples of 1.6TXS p 1.7 from:	amples of 800GX XS partitioning ar amples of 800GX pah from: S partitioning and	S partitioning and MMD Id MMD numbering S paritioning using both
SuggestedRemedy Add a row for th architecture, add are still TBD. Response ACCEPT IN PRI Implement the s CI 169 SC 16 Huber, Thomas Comment Type Clause 176 has 800GBASE-R in SuggestedRemedy Replace the TBI clause 184.7 for Response ACCEPT IN PRI	e PMA. Dep d a row for t INCIPLE. uggested re 9.4 f C delay const ner FEC, ar Ds wiith the the LR1 inr <i>Re</i> INCIPLE.	eending on the disposition he ER1 PCS or the ER1 esponse Status C emedy with editorial licer P178 Nokia comment Status A raints for 800G 32:4 and hd clause 184 has value appropriate values from her FEC. esponse Status C	n of other comm FEC. The value ise. <i>L</i> 23 d 4:4 PMAs, clau s for the LR1 inn Table 176-7, Ta	# 44 (bucket) se 177 has values for her FEC	Annex 1 SuggestedR Change "Annex numberi to: "Annex using th BM PM/ Change "Annex to: "176B.7 Change "800GX: to:	76B does not emedy the second se 73A and Ann og" 73A shows a BM PMA. 17 and SM PM/ the second se 76B shows a 2 shows addi the title of 17 ⁻¹ and 1.6TXS and 1.6TXS	show any MMD numbering entence from: ex 176B show additional ex dditional examples of 800G 6B.6.2 shows additional ex A". entnce of the second parage dditional examples of 1.6TXS p 1.7 from: partitioning example"	amples of 800GX XS partitioning an amples of 800GX pah from: S partitioning and partitioning"	S partitioning and MMD Id MMD numbering S paritioning using both
SuggestedRemedy Add a row for th architecture, add are still TBD. Response ACCEPT IN PRI Implement the s CI 169 SC 16 Huber, Thomas Comment Type Clause 176 has 800GBASE-R in SuggestedRemedy Replace the TBI clause 184.7 for Response ACCEPT IN PRI	e PMA. Dep d a row for t INCIPLE. uggested re 9.4 f C delay const ner FEC, ar Ds wiith the the LR1 inr <i>Re</i> INCIPLE.	eending on the disposition he ER1 PCS or the ER1 esponse Status C emedy with editorial licer P178 Nokia comment Status A raints for 800G 32:4 and hd clause 184 has value appropriate values from her FEC.	n of other comm FEC. The value ise. <i>L</i> 23 d 4:4 PMAs, clau s for the LR1 inn Table 176-7, Ta	# 44 (bucket) se 177 has values for her FEC	Annex 1 SuggestedR Change "Annex numberi to: "Annex using th BM PM/ Change "Annex to: "176B.7 Change "800GX: to:	76B does not emedy the second se 73A and Ann og" 73A shows a BM PMA. 17 and SM PM/ the second se 76B shows a 2 shows addi the title of 17 ⁻¹ and 1.6TXS and 1.6TXS	show any MMD numbering entence from: ex 176B show additional ex dditional examples of 800G (6B.6.2 shows additional ex A". entnce of the second parage dditional examples of 1.6TXS p 1.7 from: partitioning examples"	amples of 800GX XS partitioning an amples of 800GX pah from: S partitioning and partitioning"	S partitioning and MMD ad MMD numbering S paritioning using both

C/ 171 SC 171.7

	SC 171.9.5.	5 P216	L 22	# 95
Nicholl, SI	hawn	AMD		
Comment	Type TR	Comment Status A		(bucket)
	ntly says "transr ns to 1.6TXS.	nits what it receives from the 8	300GMII". Howe	ver, this sub-clause
Suggested	dRemedy			
Propo	se "transmits w	hat it receives from the 1.6TM	II".	
Response		Response Status C		
ACCE	PT.			
C/ 174	SC 174.3.2	P 235	L 20	# 87
Opsasnicl	k, Eugene	Broadcom		
Comment	Туре Т	Comment Status R		(bucket)
	"1.6T BASE-R BASE-R Inner F	8:8 PMA" between the "1.6T E EC" on line 20 which creates a	an AUI interface	
		essary inter-layer signals on th	ne AUI connectio	
PMAs		, , ,	ne AUI connectio	
PMAs <i>Response</i> REJE The in	CT. ttent of this diag	essary inter-layer signals on the Response Status C Response Status C ram (see figure title) is to show lementation configurations, who	v intersublayer ir	n between the two terfaces not provide an
PMAs Response REJE The in exhau	CT. ttent of this diag	Response Status C	v intersublayer ir	n between the two terfaces not provide an
PMAs Response REJE The in exhau	CT. tent of this diag stive set of imp SC 174A.4	Response Status C ram (see figure title) is to show lementation configurations, wh	v intersublayer ir ich is provided ir	n between the two terfaces not provide an istead in Annex 176B.
PMAs Response REJE The in exhau C/ 174A Bruckmar	CT. tent of this diag stive set of imp SC 174A.4 n, Leon	Response Status C ram (see figure title) is to show lementation configurations, wh	v intersublayer ir ich is provided ir	n between the two terfaces not provide an istead in Annex 176B.
PMAs Response REJE The in exhau Cl 174A Bruckman Comment	CT. Intent of this diag stive set of imp SC 174A.4 n, Leon <i>Type</i> TR	Response Status C ram (see figure title) is to show lementation configurations, wh P662 Nvidia	v intersublayer ir ich is provided ir	n between the two nterfaces not provide an instead in Annex 176B. # 161
PMAs Response REJE The in exhau C/ 174A Bruckmar Comment Pre-Fl	CT. Intent of this diag Istive set of impl SC 174A.4 In, Leon Type TR EC BER should	Response Status C ram (see figure title) is to show lementation configurations, wh P662 Nvidia Comment Status A	v intersublayer ir ich is provided ir	n between the two nterfaces not provide an instead in Annex 176B. # 161
PMAs Response REJE The in exhau Cl 174A Bruckmar Comment Pre-Fl Suggested Chang	CT. Intent of this diag Istive set of impl SC 174A.4 In, Leon Type TR EC BER should	Response Status C ram (see figure title) is to show lementation configurations, wh P662 Nvidia Comment Status A be 2.21 × 10–4.	v intersublayer ir ich is provided ir	n between the two nterfaces not provide an instead in Annex 176B. # 161
PMAs Response REJE The in exhau Cl 174A Bruckmar Comment Pre-Fl Suggested Chang	CT. tent of this diag stive set of impl SC 174A.4 a, Leon <i>Type</i> TR EC BER should <i>dRemedy</i> ge: " 2.21 × 10– .21 × 10–4."	Response Status C ram (see figure title) is to show lementation configurations, wh P662 Nvidia Comment Status A be 2.21 × 10–4.	v intersublayer ir ich is provided ir	n between the two nterfaces not provide an instead in Annex 176B. # 161
PMAs Response REJE The in exhau Cl 174A Bruckmar Comment Pre-Fl Suggested Chang To: "2	CT. tent of this diag stive set of impl SC 174A.4 a, Leon Type TR EC BER should dRemedy ge: " 2.21 × 10– .21 × 10–4."	Response Status C ram (see figure title) is to show lementation configurations, wh P662 Nvidia Comment Status A be 2.21 × 10–4.	v intersublayer ir ich is provided ir	n between the two nterfaces not provide an instead in Annex 176B. # 161

C/ 174A	SC	174A.5	Р	668	L14	# 469	
Maki, Jeffer	ry		Juni	per Net	works		
Comment T	уре	т	Comment Statu	s R			(bucket)
	nifican		tire PHY" is wrong npared to other cas				
SuggestedF	Remed	ly					
Change	e "Fran	ne loss ra	tio for entire PHY" t	o 6.2x1(0^-11.		
Response			Response Status	C			
REJEC Resolve		g the respo	onse to comment #	467.			
C/ 174A	SC	174A.5	Р	668	L17	# 470	
Maki, Jeffer	ry		Jun	per Net	works		
one sig	loss r nifican	t digit. In t	Comment Statu tire PHY" is wrong turn, the "Codeword	or at lea	st has been unned	cessarily trunca	<i>(bucket)</i> ited to
"Frame one sig ratio for SuggestedF	loss r nifican entire Remed	atio for en t digit. In t PHY" is v	tire PHY" is wrong turn, the "Codeword	or at lea l error		cessarily trunca	• • •
"Frame one sig ratio for SuggestedF	loss r nifican entire Remed	atio for en t digit. In t PHY" is v	tire PHY" is wrong turn, the "Codeword wrong.	or at lea l error IY" to 1.		cessarily trunca	• • •
"Frame one sig ratio for SuggestedF Change Response REJEC	loss ranifican rentire Remed e "Code	t digit. In t PHY" is v y eword erro	tire PHY" is wrong turn, the "Codeword wrong. or ratio for entire Pt	or at lea l error IY" to 1. c		cessarily trunca	• • •
"Frame one sig ratio for SuggestedF Change Response REJEC	loss r nifican entire Remec e "Cod T. e using	t digit. In t PHY" is v y eword erro	tire PHY" is wrong turn, the "Codeword wrong. or ratio for entire Pf <i>Response Status</i> onse to comment #	or at lea l error IY" to 1. c		cessarily trunca	• • •
"Frame one sig ratio for Suggestedf Change Response REJEC Resolve	loss r nifican entire Remed e "Cod T. e using SC	atio for en t digit. In t PHY" is v ly eword erro	tire PHY" is wrong turn, the "Codeword wrong. or ratio for entire PH <i>Response Status</i> onse to comment #	or at lea d error dY" to 1. C 467.	50x10^-11. <i>L</i> 19		• • •
"Frame one sig ratio for Suggestedf Change Response REJEC Resolve C/ 174A	loss r nifican r entire Remed e "Cod T. e using SC	atio for en t digit. In t PHY" is v ly eword erro	tire PHY" is wrong turn, the "Codeword wrong. or ratio for entire PH <i>Response Status</i> onse to comment #	or at lea l error HY" to 1 C 467. 668 per Nett	50x10^-11. <i>L</i> 19		• • •
"Frame one sig ratio for Suggested/ Change Response REJEC Resolve C/ 174A Maki, Jeffer Comment T "Frame	T. e using SC ry Jype loss r	tio for en t digit. In t PHY" is v by eword erro the respo 174A.5 T atio for en	tire PHY" is wrong turn, the "Codeword wrong. or ratio for entire Pf <i>Response Status</i> onse to comment # <i>P</i> Jun	IY" to 1. C 467. 668 per Network S R or at lea	50x10^-11. L19 works st has been unned	# 471	(bucket)
"Frame one sig ratio for Suggested/ Change Response REJEC Resolve C/ 174A Maki, Jeffer Comment T "Frame	T. entire Remed a "Cod T. a using SC ry Type loss r nifican	t digit. In t PHY" is v PHY" is v we word error the response the respo	tire PHY" is wrong turn, the "Codeword wrong. or ratio for entire Pf <i>Response Status</i> onse to comment # <i>P</i> Juni <i>Comment Statu</i> tire PHY" is wrong	IY" to 1. C 467. 668 per Network S R or at lea	50x10^-11. L19 works st has been unned	# 471	(bucket)
"Frame one sig ratio for Suggestedf Change Response REJEC Resolve Cl 174A Maki, Jeffer Comment T "Frame one sig Suggestedf	T. SC SC SC SC SC SC SC SC SC SC SC SC SC	atio for en t digit. In t PHY" is v ly eword erro the respo 174A.5 T atio for en t digit. In t	tire PHY" is wrong turn, the "Codeword wrong. or ratio for entire Pf <i>Response Status</i> onse to comment # <i>P</i> Juni <i>Comment Statu</i> tire PHY" is wrong	IY" to 1. C 467. 668 per Networks R or at leantire PH	50x10~11. <i>L</i> 19 works st has been unned IY (BERtotal)" is w	# 471	(bucket)
"Frame one sig ratio for Suggestedf Change Response REJEC Resolve Cl 174A Maki, Jeffer Comment T "Frame one sig Suggestedf	T. SC SC SC SC SC SC SC SC SC SC SC SC SC	atio for en t digit. In t PHY" is v ly eword erro the respo 174A.5 T atio for en t digit. In t	tire PHY" is wrong turn, the "Codeword wrong. or ratio for entire Pf <i>Response Status</i> onse to comment # <i>P</i> Jun <i>Comment Statu</i> tire PHY" is wrong turn, the "BER for e	Arrian Arri	50x10~11. <i>L</i> 19 works st has been unned IY (BERtotal)" is w	# 471	(bucket)

C/ 174A SC 174A.5

C/ 174A S	C 174A.6.1.3	P 664	L 35	# 162	C/ 174A SC 174	A.6.1.4	P 665	L 24	# 165
Bruckman, Lec	on	Nvidia			Bruckman, Leon		Nvidia		
Comment Type	e TR	Comment Status A		(bucket)	Comment Type TF	R Comment	Status R		(bucket)
In Hm is no	ot clear what is	the meaning of "m"			Define the ranges	s of k and i			
SuggestedRem	nedy				SuggestedRemedy				
Define the	meaning of "m'	" in Hm or remove the "m"			Change: "for all k				
Response		Response Status C			To: "for k = 0 to 1				
ACCEPT I	N PRINCIPLE.				Response	Response	Status C		
Change: "⊦		histograms. of 17-bin histograms" easured 17-bin histograms	5"		REJECT. The lane index i a repeat this elsew		s p are defined	in 174A.6.1.2. It	is not necessary to
C/ 174A S	C 174A.6.1.3	P 664	L 41	# 163	C/ 174A SC 174	A.7.1.3	P 667	L1	# 129
Bruckman, Leo	on	Nvidia			Slavick, Jeff		Broadcom		
Comment Type	TR	Comment Status R		(bucket)	Comment Type T	Comment	Status A		(bucket)
SuggestedRem	nedy	31Q is not defined			This section is no acquiring the data title.	t really "measuring a. In 174A.6.1.3 we	or comparing don't incluce t	the hisograms to he word measure	anything it's just ement in the section
Define that shown in F		is produced by the polync	mial defined in E	equation (49–2) and	SuggestedRemedy				
Response	-	Response Status C				l "measurement" fro	om the title of 1	74A.7.1.3	
REJECT.		, -			Response	Response	Status C		
This detail		n is defined in the either th cope of this annex. The p draft.			counters is measured	NCIPLE. ays that these are ured using the follo s sense to align the	wing method:"	0	Ū.
C/ 174A S	C 174A.6.1.3	P 664	L 48	# 432		of 174A.6.1.3 to "PN			
Dudek, Mike		Marvell							
Comment Type Wrong equ	T ation reference	Comment Status A		(bucket)					
SuggestedRem Change Eq	nedy Juation 174A-3	to 174A-1							
Response ACCEPT.		Response Status C							

C/ 174A SC 174A.7.1.3

2/ 174A SC 174A.7.	1.4 P667	L17	# 385	C/ 174A	SC 174A.7.1.	.4 P667	L 35	# 106
lealey, Adam	Broadcom Inc.			Mi, Guangcar	1	Huawei Tech	nologies Co., Ltd	
Comment Type T	Comment Status R		(withdrawn)	Comment Typ	e TR	Comment Status A		(bucket
option can be used fo whether or not the blo	nethod can also be defined for r lane-by-lane testing and woul ck error ratio requirement is me case for PMA-based measuren	d enable a quick et with reduced (assessment of (or no additional) post-	less than	1.45 e-11." is	is subclause "The measured misleading. res "The following method is		
does not necessarily i that the method curre	mean the block error ratio requi ntly defined in 174A.7.1.4 would equirement is, or is not, met.	irement is not m	et. It instead means	using FEC	bin counters	s provided in the PCS." k error ratio as Hms(16), not		
SuggestedRemedy				CL174A.8	provides the	definition of FEC codeword	error ratio, which	seems to be Hm(16).
measurements [®] . The (using the value of BE subclause should also	bclause for "Error mask test me error mask is computed in the Radded appropriate for PCS-b o note that errors on unstressed d should be minimized for the r	same way as de based measurme d lanes will be (ir	fined in 174A.6.1.4 ents). The new ncorrectly) attributed to	It is uncle SuggestedRe		r ratio shoule be less than 1.	45e-11.	
Response	Response Status Z			••	•	ed block error ratio is expected	od to bo loss "	Or state the relation
REJECT.						or ratio and block error ratio is		
This comment was W	ITHDRAWN by the commenter	r.		Response		Response Status C		
7 174A SC 174A.7.		L 26	# 168			.E. d codeword error ratio"		
Bruckman. Leon	Nvidia	220	# 100		ne measured			
Comment Type TR	Comment Status A		(bucket)	CL 4744	SC 174A.9	Dece	1.16	# 400
Point e) is unclear			(DUCKEI)		SC 174A.9	P668	L16	# 433
SuggestedRemedy				Dudek, Mike		Marvell Comment Status A		(6
Change: "substituting	Hms(k) for Hx(k) for Hms (i)(k) (k) for Hx(k) and Hms (i)(k) for			Comment Typ Footnote		applied to the xAUI-n C2C in t	the bottom row as	<i>(bucket)</i> s well as the top.
Response	Response Status C				change in tal	bles 174A-1 and 174A-2 Als footnote a where it says "to r		
ACCEPT IN PRINCIP	sted remedy with editorial licens			Response				

C/ 174A SC 174A.9

	L 29	# 468	C/ 175 SC 175.2.	5.3 P254	L 41	# 21
Maki, Jeffery Juniper Netwo	/orks		Brown, Matt	Alphawave S	emi	
Comment Type T Comment Status R		(bucket)	Comment Type T	Comment Status A		(bucket)
"Frame loss ratio for entire PHY" is wrong or at leas one significant digit. In turn, the "Codeword error ratio for entire PHY" is wrong and the "BER for enti		-		otion is overly specific: "The foll or in determining the link qualit		
SuggestedRemedy			SuggestedRemedy			
Change "Frame loss ratio for entire PHY" to 6.2x10			Change to "The follo	wing counters shall be impleme	ented:"	
ratio for entire PHY" to 1.50x10^-11, and change "E 2.93x10^-4.	ER for entire PF	IY (BERtotal)" to	Response	Response Status C		
Response Response Status C			ACCEPT.			
REJECT. Resolve using the response to comment #467.			C/ 176 SC 176.1.	3 P270	L 32	# 16
			Brown, Matt	Alphawave S	emi	
Cl 175 SC 175.2.4.6.1 P247	<i>L</i> 1	# 181	Comment Type E	Comment Status A this subclause are not ordered		(bucket)
Comment Type E Comment Status A The acronym AM (and plural AMs) is used a few tir spell it out.	nes but never de	<i>(bucket)</i> fined. Better to just	guidelines here: http://www.ieee802.0	them alphanumerically accordir org/3/WG_tools/editorial/require	-	
SuggestedRemedy			SuggestedRemedy Reorder the terms a	lphanumerically according to th	e auidelines.	
Change "AM" to "alignment marker" is several plac 249/51,249/54, 251/32 x2, 253/16 x2	es at page/line: 2	247/1, 248/12, 249/42,	Response	Response Status C	9	
Response Response C			ACCEPT IN PRINC	1		
ACCEPT IN PRINCIPLE.			Implement the sugg	ested remedy with editorial licer	nse.	
Implement suggested remedy with editorial license			C/ 176 SC 176.1.4	4 P 271	L 33	# 477
C/ 175 SC 175.2.4.6.2 P266	L 2	# 476	Opsasnick, Eugene	Broadcom		
Opsasnick, Eugene Broadcom			Comment Type E	Comment Status R		(bucketp)
Comment Type E Comment Status A Typo in variable name tx_acrambled_f1_i<256:0>.		(bucket)		y alternating PCSLs by two RS y two RS-FEC codewords …"	-FEC codeword	s" to be "Delay of
			SuggestedRemedy			
SuggestedRemedy Change tx_acrambled_f1_i<256:0> to be tx_scram	bled f1 i<256.0		Change:			
° – – – – –	Jed_11_1<230.02	·.	"Delay alternating P To:	CSLs by two RS-FEC codeword	ls"	
Response Response Status C				PCSLs by two RS-FEC codew	ords".	
			Response	Response Status Z		
ACCEPT.						
ACCEP1.			REJECT.			

C/ 176 SC 176.1.4

C/ 176 SC 176.1.4	P 271	L 42	# 478	C/ 176	SC 176.2	P 274	L17	# 85	
Opsasnick, Eugene	Broadcom			Opsasnick	, Eugene	Broadcom			
Comment Type E	Comment Status A		(bucket)	Comment	Type TR	Comment Status A		(bucket)	
Now that PMAL is a defined term, the parenthetical "(lanes)" on line 43 should be updated to "(PMALs)".				In the last sentence of the pargraph right before Table 176-5, the statement "[the parameter] is set to the value of the received SIGNAL_OK value" is ambigous. Which					
SuggestedRemedy				receive	ed SIGNAL_O	K is to be used? There are two	different SIGNA	L_OK inputs.	
Replace "(lanes)" with: (PMALs).						atement is made in the last sen on page 275, in subclause 176.		agraph immediately	
Response	Response Status C		Roth o	f those statem	onte should ha mada mara cla	or			
	ACCEPT IN PRINCIPLE. Since PMAL has been defined as lanes operating at 212.5Gb/s, it will be better to simply				Both of these statements should be made more clear.				
	reams (lanes) operating at 21			SuggestedRemedy In 176.2, immediately prior to Table 176-5 change the sentence from: "For the n:n PMAs, the SIGNAL_OK parameter at the client interface is set to the value of the received SIGNAL_OK value. to: "For the n:n PMAs, the SIGNAL_OK parameter at the client interface is set to the value of the received SIGNAL_OK parameter from the sublayer below the PMA (inst:IS_SIGNAL.indication(SIGNAL_OK))."					
•	ted remedy with editorial licen								
				"For th	e n:n PMAs, t	6.3, change the last sentence i he SIGNAL_OK parameter at t I SIGNAL_OK value."			
				"For th value o	of the received	he SIGNAL_OK parameter at t SIGNAL_OK parameter from t quest(SIGNAL_OK))."			
				Response		Response Status C			
					PT IN PRINCI	PLE. ested remedy with editorial licer	ise.		

C/ 176 SC 176.2

C/ 176 SC 176.	3 P 275	L 6	# 479	C/ 176	SC 176.4.1	P 276	L 21	# 482	
Opsasnick, Eugene	Broadcom			Opsasnick	, Eugene	Broadcom			
Comment Type E	Comment Status A		(bucket)	Comment	Type E	Comment Status A		(bucket)	
Verb tense is not o	correct.			Should	add "PMAL" term	when referring to the appro	priate PMA inte	rface lanes.	
SuggestedRemedy				Suggested	Remedy				
to: ", the m:n PN And on line 11 of t Change: ", the r to: ", the n:m PN	n:n PMAs sends n parallel symbol MAs send n parallel symbol stream he same page 275, :m PMAs sends m parallel symbo MAs send m parallel symbol stream he same page 275,	ls". I streams"		multipl interfa (demu RS-FE	transmit (multiplex exes RS-FEC sym ce to n output lanes (tiplexing) direction C symbols from n	ing) direction, the m:n PMA bols from m PCSL input lar s at the service interface be the m:n PMAs perform a r input lanes at the service in MA service interface."	nes received at t low the PMA. In eceive function	he PMA service the receive which demultiplexes	
Change: ", the r	n PMAs sends n parallel symbol As send n parallel symbol stream	streams" s"				ing) direction, the m:n PMA			
Response ACCEPT.	Response Status C			multiplexes RS-FEC symbols from m PCSL input lanes received at the PMA service interface to n PMAL output lanes at the service interface below the PMA. In the receive (demultiplexing) direction, the m:n PMAs perform a receive function which demultiplexes RS-FEC symbols from n PMAL input lanes at the service interface below the PMA to m					
C/ 176 SC 176.	4 P276	L16	# 481			d the PMA service interface		eiuw lite pivia to m	
Opsasnick, Eugene	Broadcom			Cimila	undataa aan ha m	ada ta 176 E 1			
Comment Type E	Comment Status A		(bucket)		updates can be m				
Now that PMAL is lanes".	a defined term, it can be used to r	eplace term "2	12.5 Gb/s interface	Response ACCE	PT IN PRINCIPLE.	Response Status C			
SuggestedRemedy				In 176	.4.1				
lanes for each xB/ With: "Note that m equa xBASE-R m:n PM	ls the number of PCSLs and n equ	uals the numbe	r PMALs for each	multipl interfa (demu RS-FE	transmit (multiplex exes RS-FEC sym ce to n output lanes (tiplexing) direction C symbols from n	ing) direction, the m:n PMA bols from m PCSL input lar s at the service interface be the m:n PMAs perform a r input lanes at the service in MA service interface."	nes received at t low the PMA. In eceive function	he PMA service the receive which demultiplexes	
	es" such as line 51 on page 292.					ing) direction, the m:n PMA			
Response	Response Status C					e interface to n PMALs at t g) direction, the m:n PMAs			
ACCEPT IN PRIN	CIPLE. gested remedy with editorial licen	se.			s at the service inte	rface below the PMA to m			
				demult output	e: transmit (demultip iplexes RS-FEC sy lanes at the servic	lexing) direction, the n:m Pl mbols from n input lanes a e interface below the PMA. receive function which mult	t the PMA servio In the receive (i	ce interface to m PCSL multiplexing) direction,	
COMMENT STATUS:	quired ER/editorial required GR/g D/dispatched A/accepted R/reject				Z/withdrawn	C/ 17(SC 17(Page 11 of 48 1/21/2025 9:54:0	

SORT ORDER: Clause, Subclause, page, line

 $\ensuremath{\mathsf{PCSL}}$ input lanes at the service interface below the $\ensuremath{\mathsf{PMA}}$ to n output lanes at the $\ensuremath{\mathsf{PMA}}$ service interface."

