CI 177 SC 177.10	P 325	L <b>29</b>	# 1	C/ 171	SC 171.8		P <b>202</b>	L18	# 3
Marris, Arthur	Cadence Des	ign Systems		Marris, Arthu	ır	C	Cadence Des	ign Systems	
Comment Type TR	Comment Status X			Comment Ty	vpe TR	Comment St	atus X		
Change the "enable" SuggestedRemedy	control variables to a single "re	eset" variable			able PHY_XS_ not belong in 1		accuracy_en	able is not prese	nt in Clause 172 and
In Table 177–6 renan Make the variable ref Delete rows for "Inne Delete editor's note b In Table 45–177a del in the row for "1.2400	ete rows "Inner FEC enable la 0.0" change "enable" to "reset"	Inner FEC reset i FEC enable lane ne 