To:

"In the transmit (demultiplexing) direction, the n:m PMAs demultiplex RS-FEC symbols from n PMALs at the PMA service interface to m PCSLs at the service interface below the PMA. In the receive (multiplexing) direction, the n:m PMAs multiplex RS-FEC symbols from m PCSLs at the service interface below the PMA to n PMALs at the PMA service interface."

Imple	Implement the with editorial license.								
C/ 176	SC 176.4.2.4.2	P 281	L 32	# 96	To: "Counts the <i>Response</i>				
Nicholl, S	Shawn	AMD			ACCEPT.				
Comment Curre	51	Comment Status A r the 400GBASE-R 32:4 PM	1A, the odd lane	(bucket) es"	C/ 176 SC 1				
Suggeste	dRemedy				He, Xiang				
Propo	ose " and for the	400GBASE-R 16:2 PMA, th	e odd lanes"	1	Comment Type				
Response	9	Response Status C			The index y is i				
ACCE					SuggestedRemedy Change "where				
C/ 176	SC 176.4.4.2.1	P 289	L 25	# 483	Response				
Opsasnic	k, Eugene	Broadcom			ACCEPT.				
Comment	t Type T	Comment Status A		(bucket)					
SYME		art_lock_demux <y> states t ART state, but is is actually s 5-10.</y>			C/ 176 SC 1 Opsasnick, Eugene Comment Type				
Suggeste	dRemedy				The initial conc				
Chan	ge: "Boolean variab	le that is set to true in the S	YMBOL_LOCK	_RESTART state to	is "reset + !all_				
		at is set to true in the SYMB to restart"	OL_LOCK_RES	START and	SuggestedRemedy Change the op				
Response	9	Response Status C			reset + !all_loc to:				
	EPT IN PRINCIPLE				reset + !signal_				
Imple	ement the suggested	d remedy with editorial licens	se.		Response				
					ACCEPT IN PF Implement the				

C/ 176	SC 176.4.4.2.3	3 P 290	L 4	# 484
Opsasnick,	Eugene	Broadcom		
Comment T	Гуре E	Comment Status A		(bucket,
Numbe	rs less than or ea	qual to 10 (ten) should be writ	tten out.	
Suggested	Remedy			
		nment marker intervals." nent marker intervals."		
Response		Response Status C		
ACCEF	ΥТ.			
C/ 176	SC 176.4.4.3	P 290	L 34	# 145
He, Xiang		Huawei		
Comment T	Гуре т	Comment Status A		(bucket
The ind	lex y is not a PM	AL but a PAML number.		
Response ACCEF		input PMAL" to "where y is th <i>Response Status</i> C		
C/ 176	SC 176.4.4.3	P 291	L 2	# 84
0/ 1/0				<i>"</i> 04
Opsasnick,	Eugene	Broadcom		
	0	Broadcom Comment Status A		
Opsasnick, Comment T The init	<i>Type</i> TR tial condition (ope			<i>(bucket)</i> ET state in Figure 176-9
Opsasnick, Comment T The init	<i>Type</i> TR tial condition (ope tt + !all_locked_m	Comment Status A en arrow) to enter the LOSS_		<i>(bucket)</i> ET state in Figure 176-9
Opsasnick, Comment 7 The init is "rese Suggestedf Change reset + to:	Type TR tial condition (ope et + !all_locked_m Remedy the open arrow !all_locked_mux	Comment Status A en arrow) to enter the LOSS_ nux". (!signal_ok_mux) should condition to enter LOSS_OF	d be added to t	<i>(bucket)</i> ET state in Figure 176-9 his condition
Opsasnick, Comment 7 The init is "rese Suggestedf Change reset + to:	Type TR tial condition (ope et + !all_locked_m Remedy the open arrow !all_locked_mux	Comment Status A en arrow) to enter the LOSS_ nux". (!signal_ok_mux) should condition to enter LOSS_OF.	d be added to t	<i>(bucket,</i> ET state in Figure 176-9 his condition
Opsasnick, Comment T The init is "rese Suggestedf Change reset + to:	Type TR tial condition (ope et + !all_locked_m Remedy the open arrow !all_locked_mux	Comment Status A en arrow) to enter the LOSS_ nux". (!signal_ok_mux) should condition to enter LOSS_OF	d be added to t	<i>(bucke</i>) ET state in Figure 176-9 his condition

C/ 176 SC 176.4.4.3

C/ 176	SC 176.4.4.3	P 292	L17	# 485	C/ 176	SC 176.8	P 299	L 4	# 451
Opsasnick,	Eugene	Broadcom			Shrikhande,		Marvell		
Comment T	ype E	Comment Status A		(bucket)	Comment Ty	pe TR	Comment Status A		PMA dela
		ate transitions out of SLIP_C			In Table	176-7, comple	ete the TBD delay values fo	r the SM-PMAs.	
		ART do not have a condition			SuggestedRe	emedy			
Suggested	•		~~"		A presen	tation will be	provided for the TBD values	s in Table 176-7.	
	litional state trans	sitions should be labelled "U	. <i>"</i> ان		Response		Response Status C		
Response		Response Status C			ACCEPT	IN PRINCIPI	LE.		
In Fig 1	PT IN PRINCIPLE 76-10, label the DL_LOCK_REST	unconditional state transition	s out of SLIP_CC	NTROL and			tion was reviewed by the Cl rg/3/dj/public/25_01/shrikha		11.pdf
C/ 176	SC 176.5.4.1.	5 <i>P</i> 319	L 48	# 20	Impleme	nt the propos	als on slide 16 and 17 for a	I sublavers listed of	on slide 16. includina
Brown, Ma	t	Alphawave Se	mi				delay values to 74.24 ns.	····,	,
Comment 7	<i>уре</i> т	Comment Status R		(withdrawn)	Impleme	nt with editoria	al license.		
		used for the lane number. Si			· · ·	SC 176.8		L6	# 000
		ause some ambiguity in the n similar bin counters defined i					P299	-	# 223
used fo	r this purpose.				de Koos, And Comment Ty		Microchip ⊺ Comment Status A	echnology	PMA del
Suggested	Remedy						d deskew (compensating fo	r skew across an <i>i</i>	
		ined in 177.5.4.1.5 change th Clause 45 appropriately.	ne index "i" to "k".	Also update Table	PMA dela	ay constraint?	I think not. This should b in the PMA's delay constra	e seen as the dela	
Response		Response Status Z			SuggestedRe	emedy			
REJEC	т.					-			
This co	mment was WIT	HDRAWN by the commenter	:		Response		Response Status C		
C/ 176	SC 176.8	P199	L 9	# 22		IN PRINCIPI			
Brown, Ma		Alphawave Se	-		Resolve	using the resp	conse to comment #451.		
Comment T		Comment Status A		PMA delay					
Delay I	mits for 200GBA	SE-R, 400GBASE-R, and 1.0 may need to be refined.	6TBASE-R PMAs	,					
Suggested	Remedy								
Expect	a contribution wi	th proposals. ble 116-7, 169-4, and Table 1	174-4 with the ad	opted numbers.					
Response		Response Status C							
		nse to comment #451.							

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 176 SC 176.8

C/ 176	SC 176.8	P 299	L 6	# 225	C/ 176
de Koos, J	Andras	Microchip Tec	hnology		de Koos, An
Comment	Туре Т	Comment Status A		PMA delay	Comment Ty
equal does i	to those of the not have the 'E	es for the '1.6TBASE-R 8:16 PM 800GBASE-R 4:32 PMA or 32: Delay odd PCSLs by one symbol I is negligible in the context of th	4 PMA. It is tr function (176	ue that the 1.6T PMA	For Tabl 400GBA careful to (which is
Suggested	dRemedy				the inter the skev
		R 8:16 PMA or 16:8 PMA' delay :32 PMA or 32:4 PMA'	constraints, us	se the same values as	SuggestedR
	PT IN PRINC				For the f PMA or 5 Skew = 2
Resor	ve using the re	esponse to comment #451.			200GBA
C/ 176	SC 176.8	P 299	L 6	# 226	Maximur
de Koos, A	Andras	Microchip Teo	chnology		Maximur
Comment	Туре Т	Comment Status A		PMA delay	Maximur
	table, why is t a wire?	he value for a 4:4 PMA so large	(2x the 4:32 /	32:4 PMA)? Wouldn't it	For the 2 PMA or 3
Is it be PMA?		resonably be implemented with	n a 4:32 PMA i	n series with a 32:4	Skew = 2
Assun	ning the 4:4 Pl	MA value is correct, the same ru e values of the 1:8, 2:16 , and 8:			400GBA Maximur
Suggestee	dRemedy				Maximur Maximur
		-R 1:1 PMA' delay constraint val		e delay constraint values	Response
For th of the For th	e '400GBASE '400GBASE-F e '1.6TBASE-F	 R 1:8 PMA or 8:1 PMA' delay constraint val R 2:2 PMA' delay constraint val R 2:16 PMA or 16:2 PMA' delay or R 8:8 PMA' delay constraint valu 8:16 PMA or 16:8 PMA' delay or 	ues, double th constraints. les, double the		ACCEP1 Resolve

Response

Response Status C

ACCEPT IN PRINCIPLE. Resolve using the response to comment #451.

C/ 176	SC 176.8	P 299	L 6	# 222
de Koos, /	Andras	Microchip Tech	nnology	
Comment	Туре Т	Comment Status A		PMA delay

ble 176-6, the delay of the 1:8 and 8:1 (for 200GBASE-R) and 2:16 and 16:2 (for ASE-R) PMAs is complicated because of the 2CW skew introduced. Must be to avoid double-accounting the delay due to this skew! The max delay constraint is for the *sum* of Rx and Tx) should thus be calculated as the max base delay plus entional skew, (not 2x the intentional skew). This way, the total constraint will count w's contribution only once.

Remedy

1:8, 8:1, PMAs use the base max delay value (same as the 800GBASE-R 4:32 32:4 PMA, presumably?) plus the intentional skew. 2 FEC CWs = 51.2ns for 200Gbps

ASE-R 1:8 PMA or 8:1 PMA : um (bit time): 36864 + 40960 = 77824 um (pause_quanta): 72 + 80 = 152 $\lim_{n \to \infty} (ns): 46.08 + 51.2 = 97.28$

2:16, 16:2, PMAs use the base max delay value (same as the 800GBASE-R 4:32 32:4 PMA, presumably?) plus the intentional skew. 2 FEC CWs = 25.6ns for 400Gbps

ASE-R 2:16 PMA or 16:2 PMA : um (bit time): 36864 + 20480 = 57334 um (pause_quanta): 72 + 40 = 112 um (ns): 46.08 + 25.6 = 71.68

Response Status C

PT IN PRINCIPLE.

e using the response to comment #451.

C/ 176 SC 176.8

176 SC 176.8	P 299	L 21	# 224	C/ 176B	SC 176B.6.2	P695	L 28	# 417
e Koos, Andras	Microchip Tec	chnology		Nicholl, Gar	у	Cisco Systems		
omment Type T	Comment Status A		PMA delay	Comment T	ype TR	Comment Status A		(bucket)
Table 176-6, a footnote may get confused: looki	ed to specify the max delay f to the table is required to ex ng at the delay through the F clude that they should each	plain the method. Rx PMA in isolation	Otherwise, readers on, and the Tx PMA in	SuggestedF	Remedy	ference to "Figure 176B-2" shou " to "Figure 176B-3".	ld be "Fgu	re 176B-3"
uggestedRemedy Add the following note a Note that since the dela	ifter the table: y constraint is respect to the	sum of Rx and T	x delays, the	Response ACCEP	Т.	Response Status C		
	1:8 and 8:1 PMAs (51.2ns) a			Cl 176C	SC 176C.5.1	P711	L 37	# 203
esponse	Response Status C			Brown, Mat Comment T		Alphawave Semi Comment Status A		(bucket)
ACCEPT IN PRINCIPLE Resolve using the response				46.25 h	as orange highli			(DUCKEI)
176 SC 176.11	P 300	L15	# 5	SuggestedF Remove	Remedy e highlight.			
larris, Arthur comment Type T	Cadence Des Comment Status A	ign Systems	(bucket)	Response ACCEP	Т.	Response Status C		
Table 176–8 needs pop	ulating			0/ 4700	00 1700 5 1	0744	107	# 550
	PMA/PMD registers" in IEEE	Std 802.3 for the	correct MDIO register	C/ 176C Heck, Howa	SC 176C.5.1 ard	P 711 TE Connectivity	L 37	# 559
bit references	_			Comment T	vpe E	Comment Status A		(bucket)
ACCEPT IN PRINCIPLE						gle-ended receiver transmitter te ge. This value is consistent with		
Implement the suggeste	ed remedy with editorial licen	ISE.		SuggestedF	-			
/ 176B SC 176B.3	P 683	L12	# 378		e the orange hig	hlighting.		
P'Ambrosia, John Comment Type E	Futurewei, U.S Comment Status A	S. Subsidiary of F	luawei (bucket)	Response ACCEP	Т.	Response Status C		
	ed to highlight the co-exister figure uses generic languag			C/ 177	SC 177.4.1	P 309	L 32	# 276
help.				Ran, Adee		Cisco		
uggestedRemedy Add "BM-" or "SM-" as a	appropriate to the PMA subla	ayer boxes in Fig	176B-4.`	Comment T "4-symb		Comment Status A here, elsewhere the term "symb	ool quartet	<i>(bucket)</i> is used instead.
esponse ACCEPT.	Response Status C			SuggestedF Change	Remedy to "symbol qua	rtet"		
				Response ACCEP	Т.	Response Status C		

C/ 177	SC 177.4.1.1	P310	L 29	# 120	C/ 177
Slavick, J	eff	Broadcom			Huber, Thom
Comment	Type TR	Comment Status A		(bucket)	Comment Typ
	emultiplexing funct ner FEC.	ion refers to "service interfa	ce below the PN	/A" but this is above	The word tolerance
Suggestee	dRemedy				PCSLs is shall sup
۸dd "۱	with the exception	that it operates on the Inner	FEC service int	erface input lanes"	SuggestedRe
Response	•	Response Status C			Use lang
	PT IN PRINCIPLE	: d remedy with editorial licen	ISE.		PCSLs is supported
C/ 177	SC 177.4.1.2	P310	L 36	# 419	Response
Nicholl, G		Cisco System	IS		ACCEPT Impleme
Comment	<i>Type</i> T the sentence "The	Comment Status A		(bucket)	C/ 177
		lthough accurate, is confusi	ing/contradictory	as the first sentence in	Huber, Thom
the su	bclause states that	t "The alignment marker loc	k function is per	formed as defined in	Comment Ty
1/6.4	.3.3.", , and 176.4	.3.3 by definition does alter	the data stream.		The word
l tihnk	it would be better	to update Figure 177-3 to sl	how the symbol	demultiplex and	tolerance
		inctions for 200G/400G to b			PCSLs is
		path drawn as a straight arr data path is passthrough ar			shall sup
,	0	data patri is passi nougri a		in any way).	SuggestedRe
Suggested		a data nath ia nat altered" a	n line 26		Use lang PCSLs is
Delete	e the sentence "In	e data path is not altered" o	n line 36.		supporte

Update the 200GBASE-R/400GBASE-R portion of Figure 177-3 as described in the comment.

Response

Response Status C

ACCEPT IN PRINCIPLE.

Keep the "data stream is not altered", and update the diagram to show a straight arrow. Otherwise implement the suggested remedy with editorial license.

C/ 177	sc sc	177.4.1.3	P 310	L 47	# 45
Huber,	Thomas		Nokia		
Comm	ent Type	т	Comment Status A		(bucket)
tol PC	erance in t SLs is ren	he inner FE noved as de	awkward - the intent is to d C than in 800GBASE-R PC fined in 172.2.5.1, except th Skew of 25 ns between PC	S, but the text s nat the 800GBA	ays " Skew between
Sugge	stedReme	dy			
PC	SLs is ren		what 172.2.5.1 uses. Chan fined in 172.2.5.1, except th lanes"		
Respo	nse		Response Status C		
		PRINCIPLE	d remedy with editorial licen	se.	
CI 177	SC	177.4.1.3	P 310	L 52	# 46
Huber,	Thomas		Nokia		
Comm	ent Type	т	Comment Status A		(bucket)
tol PC	erance in t SLs is ren	he inner FE noved as de	awkward - the intent is to d C than in 800GBASE-R PC fined in 172.2.5.1, except th Skew of 25 ns between PC	S, but the text s nat the 1.6TBAS	ays " Skew between
Suggo	stedReme	dy			
Sugge					
Us PC	SLs is rer		what 175.2.5.1 uses. Chan fined in 175.2.5.1, except th lanes"		
Us PC	SLs is ren	noved as de	fined in 175.2.5.1, except th		

Implement the suggested remedy with editorial license.

C/ 177 SC 177.4.1.3

C/ 177	SC 17	7.4.1.5	P 311	L1	5	# 277	
Ran, Adee			Cisco				
Comment T	Туре Т	r C	omment Status A	L Contraction of the second seco		(b	ucket)
	ader may ASE-R P		why symbol multip	lexing is not pe	erformed fo	r 200GBASE-F	R and
perform	ned by the		each PCS lane al lustrated in Figure licitly.				ng
Suggestedl	Remedy						
"NOTE	In 200G	BASE-R an	he end of 177.4.1. Id 400GBASE-R P PCS is already s	HYs, this oper			
(see Fig	gure 176-			ymbol mulliple.		way interiouving	9
(see Fig Response		-6)."	esponse Status C			way interiouving	9
Response ACCEF	gure 176- PT IN PRI	–6)." <i>Re</i> INCIPLE.		;			9
Response ACCEF	gure 176- PT IN PRI	-6)." <i>Re</i> NCIPLE. uggested re	esponse Status C	l license.		# 146	9
Response ACCEF Implem	gure 176- PT IN PRI nent the s	-6)." <i>Re</i> NCIPLE. uggested re	esponse Status C	l license.			9
Response ACCEF Implem Cl 177	gure 176- PT IN PRI nent the s	-6)." Re INCIPLE. uggested re 7.4.2	esponse Status Commedy with editoria	l license.		# 146	9 Ducket)
Response ACCEF Implem Cl 177 He, Xiang Comment 1	gure 176- PT IN PRI hent the s SC 17 <i>Type</i> 1	-6)." Re NCIPLE. uggested re 7.4.2	esponse Status C medy with editoria P 311 Huawei	l license.	8	# [<u>146</u> (b	oucket)
Response ACCEF Implem Cl 177 He, Xiang Comment 1 The ter	gure 176- PT IN PRI eent the s SC 17 <i>SC</i> 17 <i>Type</i> 1 m "PMA	-6)." Re NCIPLE. uggested re 7.4.2	esponse Status C medy with editoria P 311 Huawei comment Status A	l license.	8	# [<u>146</u> (b	oucket)
Response ACCEF Implem Cl 177 He, Xiang Comment 7 The ter Iane". Suggested	gure 176- PT IN PRI eent the s SC 17 Type 1 m "PMA 1 Remedy	-6)." Re UNCIPLE. uggested re 7.4.2 7.4.2 7.6.2 7.6.2 7.6.2 7.6.2 7.6.2	esponse Status C medy with editoria P 311 Huawei comment Status A	l license. L1: ne Inner FEC s	8 sublayer, it i	# <u>146</u> (b s an "Inner FE	oucket)

C/ 177	SC 177.4.2	P 311	L 24	# 278
Ran, Adee		Cisco		
Comment Ty	pe T	Comment Status R		(withdrawn)

The last delay line (labeled "Delay Line 2") is actually not a delay line. The interleaver can be described as being composed of three data paths, of which the first two include delay lines (0 and 1) and the third does not.

SuggestedRemedy

Rephrase the text in this subclause and change Figure 177-4 per this comment, changing "Delay Line n" to "interleaver path n".

Implement any additional edits required by this change with editorial license.

Response	Response Status	z
REJECT.		

This comment was WITHDRAWN by the commenter.

C/ 177	SC	177.4.2	P311	L 25	# 34
Huber, Th	omas		Nokia		
Comment	Туре	т	Comment Status A		(bucket)

The text here seems a bit repetetive. The four paragraphs that start at line 25 spell out the delays for each delay line for each rate in detail, and then at line 50 there is a more abstract specification of the same thing.

SuggestedRemedy

Rewrite the first paragraphs to be algorithmic rather than per-rate:

Response Status C

"The first line (Delay Line 0) delays the data by 4x2xQ RS-FEC symbols, the second line (Delay Line 1) by 4x1xQ RS-FEC symbols, and the last line (Delay Line 2) adds no delay. The values of Q are shown in table 177-X."

Add a table with a column for the rate (200GBASE-R, 400GBASE-R, etc.) and a column for the value of Q.

Delete the sentence at lin 51 that starts with "The number Q differs for each..." and the bullet list that follows (this information is replaced by the table).

Response

ACCEPT IN PRINCIPLE.

Implement the suggested remedy with editorial license.

C/ 177 SC 177.4.2

		_					_		
	177.4.2	P 311	L 26	# 279	C/ 177	SC 177.4.2.5		L 50	# 490
Ran, Adee		Cisco			Opsasnick		Broadcom		
51		nent Status A		(bucket)	Comment	Type TR	Comment Status A		(bucket
Commas are m	missing in the 4 pa	aragraphs about dela	ly lines, and perio	ods are inconsistent.	Incorre	ect cross-referen	ce.		
SuggestedRemedy	ly				Suggested	dRemedy			
		nas after "200GBASI	E-R" and before	"and the last line".	Chang	ge "Figure 177-5"	to "Figure 177-4".		
Similarly for the	ne other 3 paragrap	ons.			Response		Response Status C		
Add a period at	at the end of the se	econd and third para	graphs.		ACCE	PT.			
Response	Respo	nse Status C			C/ 177	SC 177.4.4	P 312	L 34	# 280
ACCEPT.					Ran, Adee	e	Cisco		
C/ 177 SC 1	177.4.2	P 311	L 42	# 115	Comment	Type ER	Comment Status A		(bucket
Slavick, Jeff		Broadcom					7.4.4 is "Within each RS-		
Clarion, Con					hit 9 is	s transmitted last	". The transmission order is	s relevant for the 1	20-hit block creation
	TR Comn	nent Status A		(bucket)					,
Comment Type	TR Comm d data is fed into th			(bucket)		the circular shift	(circular shift would be the		,
Comment Type The deskewed	d data is fed into th			(bucket)	not for	r the circular shift ol).			,
Comment Type The deskewed SuggestedRemedy Change " The i	d data is fed into th ly a input data from th	e FEC service interf	ace lane is fed in		not for symbo Suggested	r the circular shift ol).	(circular shift would be the		,
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr	d data is fed into th ly input data from th from deskewed PM	e covolutioner. e FEC service interf IA lane is fed into"	ace lane is fed in		not for symbo Suggested	r the circular shift bl). <i>dRemedy</i> the quoted sente	(circular shift would be the		,
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr Response	d data is fed into th ly input data from th from deskewed PM Respo	e FEC service interf	ace lane is fed in		not for symbo Suggested Move Response	r the circular shift bl). <i>dRemedy</i> the quoted sente	(circular shift would be the nce to 177.4.3. <i>Response Status</i> C		,
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr Response ACCEPT IN PF	d data is fed into th ly input data from th from deskewed PM <i>Respo</i> PRINCIPLE.	ne covolutioner. e FEC service interf IA lane is fed into" <i>nse Status</i> C			not for symbo Suggestea Move Response ACCE	the circular shift bl). <i>IRemedy</i> the quoted sente PT IN PRINCIPL	(circular shift would be the nce to 177.4.3. <i>Response Status</i> C	same regardless	,
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr Response ACCEPT IN PF Implement the	d data is fed into th ly from data from th from deskewed PM <i>Respo</i> PRINCIPLE. e suggested remed	ne covolutioner. e FEC service interf IA lane is fed into" <i>nse Status</i> C ly with editorial licen	se.	ito"	not for symbo Suggestea Move Response ACCE	the circular shift bl). <i>IRemedy</i> the quoted sente PT IN PRINCIPL	(circular shift would be the nce to 177.4.3. <i>Response Status</i> C E.	same regardless	,
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr Response ACCEPT IN PF Implement the Cl 177 SC 1	d data is fed into the ly input data from the from deskewed PM <i>Respo</i> PRINCIPLE. e suggested remed 177.4.2.5	e FEC service interf. A lane is fed into" <i>nse Status</i> C ly with editorial licen			not for symbo Suggested Move Response ACCE Impler	the circular shift bl). dRemedy the quoted sente PT IN PRINCIPL ment the suggest SC 177.4.5	(circular shift would be the nce to 177.4.3. <i>Response Status</i> C .E. ed remedy with editorial lic	ense.	of the bit order within a
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr Response ACCEPT IN PF Implement the CI 177 SC 1 Opsasnick, Eugene	d data is fed into the ly input data from the from deskewed PM <i>Respo</i> PRINCIPLE. e suggested remed 177.4.2.5 ne	e FEC service interf A lane is fed into" <i>nse Status</i> C ly with editorial licen P 311 Broadcom	se.	# [489	not for symbol Suggested Move f Response ACCE Impler	the circular shift ol). <i>dRemedy</i> the quoted sente PT IN PRINCIPL ment the suggest SC 177.4.5	(circular shift would be the nce to 177.4.3. <i>Response Status</i> C E. ed remedy with editorial lic <i>P</i> 313	ense.	of the bit order within a # 281
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr Response ACCEPT IN PF Implement the Cl 177 SC 1 Opsasnick, Eugene Comment Type	d data is fed into the d data is fed into the from deskewed PM Respon- PRINCIPLE. e suggested remeden 177.4.2.5 me E Comm	e FEC service interf A lane is fed into" <i>nse Status</i> C ly with editorial licen P311 Broadcom <i>nent Status</i> A	se.	ito"	not for symbol Suggested Move f Response ACCE Impler Cl 177 Ran, Adee Comment	the circular shift ol). <i>dRemedy</i> the quoted sente PT IN PRINCIPL ment the suggest SC 177.4.5	(circular shift would be the nce to 177.4.3. <i>Response Status</i> C .E. ed remedy with editorial lic <i>P</i> 313 Cisco	ense.	of the bit order within a
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr Response ACCEPT IN PF Implement the Cl 177 SC 1 Opsasnick, Eugene Comment Type	d data is fed into the ly input data from the from deskewed PM <i>Respo</i> PRINCIPLE. e suggested remed 177.4.2.5 ne	e FEC service interf A lane is fed into" <i>nse Status</i> C ly with editorial licen P311 Broadcom <i>nent Status</i> A	se.	# [489	not for symbol Suggested Move f Response ACCE Impler Cl 177 Ran, Adee Comment	r the circular shift ol). dRemedy the quoted sente SPT IN PRINCIPL ment the suggest SC 177.4.5 e Type ER ng commas	(circular shift would be the nce to 177.4.3. <i>Response Status</i> C .E. ed remedy with editorial lic <i>P</i> 313 Cisco	ense.	of the bit order within a # 281
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr Response ACCEPT IN PF Implement the CI 177 SC 1 Opsasnick, Eugene Comment Type The plural of Pf SuggestedRemedy	d data is fed into the from deskewed PM Respon- PRINCIPLE. e suggested remed 177.4.2.5 ne E Comm PCSL ahouls be PC	e FEC service interf. A lane is fed into" <i>nse Status</i> C dy with editorial licen P311 Broadcom <i>nent Status</i> A CSLs, not PCSLS.	se.	# [489	not for symbol Suggested Move Response ACCE Impler Cl 177 Ran, Adee Comment Missin Suggested Add a	the circular shift ol). dRemedy the quoted sente SPT IN PRINCIPL ment the suggest SC 177.4.5 e Type ER ng commas dRemedy comma after "flo	(circular shift would be the nce to 177.4.3. <i>Response Status</i> C .E. ed remedy with editorial lic <i>P</i> 313 Cisco <i>Comment Status</i> A ws".	ense.	of the bit order within a # 281
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr Response ACCEPT IN PF Implement the CI 177 SC 1 Opsasnick, Eugene Comment Type The plural of Pf SuggestedRemedy	d data is fed into the dy input data from the from deskewed PM Respon- PRINCIPLE. e suggested remed 177.4.2.5 ne E Comm PCSL ahouls be PC	e FEC service interf. A lane is fed into" <i>nse Status</i> C dy with editorial licen P311 Broadcom <i>nent Status</i> A CSLs, not PCSLS.	se.	# [489	not for symbol Suggested Move Response ACCE Impler Cl 177 Ran, Adee Comment Missin Suggested Add a	the circular shift ol). dRemedy the quoted sente SPT IN PRINCIPL ment the suggest SC 177.4.5 e Type ER ng commas dRemedy comma after "flo	(circular shift would be the nce to 177.4.3. <i>Response Status</i> C E. ed remedy with editorial lic <i>P</i> 313 Cisco <i>Comment Status</i> A	ense.	of the bit order within a # 281
Comment Type The deskewed SuggestedRemedy Change " The i to: "The data fr Response ACCEPT IN PF Implement the Cl 177 SC 1 Opsasnick, Eugene Comment Type The plural of Pf SuggestedRemedy	d data is fed into the d data is fed into the from deskewed PM Respon- PRINCIPLE. e suggested remeden 177.4.2.5 me E Comm PCSL ahouls be PO dy SLS" to "PCSLs" (Inter- SLS" to "PCSLs" (e FEC service interf. A lane is fed into" <i>nse Status</i> C dy with editorial licen P311 Broadcom <i>nent Status</i> A CSLs, not PCSLS.	se.	# [489	not for symbol Suggested Move Response ACCE Impler Cl 177 Ran, Adee Comment Missin Suggested Add a	the circular shift ol). dRemedy the quoted sente PT IN PRINCIPL ment the suggest SC 177.4.5 e Type ER to commas dRemedy comma after "flo commas before ar	(circular shift would be the nce to 177.4.3. <i>Response Status</i> C .E. ed remedy with editorial lic <i>P</i> 313 Cisco <i>Comment Status</i> A ws".	ense.	of the bit order within a # 281

C/ 177 SC 177.4.5

	SC 177.4.5	P 313	L 51	# 282
Ran, Adee		Cisco		
Comment T	Type ER	Comment Status A		(bucket)
	eger i is a scalar, istances)	not a vector, so it should no	t be in boldface	here (it is not bold in
Suggested	Remedy			
Remove	e the boldface fo	rmat from i.		
Response		Response Status C		
ACCEP	РТ.			
C/ 177	SC 177.4.5	P 313	L 51	# 283
Ran, Adee		Cisco		
Comment T	Type TR	Comment Status A		(bucket
per Equ	uation 177-2 thes	s are the binary representat e are actually the binary coe eates α_i. I suspect these ar	efficients in the li	
Move th be expr "binary <i>Response</i>	ne quoted senter ressed as a linea coefficients of th	nce after the subsequent one r combination), and change le linear combination that cre Response Status C	e (which states th "binary vector co	
Move th be expr "binary <i>Response</i> ACCEP	ne quoted senter ressed as a linea coefficients of th PT IN PRINCIPLE	r combination), and change e linear combination that cre <i>Response Status</i> C	e (which states th "binary vector co eates".	
be expr "binary <i>Response</i> ACCEP	ne quoted senter ressed as a linea coefficients of th PT IN PRINCIPLE	r combination), and change e linear combination that cre <i>Response Status</i> C E.	e (which states th "binary vector co eates".	
Move th be expr "binary <i>Response</i> ACCEP Implem	ne quoted senter ressed as a linea coefficients of th PT IN PRINCIPLE tent the suggeste	r combination), and change le linear combination that cre <i>Response Status</i> C E. ed remedy with editorial licer	e (which states th "binary vector co eates". se.	prresponding to" to
Move th be expr "binary <i>Response</i> ACCEP Implem <i>Cl</i> 177 Ran, Adee	The quoted senter ressed as a linea coefficients of the PT IN PRINCIPLE ent the suggeste SC 177.4.5	r combination), and change le linear combination that cre <i>Response Status</i> C <u>E.</u> led remedy with editorial licer <i>P</i> 314	e (which states th "binary vector co eates". se.	prresponding to" to
Nove the be expriminary Response ACCEP Implem Cl 177 Ran, Adee Comment T The second	The quoted senter ressed as a linea coefficients of the PT IN PRINCIPLE ent the suggeste SC 177.4.5 Type ER cond sentence in es of "and", and	r combination), and change le linear combination that cre <i>Response Status</i> C d remedy with editorial licer <i>P</i> 314 Cisco	e (which states th "binary vector co eates". se. <u>L1</u> lines and includ difficult to follow	# 284 <i>(bucket,</i> es 6 commas, 3
Response ACCEP Implem Cl 177 Ran, Adee Comment T The sec instance	The quoted senter ressed as a linea coefficients of the PT IN PRINCIPLE ent the suggeste SC 177.4.5 SC 177.4.5 Type ER cond sentence in es of "and", and ncludes "first", but	r combination), and change le linear combination that cre <i>Response Status</i> C d remedy with editorial licer P314 Cisco <i>Comment Status</i> A the first paragraph spans 5 2 instances of "where". It is	e (which states th "binary vector co eates". se. <u>L1</u> lines and includ difficult to follow	# 284 <i>(bucket,</i> es 6 commas, 3
Move the be expri- "binary Response ACCEP Implem Cl 177 Ran, Adee Comment T The sec instance It also in Suggestedf	The quoted senter ressed as a linea coefficients of the PT IN PRINCIPLE ent the suggeste SC 177.4.5 Type ER cond sentence in es of "and", and ncludes "first", br Remedy	r combination), and change le linear combination that cre <i>Response Status</i> C d remedy with editorial licer P314 Cisco <i>Comment Status</i> A the first paragraph spans 5 2 instances of "where". It is	e (which states th "binary vector co eates". se. <u>L1</u> lines and includ difficult to follow her steps.	# 284 (bucket) es 6 commas, 3
Move the be expri- "binary Response ACCEP Implem Cl 177 Ran, Adee Comment T The sec instance It also in Suggestedf	The quoted senter ressed as a linea coefficients of the PT IN PRINCIPLE ent the suggeste SC 177.4.5 Type ER cond sentence in es of "and", and ncludes "first", br Remedy	r combination), and change le linear combination that cre <i>Response Status</i> C E. ed remedy with editorial licer <i>P</i> 314 Cisco <i>Comment Status</i> A of the first paragraph spans 5 2 instances of "where". It is ut there seems to be no furth	e (which states th "binary vector co eates". se. <u>L1</u> lines and includ difficult to follow her steps.	# 284 (bucket) es 6 commas, 3

C/ 177 SC 177.4.7 P315 L10 # 285 Ran, Adee Cisco Comment Type Comment Status A TR (bucket) "The rate ... is ... " The exact rate depends on the input rate which has some tolerance. It would be helpful for the reader to write the ratio of the output rate and the input rate. This information should preferably be placed in the "summary of functions" in 117.1.3 as well. SuggestedRemedy Change "the rate" to "the nominal rate". Add a statement about the ratio, here and in 177.1.3. Response Response Status C ACCEPT IN PRINCIPLE. Implement the suggested remedy with editorial license. C/ 177 SC 177.4.7.1 P316 L6 # 421 Dudek, Mike Marvell Comment Type **T** Comment Status A (bucket)

The FAS descriptions in table 177-4 have the MSB transmitted first as other clauses do and as is shown with the vectors in Annex 177A. In other clauses the MSB is also transmitted first and is shown as the left most bit in diagrams. Figure 177-8 however might be interpreted as the FAS being transmitted in the other order.

SuggestedRemedy

Clarify Figure 177-8 to match the text and Annex

Response Response Status C

ACCEPT IN PRINCIPLE.

Implement the suggested remedy with editorial license.

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 177 SC 177.4.7.1 Page 19 of 48 1/21/2025 9:54:04 AM

C/ 177	SC 177.4.9	P317	L 4	# 286	C/ 177
Ran, Adee	e	Cisco			Slavick, Jeff
Comment	Type TR	Comment Status A		(bucket)	Comment Typ
		e used to test adjacent layer		perform testing	Introducto
betwee	en an Inner FEC	and external testing equipme	ent"		SuggestedRei
Which	adjacent layer ir	nterfaces? and what is "testin	g between"?		Add the fo PMD serv
		only in the output direction, so			Response
		(which is then used with exte	rnal testing equ	Jipment).	ACCEPT.
Suggested					
Chang "If imp	,	test patterns can be used to	drive the PMD	service interface for	C/ 177
	esting purposes"				Opsasnick, E
Response		Response Status C			Comment Typ
	PT IN PRINCIPL	E. ed remedy with editorial licer	ise		The secor Also, this
· · ·					SuggestedRe
C/ 177	SC 177.4.9	P 317	L 5	# 287	Suggest o
Ran, Adee		Cisco			"If ILT fun the preco
Comment	Type TR	Comment Status A		(bucket)	is disable
lane.	·	happens when more than on	0		partner tra
		e 120 which are referenced i the case where two are enab			to: "If inter-su
	hat some of the p bits per lane.	patterns in clause 120 are no	t per-lane but h	ere all patterns have	(see 178E requested transmitte
Suggested	Remedy				Response
genera	ators on a lane at	ing that all generators are pe fects only that lane, and that n the same lane is not specifi	the behavior w		ACCEPT Implemen

Response

Response Status C

ACCEPT IN PRINCIPLE.

Implement the suggested remedy with editorial license.

C/ 177	SC	177.5	P317	L 27	# 123
Slavick, Je	eff		Broadcom		
Comment	Туре	TR	Comment Status A		(bucket)
Introdu	ctory :	sentence o	could be useful		

emedy

following to 177.5 "The following processes are performed independently on each rvice interface input lane.

Response ACCEPT.		Response Status C		
C/ 177	SC 177.5.1.1	P 317	L 43	# 491
Opsasnic	k, Eugene	Broadcom		
Comment Type E		Comment Status A		(bucket)

ond and third sentences of the third paragraph of 177.5.1.1 is hard to understand. s is the first use of "ILT" in this clause and it should be spelled out.

emedy

changing:

nction is enabled by the management variable mr_training_enable (see 178B.15), oding state on the link partner transmitter is requested using the ILT function. If ILT ed by the management variable mr_training_enable, the precoding state on the link ransmitter is set by management."

sublayer link training (ILT) is enabled by the control variable mr_training_enable B.15), precoding of the received data is enabled at the link partner (transmitter) as ed by the receiver using ILT. If ILT is disabled, then the precoding of data at the ter is controlled by a management entity."

Response Status C

T IN PRINCIPLE.

ent the suggested remedy with editorial license.

C/ 177 SC 177.5.1.1

C/ 177	SC 177.5.2	P 318	L 4	# 501	C/ 177	SC	177.5.2	P 318	L 7	# 289
Opsasnick,	, Eugene	Broadcom			Ran, Adee			Cisco		
Comment T	Type ER	Comment Status A		(bucket)	Comment	Туре	TR	Comment Status A		(bucket)
Extra "f	to" and missing	verb in second sentence of 1	77.5.2.					rleaving (each pair of bits co	rresponding to	a PAM4 symbol) is
Suggested	Remedy				perform	ned to	eight Inne	r FEC flows"		
	ight codewords i	nserted as pad (see 177.4.7) re the received data is proce		me to the data stream			vhat "blind se is incon	' refers to in this operation. "b sistent.	olind" is no defir	ned in 802.3 and its
to:					Perhap	os "initi	al" is more	e adequate here.		
		nserted as pad (see 177.4.7) the received data is proces		me the data stream and	Suggested	Reme	dy			
Response		Response Status C					d" to "initia subclause	I" in the quoted sentence and	d the one with th	ne other instance of
ACCEF	PT.				Response			Response Status C		
C/ 177	SC 177.5.2	P 318	L 7	# 290			PRINCIPL			
Ran, Adee		Cisco					irst senten leinterleavi	ce to: ng (each pair of bits correspo	onding to a PAN	14 symbol) is performed
Comment 7	Type TR	Comment Status A		(bucket)				s. The initial position is not sp		
		terleaving and synchronizatio	n is performed	on bit pairs, since they	C/ 177	SC	177.5.2	P 318	L19	# 116
	rely on the FEC	decoder. airs is likely hard decoding of	the input symb	ols into PAM4 and then	Slavick. Je			Broadcom		
into bit			the input syme		Comment		Е	Comment Status A		(bucket
		nterleaving is later performec urrently not stated.	on the input s	ymbols, which are more			_	can identify flow 0 and how	its done should	()
Suggested	Remedy				Suggested	Reme	dy			
		e alignment found by the initia			Combi	ne par	agraph 4 8	5 in 177.5.2.		
hard de	ecoding is used t	or deinterleaving of soft input	s into the Inne	r FEC decoding.	Response			Response Status C		
	PT IN PRINCIPL	Response Status C E. ed remedy with editorial licen	se.				PRINCIPL e suggeste	E. ed remedy with editorial licen	se.	

C/ 177 SC 177.5.2

Cl 177	SC 177.5.4	P 319	L10	# 291	Cl 177	SC 177.5.4	P319) <i>L</i> 11	# 292
Ran, Adee	e	Cisco			Ran, Adee		Cisco		
Comment	Type E	Comment Status A		(bucket)	Comment	Type TR	Comment Status	A	(bucket)
two bit		er is a soft-decision decoder th red PAM4 symbols" red.	nat requires a h	igher resolution than	Also, it decode	t is not stated wh er does not mark	n capability of the deco at happens when a co the data as error in ar rns that appear in this	deword is uncorrectal by way (since it is an i	nner code) but it is not
Suggested	lRemedy				Comp	are to the RS-FF	C decoder specificatio	n in 91533 (where t	here are normative
	nner FEC decodi	ng assumes soft-decision ope each received symbol".	eration that requ	ires a resolution of	specifi	cations for corre	ction capability and un	correctable error mark	king).
Response		Response Status C				important inform nentation.	nation for testing, moni	toring and analyzing t	he performance of an
	PT IN PRINCIPL ment the suggest	E. ed remedy with editorial licens	Se.				is based on slide 9 of g/3/df/public/22_05/22	_0517/bliss_3df_01a_	_220517.pdf.
C/ 177	SC 177.5.4	P 319	L10	# 488	Suggested	Remedy			
Opsasnick	k, Eugene	Broadcom				ome test e.g.		anda ta saktak kanalah	states and data and the sec
	<i>Type</i> E n tense of "PAM4	Comment Status A 4 symbols".		(bucket)	to one decode	bit error and mo ed correctly will c	st codewords with up t contain at least four bit	o three bit errors. Coo	ecision would result in up lewords that are not
Suggested	Remedy				Or mo	difications of the	above if necessary.		
		eceived PAM4 symbols." red PAM4 symbol."					s for additional text (eil ntributions in this area		otherwise), add an
Response		Response Status C			Response	-	Response Status		
ACCE	PT.					PT IN PRINCIPL	E. ed remedy with editoria	al license.	
C/ 177	SC 177.5.4	P 319	L 11	# 293	C/ 177	SC 177.5.41	.5 P319) L 52	# 118
Ran, Adee	e	Cisco				-		-	# 110
Comment	51	Comment Status A		(bucket)	Slavick, Je		Broadc Comment Status		(hughat)
"The d value"	lecoder evaluates	s the incoming codeword and	determines the	most likely codeword	Comment We're		havior of bin 3, so star		<i>(bucket)</i> be a bit misleading
		der is not a codeword (a code vector of "soft" samples that				-	ce to read "Error bin 3	incrments when three	e or more bits are
Suggested	lRemedy								
		er evaluates the incoming block kely codeword value".	ck of 64 rx_sym	bol inputs and					
Response		Response Status C			Impien	nent the suggest	ed remedy with editoria	ai license.	
	PT IN PRINCIPL ment the suggest	E. ed remedy with editorial licens	se.						
		d ER/editorial required GR/g	•					C/ 177	Page 22 of 48
JOMMEN	I STATUS: D/dis	spatched A/accepted R/rejec	ted RESPON	ISE STATUS: O/open W/wr	itten C/closed	I Z/withdrawn		SC 177.5.41.5	1/21/2025 9:54:04 /

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

	Page 2
1.5	1/21/2

Ran, Adee Comment Type El		P 319	L 21	# 294	C/ 177	SC 177.5.4	.1.5 <i>P</i> 319	L 48	# 13
omment Type Fi		Cisco			Brown, Ma	tt	Alphawa	ave Semi	
	Comment	Status A		(bucket)	Comment	Туре Т	Comment Status A		(bucket)
corrected codewo		0		codewords as information about	lane, th registe	nis index "i" wil	Illy used for the lane num I cause some ambiguity in or similar bin counters de	n the management v	ariables and MDIO
the type of codew	ord it came from.	The counter is in	ternal to the deco	der.	Suggested	Remedy			
SuggestedRemedy							defined in 177.5.4.1.5 cha	0	'k". Also update Table
Change to	lecoder will treat a	ov miscorrected	codeword as a co	rrected codeword."		and definitions	in Clause 45 appropriate		
Response	Response	•			Response		Response Status C	;	
ACCEPT IN PRIN	,	Status C			ACCE	PT.			
Change to:					C/ 177	SC 177.5.4	.1.5 P319	L 49	# 395
"The Inner FEC d Implement with e	ecoder interprets n	niscorrected coc	lewords as correc	ed codewords."	Shrikhande	e, Kapil	Marvell		
	illonal license.				Comment	Туре Т	Comment Status A	L .	(bucket)
2/177 SC 177	5.4.1.1	P 319	L 24	# 117	The de	finition of the i	nner fec codeword error b	oin counters in 177.5	.4.1.5 could be edited to
Slavick, Jeff		Broadcom			better a	align to the FE	C codeword error bin cou	nter in 175.2.5.3.	
Comment Type T	Comment	Status A		(bucket)	Suggested	Remedy			
There is a referer	ce to clause 45 he	re, I think we wa	ant that all to be in	the tables	Align b	in counter defi	nition format in 177.5.4.1	.5 to the bin counter	in 175.2.5.3.
SuggestedRemedy					Response		Response Status C	;	
Delete the "(see 4 In 177.5.4.1 add t variables is speci	he following senete	ence "Mapping o	of the counters to	nanagement		PT IN PRINCIE the using the res	PLE. sponse to comment #11.		
Response		Statua C			C/ 177	SC 177.5.7	P 320	L15	# 122
ACCEPT IN PRIN	Response				Slavick, Je	ff	Broadco	om	
	ggested remedy w	th editorial licen	se.		Comment	Type TR	Comment Status A		(bucket)
7 177 SC 177	5.4.1.4	P 319	L 45	# 108			e data stream to its origina gnial data from the SM-PI		have errors in the so we far end SM-PMA not the
/li, Guangcan		Huawei Techr	ologies Co., Ltd		local o	ne.			
Comment Type El		Status A		(bucket)	Suggested	Remedy			
inner FEC bin cou BER is implicit.	nters can be used	to roughly meas	sure pre-Inner FE	CBER. Pre-FEC			e original data received f received to be compatible		
SuggestedRemedy					Response		Response Status C	;	
ale a service dia Mariana dia	ner-FEC BER"					PT IN PRINCI			
change to "pre-in	-	Status C			Implem	nent the sugge	sted remedy with editoria	l license.	
change to "pre-in Response	Response								

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

Cl	177
SC	177.5.7

C/ 177	SC 177.6.2.1	P320	L 33	# 493	C/ 177	SC 177.6.2.1	P 320	L53	# 88
Opsasnick,	-	Broadcom		"	Opsasnick, E	-	Broadcom	- 35	" <u>00</u>
Comment T		Comment Status A		(bucket)	Comment Ty	0	Comment Status A		reset variable
	ord AND should b			(Ducher)			in the definition of the "res	et" variable. but	
SuggestedF	Remedy				defined e	except through	a cross-reference to 45.2.1. stead be used for the cross	1.1. The MDIO	control variable table
		flows AND the Inner FEC and the Inner FEC"			SuggestedRe	emedy			
Response	C C	Response Status C			Remove	the cross-refer	ence text "(see 45.2.1.1.1)"	from the definiti	ion of reset in 177.6.2.1.
ACCEP	PT.						EC_reset" to the list of varia a management entity and is		
Cl 177 Ran, Adee	SC 177.6.2.1	P 320 Cisco	L 34	# 296			IDIO control variables table .6.2.1 and 45.2.1.1 and the		
Comment T	Type ER	Comment Status A		(bucket)	Response		Response Status C	0	
The def		ced does not (strictly) cover t		sync_now <x> is true</x>	//0021 /	IN PRINCIPLE			
for all e Also, "a SuggestedF Change Change Response ACCEP	eight flows but the and" here has no <i>Remedy</i> e "set to false wh e "AND" to "and". PT.	Response Status C	not be capitaliz	false otherwise".	CRG: https://w Impleme Annex 1 slide 17.	ww.ieee802.org nt the proposed 78B align with t	c "Reset variables" in the fo y/3/dj/public/25_01/brown_3 d changes in slides 10 to 18 he resets defined for PMA a license.	dj_03a_2501.pd in brown_3dj_0	If 03a_2501, except that in
for all e Also, "a SuggestedF Change Change ACCEP Cl 177	eight flows but the and" here has no Remedy e "set to false wh e "AND" to "and". PT. SC 177.6.2.1	special meaning and should en sync_flow <x> is false for a Response Status C P320</x>	not be capitaliz		CRG: https://w Impleme Annex 1 slide 17.	ww.ieee802.org nt the proposed 78B align with t	y/3/dj/public/25_01/brown_3 d changes in slides 10 to 18 he resets defined for PMA a	dj_03a_2501.pd in brown_3dj_0	If 03a_2501, except that in
for all e Also, "a SuggestedF Change Change Response ACCEP Cl 177 Opsasnick,	eight flows but the and" here has no <i>Remedy</i> e "set to false whe e "AND" to "and". PT. SC 177.6.2.1 , Eugene	special meaning and should en sync_flow <x> is false for a <i>Response Status</i> C <i>P</i>320 Broadcom</x>	not be capitaliz	false otherwise". # 492	CRG: https://w Impleme Annex 1 slide 17. Impleme Cl 177	ww.ieee802.org nt the proposed 78B align with t nt with editorial SC 177.6.2.1	y/3/dj/public/25_01/brown_3 d changes in slides 10 to 18 he resets defined for PMA a license.	dj_03a_2501.pd in brown_3dj_0 and PMD, rather	If 03a_2501, except that in than as proposed on
for all e Also, "a SuggestedF Change Change ACCEP Cl 177 Opsasnick, Comment T	eight flows but the and" here has no Remedy e "set to false whe e "AND" to "and". PT. SC 177.6.2.1 , Eugene Type ER	special meaning and should en sync_flow <x> is false for a <i>Response Status</i> C <i>P</i>320 Broadcom <i>Comment Status</i> A</x>	not be capitaliz	false otherwise".	CRG: https://w Impleme Annex 1 slide 17. Impleme C/ 177 Opsasnick, F	ww.ieee802.org nt the proposed 78B align with t nt with editorial SC 177.6.2.1 Eugene	y/3/dj/public/25_01/brown_3 d changes in slides 10 to 18 he resets defined for PMA a license. P321	dj_03a_2501.pd in brown_3dj_0 and PMD, rather	If 03a_2501, except that in than as proposed on
for all e Also, "a SuggestedF Change Change ACCEP Cl 177 Opsasnick, Comment T The wo SuggestedF	eight flows but the and" here has no Remedy e "set to false wh e "AND" to "and". PT. SC 177.6.2.1 , Eugene Type ER ord boolean shoul Remedy	special meaning and should en sync_flow <x> is false for a <i>Response Status</i> C <i>P</i>320 Broadcom <i>Comment Status</i> A d be capitalized.</x>	any x" to "set to	false otherwise". # <u>492</u> (bucket)	CRG: https://w Impleme Annex 1 slide 17. Impleme C/ 177 Opsasnick, F Comment Ty The defin	ww.ieee802.org nt the proposed 78B align with t nt with editorial SC 177.6.2.1 Eugene <i>pe</i> T nition of the var	y/3/dj/public/25_01/brown_3 d changes in slides 10 to 18 he resets defined for PMA a license. P 321 Broadcom	dj_03a_2501.pd 3 in brown_3dj_0 and PMD, rather	ff)3a_2501, except that in than as proposed on # 498 (bucke
for all e Also, "a SuggestedF Change Change ACCEP CI 177 Opsasnick, Comment T The wo SuggestedF Replace fas_vali Inner_F slip_dor	eight flows but the and" here has no Remedy e "set to false whi e "AND" to "and". PT. SC 177.6.2.1 , Eugene Type ER ord boolean shoul Remedy e "boolean" with iid FEC_sync_status ine	special meaning and should en sync_flow <x> is false for a <i>Response Status</i> C <i>P</i>320 Broadcom <i>Comment Status</i> A d be capitalized. "Boolean" in the definition of</x>	any x" to "set to	false otherwise". # <u>492</u> (bucket)	CRG: https://w Impleme Annex 1 slide 17. Impleme Cl 177 Opsasnick, E Comment Ty The defin now be s SuggestedRo Replace:	ww.ieee802.org nt the proposed 78B align with t nt with editorial SC 177.6.2.1 Eugene pe T nition of the var iet by two sepa emedy "A Boolean va	y/3/dj/public/25_01/brown_3 d changes in slides 10 to 18 he resets defined for PMA a license. P321 Broadcom <i>Comment Status</i> A iable restart_inner_fec_syne rate processes.	dj_03a_2501.pd 3 in brown_3dj_0 and PMD, rather <i>L</i> 2 c states it is set er FEC synchron	ff)3a_2501, except that in than as proposed on # 498 (bucke by a process, but it can hization process"
for all e Also, "a SuggestedF Change Change ACCEP CI 177 Opsasnick, Comment T The wo SuggestedF Replace fas_vali Inner_F	eight flows but the and" here has no Remedy e "set to false whi e "AND" to "and". PT. SC 177.6.2.1 , Eugene Fype ER ord boolean shoul Remedy e "boolean" with id FEC_sync_status ine	special meaning and should en sync_flow <x> is false for a <i>Response Status</i> C <i>P</i>320 Broadcom <i>Comment Status</i> A d be capitalized. "Boolean" in the definition of</x>	any x" to "set to	false otherwise". # <u>492</u> (bucket)	CRG: https://w Impleme Annex 1 slide 17. Impleme Cl 177 Opsasnick, E Comment Ty The defin now be s SuggestedRe Replace: with: "A l	ww.ieee802.org nt the proposed 78B align with t nt with editorial SC 177.6.2.1 Eugene pe T nition of the var iet by two sepa emedy "A Boolean va	y/3/dj/public/25_01/brown_3 d changes in slides 10 to 18 he resets defined for PMA a license. P321 Broadcom <i>Comment Status</i> A iable restart_inner_fec_syntrate processes. riable that is set by the Inner FE	dj_03a_2501.pd 3 in brown_3dj_0 and PMD, rather <i>L</i> 2 c states it is set er FEC synchron	ff)3a_2501, except that in than as proposed on # 498 (bucket by a process, but it can hization process"
for all e Also, "a SuggestedF Change Change ACCEP CI 177 Opsasnick, Comment T The wo SuggestedF Replace fas_vali Inner_F slip_doi test_cw	eight flows but the and" here has no Remedy e "set to false whi e "AND" to "and". PT. SC 177.6.2.1 , Eugene Fype ER ord boolean shoul Remedy e "boolean" with id FEC_sync_status ine	special meaning and should en sync_flow <x> is false for a <i>Response Status</i> C <i>P</i>320 Broadcom <i>Comment Status</i> A d be capitalized. "Boolean" in the definition of</x>	any x" to "set to	false otherwise". # <u>492</u> (bucket)	CRG: https://w Impleme Annex 1 slide 17. Impleme Cl 177 Opsasnick, E Comment Ty The defin now be s SuggestedRe Replace: with: "A l	ww.ieee802.org nt the proposed 78B align with t nt with editorial SC 177.6.2.1 Eugene pe T nition of the var iet by two sepa emedy "A Boolean variabl	y/3/dj/public/25_01/brown_3 d changes in slides 10 to 18 he resets defined for PMA a license. P321 Broadcom <i>Comment Status</i> A iable restart_inner_fec_syntrate processes. riable that is set by the Inner FE	dj_03a_2501.pd 3 in brown_3dj_0 and PMD, rather <i>L</i> 2 c states it is set er FEC synchron	ff)3a_2501, except that in than as proposed on # 498 (bucke by a process, but it can hization process"

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ **177** SC **177.6.2.1**

C/ 177	SC 177.6.2.1	P 321	L13	# 497	C/ 177	SC	177.6.3	P 321	L 53	# 499
Opsasnick	k, Eugene	Broadcom			Opsasnick	k, Euge	ene	Broadcom		
Comment	Type TR	Comment Status A		(bucket)	Comment	Туре	TR	Comment Status A		(bucket)
flow of	f Inner FEC"? Al	flow <x> should be made more so, a range of values should be</x>			and sp	cell out		it that the 8 self-sync proce synchronization. Should als lane.		
Suggested					Suggested		•			
"A Boo	plean variable th	definition of sync_flow <x> from at is set to true when the recein Inner FEC, where x = 0:7"</x>		he correct boundary of	Chang "The li	ge: nner FE	EC sublay	er shall implement eight se boundaries of the Inner FEC		as shown in Figure
"A Boo an inn	er FEC flow, whe tual inner FEC fl	-			Figure	9 177–1	0 for each	er shall implement eight se i input lane in the receive d v on an Inner FEC flow to ic	rection. Each syn	chronization process
		Response Status C			codew	ords."				
	PT IN PRINCIPL	_⊏. ted remedy with editorial licens	se.		Response			Response Status C		
C/ 177	SC 177.6.2.3		L 45	# 502			PRINCIPL	E. ed remedy with editorial lice	ense.	
Opsasnick	k, Eugene	Broadcom			C/ 177	SC	177.6.3	P 321	L 54	# 500
Comment	Type TR	Comment Status A		(bucket)	Opsasnick			Broadcom		
		nt" is "Counts the interval of In is the interval value? How ma			Comment	Туре	TR	Comment Status A		(bucket,
Suggested	Remedy				Should	d add a	statemer	t that a PAD detection proc	ess is required fo	r each input lane.
		plicitly state the number of coc to the subclause with this info		d to be counted or else	Suggested Chang	ge:	-			
Response		Response Status C			"Pad d	detectio	on process	follows the process shown	in Figure 177–10	."
	PT IN PRINCIPI cross-reference	LE. to the subclause, and implem	ent this change	e with editorial license.				ection process as illustrated or each input lane in the red		ram in Figure 177–10
					Response ACCE			Response Status C		

C/ 177 SC 177.6.3

C/ 177	SC 177.6.3	P 322	L 4	# 507	C/ 177	SC 177.6.3	P 322	L 21	# 506
Opsasnick,	Eugene	Broadcom			Opsasnick	k, Eugene	Broadcom		
Comment T In figure		Comment Status A ce is needed between the logic	cal-OR (+) ope	<i>(bucket)</i> rator and variable name.	<i>Comment</i> In figu	51	Comment Status A new state UNSYNC could use	a better name.	(bucket)
SuggestedF	Remedy				Suggested	Remedy			
Replace	e "+restart_inne	r_fec_sync" with "+ restart_inr	ner_fec_sync".		Renan	ne state "UNSY	NC" to be "RESTART_SYNC"	•	
And ma	ke the same ch	ange in Figure 177-11 on pag	e 323. line 4.		Response		Response Status C		
Response		Response Status C	,		ACCE	PT.			
ACCEP	·Τ.				C/ 177	SC 177.6.3	P 322	L 22	# 119
C/ 177	SC 177.6.3	P322	L10	# 504	Slavick, Je	eff	Broadcom		
Opsasnick,		Broadcom			Comment	Type TR	Comment Status A		(bucket)
Comment T	ype TR	Comment Status A	INNER_FEC_	<i>(bucket)</i> SYNC_INIT is incorrect.	any sy		from INNER_FEC_SYNC can and in that state we set it fals e.		
SuggestedF	Remedy				Suggested	lRemedy			
Change	e the condition f	rom:"all_synced" to "UCT"					none_synced" A Boolean v		
Response ACCEP	РТ.	Response Status C			sync_1 any x.		for all eight flows and is set to	false when syne	c_tiow <x> is true for</x>
CI 177	SC 177.6.3	P 322	L 12	# 505	In Fig. to be l		the all_sync criteria from INN	ER_FEC_SYNC	C_INIT to GET_BLOCK
Opsasnick,	Eugene	Broadcom			In Fig	177-11 replace	the restart_inner_fec_sync cri	teria for entering	FAS LOCK INIT with
Comment T	ype ER	Comment Status A		(bucket)	•	synced			,
		/_CHECK_3 state, the extra sp should be removed.	bace between v	variable names and	Response		Response Status C		
SuggestedF	Remedy					PT IN PRINCIP	LE. ponse to comment #504.		
	e "cw_cnt ++" w	ith "cw_cnt++"			C/ 177	SC 177.6.3	P323	L 9	# 509
	"bad_cw_cnt +	+" with "bad_cw_cnt++"			Opsasnick	k, Eugene	Broadcom		
Response		Response Status C			Comment	Type TR	Comment Status A		(bucket)
ACCEP	ΥТ.					re 177-11, there ent #389.	e is an incomplete change to F	AS_LOCK_INIT	state from D1.2
					Suggested	lRemedy			
						S_LOCK_INIT s ock <= false"	tate, add:		
					Response		Response Status C		
					ACCE	PT.			
		ed ER/editorial required GR/g				d Z/withdrown	C/ 17 SC 17		Page 26 of 48 1/21/2025 9:54:04

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SC 177.6.3 1/21/2025 9:54:04 AM SORT ORDER: Clause, Subclause, page, line

C/ 177 S	C 177.6.3	P 323	L13	# 510	C/ 177	SC 1	177.10	P 326	L 9	# 17
Opsasnick, Eug	gene	Broadcom			Brown, Ma	att		Alphawave Se	mi	
Comment Type	ER	Comment Status A		(bucket)	Comment	Туре	т	Comment Status A		(bucket)
		D_FAS state, the extra space should be removed.	between variabl	e names and				ble bits are never defined in th	is clause nor a	are they necessary.
SuggestedRem	nedy				Suggested	-		s from Table 177-6 and delete	the editor's n	ote below
Replace "b	ad_fas_cnt	++" with "bad_fas_cnt++"			Response					
Response ACCEPT.		Response Status C			ACCE		RINCIPL the resp	Response Status C E. onse to comment #1.		
C/ 177 S	C 177.10	P 325	L 9	# 147	C/ 177	SC 1	177.10.	P 325	L 9	# 298
He, Xiang		Huawei			Ran, Adee	;		Cisco		
Comment Type	т	Comment Status A		(bucket)	Comment	Туре	TR	Comment Status A		(bucket)
	enable lane d in the next	e x" variables are not defined o	or backed by any	y proposal, and should				ontrol variables for per-lane in iables are not defined.	ner FEC enab	le. As stated in the
SuggestedRem Remove ro	•	EC enable lane 0" through "Inr	ner FEC enable	lane 7" in Table 177-6.			disabling en discus	the FEC and the behaviors of ssed.	the encoder a	and decoder in this state
	N PRINCIPL	Response Status C E. onse to comment #1.			enable	and sig	anal dete	a way to power down the FEC ct functions can be used. How n a standard.		
C/ 177 S	C 177.10	P 325	L 29	# 1	Suggested	Remed	y			
Marris, Arthur		Cadence Desi	gn Systems	~			ner FEC e ause 45.	enable" control variables in tab	ble 177-6 and	the corresponding MDIO
Comment Type Change the		Comment Status A ontrol variables to a single "res	set" variablef	(bucket)	Response		RINCIPL	Response Status C		
SuggestedRem	nedy						-	onse to comment #1.		
Make the v Delete rows Delete edite In Table 45 in the row f	ariable refer s for "Inner I or's note bel i–177a delet or "1.2400.0 20 line 53 fo	e "Inner FEC enable lane 0" to rence be to 177.6.2.1 (where I FEC enable lane 1" to "Inner F low Table 177-6 te rows "Inner FEC enable lan " change "enable" to "reset" r the reset variable change the	nner FEC reset EC enable lane e 1" to "Inner FE	is defined) 7" EC enable lane 7" and						
Response		Response Status C								
ACCEPT IN	N PRINCIPL the suggest	•	se.							

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 177 SC 177.10.

C/ 177 SC 177.10.	P325	L 39	# 299	C/ 178 SC 178.10.	I P350	L 38	# 558
Ran, Adee	Cisco			Heck, Howard	TE Connecti	vity	
Comment Type TR	Comment Status A		(bucket)	Comment Type E	Comment Status A		(bucket
The status variable n 177.4.1.2. It is define Also, it is a per-lane		not mentioned ir	n the referenced		ngle-ended receiver termination consistent with those in 179 and		ghlighted in
SuggestedRemedy				Remove the orange h	iahliahtina.		
	oss-reference to clause 176, or variables for this function (only 7".			Response ACCEPT.	Response Status C		
Response	Response Status C			CI 178A SC 178A	P 757	L 26	# 360
ACCEPT IN PRINCI Change the cross ref	PLE. ference to clause 176, and imp	lement with edite	orial license.	Shakiba, Hossein		nnologies Canada	
C/ 178 SC 178.7.1		L 42	# 28	Comment Type T Add quantization nois	Comment Status R e.		Quantization noise
Brown, Matt Comment Type T The skew numbers fr	Alphawave S Comment Status A rom previous generations shou		(bucket)		n "178A.1.7.6 Quantization N for the proposed sub-section		to slides 2-4 of the
SuggestedRemedy Delete the editor's no	ote.			Response REJECT.	Response Status Z		
Response ACCEPT.	Response Status C			This comment was W	THDRAWN by the comment	er.	
C/ 178 SC 178.7.2	P339	L 12	# 29	C/ 178A SC 178A.1.	7 P 754	L 32	# 364
Brown, Matt	Alphawave S	emi		Shakiba, Hossein	Huawei Tech	nnologies Canada	
Comment Type T Skew constraints for	Comment Status A 1.6TBASE-R based on 800GB	ASE-R should b	<i>(bucket)</i> e fine.	Comment Type T Following first comme	Comment Status R ent, "sampler" should be repla	ced with "quantize	Quantization noiser".
SuggestedRemedy Delete the editor's no	ote.			SuggestedRemedy Change "sampler" to	"quantizer".		
Response ACCEPT.	Response Status C			Response REJECT.	Response Status Z		
				This comment was W	ITHDRAWN by the comment	er.	

C/ 178A SC 178A.1.7

C/ 178A SC 178A.1.7	P 754	L 50	# 361	C/ 178A SC 178A	.1.7	P 755	L19	# 363
Shakiba, Hossein	Huawei Techn	ologies Canada		Shakiba, Hossein		Huawei Tech	nologies Canada	
Comment Type T Following first comment, the sampler.	Comment Status R Figure 178A-7 should show	addition of the	<i>Quantization noise</i> quantization noise after	6	<i>Comment</i> ment, Equation (1		include quantizatior	<i>Quantization noise</i> noise PSD.
SuggestedRemedy Add quantization noise to the proposed change. Response	o the figure. Please refer to s Response Status Z	slide 5 of the su	pporting document for	SuggestedRemedy Add quantization n refer to slide 7 of th Response REJECT.		iment for the p	description to the de roposed change.	scriptions. Please
REJECT. This comment was WITH	IDRAWN by the commenter			This comment was	WITHDRAWN by	the commente	er.	
	P755	L 2	# 362	C/ 178A SC 178A	.1.8.1	P 757	L18	# 367
Shakiba, Hossein		ologies Canada		Shakiba, Hossein			nologies Canada	
Comment Type T	Comment Status R Table 178A-9 should includ	-	Quantization noise	Comment Type T Following first com applied to the feed	<i>Comment</i> ment, quantization forward filter in Fig	noise should l	be added before san	<i>Quantization noise</i> opler output is
SuggestedRemedy Add two quantization noi supporting document for	se parameters to the table. the proposed change.	Please refer to s	slide 6 of the	SuggestedRemedy Add quantization n the proposed chan	•	Please refer to	slide 8 of the suppo	rting document for
Response REJECT.	Response Status Z			Response REJECT.	Response S	Status Z		
This comment was WITH	IDRAWN by the commenter			This comment was	WITHDRAWN by	the commente	er.	
C/ 178A SC 178A.1.7 Shakiba, Hossein	P 755 Huawei Techn	L 15 ologies Canada	# 365	C/ 178A SC 178A Shakiba, Hossein	.1.8.1	P 757 Huawei Tech	L 43 nologies Canada	# 366
Comment Type T Following first comment	Comment Status R "sampler" should be replace	ed with "quantiz	Quantization noise er".	Comment Type T Following first com	<i>Comment</i> ment, "sampler" sl		ced with "quantizer".	Quantization noise
r bilowing mat comment,				SuggestedRemedy				
-	antizer".			Change "sampler"	to "quantizer".			
SuggestedRemedy	antizer". <i>Response Status</i> Z			Change "sampler" <i>Response</i> REJECT.	to "quantizer". <i>Response</i> \$	Status Z		

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 178A SC 178A.1.8.1 Page 29 of 48 1/21/2025 9:54:04 AM

	SC 178A.1.8.1	P 758	L 33	# 534	C/ 178A	SC	178A.1.10	.2 P761	L 51	# 369
Dawe, Piers		Nvidia			Shakiba, H	losseir	r	Huawei Tech	nologies Canad	a
Comment Typ	De E Co	omment Status A		(buck	t) Comment	Туре	т	Comment Status R		Quantization noise
Although has:	OIF use it for some	ack taps, Nf is the num thing else. 10GBASE-	LRM uses EqNf a	nd EqNb. 802.3ck	the pro	bability	y density fu	, more text should be added unction of the quantization n he noise and interference.		
	imum span includir adiction doesn't app	ig floating taps N_f (but ilv) and	it doesn't have re	ceiver FFE taps so	Suggested	Remed	dy			
Number o	of DFE floating tap				Add th of the			in slides 10-11 of the suppo	rting document	before the last sentence
	•	0			Response	J	- 1	Response Status Z		
Change N		os per floating tap grou	p, from Nf to N_fg		REJEC	CT.				
Response	Re	sponse Status C								
For consis		ation used in Annex 93			This co	ommen	nt was WIT	HDRAWN by the commenter	er.	
		} and change "Number from "b" to "w" in the se			C/ 178A	SC	178A.1.11	P 762	L 39	# 370
		rd filter defined in Anne			Shakiba, F	losseir	า	Huawei Tech	nologies Canad	a
	nt with editorial licer	ne feedback filter as de nse.	fined in Annex 934	٦.	Comment	Туре	т	Comment Status R		Quantization nois
	note: CC: 178, 179,							, quantization noise should ard filter in Figure 178A-10.	be added before	e sampler output is
7 178A	SC 178A.1.9	P 761	L10	# 368	Suggested					
Shakiba, Hos	sein	Huawei Tech	nologies Canada		•••		-	to the figure. Please refer to	slide 12 of the	supporting document for
Comment Typ	be T Co	omment Status R		Quantization no			change.	j		, , , , , , , , , , , , , , , , , , ,
Following	first comment, Equ	ation (178A-34) should	l include quantizat	ion noise PSD.	Response			Response Status Z		
SuggestedRe	medy				REJEC	CT.				
	tization noise PSD t for the proposed o	to the equation. Please hange.	e refer to slide 9 of	the supporting	This co	ommen	nt was WIT	HDRAWN by the commenter	er.	
Response REJECT.		sponse Status Z			C/ 178B	SC	178B	P 765	L19	# 542
					Dawe, Pie	rs		Nvidia		
	ment was WITHDR	AWN by the commenter	er.		Comment	Туре	TR	Comment Status R		Introductior
This comr					This a	nnex ne	eeds an int	troductory diagram, and the	terminology nee	eds cleaning up
This comr						D	du			
This comr					Suggested	Remea	uy			
This comr						Remed mment				
This comr								Response Status C		

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 178B SC 178B Page 30 of 48 1/21/2025 9:54:04 AM

C/ 178B SC 178B.5	P 766	L 33	# 355	C/ 178B SC 178B.14.2.1 P783 L13 # 124
Ran, Adee	Cisco			Slavick, Jeff Broadcom
Comment Type E	Comment Status A		(bucket)	Comment Type TR Comment Status A Interfaces
and PMDs.	hs of 178B.5 are not about the co 178B.4, based on its title.	e protocol, but at	bout AUI components	"other" interface is a bit ambigous and the listed situations are the typical use case but does not cover all use cases. As a remote PCS (after a XS) could do either local or clock forwarding modes.
SuggestedRemedy				SuggestedRemedy
Move these paragraph	is to 178B.4.			Rename client_is_pcs to be "uses_local_clock_only" and update the definition to be
Response	Response Status C			"Boolean variable that indicates if the PMA will never swap to a forwarded clock. For example this will be true for the first PMA below the RS."
	178B.5 is related to the section graph of 178B.5 to the begining the section of 178B.5 to the begining the section of the sect		tay in 178B.5.	Replace both uses of client_is_pcs with uses_local_clock_only in Fig 178B-7 Response Response Status
•				ACCEPT IN PRINCIPLE.
C/ 178B SC 178B.5	P 767	L 1	# 381	Related slides in the following contribution were reviewed by the CRG:
Healey, Adam	Broadcom Ind).	<i>4</i> • • • •	https://www.ieee802.org/3/dj/public/25_01/brown_3dj_03a_2501.pdf
Comment Type T	Comment Status A		(bucket)	Implement the changes provided on slide 26 of brown_3dj_03a_2501 with editorial license.
	" bit is in the control field. Also on of the "Continue training" b		ence to 178B.8.8 does	
SuggestedRemedy	0			C/ 178B SC 178B.14.2.1 P783 L31 # 382
<i></i> ,	ue training bit in the control fi	eld of the training	g frames (see	Healey, Adam Broadcom Inc.
178B.7.2) if training is		·		Comment Type T Comment Status A (bucket)
Response	Response Status C			The "Continue training" bit is in the control field.
ACCEPT.				SuggestedRemedy Change the last sentence of the definition of local_rts to "The logical-NOT of this variable is
				encoded as the "continue training" bit in the control field of transmitted training frames."
				Response Response Status C
				ACCEPT IN PRINCIPLE.
				Implement suggested remedy with editorial license. Also in the definition of remote_rts change: "of the status field" to "of the control field".
				C/ 178B SC 178B.14.3.5 P789 L41 # 141
				Slavick, Jeff Broadcom
				Comment Type TR Comment Status A (bucket)
				Ambigous transition if timer_done and tf_lock both occur simultaneously
				SuggestedRemedy Add "!recovery_timer_done *" to the transition back to TRAIN_LOCAL
				Response Response Status C ACCEPT.
		• •		

SORT ORDER: Clause, Subclause, page, line

C/ 178B SC 178B.14.3.5	P 790	L 20	# 142		C/ 178B	SC 178B.15	P 79	2 L6	# 7
Slavick, Jeff	Broadcom				Marris, Art	hur	Cader	ice Design Systems	
Comment Type E Comm	nent Status A		(bu	ucket)	Comment	Туре Т	Comment Status	Α	(bucket)
Fig 178B-9 has text box overlap	ping lines				MDIO	register bit refere	nces need to be adde	ed to Tables 178B-6 a	nd 178B-7
SuggestedRemedy					Suggested	Remedy			
tf_offset in GET_NEW_MARKEI	R is covering up lies	;			Consid	ler a proposal on	how to do this during	the January 2025 802	2.3dj task force meeting
Response Respo	nse Status C				Response		Response Status	С	
ACCEPT IN PRINCIPLE.								20	
Fix the GET_NEW_MARKER bo	ox and text to avoid	overlap.			Resolv	e using the reps	onse to comment #17	0	
V 178B SC 178B.14.3.5	P 790	L 20	# 143		C/ 179	SC 179.12	P39	9 L21	# 315
Slavick, Jeff	Broadcom				Ran, Adee		Cisco		
····· //·· =	nent Status A		(bu	ucket)	Comment	51	Comment Status		(bucket)
Fig 178B-9 has an extraneous li	ne					ID is specified in irrelevant here.	179.8 and 179.9. 17	9.14 contains manag	ement variable mapping
SuggestedRemedy					Suggested				
extran to th right of the UCT ex	iting POLARIY_INV	ERT				-	er the comment.		
	nse Status C				Response			c	
ACCEPT IN PRINCIPLE.	aura 179D 0				ACCE	ЭТ	Response Status	C	
Remove extraneous line from Fi	gule 1766-9.					1.			
C/ 178B SC 178B.14.3.5	P 790	L 27	# 144		C/ 179	SC 179.14	P 40	0 <i>L</i> 10	# 90
Slavick, Jeff	Broadcom				Opsasnick	, Eugene	Broad	com	
51	nent Status A		State dia	agram	Comment	Type TR	Comment Status	Α	reset variable
Fig 178B-9 needs to clarify the t	ransitions out of TE	ST_MARKER.					_	a variable reference	
SuggestedRemedy							inal subclause does i	not define "PMD_reset	
Change the transition from TES !inverse_valid_marker) + (polarit	-	_	· –	er *	Suggested	-	ause to CL 179 (perh	aps 179.8.10) to defin	e the PMD reset
		se_valiu_marke	")					183.5.6, and 185.5.6	
Change the transition from TES		ARITY_INVERT	to be				nd subclause text:		
"!polarity_correction * inverse_m					if the	variable PIVID_re	set is asserted, the P	wid shall de reset as o	defined in 45.2.1.1.1.".
Response Respo ACCEPT IN PRINCIPLE.	nse Status C				And ch Clause	0	eference in Table 179	9-20 from 178B.14.2.1	to this new subclause in
Related slides in the following co	ontribution word row	awad by the CP	C.		A _ 1 1	an auto alarra d	المراجع والمحاط والمراجع		and the stand of the stand
https://www.ieee802.org/3/dj/puk						ar subclause sho ext as above.	ould also be added as	178.8.10 titled "PMD	reset function" withthe
Implement the changes on eithe	r slide 30 or slide 3	2, at the editor's	discretion, of		Response		Response Status	С	
brown_3dj_03a_2501 with edito					ACCE	PT IN PRINCIPL	E.		
					Resolv	e using the resp	onse to comment #88		
	iterial required OD							01 470	
TYPE: TR/technical required ER/ed						7/ 11		C/ 179	Page 32 of 48

COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 179.14	1/21/2025 9:54:04 AM
SORT ORDER: Clause, Subclause, page, line			

ILddCA,min is greater than ILddCH,min 13 dB = (16+4.45+4.45)-(2*9.75) SuggestedRemedy Add an Editor's note to provide context and explain that testing the ILddCH,min condition in to possible. 13 dB = (16+4.45+4.45)-(2*9.75) Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. CI 179A SC 179A.5 P801 L47 #532 Dawe, Piers Nvidia (bucket) Comment Type T Comment Status R (withdiremetia), with test instruments being 100 ohm differential (so ohm single ended). This intruduces a discontinuity in the test environment. Lab measurement suggest the location (in time delay) of this discontinuity with test environment. Lab measurement results. The location within the test fixtures should be specified in a new sub-clause in section 1788.4 SuggestedRemedy 17.75, twice Response Response Status C ACCEPT IN PRINCIPLE. The comment Status A (bucket) The first channel min calculation in Figure 179A-2. Replace 17.5 with 17.75 and Implement identicates a typo in a label in Figure 179A-2. Replace 17.5 with 17.75 and Implement identications. Sector 178E.4 CI 179A SC 179A.5 P802 L12 # 560 The first channel min calculation in Figure 179A-2. Replace 17.5 with 17.75 and Implement Brandel min calculation in Figure 179A-3 contains an error. The equation states that 13 dB @ 551.325 GHz =										
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LddCA,min is greater than LddCH,min 13 dB = (16+4.45+4.45)-(2*9.75) gggestedRemedy Add an Editor's note to provide context and explain that testing the ILddCH,min condition is not possible. seponse Response Status Z REJECT. This comment was WITHDRAWN by the commenter. Comment Yape TR 17.9A SC 179A.5 P801 L47 # 532 awe, Piers Nvidia (bucket) 17.5 mement Type TR Comment Status A (bucket) 17.75, twice seponse Status C Comment Status R (withdat the compliance test futures should be specified in a new sub-clause in section mytoment results. 17.9A SC 179A.5 P802 L12 # 660 ACCEPT IN PRINCIPLE. Comment Status A (bucket) The first channel min clauciation in Figure 179A-3. Ceplace 17.5 with 17.75 and Implement formating with editorial license. Steles Etail SC Steles Status Z Response Status A (bucket) Gupter 14.45+4.45+(-27), 75) Steles Status R (withdat the compliance test futures will be presented with proposed location of 92.5 to 100 ohm discontinuuity will the compliance test futures will be presented with proposed location of 92.5 to 100 ohm discontinuuity will the comment status A (bucket) 1173 Ma S C 179A.5 P802 L12	ocsis, Sam		Amphenol			Dawe, Piers		Nvidia		
Suggested/Remedy And an Editor's note to provide context and explain that testing the ILddCH,min condition is not possible. Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. 2/ 179A SC 179A.5 7/ 170A SC 179A.5 7/ 170A SC 179A.5 8/ 2000 Response Status C ACCEPT IN PRINCIPLE. (bucket) 17.5, fivice Response Status C ACCEPT IN PRINCIPLE. Comment Status A (bucket) 17.7, fivice Response Status C Accept IN environment indicates a typo in a label in Figure 179A-2. Replace 17.5 with 17.75 and Implement formating with editorial license. (bucket) 17.7 for the Comment Status A (bucket) 17.7 for wide Response Status C Accept IN PRINCIPLE. Response Status A (bucket) 17.7 for wide The comment indicates a typo in a label in Figure 179A-3. Replace 17.5 with 17.75 and Implement formating with editorial license. (bucket) 17.7 for wide Response Status C Response Status Z 17.7 for wide Response Status A (bucket) 17.7 for wide Response Status A (bucket) 17.7 for wide	51				(withdrawn)	Comment Typ	e TR	Comment Status A		(bucket)
Add an Editor's note to provide context and explain that testing the ILddCH,min condition in possible. 13 dB = (16+8.25+8.25)-(2'9.75) REJECT. This comment was WITHDRAWN by the commenter. 179A SC 179A.5 P801 L47 # 532 17 YAA SC 179A.5 P801 L47 # 532 Sc 179B.1 L54 # 1455 pawe, Piers Nvida (bucket) 17.5. Nuclea (bucket) 17.5. Comment Status R (bucket) 17.75. Nucle Comment Status R (bucket) 17.75. Nucle Response Status C Comment Type T Comment Status R (withdn differential (s) of this discontinuity in the test instruments being 100 ohm differential (s) of this discontinuity in the test instruments being 100 ohm differential (s) of this discontinuity in the test instruments being 100 ohm differential (s) ohm single ended). This intruments suggest the location (in time delay) of this discontinuity with the test instrument being 100 ohm discontinuity with the test instruments being 100 ohm differential (s) of this discontinuity with the test instrument being 100 ohm discontinuity with the test instruments being 100 ohm differential (s) of this discontinuity with the test instruments being 100 ohm differential (s) of this discontinuity with the test instruments being 100 ohm differential (s) of this discontinuity with the test instruments being 100 ohm differential (s) of this discontinuity with the test instruments being 100 ohm discontinuity with the test instruments being 100 ohm discontinuity with the test instruments being 100 ohm discontinuity with the test instrument being 100 ohm discontinuity with the test	ILddCA,m	in is greater tl	han ILddCH,min			13 dB =	= (16+4.45+4	.45)-(2*9.75)		
Ind possible. Response Response Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. C//// 179A SC 179A.5 P601 L47 # 532 Dawe, Piers Nvidia L47 # 532 Comment Value Vidia Comment Value Comment Value Vidia Comment Value	SuggestedRei	medy				SuggestedRe	medy			
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A TAP Sc Tr9A The form and sc TryA Formation Factor	This comr	ment was WIT	HDRAWN by the commenter			C/ 179B	SC 179B.(ne	w) P811	L 54	# 455
Dawe, Hers NVdia Domment Type TR Comment Status A (bucket) 17.5 SuggestedRemedy 17.5 Reference impedance is 92.5 ohm differential, with test instruments being 100 ohm differential (50 ohm single ended). This introduces a discontunity in the test environment suggested here bocatio 17.5 Nuclea Reference impedance is 92.5 ohm differential, with test instruments being 100 ohm differential (50 ohm single ended). This introduces a discontunity in the test environment witch does not exist in a piplication environment. Lab measurements suggested here does not exist in a piplication environment. Lab measurement suggest he locatio The comment indicates a typo in a label in Figure 179A-2. Replace 17.5 with 17.75 and Implement formating with editorial license. SuggestedRemedy C/ 179A SC 179A.5 P802 L12 # 560 C/ 179A Tc Comment Status A (bucket) The isometrol with proposed location of 92.5 to 100 ohm discontinunity with the compliance test fixtures will be presented in on tribuion during 802.3 interim meeting. C/ 179A SC 179A.5 P802 L12 # 560 The first channel min calculation in Figure 179A-3 contains an error. The equation is 13 dB = (16+8.25+8.25)-(2°).75). The correct equation is 31 dB = (16+8.25+8.25)-(2°).75). The correct equation is 31 dB = (16+8.25+8.25)-(2°).75). The correct equation is 31 dB = (16+8.25+8.25)-(2°).75). The source equation is 31 dB = (16+8.25+8.25)-(2°).75). The source equation is 31 dB = (16+8	א אני אין א	SC 179A.5	P801	L 47	# 532	Sekel, Steve		Wilder Techr	nologies	
comment Type TR Comment Status A (bucket) 17.5 ifferential (50 ohm single ended). This introduces a discontunity in the test environment uses usegestet leocation 17.5, twice itegestedRemedy 17.75, twice ACCEPT IN PRINCIPLE. The comment indicates a typo in a table in Figure 179A-3. Ceptace 17.5 with 17.75 and Implement formating with editorial license. it 179A SC 179A.5 P802 L12 ital 36 53.125 PROT Comment Status A (bucket) (bucket) The first channel min calculation in Figure 179A-3 contains an error. The equation is 13 dB = (16+8.25+8.25)=(2'9.75). The 0.25 dB is taken from Table 179A-3 (Minimum insertion loss budget values at 53.125 GHz P803 L39 # \$53 tuggestedRemedy Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2'9.75). The 0.25 dB is taken from Table 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 SuggestedRemedy Proposed values and equations will be presented with measurement data in contribution during January 802.3 Interim meeting. Response Response Status C Response Status Z Response Status Z ACCEPT IN PRINCIPLE. Response Status C Response Status Z Response Status Z	awe, Piers		Nvidia							(withdrawn)
17.5 which does not exist in application environment. Lab measurements suggest the location (in time delay) of this discontinuity will change some compliance measurement results. The location within the test fixtures should be specified in a new sub-clause in section 179B.4 Response Response Status C ACCEPT IN PRINCIPLE. The comment indicates a typo in a label in Figure 179A-2. Replace 17.5 with 17.75 and Implement formating with editorial license. Which does not exist in application environment. Lab measurement results. The location within the test fixtures will be presented with proposed location of 92.5 to 100 ohm discontinuity with the compliance test fixtures will be presented with proposed location of 92.5 to 100 ohm discontinuity with the compliance test fixtures will be presented in contribution during 802.3 interim meeting. V/ 179A SC 179A.5 P802 L12 # 560 Atta 13 dB @ 53.125 GHz TE Connectivity The first channel min calculation in Figure 179A-3 contains an error. The equation states that 13 dB @ 53.125 GHz Chex 4.54.4.51/(2*9.75). The correct equation is 13 dB = (16+8.25+8.25)-(2*9.75). The s.25 dB is taken from Table 179A-3 (Minimum insertion loss budget values at 53.125 GHz) SuggestedRemedy Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75). Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75). SuggestedRemedy Response Response Status C Response Status Z ACCEPT IN PRINCIPLE.	Comment Typ	e TR	Comment Status A		(bucket)					
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Response Response Status C ACCEPT IN PRINCIPLE. The comment indicates a typo in a label in Figure 179A-2. Replace 17.5 with 17.75 and implement formating with editorial license. Problem will be presented with proposed location of 92.5 to 100 ohm discontinuity within the compliance test fixtures will be presented in contribution during 802.3 interim meeting. C/1 179A SC 179A.5 P 802 L 12 # 560 Heck, Howard TE Connectivity To Comment Status A (bucket) The first channel min calculation in Figure 179A-3 contains an error. The equation is 13 dB = (16+4.45+4.45)-(2*9.75). The 0.825 dB is taken from Table 179A-3 (Minimum insertion loss budget values at 53.125 GHz = (16+4.45+4.45)-(2*9.75). The 0.825 dB is taken from Table 179A-3 (Minimum insertion loss budget values at 53.125 GHz = (16+8.25+8.25)-(2*9.75). P 803 L 39 # 453 Suggested/Remedy Camment Type T Comment Type T Comment Status R (withdr. 100, 100, 100, 100, 100, 100, 100, 100	17.75, twi	се					on within the	test fixtures should be specif	ned in a new sub	-clause in section
The comment indicates a typo in a label in Figure 179A-2. Replace 17.5 with 17.75 and Implement formating with editorial license. The comment indicates a typo in a label in Figure 179A-2. Replace 17.5 with 17.75 and Implement formating with editorial license. The comment indicates a typo in a label in Figure 179A-2. Replace 17.5 with 17.75 and Implement formating with editorial license. Ite compliance test fixtures will be presented in contribution during 802.3 interim meeting. Cl 179A SC 179A.5 P802 L12 # 560 Heck, Howard TE Connectivity The Comment Status A (bucket) The first channel min calculation in Figure 179A-3 contains an error. The equation states that 13 dB @ 53.125 GHz = (16+4.45+4.45)-(2'9.75). The correct equationis 13 dB = (16+8.25+8.25)-(2'9.75). The correct equationis 13 dB = (16+8.25+8.25)-(2'9.75). The comment mathematical a transmosterion loss budget values at 53.125 GHz SuggestedRemedy Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2'9.75). SuggestedRemedy Response Response Status C C ACCEPT IN PRINCIPLE. Implement as proposed in suggested remedy. Response Status Z REJECT. Response Status Z REJECT. Response Status Z	Response		Response Status C			SuggestedRe	medy			
Cli 179A SC 179A.5 P802 L12 # 560 Heck, Howard TE Connectivity REJECT. Comment Type T Comment Status A (bucket) The first channel min calculation in Figure 179A-3 contains an error. The equation states that 13 dB @ 53.125 GHz = (16+4.45+4.45)-(2*9.75). The correct equations is 13 dB = (16+8.25+8.25)=(2*9.75). The 8.25 dB is taken from Table 179A-3 (Minimum insertion loss budget values at 53.125 GHz) Wilder Technologies SuggestedRemedy Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75). The comment Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75). Response Response Status C ACCEPT IN PRINCIPLE. mplement as proposed in suggested remedy. Response Response Status Z Response Response Status C Response Response Status Z ACCEPT IN PRINCIPLE. Implement as proposed in suggested remedy. Response Response Status Z REJECT. Response Response Status Z REJECT. Response Response Status Z	The comn	nent indicates	a typo in a label in Figure 17	9A-2. Replace	17.5 with 17.75 and					
Heck, Howard TE Connectivity Comment Type T Comment Status A (bucket) The first channel min calculation in Figure 179A-3 contains an error. The equation states that 13 dB @ 53.125 GHz = (16+4.45+4.45)-(2*9.75). The correct equationis 13 dB = (16+8.25+8.25)=(2*9.75). The 8.25 dB is taken from Table 179A-3 (Minimum insertion loss budget values at 53.125 GHz Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75). The suggested Remedy Sekel, Steve Wilder Technologies Suggested Remedy Comment Type T Comment Status R (withdraward) Response Response Status C Response Status C Response Status C ACCEPT IN PRINCIPLE. Implement as proposed in suggested remedy. Response Status C Response Status Z Response Response Status C Response Status C Response Status Z Response Response Status C Response Status Z Response Status Z Response Response Status C Response Status Z RESPONSE Response Status Z Response Response Status C RESPONSE RESPONSE RESPONSE Status <td>Implemen</td> <td>it formating wi</td> <td>th editorial license.</td> <td></td> <td></td> <td>Response</td> <td></td> <td>Response Status Z</td> <td></td> <td></td>	Implemen	it formating wi	th editorial license.			Response		Response Status Z		
Comment Type T Comment Status A (bucket) The first channel min calculation in Figure 179A-3 contains an error. The equation states that 13 dB @ 53.125 GHz = (16+4.45+4.45)-(2*9.75). The correct equationis 13 dB = (16+8.25+8.25)=(2*9.75). The 8.25 dB is taken from Table 179A-3 (Minimum insertion loss budget values at 53.125 GHz) C/ 179B SC 179B.2.1 P803 L39 # 453 SuggestedRemedy Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75). The comment Type T Comment Status R (withdreen the second s	C/ 179A S	SC 179A.5	P 802	L12	# 560	REJECT.				
Comment Type T Comment Status A (bucket) The first channel min calculation in Figure 179A-3 contains an error. The equation states that 13 dB @ 53.125 GHz = (16+4.45+4.45)-(2*9.75). The correct equations 13 dB = (16+8.25+8.25)=(2*9.75). The 8.25 dB is taken from Table 179A-3 (Minimum insertion loss budget values at 53.125 GHz) C/ 179B SC 179B.2.1 P803 L39 # 453 SuggestedRemedy Comment Type T Comment Status R (withdraward) SuggestedRemedy Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75) SuggestedRemedy Proposed values and equations will be presented with measurement data in contribution during January 802.3 Interim meeting. Response Response Status C Response Status Z Response Status Z MCCEPT IN PRINCIPLE. Implement as proposed in suggested remedy. Response Status Z Response Status Z	Heck, Howard	ł	TE Connectivit	y		This com	ment was WI	THDRAWN by the commenter	er	
The first charmer init calculation in Figure 179A-3 contains an error. The equation states that 13 dB @ 53.125 GHz = (16+4.45+4.45)-(2*9.75). The correct equations 13 dB = (16+8.25+8.25)=(2*9.75). The 8.25 dB is taken from Table 179A-3 (Minimum insertion loss budget values at 53.125 GHz) Sekel, Steve Wilder Technologies SuggestedRemedy Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75). Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75). SuggestedRemedy SuggestedRemedy Response Response Status C Nervoul and equations will be presented with measurement data in contribution during January 802.3 Interim meeting. Response in suggested remedy. Response Status C Response Status Z Response in suggested remedy. Response Status Z Response Status Z	Comment Typ	e T	Comment Status A		(bucket)			•		
(16+8.25+8.25)=(2*9.75). The 8.25 dB is taken from Table 179A-3 (Minimum insertion loss budget values at 53.125 GHz) (withdreft is the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75) Suggested Remedy Suggested Remedy Response Response Status ACCEPT IN PRINCIPLE. Implement as proposed in suggested remedy. Implement as proposed in suggested remedy. Response Status Z Response Status Z Response Status Z REJECT.							SC 179B.2.1			# 453
budget values at 53.125 GHz) SuggestedRemedy Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75) Response Response Status C ACCEPT IN PRINCIPLE. Implement as proposed in suggested remedy. Comment Type T Comment Type T Comment Status R ILdd is listed as TBD SuggestedRemedy Proposed values and equations will be presented with measurement data in contribution during January 802.3 Interim meeting. Response Response Status C Implement as proposed in suggested remedy. Comment Type T Comment Status R ILdd is listed as TBD SuggestedRemedy Proposed values and equations will be presented with measurement data in contribution during January 802.3 Interim meeting. REJECT.						-	_		nologies	
SuggestedRemedy Change the equation in Figure 179A-3 to "Channel Min (TP0d-TP5d) = 13 dB @ 53.125 GHz = (16+8.25+8.25)-(2*9.75) Response Response Status C ACCEPT IN PRINCIPLE. Implement as proposed in suggested remedy. SuggestedRemedy Proposed values and equations will be presented with measurement data in contribution during January 802.3 Interim meeting. Response Response Status C Response Response Status Z REJECT.								Comment Status R		(withdrawn)
GHz = (16+8.25+8.25)-(2*9.75) Proposed values and equations will be presented with measurement data in contribution during January 802.3 Interim meeting. Response Response Status C ACCEPT IN PRINCIPLE. Response of a suggested remedy. Response Status Z Implement as proposed in suggested remedy. REJECT. REJECT.	SuggestedRei	medy								
Response Response Status C during January 802.3 Interim meeting. ACCEPT IN PRINCIPLE. Implement as proposed in suggested remedy. Response Response Status Z				lin (TP0d-TP5d) = 13 dB @ 53.125	00	-			
ACCEPT IN PRINCIPLE. Response Response Status Z Implement as proposed in suggested remedy. REJECT. REJECT.	```	5+8.25+8.25)-0							vith measurement	data in contribution
Implement as proposed in suggested remedy. REJECT.	•		,			0		0		
		-								
This comment was WITHDRAWN by the commenter.										
						This comr	ment was WI	THDRAWN by the commenter	er.	

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 179B SC 179B.2.1 Page 33 of 48 1/21/2025 9:54:04 AM

C/ 179B SC 179B.4	.1 <i>P</i> 806	L1	# 380	-	C/ 179D	SC 179D.1.1	L	P828	L34	# 518
D'Ambrosia, John		.S. Subsidiary o			Dawe, Piers			ridia	∟34	# 010
	Comment Status R	.5. Subsidiary d	n nuawei	(hundred)	Comment T		Comment Stat			(6
51		2 is this on adit	arial incurs?	(bucket)					posified in 170 1	(bucket)
SuggestedRemedy	r to be a figure - was it deleted				length".		,			of connector types and
add figure to 179B-2					SuggestedF	,				
Response	Response Status C				00	enabling a 1 m	lenath"			
REJECT. The issue is not edito implement.	orial. The suggested remedy d	oes not provide	sufficient detail	l to	Response ACCEP	T IN PRINCIPI	Response Statu			
C/ 179B SC 179B.4		L 8	# 216		current	text is incorrec	ope supports multip t. ted remedy with ed			engths, and so the
Brown, Matt	Alphawave S	iemi		<i>и и х</i>		00				// [aa=
Comment Type E	Comment Status A			(bucket)	C/ 180	SC 180.3		P 412	L15	# 227
Similar issue in Table	n to specify a value "Less than	XXX [~] .			Ghiasi, Ali			niasi Qunatu	um/Marvell	
	e 173D-3.				Comment T		Comment State		ublavor abovo t	0
SuggestedRemedy Change "Integrated r noise voltage (max)"	near-end crosstalk noise voltag	ge" to "Integrate	d near-end cros	sstalk	Signal_ on TX a jump int	OK as shown in nd another ILT to inter-suplaye	n Fig 180-2 is from	the Inner s s Signal_Oł	Kout. We talk	<i>signal ok</i> hen goes into ILT box about Signal_OK then
SuggestedRemedy Change "Integrated r	near-end crosstalk noise voltag	ge" to "Integrated	d near-end cros	sstalk	Signal_ on TX a jump int SuggestedF	OK as shown in nd another ILT to inter-suplaye Remedy	n Fig 180-2 is from box on the RX has r variables before i	the Inner s s Signal_Or intorudcing	Kout. We talk ILT.	about Signal_OK then
SuggestedRemedy Change "Integrated r noise voltage (max)" Change "Less than T Make similar updates Response	near-end crosstalk noise voltag IBD" to "TBD" s in Table 179B-5. <i>Response Status</i> C	ge" to "Integrated	d near-end cros	sstalk	Signal_ on TX a jump int <i>SuggestedF</i> Referen	OK as shown ii nd another ILT to inter-suplaye Remedy toing Fig 180-2	n Fig 180-2 is from box on the RX has variables before i would be helfull he	the Inner s s Signal_OP intorudcing ere. After th	K out. We talk ILT. ne 1st paragrapi	hen goes into ILT box
SuggestedRemedy Change "Integrated r noise voltage (max)" Change "Less than T Make similar updates Response ACCEPT IN PRINCI	near-end crosstalk noise voltag IBD" to "TBD" s in Table 179B-5. <i>Response Status</i> C PLE.	-	d near-end cros	sstalk	Signal_ on TX a jump int <i>SuggestedF</i> Referen	OK as shown ii nd another ILT to inter-suplaye Remedy toing Fig 180-2	n Fig 180-2 is from box on the RX has variables before i would be helfull he	the Inner s s Signal_Ok intorudcing ere. After th r Layer Train	K out. We talk ILT. ne 1st paragrapi	hen goes into ILT box about Signal_OK then h add sentence: The
SuggestedRemedy Change "Integrated r noise voltage (max)" Change "Less than T Make similar updates Response ACCEPT IN PRINCI Implement suggeste	near-end crosstalk noise voltag IBD" to "TBD" s in Table 179B-5. <i>Response Status</i> C		d near-end cros	sstalk	Signal_ on TX a jump int SuggestedF Referen PMD in Response	OK as shown ii nd another ILT to inter-suplaye Remedy toing Fig 180-2	n Fig 180-2 is from box on the RX has er variables before i would be helfull he oport Inter-sublayer <i>Response Statu</i>	the Inner s s Signal_Ok intorudcing ere. After th r Layer Train	K out. We talk ILT. ne 1st paragrapi	hen goes into ILT box about Signal_OK then h add sentence: The
SuggestedRemedy Change "Integrated r noise voltage (max)" Change "Less than T Make similar updates Response ACCEPT IN PRINCI Implement suggeste	near-end crosstalk noise voltag IBD" to "TBD" s in Table 179B-5. <i>Response Status</i> C PLE. d remedy with editorial license #217 proposes a value to use in		d near-end cros		Signal_ on TX a jump int SuggestedF Referen PMD in Response ACCEP A defini	CK as shown ii nd another ILT oo inter-suplaye Remedy cing Fig 180-2 this clause sup T IN PRINCIPI tive statement	n Fig 180-2 is from box on the RX has r variables before i would be helfull he oport Inter-sublayer <i>Response Statu</i> LE.	the Inner s s Signal_OP intorudcing ere. After th r Layer Train us C suggested	 K out. We talk ILT. he 1st paragraph ning (ILT) type of remedy is beyon 	hen goes into ILT box about Signal_OK then h add sentence: The O1, see Annex 178B.
SuggestedRemedy Change "Integrated r noise voltage (max)" Change "Less than T Make similar updates Response ACCEPT IN PRINCI Implement suggeste Note that comment # Cl 179C SC 179C.1	near-end crosstalk noise voltag TBD" to "TBD" s in Table 179B-5. <i>Response Status</i> C PLE. d remedy with editorial license #217 proposes a value to use in <i>P</i> 814 Nvidia <i>Comment Status</i> A	n place of TBD.			Signal_ on TX a jump int SuggestedF Referen PMD in Response ACCEP A definit service Howeve	CK as shown in nd another ILT to inter-suplaye Remedy cing Fig 180-2 this clause sup T IN PRINCIPI tive statement interface claus	n Fig 180-2 is from box on the RX has r variables before i would be helfull he oport Inter-sublayer <i>Response Statu</i> LE. as proposed in the re, which is defining helpful to the reader	the Inner s s Signal_OP intorudcing ere. After th r Layer Train us C suggested g interfaces	 K out. We talk ILT. he 1st paragraph ning (ILT) type of remedy is beyond between sublay 	hen goes into ILT box about Signal_OK then h add sentence: The D1, see Annex 178B. and the intent of the vers.
SuggestedRemedy Change "Integrated r noise voltage (max)" Change "Less than T Make similar updates Response ACCEPT IN PRINCII Implement suggeste Note that comment # Cl 179C SC 179C.1 Dawe, Piers Comment Type E Media Dependent Int	near-end crosstalk noise voltag IBD" to "TBD" s in Table 179B-5. <i>Response Status</i> C PLE. d remedy with editorial license #217 proposes a value to use in <i>P</i> 814 Nvidia <i>Comment Status</i> A terface	n place of TBD.			Signal_ on TX a jump int SuggestedF Referen PMD in Response ACCEP A definit service Howeve function In 180.3 of the in	CK as shown ii nd another ILT o inter-suplaye Remedy icing Fig 180-2 this clause sup T IN PRINCIPI tive statement interface claus r, it would be h s in the block of 8, change "train iter-sublayer train	n Fig 180-2 is from box on the RX has r variables before i would be helfull he poprt Inter-sublayer <i>Response Statu</i> LE. as proposed in the e, which is defining helpful to the reader diagram.	the Inner s s Signal_OP intorudcing ere. After th r Layer Train us C suggested g interfaces r to point ou	 K out. We talk ILT. The 1st paragraphing (ILT) type (remedy is beyond between sublay ut references for er training function 	hen goes into ILT box about Signal_OK then h add sentence: The D1, see Annex 178B. and the intent of the vers.
SuggestedRemedy Change "Integrated r noise voltage (max)" Change "Less than T Make similar updates Response ACCEPT IN PRINCI Implement suggeste Note that comment # Cl 179C SC 179C.1 Dawe, Piers Comment Type E Media Dependent Int SuggestedRemedy Medium Dependent	near-end crosstalk noise voltag IBD" to "TBD" s in Table 179B-5. <i>Response Status</i> C PLE. d remedy with editorial license #217 proposes a value to use in <i>P</i> 814 Nvidia <i>Comment Status</i> A terface	n place of TBD.			Signal_ on TX a jump int SuggestedF Referen PMD in Response ACCEP A definit service Howeve function	CK as shown ii nd another ILT o inter-suplaye Remedy icing Fig 180-2 this clause sup T IN PRINCIPI tive statement interface claus r, it would be h s in the block of 8, change "train iter-sublayer train	n Fig 180-2 is from box on the RX has r variables before i would be helfull he poprt Inter-sublayer <i>Response Statu</i> LE. as proposed in the e, which is defining helpful to the reader diagram.	the Inner s s Signal_OP intorudcing ere. After th r Layer Train us C suggested g interfaces r to point ou	 K out. We talk ILT. The 1st paragraphing (ILT) type (remedy is beyond between sublay ut references for er training function 	hen goes into ILT box about Signal_OK then h add sentence: The O1, see Annex 178B. ond the intent of the vers.
SuggestedRemedy Change "Integrated r noise voltage (max)" Change "Less than T Make similar updates Response ACCEPT IN PRINCI Implement suggeste Note that comment # C/ 179C SC 179C.1 Dawe, Piers Comment Type E Media Dependent Int SuggestedRemedy Medium Dependent Int Response ACCEPT IN PRINCI	near-end crosstalk noise voltag TBD" to "TBD" s in Table 179B-5. <i>Response Status</i> C PLE. d remedy with editorial license #217 proposes a value to use in <i>P</i> 814 Nvidia <i>Comment Status</i> A terface Interface <i>Response Status</i> C	n place of TBD.	# <u>519</u>	(bucket)	Signal_ on TX a jump int SuggestedF Referen PMD in Response ACCEP A definit service Howeve function In 180.3 of the in similar v	CM as shown ii nd another ILT to inter-suplaye Remedy acing Fig 180-2 this clause sup T IN PRINCIPI tive statement interface claus er, it would be h s in the block of 8, change "train ter-sublayer train vay.	n Fig 180-2 is from box on the RX has r variables before i would be helfull he oport Inter-sublayer <i>Response Statu</i> LE. as proposed in the e, which is defining helpful to the reader diagram. hing_status of the ir aining (ILT) functior	the Inner s s Signal_OP intorudcing ere. After th r Layer Train us C suggested g interfaces r to point oun nter-sublaye n (see 180.9	 K out. We talk ILT. he 1st paragraphing (ILT) type of remedy is beyond between sublay ut references for er training function 5.12)". Update of 	hen goes into ILT box about Signal_OK then h add sentence: The O1, see Annex 178B. ond the intent of the vers.

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 180 SC 180.3 Page 34 of 48 1/21/2025 9:54:04 AM

C/ 180	SC 180.5.4	P 415	L1	# 318	C/ 180	SC 180	0.8	P 421	L 41	# 321		
Ran, Adee		Cisco			Ran, Adee	•		Cisco				
Comment Ty	ype TR	Comment Status A		(bucketp)	Comment	Туре Е	R	Comment Status A		(bucket)		
"The state of the Global_PMD_signal_detect variable is conveyed to PMD client sublayers					The words "shall meet the" appear twice in succession.							
via the PMD service interface"						SuggestedRemedy						
This is not true anymore; the service interface conveys the state of the ILT function (as shown in the diagram). The variable has a different semantic and is only accessible through management.						once.						
						Response Response Status C						
SuggestedR	Remedy				ACCE	PT.						
Delete th	he quoted sent	ence.			C/ 180	SC 180	0.8	P 421	L 42	# 322		
Implement similarly in other optical PMD clauses as necessary, with editorial license.						•		Cisco				
Response	,, , ,	Response Status C	·····,, ····		Comment	Туре Т	R	Comment Status A		(bucket)		
ACCEP	Т.					e definitior) in 180.9.	ns in 1	80.9" seems irrelevant. The	re are not specifi	cations related to Table		
C/ 180	SC 180.7.1	P 418	L12	# 319	Suggested	Remedy						
Ran, Adee		Cisco			Delete	"per the d	lefinitio	ons in 180.9".				
Comment Ty	ype T	Comment Status R		(withdrawn)	Impler	nent simila	arlv in d	other optical PMD clauses a	s necessarv. with	n editorial license.		
	ximum optical r	eturn loss tolerance in 200G	BASE-DR1 is di	ferent than in the other	Response			Response Status C	, , ,			
PMDs. I assume this is due to the transmitter's connector; if that's true, should there be a different specification for a 200GBASE-DR1 with a multi-fiber MDI (breakout)? The receiver in that						ACCEPT IN PRINCIPLE. Implement suggested remedy with editorial license.						
case can still have a single-lane MDI. Should the transmitter's RINxxOMA in this case be measured with a reflectance					C/ 180	SC 180	0.8.3.1	.1 P424	L1	# 328		
	onding to a sing			Tellectarice	Ran, Adee	1		Cisco				
SuggestedR	Remedy				Comment		R	Comment Status A		(bucket)		
Not sure what the answer is and where this distinction should be made.								GBASE-DR4.		()		
Whatever the solution is, implement similarly in clause 182 as necessary, with editorial license.					SuggestedRemedy Change the reference to Table 180-13.							
Response		Response Status Z			Response			Response Status C				
REJECT	Г.				ACCE	PT		·				
NLJL01												

C/ 180 SC 180.8.3.1.1

										"			
C/ 180 SC 180.9.4	P 430	L 32	# 186		C/ 180		180.9.5	P 430	L 4	# 171			
Brown, Matt	Alphawave Se	emi			Johnson,	John		Broadcom					
Comment Type T	Comment Status A			taps	Comment	Туре	TR	Comment Status A		SE			
Value for minimum "numb	er of equalizer pre-cursor	taps" is TBD.						od points to clause 121.8.5.3,					
SuggestedRemedy								e for 200G/lane AUIs. As give Ils should be 4.56e-4 for unce					
Either set the the value to straddle the minimum/max					Suggested	Remed	ły						
	ACCEPT IN PRINCIPLE.					Add a new exception to the list: "Target PAM4 symbol error ratio of 4.56e-4."							
ACCEPT IN PRINCIPLE.						Response Response Status C							
Table 183-14 set the minir	Based on the results of straw polls TF-1/2/3, in Table 180-18, Table 181-13, Table 182-18, Table 183-14 set the minimum number of pre-cursor taps to 0. In Table 182-18, delete the row specifying number of post-cursor taps.						ACCEPT IN PRINCIPLE. Add a new exception to the list: "The target PAM4 symbol error ratio is 4.56e-4 and the related Q_t value is 3.428." Implement with editorial license.						
Implement with editorial lic	ense.												
Straw poll #TF-1 (Chicago In Table 180-18, Table 18' number of pre-cursor taps A: 0 B: 1 C: 2 D: 3 TF-1: A: 41 B: 24 C: 21 D: TF-2: A: 34 B: 7 C: 7 D: 20	I-13, Table 182-18, Table to: 30		ort setting minimu	IM									
Straw poll #TF-3 (choose 7 In Table 180-18, Table 187 number of pre-cursor taps A: 0 B: 3 A: 43 B: 22	I-13, Table 182-18, Table	e 183-14, I suppo	ort setting minimu	ım									

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 180 SC 180.9.5

Ethernet 4th Task Force review comment

		EEE P802.3dj D	1.3 200 Gb/s,	400 Gb/s,	800 Gb/s, a	nd 1.6 Tb/s E
C/ 180	SC 180.9.5	P 430	L 22	# 240		l support (crosstall
Ghiasi, Al	i	Ghiasi Qunat	um/Marvell			PMD rec
Comment	Type TR	Comment Status A			TDECQ	3, 5, or 7 Yes: 47
TDEC	Q masuremnt ne	eds to define test condition w	when there is an	optional AUI		No: 20
Suggeste	dRemedy					Straw po
confo applic Modu	rming implementa able module stre le stressed input	to the list of requiremetns in 1 ation must meet TDECQ with ss input test as in 176C.4.4.5 tolerance, or 120E.3.4.1 Mod iving the TDECQ pattern.	the exposed AU Receiver jitter to lule stressed input	Il configured for olerance, 1200 ut test and the	or G.3.4.3	I support AUI inpu may be e Yes: 38 No: 28
Response	9	Response Status C				C/ 180
ACCE	PT IN PRINCIPL	.E.				Ghiasi, Ali
The fo	ollowing contribut	ion was reviewed by the CRG	:			Comment Ty
		g/3/dj/public/25_01/ghiasi_3c				Number
- Cou aggre	nter-propagating ssor used in rece	CQ exceptions to be appropri asynchronous optical signals iver stress tests is applied to osstalk test pattern can be pa	(crosstalk) as sp all the PMD rece	eive inputs at [·]	TP3. For	SuggestedRe What wa floating a
		an be pattern 5 or 7.			2,100,	3 similar
Note	that another com	ment proposes adding a new	pattern: PRBS3	1 encoded by	the	Response ACCEPT
		which if adopted may also be				Resolve
		tion where AUI is exposed, th				C/ 180
	e for the SSPRQ E-R signal.	test pattern. The AUI pattern	may be either P	RBS31Q or a	valid	Dudek, Mike
	U U					Comment Ty
Straw I supp data s as pro Yes: 4 No: 18	bort adoption of a stream asynchron oposed in ghiasi_ 48 8	e 1) directional dditional criteria for TDECQ v ous with the transmit path a 3dj_01.				For comr different TDECQ r 183. In number of the TDEC 800GBA 200GBA post curs
	poll TF-5 direct	tional dditional criteria for TDECQ v	where PMD trans	mit clock is		SuggestedRe
synch propo	ronized to the clo sed in ghiasi_3dj	ock recovered on the AUI inpu			as	Make the and max
Yes: 4 No: 24						Response
						ACCEDT

rt adopting exception "- Counter-propagating asynchronous optical signals alk) as specified for the aggressor used in receiver stress tests is applied to all the ceive inputs at TP3. For Clause 180/181, the crosstalk test pattern can be pattern 7. For Clause 182/183, the crosstalk pattern can be pattern 5 or 7."

oll TF-7 -- decision

rt adopting TDECQ exception "- Where transmit direction where AUI is exposed, the ut recovered clock is the clock source for the SSPRQ test pattern. The AUI pattern either PRBS31Q or a valid xBASE-R signal.

C/ 180	SC 1	180.9.5	P 430	L 30	# 251
Ghiasi, Ali			Ghiasi Qunatu	um/Marvell	
Comment	Туре	TR	Comment Status A		taps
Number	or of ore		maximum with min TDD		

r of pre-cursor is maximum with min TBD

Remedy

as agreed during Sept 2024 meeting to go with fixed 3 pre-cursors and not a at least for now, given than agreement merge the TBD and max line and just enter r to FFE length of 15.

Response)	Response Status C		
	PT IN PRINCIPL	E. onse to comment #186		
C/ 180	SC 180.9.5	P 430	L 32	# 422
Dudek, M	ike	Marvell		
Comment	Type TR	Comment Status A		taps

monality of implementation and becasue there is no expected reason for needing a tap allocation for the TDECQ reference equalizer for the different clauses the reference equalizer should be made the same for the clauses 180,181,182 and D1.3 all the clauses have the same 15 FFE length and the same 3 maximum of pre-cursor taps however the minimum number of equalizer pre-cursor taps for CQ reference equalizer is TBD in table 180-18 (for 200GBASE-DR1 etc.) as it is for ASE-FR4-500 in table 181-13 and 800GBASE-FR4 etc. in table 183- 14 whereas for ASE-DR1-2 etc in table 182-18 the format is different with a maximum number of rsor taps of 13 implying a minimum number of pre-cursor taps of 2.

Remedy

e format of the tables the same. Adopt a minimum number of pre-cursor taps of 2 ximum number of ppre-cursor taps of 3 for all the tables.

Response	Response Status	С
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ACCEPT IN PRINCIPLE.

Resolve using the response to comment #186

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 180	Page 37 of 48
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 180.9.5	1/21/2025 9:54:04 AM

SORT ORDER: Clause, Subclause, page, line

Straw poll TF-6 -- decision

C/ 180	SC 180.9.5	P 430	L32	# 172	C/ 180	SC 180.10.1	F	P433	L 47	# 336
Johnson, J	lohn	Broadcom			Ran, Adee		Cis	SC0		
Comment T	Type TR	Comment Status A		taps	Comment Ty	/pe ER	Comment Statu	us A		(bucke
	er proposals, this	nimum number of equalizer p s value should be 0, consiste					in green? It is not e ences in 180.10.2.	expected to	become an act	ive cross-reference.
	<i>Remedy</i> e TBD in Table 1 the associated e				SuggestedR Change	-	these references to	o regular text	i.	
Response		Response Status C			Impleme	ent similarly in	other optical PMD	clauses as r	necessary, with	editorial license.
	PT IN PRINCIPL	-				T IN PRINCIP	Response Statu LE. remedy with editoria			
C/ 180	SC 180.9.5	P 430	L 35	# 331			•		1.40	# 007
Ran, Adee		Cisco			C/ 180	SC 180.11		P435	L 46	# 337
Comment T		Comment Status A		(bucket)	Ran, Adee		Cis			<i>"</i> , ,
Footno	te a of Table 180)-18 says "Relative to main ta	ар".	the dealer and a setting	Comment Ty	•	Comment Statu 3, to PMD_signal_d			(bucke
	ap" is not defined	d anywhere, though it may be	e assumed that i	t is the largest positive	FIVID_S	ignal_actoot_t	s, to r mb_oignal_a			
value. Even w normal	vith that assumpt lized by the main	ion, It is unclear whether this tap's coefficient or that the c	means that the	coefficient limits are	SuggestedR Delete "	emedy	s, to r mb_oignai_a			
value. Even w normal	vith that assumpt	ion, It is unclear whether this tap's coefficient or that the c	means that the	coefficient limits are	SuggestedR Delete "	emedy to".	other optical PMD		necessary, with	n editorial license.
value. Even w normal main ta	vith that assumpt ized by the main ap index is 0, or	ion, It is unclear whether this tap's coefficient or that the c	means that the coefficient indices	coefficient limits are	SuggestedR Delete "	emedy to".	-	clauses as r	necessary, with	editorial license.
value. Even w normal main ta I suspe	with that assumpt lized by the main ap index is 0, or ect the answer is <i>Remedy</i>	ion, It is unclear whether this tap's coefficient or that the c both.	means that the oefficient indices the text.	coefficient limits are s are such that the	SuggestedR Delete " Impleme Response ACCEP	lemedy to". ent similarly in T IN PRINCIP	other optical PMD of Response Statu	clauses as r <i>u</i> s C		editorial license.
value. Even w normal main ta I suspe Suggested. Changu	with that assumpt lized by the main ap index is 0, or ect the answer is <i>Remedy</i> e footnote a to re	ion, It is unclear whether this tap's coefficient or that the c both. "both" but it is not clear from	means that the oefficient indices the text.	coefficient limits are s are such that the	SuggestedR Delete " Impleme Response ACCEP	lemedy to". ent similarly in T IN PRINCIP	other optical PMD o <i>Response Statu</i> LE. ted remedy with ed	clauses as r <i>u</i> s C		editorial license.
value. Even w normal main ta I suspe Suggested. Change values	with that assumpt ized by the main ap index is 0, or ect the answer is <i>Remedy</i> e footnote a to re are relative to th	ion, It is unclear whether this tap's coefficient or that the c both. "both" but it is not clear from ead "The main tap is marked	means that the coefficient indices the text. by i=0. The mini	coefficient limits are s are such that the mum and maximum	SuggestedR Delete " Impleme Response ACCEP Impleme	lemedy to". ent similarly in T IN PRINCIPI ent the sugges	other optical PMD o <i>Response Statu</i> LE. ted remedy with ed	clauses as r <i>Js</i> C litorial licens P 438	se	
value. Even w normal main ta I suspe Suggested. Change values Implem Response ACCEF	with that assumpt lized by the main ap index is 0, or ect the answer is <i>Remedy</i> e footnote a to re are relative to th ment similarly in c PT IN PRINCIPLI	ion, It is unclear whether this tap's coefficient or that the c both. "both" but it is not clear from ad "The main tap is marked is tap's coefficient." other optical PMD clauses as <i>Response Status</i> C E.	means that the oefficient indices the text. by i=0. The mini necessary, with	coefficient limits are s are such that the mum and maximum editorial license.	SuggestedR Delete " Impleme Response ACCEP Impleme Cl 181 Ran, Adee Comment Ty	emedy to". ent similarly in T IN PRINCIPI ent the sugges SC 181.1 ype ER	other optical PMD o Response Statu LE. ted remedy with ed	clauses as r <i>us</i> C litorial licens P 438 sco	se	
value. Even w normal main ta I suspe Suggested. Change values Implem Response ACCEF Implem	with that assumpt lized by the main ap index is 0, or ect the answer is <i>Remedy</i> e footnote a to re are relative to th ment similarly in c PT IN PRINCIPLI	ion, It is unclear whether this tap's coefficient or that the c both. "both" but it is not clear from ead "The main tap is marked is tap's coefficient." other optical PMD clauses as <i>Response Status</i> C E. emedy (also in 181, 182, and	means that the oefficient indices the text. by i=0. The mini necessary, with	coefficient limits are s are such that the mum and maximum editorial license.	SuggestedR Delete " Impleme Response ACCEP Impleme Cl 181 Ran, Adee Comment Ty 169.2 is SuggestedR	to". ent similarly in T IN PRINCIPI ent the sugges SC 181.1 ype ER included in thi	other optical PMD o Response Statu LE. ted remedy with ed F Cis Comment Statu	clauses as r <i>us</i> C litorial licens P 438 sco	se	# 338

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 181 SC 181.1 Page 38 of 48 1/21/2025 9:54:04 AM

C/ 181 SC ·	181.3	P 440	L 2	# 228	C/ 181	SC 181.4.1	P 4	40	L 25	# 340
Ghiasi, Ali		Ghiasi Qunatu	um/Marvell		Ran, Adee		Cisco)		
Comment Type	TR	Comment Status A		signal ok	Comment T	Type ER	Comment Status	Α		(bucke
Signal_OK as	s shown in F	ig 180-2 is from the Inner s	ublayer above t	hen goes into ILT box	169.4 is	s included in t	his amendment.			
		ox on the RX has Signal_Ol ariables before intorudcing		about Signal_OK then	Suggested	Remedy				
SuggestedRemed					Make it	an active link				
Referencing F	- Fig 180-2 wo	ould be helfull here. After ti ort Inter-sublayer Layer Trai				PT IN PRINCI	==-			
Response		Response Status C			Implem	ient suggester	d remedy with editorial	license.		
ACCEPT IN P Resolve using	-	nse to comment #227			C/ 181 Ran, Adee	SC 181.4.2	P4 Cisco	-	L 28	# 341
% 181 SC ·	181.3	P 440	L 6	# 339	Comment T	ype ER	Comment Status	Α		(bucke
an, Adee		Cisco			169.5 is	s included in t	his amendment.			
· · · · · · · · · · · · · · · ·		Comment Status A		(bucket)	Suggested	Remedy				
omment Type	ER			(DUCKEI)	Suggesteur					
"where i = 0 to	o n–1"		(as stated on th		00	an active link	(twice).			
"where i = 0 to For this PMD, Using "n" just	o n–1" , the numbe t makes life w times in th	r of PMD lanes is always 4 harder for the reader, espe le clause, and in some plac	cially since n (wi	ne subsequent line). ith this meaning) only	Make it <i>Response</i> ACCEF	an active link	Response Status	-		
"where i = 0 to For this PMD, Using "n" just appears a few explicit numbe	o n–1" , the numbe t makes life w times in th ers are used	r of PMD lanes is always 4 harder for the reader, espe le clause, and in some plac	cially since n (wi es (e.g. Figure 1	ne subsequent line). ith this meaning) only 181-2, 181.5.2, 181.5.3)	Make it <i>Response</i> ACCEF	an active link	Response Status PLE. d remedy with editorial	license.	L 4	# 173
"where i = 0 to For this PMD, Using "n" just appears a few explicit numbe	n n-1" , the numbe t makes life w times in th ers are used "n" in 800G	r of PMD lanes is always 4 harder for the reader, espe e clause, and in some plac d.	cially since n (wi es (e.g. Figure 1	ne subsequent line). ith this meaning) only 181-2, 181.5.2, 181.5.3)	Make it <i>Response</i> ACCEF Implem	an active link PT IN PRINCI ent suggester SC 181.9.5	Response Status PLE. d remedy with editorial P4:	license.	L 4	# 173
"where i = 0 to For this PMD, Using "n" just appears a few explicit numbe Note that the uggestedRemed Change to "wh	n n-1" , the numbe t makes life w times in th ers are used "n" in 800G dy there i = 0 to	or of PMD lanes is always 4 harder for the reader, espe le clause, and in some plac d. AUI-n is a different variable o 3".	cially since n (wi es (e.g. Figure 1	ne subsequent line). ith this meaning) only 181-2, 181.5.2, 181.5.3)	Make it Response ACCEF Implem Cl 181	an active link PT IN PRINCI Int suggester SC 181.9.5 ohn	Response Status PLE. d remedy with editorial P4:	license. 54 dcom	L4	# <u>173</u> SE
"where i = 0 to For this PMD, Using "n" just appears a few explicit numbe Note that the uggestedRemed Change to "wh	n n-1" , the numbe t makes life w times in th ers are used "n" in 800G dy there i = 0 to	r of PMD lanes is always 4 harder for the reader, espe le clause, and in some plac d. AUI-n is a different variable	cially since n (wi es (e.g. Figure 1	ne subsequent line). ith this meaning) only 181-2, 181.5.2, 181.5.3)	Make it Response ACCEF Implem Cl 181 Johnson, Ju Comment 7 The TD	an active link PT IN PRINCI ent suggested SC 181.9.5 ohn Type TR DECQ test me	Response Status PLE. d remedy with editorial P4 Broad Comment Status thod points to clause 12	license. 54 dcom A 21.8.5.3, whic	ch uses a t	SE arget SER of 4.8e-4,
"where i = 0 to For this PMD, Using "n" just appears a few explicit number Note that the uggestedRemed Change to "wh Delete "The n In 181.5.4 cha	ange n to 4.	er of PMD lanes is always 4 harder for the reader, espe le clause, and in some plac d. AUI-n is a different variable o 3". arallel streams, n, is 4.".	cially since n (wi es (e.g. Figure 1 and should be	ne subsequent line). ith this meaning) only 181-2, 181.5.2, 181.5.3) kept as is.	Make it Response ACCEF Implem Cl 181 Johnson, Ju Comment T The TD which is	an active link T IN PRINCI lent suggested SC 181.9.5 ohn Type TR DECQ test me s not appropri	Response Status PLE. d remedy with editorial P4 Broad Comment Status	license. 54 dcom A 21.8.5.3, which a. As given in	ch uses a t Table 174	SE arget SER of 4.8e-4, A-1, the appropriate
For this PMD, Using "n" just appears a few explicit number Note that the <i>tuggestedRemed</i> Change to "wi Delete "The n In 181.5.4 cha In 181.5.5, in	n, the number t makes life w times in th ers are used "n" in 800G dy where i = 0 to number of pa ange n to 4. Table 181-	or of PMD lanes is always 4 harder for the reader, espe- le clause, and in some place d. AUI-n is a different variable o 3". arallel streams, n, is 4.". 15, and in Table 181-16, ch	cially since n (wi es (e.g. Figure 1 and should be	ne subsequent line). ith this meaning) only 181-2, 181.5.2, 181.5.3) kept as is.	Make it Response ACCEF Implem Cl 181 Johnson, Ju Comment T The TD which is	T IN PRINCI ent suggester SC 181.9.5 ohn SPECQ test me s not appropri or 200G/lane	Response Status PLE. d remedy with editorial P4 Broad Comment Status thod points to clause 12 ate for 200G/lane AUIs	license. 54 dcom A 21.8.5.3, which a. As given in	ch uses a t Table 174	SE arget SER of 4.8e-4, A-1, the appropriate
"where i = 0 to For this PMD, Using "n" just appears a few explicit number Note that the <i>tuggestedRemed</i> Change to "wi Delete "The n In 181.5.4 cha In 181.5.5, in <i>tesponse</i> ACCEPT IN F	n-1" , the number t makes life w times in th ers are used "n" in 800G dy there i = 0 to number of pa ange n to 4. Table 181-	er of PMD lanes is always 4 harder for the reader, espe- le clause, and in some plac d. AUI-n is a different variable o 3". arallel streams, n, is 4.". 15, and in Table 181-16, ch <i>Response Status</i> C	cially since n (wi es (e.g. Figure 1 and should be	ne subsequent line). ith this meaning) only 181-2, 181.5.2, 181.5.3) kept as is.	Make it Response ACCEF Implem C/ 181 Johnson, Ju Comment 7 The TD which is value fo Suggested Add a r	an active link PT IN PRINCI ent suggester SC 181.9.5 ohn Spe TR DECQ test me s not appropri or 200G/lane / Remedy new exception	Response Status PLE. d remedy with editorial P4: Broad <i>Comment Status</i> thod points to clause 12 ate for 200G/lane AUIs AUIs should be 4.56e-4	license. 54 dcom A 21.8.5.3, white a As given in t for uncorrela	ch uses a t Table 174	SE arget SER of 4.8e-4, A-1, the appropriate
"where i = 0 to For this PMD, Using "n" just appears a few explicit numbe Note that the ' uggestedRemed Change to "wi Delete "The n In 181.5.4 cha In 181.5.5, in ' esponse ACCEPT IN F	n-1" , the number t makes life w times in th ers are used "n" in 800G dy there i = 0 to number of pa ange n to 4. Table 181-	er of PMD lanes is always 4 harder for the reader, espe- e clause, and in some plac d. AUI-n is a different variable o 3". arallel streams, n, is 4.". 15, and in Table 181-16, ch <i>Response Status</i> C	cially since n (wi es (e.g. Figure 1 and should be	ne subsequent line). ith this meaning) only 181-2, 181.5.2, 181.5.3) kept as is.	Make it Response ACCEF Implem C/ 181 Johnson, Ju Comment 7 The TD which is value fo Suggested Add a r	an active link PT IN PRINCI ent suggester SC 181.9.5 ohn Spe TR DECQ test me s not appropri or 200G/lane / Remedy new exception	Response Status PLE. d remedy with editorial P4. Broad <i>Comment Status</i> thod points to clause 12 ate for 200G/lane AUIs AUIs should be 4.56e-4 to the list:	license. 54 dcom A 21.8.5.3, which A s given in f for uncorrela	ch uses a t Table 174	SE arget SER of 4.8e-4, A-1, the appropriate

C/ 181 SC 181.9.5

C/ 181	SC 181.9.5	P 454	L 22	# 241		C/ 181	SC 181.9.5	P 454	L 31	# 174
Ghiasi, Ali		Ghiasi Qunatu	m/Marvell			Johnson, .	John	Broadcon	า	
Comment T	Type TR	Comment Status A		TI	DECQ	Comment	Type TR	Comment Status A		taps
TDECO	Q masuremnt ne	eds to define test condition whether the second sec	nen there is an o	optional AUI				ninimum number of equali		
Suggested	•					of furth 121.8.	/	his value should be 0, con	sistent with the 5-ta	IP FFE defined in
		to the list of requiremetns in 18 ation must meet TDECQ with t				Suggested	Remedy			
applica Module	able module stressed input	ss input test as in 176C.4.4.5 tolerance, or 120E.3.4.1 Modu iving the TDECQ pattern. Se Response Status C	Receiver jitter to	olerance, 120G.3.4 ut test and the	4.3	Delete For the	e TBD in Table the associated e editor's consider fer to Table 18	l editors note. deration: If the specs are i	dentical, delete Tab	ble 181-13 completely
•	PT IN PRINCIPL	,				Response		Response Status C		
Resolv	e using the resp	onse to comment #240					PT IN PRINCIF	LE. ponse to comment #186		
C/ 181 Brown, Ma	SC 181.9.5	P 454 Alphawave Se	L 30	# 187		C/ 182	SC 182.3	P 465	L 6	# 229
Comment		Comment Status A			taps	Ghiasi, Ali		Ghiasi Qu	inatum/Marvell	
					iaps	0	Type TR	Comment Status A		sianal ol
Suggested	Remedy	mber of equalizer pre-cursor t				on TX	_OK as shown and another IL	in Fig 180-2 is from the Inr T box on the RX has Signa	I_OK out. We talk	then goes into ILT box
Suggested Eithers straddl Response	Remedy set the the value	e to 0 allowing the number of p maximum columns with a valu <i>Response Status</i> C	re-cursor taps to			Signal on TX jump ir Suggested Refere	_OK as shown and another IL nto inter-suplay IRemedy encing Fig 180-	in Fig 180-2 is from the Inr T box on the RX has Signa er variables before intorud 2 would be helfull here. Af	I_OK out. We talk cing ILT. ter the 1st paragrap	then goes into ILT box about Signal_OK then oh add sentence: The
Suggested Either straddl Response ACCEF	<i>Remedy</i> set the the value le the minimum/r PT IN PRINCIPL	e to 0 allowing the number of p maximum columns with a valu <i>Response Status</i> C	re-cursor taps to			Signal, on TX jump ir Suggestea Refere PMD ir	OK as shown and another IL nto inter-suplay <i>IRemedy</i> encing Fig 180- n this clause su	in Fig 180-2 is from the Inr T box on the RX has Signa er variables before intorud 2 would be helfull here. Af ipport Inter-sublayer Layer	I_OK out. We talk cing ILT. ter the 1st paragrap	then goes into ILT box about Signal_OK then oh add sentence: The
Suggested Either s straddl Response ACCEF Resolv	<i>Remedy</i> set the the value le the minimum/r PT IN PRINCIPL	e to 0 allowing the number of p maximum columns with a valu <i>Response Status</i> C .E. onse to comment #186 <i>P</i> 454	re-cursor taps to e of 3, permittin			Signal, on TX jump ir Suggestea Refere PMD ir Response ACCE	OK as shown and another IL nto inter-suplay <i>IRemedy</i> encing Fig 180- n this clause su	in Fig 180-2 is from the Inr T box on the RX has Signa er variables before intorud 2 would be helfull here. Af pport Inter-sublayer Layer <i>Response Status</i> C PLE.	I_OK out. We talk cing ILT. ter the 1st paragrap	then goes into ILT box about Signal_OK then oh add sentence: The
Suggested, Either straddl Response ACCEF Resolv C/ 181 Ghiasi, Ali	Remedy set the the value e the minimum/r PT IN PRINCIPL re using the resp SC 181.9.5	e to 0 allowing the number of p maximum columns with a valu <i>Response Status</i> C .E. oonse to comment #186	re-cursor taps to e of 3, permittin	g only a value of 3	3.	Signal, on TX jump ir Suggestea Refere PMD ir Response ACCE	OK as shown and another IL nto inter-suplay <i>Remedy</i> encing Fig 180- n this clause su PT IN PRINCIF	in Fig 180-2 is from the Inr T box on the RX has Signa er variables before intorud 2 would be helfull here. Af pport Inter-sublayer Layer <i>Response Status</i> C PLE.	I_OK out. We talk cing ILT. ter the 1st paragrap	then goes into ILT box about Signal_OK then oh add sentence: The
Suggested, Either straddl Response ACCEF Resolv C/ 181 Ghiasi, Ali Comment T	Remedy set the the value e the minimum/r PT IN PRINCIPL re using the resp SC 181.9.5 Type TR	e to 0 allowing the number of p maximum columns with a valu <i>Response Status</i> C .E. ponse to comment #186 P454 Ghiasi Qunatu	re-cursor taps to e of 3, permittin	g only a value of 3		Signal, on TX jump ir Suggestea Refere PMD ir Response ACCE See re	OK as shown and another IL nto inter-suplay <i>Remedy</i> encing Fig 180- n this clause su PT IN PRINCIP esolution to com	in Fig 180-2 is from the Inr T box on the RX has Signa er variables before intorud 2 would be helfull here. Af ppport Inter-sublayer Layer <i>Response Status</i> C PLE. ment #227	I_OK out. We talk cing ILT. ter the 1st paragrap Training (ILT) type <i>L</i> 27	then goes into ILT box about Signal_OK then oh add sentence: The O1, see Annex 178B.
Suggested, Either s straddl Response ACCEF Resolv C/ 181 Ghiasi, Ali Comment T Numbe	Remedy set the the value le the minimum/r PT IN PRINCIPL re using the resp SC 181.9.5 Type TR er of pre-cursor is	e to 0 allowing the number of p maximum columns with a valu <i>Response Status</i> C .E. oonse to comment #186 P454 Ghiasi Qunatu <i>Comment Status</i> A	re-cursor taps to e of 3, permittin	g only a value of 3	3.	Signal, on TX jump ir Suggested Refere PMD ir Response ACCE See re	_OK as shown and another IL nto inter-suplay <i>IRemedy</i> encing Fig 180- n this clause su PT IN PRINCIF esolution to com SC 182.7.1 ary	in Fig 180-2 is from the Inr T box on the RX has Signa er variables before intorud 2 would be helfull here. Af poport Inter-sublayer Layer <i>Response Status</i> C PLE. ment #227 P471	I_OK out. We talk cing ILT. ter the 1st paragrap Training (ILT) type <i>L</i> 27	then goes into ILT box about Signal_OK then oh add sentence: The O1, see Annex 178B.
Suggested, Either s straddl Response ACCEF Resolv C/ 181 Ghiasi, Ali Comment T Numbe Suggested, What v floating	Remedy set the the value e the minimum/r PT IN PRINCIPL re using the resp SC 181.9.5 Type TR er of pre-cursor is Remedy was agreed durin g at least for now	e to 0 allowing the number of p maximum columns with a valu <i>Response Status</i> C .E. onse to comment #186 <i>P</i> 454 Ghiasi Qunatu <i>Comment Status</i> A s maximum with min TBD og Sept 2024 meeting to go wi y, given than agreement merge	re-cursor taps to e of 3, permittin <i>L</i> 30 m/Marvell th fixed 3 pre-cu	g only a value of 3 # 250	3. taps	Signal, on TX jump in Suggestea PMD in Response ACCE See re C/ 182 Landry, Ga Comment OMAo	_OK as shown and another IL nto inter-suplay <i>IRemedy</i> encing Fig 180- n this clause su PT IN PRINCIF esolution to com SC 182.7.1 ary <i>Type</i> T R	in Fig 180-2 is from the Inr T box on the RX has Signa er variables before intorud 2 would be helfull here. Af ipport Inter-sublayer Layer <i>Response Status</i> C PLE. iment #227 P471 Texas Ins <i>Comment Status</i> A CQ, TDECQ) figure was n	I_OK out. We talk cing ILT. ter the 1st paragrap Training (ILT) type <i>L</i> 27	then goes into ILT box about Signal_OK then oh add sentence: The O1, see Annex 178B. # <u>33</u> (bucket)
Suggested, Either s straddl Response ACCEF Resolv C/ 181 Ghiasi, Ali Comment T Numbe Suggested, What v floating	Remedy set the the value e the minimum/r PT IN PRINCIPL re using the resp SC 181.9.5 Type TR er of pre-cursor is Remedy was agreed durin	e to 0 allowing the number of p maximum columns with a valu <i>Response Status</i> C .E. onse to comment #186 <i>P</i> 454 Ghiasi Qunatu <i>Comment Status</i> A s maximum with min TBD og Sept 2024 meeting to go wi y, given than agreement merge	re-cursor taps to e of 3, permittin <i>L</i> 30 m/Marvell th fixed 3 pre-cu	g only a value of 3 # 250	3. taps	Signal, on TX jump in Suggestea PMD in Response ACCE See re C/ 182 Landry, Ga Comment OMAo	_OK as shown and another IL nto inter-suplay <i>IRemedy</i> encing Fig 180- n this clause su PT IN PRINCIF esolution to com <i>SC</i> 182.7.1 ary <i>Type</i> TR suter vs max(TE s were changed	in Fig 180-2 is from the Inr T box on the RX has Signa er variables before intorud 2 would be helfull here. Af ipport Inter-sublayer Layer <i>Response Status</i> C PLE. iment #227 P471 Texas Ins <i>Comment Status</i> A CQ, TDECQ) figure was n	I_OK out. We talk cing ILT. ter the 1st paragrap Training (ILT) type <i>L</i> 27	then goes into ILT box about Signal_OK then oh add sentence: The O1, see Annex 178B. # <u>33</u> (bucket)
Suggested, Either s straddl Response ACCEF Resolv C/ 181 Ghiasi, Ali Comment T Numbe Suggested, What v floating 3 simila Response	Remedy set the the value e the minimum/r PT IN PRINCIPL re using the resp SC 181.9.5 Type TR er of pre-cursor is Remedy was agreed durin g at least for now	e to 0 allowing the number of p maximum columns with a valu <i>Response Status</i> C .E. oonse to comment #186 <i>P</i> 454 Ghiasi Qunatu <i>Comment Status</i> A s maximum with min TBD og Sept 2024 meeting to go wi y, given than agreement merge of 15. <i>Response Status</i> C	re-cursor taps to e of 3, permittin <i>L</i> 30 m/Marvell th fixed 3 pre-cu	g only a value of 3 # 250	3. taps	Signal, on TX jump in Suggested Refere PMD in Response ACCE See re C/ 182 Landry, Ga Comment OMAo values Suggested Update	_OK as shown and another IL nto inter-suplay <i>IRemedy</i> encing Fig 180- n this clause su PT IN PRINCIF esolution to com SC 182.7.1 ary <i>Type</i> TR suter vs max(TE s were changed <i>IRemedy</i> e the figure to r	in Fig 180-2 is from the Inr T box on the RX has Signa er variables before intorud 2 would be helfull here. Af ipport Inter-sublayer Layer <i>Response Status</i> C PLE. iment #227 P471 Texas Ins <i>Comment Status</i> A CQ, TDECQ) figure was n	I_OK out. We talk cing ILT. ter the 1st paragrap Training (ILT) type <i>L</i> 27 truments ot updated when th ecific, OMAouter (m	then goes into ILT box about Signal_OK then oh add sentence: The O1, see Annex 178B. # <u>33</u> (bucket the OMAouter (min) hin) line should be -0.3

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 182	Page 40 of 48
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 182.7.1	1/21/2025 9:54:04 AM
SORT ORDER: Clause, Subelause, page line		

SORT ORDER: Clause, Subclause, page, line

C/ 182	SC 182.9.5	P 483	L1	# 346
Ran, Adee		Cisco		
Comment Ty	rpe TR	Comment Status A		SER

"Target PAM4 symbol error ratio of 9.6 x 10^-3"

If this value is used instead of 4.8e-4 as TDECQ was originally defined, then TDECQ of an ideal transmitter would be negative, because the normalization factor Q_t is "consistent with the BER and target symbol error ratio for Gray coded PAM4" (which is 4.8e-4).

This makes TDECQ something other than a "penalty" as it is typically understood.

In addition, as demonstrated by several presentations, TDECQ with such high SER is not feasible, as test signal achieving the maximum TDECQ cannot be measured.

It would make more sense to keep the target PAM4 SER as 4.8e-4 (with the same Q t) and instead relax the maximum TDECQ value in this clause by a factor corresponding to the lower Q function of the higher SER, to allow a more closed eye:

- For SER=4.8e-4: Q(SER*2/3)=-3.414 (as in 121.8.5.3)

- For SER=9.6e-3: Q(SER*2/3)=-2.489

- 10*log10(3.414/2.489)=1.37 dB

Thus the relaxation should be 1.37 dB.

SuggestedRemedy

Change the target PAM4 SER to 4.8e-4. Change the maximum TDECQ and TECQ from 3.2 dB to 3.2+1.37=4.57 dB. Make corresponding changes to the receiver specifications (SECQ) in Table 181-6.

Implement similarly in clause 183 with modified values as necessary, with editorial license.

Response

Response Status C

ACCEPT IN PRINCIPLE.

Similar as comment #146 to D1.2. A strawpoll was held and it was agreed to maintain the SER value 9.6x10-3. The comment does not contain sufficient evidence that this value not sufficient.

However, the Q t value should be adjusted to align with the SER value. In 182.9.5...

Change: "Target PAM4 symbol error ratio of 9.6×10-3."

To: "The target PAM4 symbol error ratio is 9.6×10-3 and the related Q t value is 2.489." ln 183 9 5

Change: "Target PAM4 symbol error ratio of 9.6×10–3 for 800GBASE-FR4 and 800GBASE-LR4"

To: "The target PAM4 symbol error ratio is 9.6×10-3 and the related Q_t value is 2.489." Implement with editorial license.

C/ 182	SC 182.9.5	P 483	L17	# 242
Ghiasi, Ali		Ghiasi Qunatu	m/Marvell	
Comment Typ	pe TR	Comment Status A		TDECQ

TDECQ masuremnt needs to define test condition when there is an optional AUI

SuggestedRemedy

Add following codition to the list of requiremetns in 180.9.5: Where AUI is exposed, a conforming implementation must meet TDECQ with the exposed AUI configured for applicable module stress input test as in 176C.4.4.5 Receiver jitter tolerance, 120G.3.4.3 Module stressed input tolerance, or 120E.3.4.1 Module stressed input test and the recovered AUI clock driving the TDECQ pattern. See Ghiasi_3dj_01_2501

Response	Response Status	С

ACCEPT IN PRINCIPLE. Resolve using the response to comment #240

C/ 182	SC 182.9.5	P 483	L 25	# 175
Johnson,	John	Broadcom		
Commont		Commont Status		tono

Comment Type TR Comment Status A taps

In Table 182-18, the minimum number of equalizer pre-cursor and post-cursor taps is left blank. In the absence of further proposals, this FFE definition should be the same as given in Table 180-18, and the value for minimum pre-cursor taps should be 0, consistent with the 5-tap FFE defined in 121.8.5.4.

SuggestedRemedy

Format Table 182-18 to be the same as Table 180-18 (delete the row for number of postcursor taps), and change the minimum number of pre-cursor taps to 0.

Delete the associated editors note.

For the editor's consideration: If the specs are identical, delete Table 182-18 completely and refer to Table 180-18.

Response Status C

Response

ACCEPT IN PRINCIPLE.

Resolve using the response to comment #186

C/ 182 SC 182.9.5

C/ 182	SC 182.9.5	P 483	L 25	# 249	C/ 182	SC 182.	2	P 490	L 8	# 110
Ghiasi, Ali		Ghiasi Qunatu	m/Marvell		Mi, Guang	can		Huawei Tecl	hnologies Co., L	td
Comment Ty	ype TR	Comment Status A		taps	Comment	Type ER	Co	mment Status R		(withdrawn)
Number	of pre-cursor is	s not maximum but rather just	3		PMD ty	/pes should	be update	d in the text.		
SuggestedR	Remedy				Suggested	Remedy				
floating a		g Sept 2024 meeting to go wi , given than agreement merg 15.			800GB		, and 1.6T	4" to " type 200GBAS BASE-DR8-2"	SE-DR1-2, 400G	BASE-DR2-2,
Response	• • • <u>-</u> ••••gar •	Response Status C			Response	-	Res	ponse Status Z		
	T IN PRINCIPL	-			REJEC					
		onse to comment #186			This co	omment was	WITHDR	AWN by the comment	ter.	
C/ 182	SC 182.9.5	P 483	L 25	# 189	C/ 183	SC 183.	;	P 494	L 6	# 230
Brown, Matt	t	Alphawave Se	mi		Ghiasi, Ali			Ghiasi Quna	atum/Marvell	
Comment Ty	ype T	Comment Status A		taps	Comment	Type T R	Co	mment Status A		signal ol
Value fo	or minimum "nui	mber of equalizer pre-cursor t	aps" is not spec	ified.	Signal	OK as sho	vn in Fig 1	80-2 is from the Inner	sublayer above	then goes into ILT box
00	2	to 0 allowing the number of p	pre-cursor taps to	o varv from 0 to 3 or	jump ir	nto inter-sup		bles before intorudcin		about Signal_OK then
straddle Response ACCEP ⁻ Resolve	et the the value the minimum/n T IN PRINCIPL using the resp	onse to comment #186	e of 3, permitting	g only a value of 3.	jump ir Suggested Refere PMD ir Response ACCEI	nto inter-sup <i>Remedy</i> ncing Fig 18 n this clause PT IN PRIN	layer varia 60-2 would support Ir <i>Res</i> CIPLE.	bles before intorudcin be helfull here. After ter-sublayer Layer Tra sponse Status C	g ILT. the 1st paragrap	oh add sentence: The O1, see Annex 178B.
Either se straddle Response ACCEP ⁻ Resolve	et the the value the minimum/n T IN PRINCIPL using the respo SC 182.12	naximum columns with a valu <i>Response Status</i> C E. onse to comment #186 P490	e of 3, permitting	g onlý a value of 3. # <u>109</u>	jump ir Suggested Refere PMD ir Response ACCEI	nto inter-sup <i>Remedy</i> ncing Fig 18 n this clause PT IN PRIN	layer varia 60-2 would support Ir <i>Res</i> CIPLE.	bles before intorudcin be helfull here. After ter-sublayer Layer Tra	g ILT. the 1st paragrap	oh add sentence: The
Either se straddle eesponse ACCEP ⁻ Resolve	et the the value the minimum/n T IN PRINCIPL using the resp SC 182.12 an	naximum columns with a valu <i>Response Status</i> C E. onse to comment #186 <i>P</i> 490 Huawei Techn	e of 3, permitting	g onlý a value of 3. # <mark>109</mark>	jump ir Suggested Refere PMD ir Response ACCEI	nto inter-sup <i>Remedy</i> ncing Fig 18 n this clause PT IN PRIN	layer varia 0-2 would support Ir <i>Res</i> CIPLE. response t	bles before intorudcin be helfull here. After ter-sublayer Layer Tra sponse Status C	g ILT. the 1st paragrap	oh add sentence: The
Either se straddle Response ACCEP [®] Resolve C/ 182 <i>M</i> i, Guangca Comment Ty	et the the value the minimum/n T IN PRINCIPL using the resp SC 182.12 an ype ER	naximum columns with a valu Response Status C E. onse to comment #186 P490 Huawei Techn Comment Status R	L3 ologies Co., Ltd	g onlý a value of 3. # <u>109</u>	jump ir Suggested Refere PMD ir Response ACCEI Resolv	nto inter-sup Remedy ncing Fig 18 n this clause PT IN PRIN re using the	layer varia 0-2 would support Ir <i>Res</i> CIPLE. response t	bles before intorudcin be helfull here. After ter-sublayer Layer Tra- sponse Status C o comment #227	g ILT. the 1st paragrap aining (ILT) type L4	oh add sentence: The O1, see Annex 178B.
Either se straddle Response ACCEP ⁻ Resolve C/ 182 <i>N</i> i, Guangca Comment Ty	et the the value the minimum/n T IN PRINCIPL using the resp SC 182.12 an ype ER	naximum columns with a valu <i>Response Status</i> C E. onse to comment #186 <i>P</i> 490 Huawei Techn	L3 ologies Co., Ltd	g onlý a value of 3. # <mark>109</mark>	jump ir Suggested Refere PMD ir Response ACCEI Resolv Cl 183	nto inter-sup Remedy ncing Fig 18 n this clause PT IN PRIN e using the SC 183.9	layer varia 0-2 would support Ir <i>Res</i> CIPLE. response t	bles before intorudcin be helfull here. After ter-sublayer Layer Tra- sponse Status C o comment #227 P509	g ILT. the 1st paragrap aining (ILT) type L4	bh add sentence: The O1, see Annex 178B. # 243
Either se straddle Response ACCEP [®] Resolve C/ 182 Mi, Guangca Comment Ty type 400	et the the value the minimum/n T IN PRINCIPL using the response SC 182.12 an ype ER DGBASE-DR4 is	naximum columns with a valu Response Status C E. onse to comment #186 P490 Huawei Techn Comment Status R	L3 ologies Co., Ltd	g onlý a value of 3. # <mark>109</mark>	jump ir Suggested Refere PMD ir Response ACCEI Resolv CI 183 Ghiasi, Ali Comment	nto inter-sup Remedy ncing Fig 18 n this clause PT IN PRIN e using the SC 183.	layer varia 0-2 would support Ir <i>Res</i> CIPLE. response t 0.5	bles before intorudcin be helfull here. After ter-sublayer Layer Tra- sponse Status C o comment #227 P509 Ghiasi Quna	g ILT. the 1st paragrap aining (ILT) type L4 atum/Marvell	th add sentence: The O1, see Annex 178B. # 243 TDECC
Either se straddle Response ACCEP Resolve 7 182 Ai, Guangca Comment Ty type 400 SuggestedR	et the the value the minimum/n T IN PRINCIPL using the response SC 182.12 an ype ER DGBASE-DR4 is Remedy	naximum columns with a valu Response Status C E. onse to comment #186 P490 Huawei Techn Comment Status R	L3 ologies Co., Ltd	g onlý a value of 3. # <u>109</u> <i>(withdrawn)</i>	jump ir Suggested Refere PMD ir Response ACCEL Resolv Cl 183 Ghiasi, Ali Comment TDECC Suggested	nto inter-sup Remedy ncing Fig 18 n this clause PT IN PRIN e using the SC 183. Type TR Q masurem Remedy	layer varia 60-2 would support Ir <i>Res</i> CIPLE. response t 0.5 <i>Co</i> nt needs to	bles before intorudcin be helfull here. After ter-sublayer Layer Tra- sponse Status C o comment #227 P509 Ghiasi Quna umment Status A define test condition	g ILT. the 1st paragrap aining (ILT) type <i>L4</i> atum/Marvell when there is ar	# 243 TDECC
Either se straddle Response ACCEP Resolve Cl 182 Mi, Guangca Comment Ty type 400 SuggestedR change t DR8-2"	et the the value the minimum/n T IN PRINCIPL using the response SC 182.12 an ype ER DGBASE-DR4 is Remedy	naximum columns with a valu <i>Response Status</i> C E. onse to comment #186 <i>P</i> 490 Huawei Techn <i>Comment Status</i> R s not the PMD type of clause	L3 ologies Co., Ltd	g onlý a value of 3. # <u>109</u> <i>(withdrawn)</i>	jump ir Suggested Refere PMD ir Response ACCEI Resolv C/ 183 Ghiasi, Ali Comment TDECC Suggested Add fo	nto inter-sup Remedy ncing Fig 18 n this clause PT IN PRIN te using the SC 183.9 <i>Type</i> TR Q masurem <i>Remedy</i> Ilowing codi	layer varia 0-2 would support Ir Res CIPLE. response t 0.5 Co to needs to ion to the I	bles before intorudcin be helfull here. After ter-sublayer Layer Tra- sponse Status C o comment #227 P509 Ghiasi Quna amment Status A define test condition ist of requiremetns in	g ILT. the 1st paragrap aining (ILT) type <i>L4</i> atum/Marvell when there is an 180.9.5: Where	th add sentence: The O1, see Annex 178B. # 243 TDECO n optional AUI AUI is exposed, a
Either se straddle Response ACCEP Resolve C/ 182 Mi, Guangca Comment Ty type 400 SuggestedR change DR8-2" Response REJECT	et the the value the minimum/r T IN PRINCIPL using the response SC 182.12 an ype ER OGBASE-DR4 is Remedy to type" 200GB	naximum columns with a valu Response Status C E. onse to comment #186 P490 Huawei Techn Comment Status R s not the PMD type of clause ASE-DR1-2, 400GBASE-DR2 Response Status Z	L3 ologies Co., Ltd 182 2-2, 800GBASE-	g onlý a value of 3. # <u>109</u> <i>(withdrawn)</i>	jump ir Suggested Refere PMD ir Response ACCEI Resolv Cl 183 Ghiasi, Ali Comment TDECC Suggested Add fo conforr applica Module	nto inter-sup Remedy ncing Fig 18 n this clause PT IN PRIN re using the SC 183. Type TR Q masurem Remedy Ilowing codi ming implen able module e stressed in	layer varia 60-2 would support Ir Res CIPLE. response t .5 Cont needs to ion to the I rentation m stress inpu- put tolerar	bles before intorudcin be helfull here. After tter-sublayer Layer Tra- sponse Status C o comment #227 P509 Ghiasi Quna mment Status A define test condition ist of requiremetns in nust meet TDECQ witt ut test as in 176C.4.4. ice, or 120E.3.4.1 Mo	g ILT. the 1st paragrap aining (ILT) type <i>L4</i> atum/Marvell when there is ar 180.9.5: Where h the exposed A 5 Receiver jitter dule stressed in	# 243 # 243 TDECC n optional AUI AUI is exposed, a UI configured for tolerance, 120G.3.4.3 put test and the
Either se straddle Response ACCEP Resolve C/ 182 Wi, Guangca Comment Ty type 400 SuggestedR change DR8-2" Response REJECT	et the the value the minimum/r T IN PRINCIPL using the response SC 182.12 an ype ER OGBASE-DR4 is Remedy to type" 200GB	naximum columns with a valu <i>Response Status</i> C E. onse to comment #186 <i>P</i> 490 Huawei Techn <i>Comment Status</i> R s not the PMD type of clause ASE-DR1-2, 400GBASE-DR2	L3 ologies Co., Ltd 182 2-2, 800GBASE-	g onlý a value of 3. # <u>109</u> <i>(withdrawn)</i>	jump ir Suggested Refere PMD ir Response ACCEI Resolv Cl 183 Ghiasi, Ali Comment TDECC Suggested Add fo conforr applica Module	nto inter-sup Remedy ncing Fig 18 n this clause PT IN PRIN re using the SC 183. Type TR Q masurem Remedy Ilowing codi ming implen able module e stressed in	layer varia 0-2 would support Ir Res CIPLE. response t 0.5 Co to needs to ion to the I nentation m stress inpu- put tolerar k driving th	bles before intorudcin be helfull here. After tter-sublayer Layer Tra- sponse Status C o comment #227 P509 Ghiasi Quna mment Status A define test condition ist of requiremetns in nust meet TDECQ with ut test as in 176C.4.4.	g ILT. the 1st paragrap aining (ILT) type <i>L4</i> atum/Marvell when there is ar 180.9.5: Where h the exposed A 5 Receiver jitter dule stressed in	# 243 # 243 TDECC n optional AUI AUI is exposed, a UI configured for tolerance, 120G.3.4.3 put test and the

C/ 183 SC 183.9.5

C/ 183	SC 183.9.5	P 509	L14	# 176	C/ 184	SC 184.	4.5	P 522	L 5	# 35
Johnson, J	ohn	Broadcom			Huber, Tho	mas		Nokia		
Comment T	Type TR	Comment Status A		taps	Comment 7	Гуре Т		Comment Status A		(bucket
of furth 121.8.5	er proposals, th 5.4.	ninimum number of equalizer p nis value should be 0, consiste			as the i showni	remainder i in Equatio	rom th า (184	arity polynomial says "A pa le division (modulo 2) of m -2)". The intent of this is th he generator polynomial in	(x) x x^16 by the lat the resulting	generator polynomial parity polynomial p(x) is
Suggested	-							ne generator polynomia in	(104-1), but tha	t isin t what the text says.
Delete For the	e TBD in Table the associated editor's consid er to Table 180	editors note. eration: If the specs are ident	iical, delete Tabl	e 183-14 completely	from the	e the text to	modul	"A parity polynomial p(x) o o 2) of m(x) x x^16 by the g	f degree 15 is d jenerator polymo	efined as the remainder omial, as shown in
Response		Response Status C			Response			Response Status C		
	PT IN PRINCIP e using the res	LE. conse to comment #186.			Change		polync	: omial p(x) of degree 15 is c (x) x x16 by the generator p		
C/ 183	SC 183.9.5	P 509	L14	# 188	to: "A p	arity polyn	, omial p	(x) of degree 15 (shown in	Equation 184-2) is defined as the
Brown, Ma	tt	Alphawave Se	emi			der from th on (184–1)'	e divis	ion (modulo 2) of m(x) x x1	6 by the genera	tor polynomial shown in
Comment 1	Гуре Т	Comment Status A		taps	Implem	ient with ec	litorial	license.		
Value f	or minimum "n	umber of equalizer pre-cursor	taps" is TBD.						1 47	# 00
Suggested	Remedy				C/ 184	SC 184.	6.2.2	P530	L 47	# 89
		e to 0 allowing the number of			Opsasnick,	0		Broadcom		
straddl	e the minimum	maximum columns with a value	ue of 3, permittir	ng only a value of 3.	Comment 7		• .	Comment Status A		reset variable
	PT IN PRINCIP e using the res	Response Status C LE. conse to comment #186.			defined (Table	except thr	ough a ady ha	in the definition of the "res a cross-reference to 45.2.1 as a cross reference to 184	1.1. The MDIO	control variables table
C/ 183	SC 183.9.5	P 509	L14	# 248	Suggestedl	Remedy				
Ghiasi, Ali		Ghiasi Qunati	um/Marvell		Remov	e the cross	-refere	ence text "(see 45.2.1.1.1)"	from the definiti	ion of reset in 184.6.2.2.
Comment 7 Numbe	51	<i>Comment Status</i> A is maximum with min TBD		taps				C_reset" to the list of varia a management entity and i		
Suggested	Remedv				Response			Response Status C		
What w floating	/as agreed duri	ng Sept 2024 meeting to go w w, given than agreement merg				PT IN PRIN	-	nse to comment #88.		
					100000	c doing the	10000			
Response		Response Status C								
	PT IN PRINCIP	LE. conse to comment #186.								

C/ 184 SC 184.6.2.2

C/ 184	SC 184.9	P 535	L15	# 2	C/ 185	SC 185.12.4.1	P562	2 L13	# 402
Marris, Artl	nur	Cadence Desi	gn Systems		Maniloff, I	Eric	Ciena		
Comment	Type TR	Comment Status A		reset variable	Comment	Туре Т	Comment Status	4	(bucket)
Make F	EC_reset refere	ence Inner FEC control registe	er 1.2400		Recei	ver nominal center	frequency is not app	licable to this PMD	
Suggested	Remedy				Suggestee	dRemedy			
		ne MDIO bit 1.2400.0 and refe			Delete	e this entry.			
Chang 47	e variable name	from "FEC_reset" to "Inner_F	EC_reset" and	also on page 530 line	Response	•	Response Status	C	
In Tabl		te rows "Inner FEC enable lan	e 1" to "Inner F	EC enable lane 7" and	ACCE	PT.			
)" change "enable" to "reset" or the reset variable change th	e cross referenc	ce from "45 2 1 1 1" to	C/ 185	SC 185.12.4.4	P563	3 L34	# 405
"45.2.1					Maniloff, I		Ciena	-01	
Response		Response Status C			Comment		Comment Status	۵	(bucket)
ACCE	PT IN PRINCIPL	.E.				table range of tran		1	(buonot)
Resolv	e using the resr	oonse to comment #88.				l power is not defir			
				" ==	Suggestee	dRemedy			
C/ 185	SC 185.3.1.1		L13	# 72	Delete	e this entry.			
Sluyski, Mi		Cisco		<i>"</i>	Response	•	Response Status	C	
Comment		Comment Status R		(bucket)	ACCE	PT.			
		eference (184.4.11.1) and late	er to (185.5.2).		C/ 185	SC 185.12.4.4	P56;	3 L36	# 406
Suggested					Maniloff, I		Ciena	200	" 100
is clear	er than words).	clearer to reference Figure 18 Likewise Reference to Figure	185-5 than text	in 185.5.2.	Comment		Comment Status	Δ	(bucket)
Response	,	Response Status C							setting is not applicable to
REJEC	ЭΤ.				clause	e 185 PMDs			
		pecifies the receipt of the PMI			Suggestee	dRemedy			
		184.4.11.1 specifies how the p t included in the Figure 185-2		ed and contains	Delete	e this entry.			
No cha	nge to the draft	C C			Response	,	Response Status	C	
[Editor	s note: changed	subclause from 185.3.1.1 80	0GBASE-L to 1	85.3.1.1]	ACCE	PT.			
C/ 185	SC 185.12.4	.1 <i>P</i> 562	L10	# 401					
Maniloff, E	ric	Ciena							
Comment T Transn	51	Comment Status A enter frequency is not applicab	le to this PMD.	(bucket)					
Suggested Delete	Remedy this entry.								
Response	· , -	Response Status C							
ACCEI	PT.								
		ed ER/editorial required GR/g						C/ 185 SC 185.12.4.4	Page 44 of 48 1/21/2025 9:54:

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

SC 185.12.4.4

C/ 185 SC 185.12.4.2	24 P562	L 40	# 403	C/ 186 SC 186	P 576	L 6	# 182
Maniloff, Eric	Ciena			Brown, Matt	Alphawave	Semi	
Comment Type T	Comment Status A		(bucket)	Comment Type E	Comment Status A		(bucket)
	quency ability is not applicab	le to this PMD			is used but never defined. Bett or a field name of "AM".	er to just spell it o	out. Exception is if it is
SuggestedRemedy Delete this entry.				SuggestedRemedy			
,				Change "AMs" to "	alignment markers".		
Response ACCEPT.	Response Status C			Response	Response Status C		
C/ 185 SC 185.2	P 542	L36	# 71	ACCEPT IN PRIN	CIPLE. hange throughout clause 186. I	mplement with ed	litorial license.
Sluvski, Mike	Cisco	230	# 11		5 5	•	
Comment Type E	Comment Status R		(bucket)	C/ 186 SC 186.2		L 23	# 37
51		as part of the tax		Huber, Thomas	Nokia		
	mbedded parameter values BERadded equal to 6.4 x 10		(e.g. DERadded	Comment Type T The AM field was r	Comment Status A renamed FAM to clarify that it is	not the 800GBAS	(bucket) SE-R AMs.
SuggestedRemedy				SuggestedRemedy	,		
A small table might be c	learer than values buried In	text.		Change OH/AM to			
Response	Response Status C			6			
, REJECT. Stating parameter value:	Response Status C is as text is supported by IEE	EE and widely use	d in IEEE Std 802.3-	Response ACCEPT.	Response Status C		
REJECT.	s as text is supported by IEI	EE and widely use	d in IEEE Std 802.3-	Response	Response Status C	L 5 1	# 38
REJECT. Stating parameter value: 2022. No changes to the draft.	s as text is supported by IEI			Response ACCEPT.	Response Status C	L51	# <u>38</u>
REJECT. Stating parameter value: 2022. No changes to the draft. [Editor's note: changed s	s as text is supported by IEI		o 185.2]	Response ACCEPT. Cl 186 SC 186.2	Response Status C 2.3.6 P572	L51	
REJECT. Stating parameter value: 2022. No changes to the draft. [Editor's note: changed s	s as text is supported by IEF subclause from 185.5.2 Errc P839	or ratio allocation t		Response ACCEPT. Cl 186 SC 186.2 Huber, Thomas Comment Type T	Response StatusC2.3.6P572Nokia		(bucket)
REJECT. Stating parameter value: 2022. No changes to the draft. [Editor's note: changed s C/ 185A SC 185A Dawe, Piers	s as text is supported by IEB subclause from 185.5.2 Errc <i>P</i> 839 Nvidia	or ratio allocation t	o 185.2] # <mark>520</mark>	Response ACCEPT. Cl 186 SC 186.2 Huber, Thomas Comment Type T With the addition c	Response Status C 2.3.6 P572 Nokia Comment Status A	s no longer a subs	<i>(bucket)</i> set of what is in the OIF
Stating parameter value: 2022. No changes to the draft. [Editor's note: changed s Cl 185A SC 185A Dawe, Piers Comment Type TR	s as text is supported by IEB subclause from 185.5.2 Erro P 839 Nvidia Comment Status A	or ratio allocation t	o 185.2]	Response ACCEPT. Cl 186 SC 186.2 Huber, Thomas Comment Type T With the addition c	Response Status C 2.3.6 P572 Nokia Comment Status A of the AML field, the overhead is	s no longer a subs	<i>(bucket)</i> set of what is in the OIF
REJECT. Stating parameter value: 2022. No changes to the draft. [Editor's note: changed s Cl 185A SC 185A Dawe, Piers Comment Type TR ETCC is normative, like	s as text is supported by IEB subclause from 185.5.2 Erro P 839 Nvidia Comment Status A	or ratio allocation t	o 185.2] # <mark>520</mark>	Response ACCEPT. Cl 186 SC 186.2 Huber, Thomas Comment Type T With the addition of IA. Also, the refere SuggestedRemedy Revise the text to r	Response Status C 2.3.6 P572 Nokia Comment Status A of the AML field, the overhead is ence to ITU-T G.709.6 should b read: "The frame overhead is ba	s no longer a subs be to ITU-T G.709. ased on the frame	<i>(bucket,</i> set of what is in the OIF .1 e defined in subclause
REJECT. Stating parameter value: 2022. No changes to the draft. [Editor's note: changed s C/ 185A SC 185A Dawe, Piers Comment Type TR ETCC is normative, like SuggestedRemedy	s as text is supported by IER subclause from 185.5.2 Erro P839 Nvidia Comment Status A TDECQ or COM.	or ratio allocation t	o 185.2] # <mark>520</mark>	Response ACCEPT. Cl 186 SC 186.2 Huber, Thomas Comment Type T With the addition of IA. Also, the refere SuggestedRemedy Revise the text to r 4.3.3 of OIF-8002F	Response Status C 2.3.6 P572 Nokia Comment Status A of the AML field, the overhead is ence to ITU-T G.709.6 should b	s no longer a subs be to ITU-T G.709. ased on the frame	<i>(bucket)</i> set of what is in the OIF .1 e defined in subclause
REJECT. Stating parameter value: 2022. No changes to the draft. [Editor's note: changed s C/ 185A SC 185A Dawe, Piers Comment Type TR ETCC is normative, like SuggestedRemedy Change "informative" to	s as text is supported by IER subclause from 185.5.2 Erro P839 Nvidia <i>Comment Status</i> A TDECQ or COM. "normative.	or ratio allocation t	o 185.2] # <mark>520</mark>	Response ACCEPT. Cl 186 SC 186.2 Huber, Thomas Comment Type T With the addition of IA. Also, the refere SuggestedRemedy Revise the text to r 4.3.3 of OIF-800ZF G.709.1."	Response Status C 2.3.6 P572 Nokia Comment Status A of the AML field, the overhead is ence to ITU-T G.709.6 should b read: "The frame overhead is ba R-01.0, which is a subset of what	s no longer a subs be to ITU-T G.709. ased on the frame	<i>(bucket,</i> set of what is in the OIF .1 e defined in subclause
REJECT. Stating parameter value: 2022. No changes to the draft. [Editor's note: changed s Cl 185A SC 185A Dawe, Piers Comment Type TR ETCC is normative, like SuggestedRemedy	s as text is supported by IER subclause from 185.5.2 Erro P839 Nvidia Comment Status A TDECQ or COM.	or ratio allocation t	o 185.2] # <mark>520</mark>	Response ACCEPT. Cl 186 SC 186.2 Huber, Thomas Comment Type T With the addition of IA. Also, the refere SuggestedRemedy Revise the text to r 4.3.3 of OIF-8002F	Response Status C 2.3.6 P572 Nokia Comment Status A of the AML field, the overhead is ence to ITU-T G.709.6 should b read: "The frame overhead is ba	s no longer a subs be to ITU-T G.709. ased on the frame	<i>(bucket)</i> set of what is in the OIF .1 e defined in subclause

C/ 186 SC 186.2.3.6

C/ 186	SC 186.2.4.1	P 580	L 20	# 127	C/ 186 SC 186.4.	2.1 P 597	L 6	# 41
Slavick, Je	eff	Broadcom			Huber, Thomas	Nokia		
Comment	Туре Т	Comment Status A		(bucket)	Comment Type T	Comment Status A		(bucke
	have the counters ecoder.	be their own sub-headings	just be inline fur	ctionality that is part of	detail), the FAM field	ed in 186.2.3.5.1 (with reference contains 32 bytes that are pro	oviding the frame	alignment pattern, and
Suggested	dRemedy					erved (0x00). The alignment phat are transmitted as 0x00 and		
		to the 186.2.4.1.1 heading '			SuggestedRemedy			
Impler	nented to ald a ne	etwork operator in determini	ig the link quality	1.		of fam_valid to consider only	the 32 bytes that	have the frame
Remo 175.2.		gs of 186.2.4.1.1-4 and ma	ke them inline de	finitions like is done in	"A Boolean variable	her than the entire FAM field: that is set to true if the first 25 chanism sequence"	6 bits of the FAM	field are a valid PCS
•	e the references i ment with editorial				Response	Response Status C		
Response	•	Response Status C			ACCEPT.			
	PT IN PRINCIPLI	E. emedy with editorial license			C/ 186 SC 186.5	P605	L 40	# 192
C/ 186	SC 186.3.3.1.	2 P589	L17	# 40	Brown, Matt Comment Type T	Alphawave S Comment Status R	Semi	(with drown
Huber, Th		Nokia	217	# 40	Comment Type T Delay constraints ar			(withdrawr
	ire 186-13, 'mfas'	Comment Status A should be 'faw' to align with			SuggestedRemedy Expect a contributio	n with proposals.		
		MFAS field in the PCS fram	ne structure in cl	asue 186.2)	Response	Response Status Z		
Suggested Chang	<i>dRemedy</i> ge mfas to faw				REJECT.			
Response		Response Status C			This comment was	VITHDRAWN by the comment	ter.	
ACCE	PT.				C/ 187 SC 187.1	P614	L 8	# 74
					Sluyski, Mike	Cisco		
					Comment Type E	Comment Status A		(bucke
						nerated by these PMD types a quadrature amplitude modula		ing a dual
					SuggestedRemedy			
					either signal is plura	as in signals or the are should	dha is if singular	
						as in signals or the are should	a be is it singular.	
					Response	Response Status C	a de is il singular.	

C/ 187 SC 187.1

	P615	L 34	# 75	C/ 187 SC 187.12.	4.1 <i>P</i> 634	L10	# 410
Sluyski, Mike	Cisco			Maniloff, Eric	Ciena		
Comment Type E Reference 174A.4 is	Comment Status A not linked.		(bucket	Comment Type T Transmitter nominal	Comment Status A center frequency is not applicate	ble to this PMD.	(bucket)
SuggestedRemedy Link reference to 174	A.4			SuggestedRemedy Delete this entry.			
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ 187 SC 187.3.1	.1 <i>P</i> 618	L13	# 76	C/ 187 SC 187.12.	4.1 <i>P</i> 634	L13	# 411
Sluyski, Mike	Cisco			Maniloff, Eric	Ciena		
Comment Type E This clause include a	Comment Status R reference (186.3.3.1.6) and la	ter to (187.5.2).	(bucket	Comment Type T Receiver nominal cer	Comment Status A nter frequency is not applicable	e to this PMD	(bucket)
SuggestedRemedy				SuggestedRemedy			
	d clearer to reference Figure 18). Likewise Reference to Figure			Delete this entry. Response	Response Status C		
Response	Response Status C			ACCEPT.			
The noted referece to relevent information r No change to the dra	specifies the receipt of the PM o 186.3.3.1.6 specifies how the not included in the Figure 187-2 ft ed subclause from "187.3.1.1 8	primitive is create 2 or 187-3.	ed and contains	C/ 187 SC 187.12. Maniloff, Eric Comment Type T PMD receive center f	4.2 P634 Ciena <i>Comment Status</i> A requency ability is not applical	L40	# 412 (bucket)
C/ 187 SC 187.8.6	P 628	L 8	# 160	SuggestedRemedy			
Bruckman, Leon	Nvidia			Delete this entry.			
	Comment Status A		(bucket	Response	Response Status C		
Comment Type ER Redundant "is".				ACCEPT.			
					A A P635	131	# 413
Redundant "is". SuggestedRemedy Change: "ETCC is the	e quality metric is used to defir ality metric used to define"	ıe"		ACCEPT. <i>Cl</i> 187 SC 187.12. Maniloff, Eric	4.4 <i>P</i> 635 Ciena	L 34	# 413
Redundant "is". SuggestedRemedy Change: "ETCC is the	e quality metric is used to defir	ie"		Cl 187 SC 187.12. Maniloff, Eric Comment Type T Adjustable range of t	Ciena Comment Status A	L 34	# 413 (bucket)
Redundant "is". SuggestedRemedy Change: "ETCC is the To: "ETCC is the qua Response	e quality metric is used to defir ality metric used to define"	ie"		Cl 187 SC 187.12. Maniloff, Eric Comment Type T Adjustable range of t	Ciena <i>Comment Status</i> A ransmit	L 34	

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SC 187.12.4.4 1/21/2025 9:54:04 AM SORT ORDER: Clause, Subclause, page, line

C/ 187	SC 187.12.4.4	P63	35	L 36	# 414
Maniloff, E	Eric	Ciena			
Comment	Туре Т	Comment Status	Α		(bucket)
	um average channe e 187 PMDs	el power at maximu	ım adjus	able power set	ting is not applicable to
Suggested	dRemedy				
Delete	e this entry.				
Response ACCE		Response Status	С		

C/ 187 SC 187.12.4.4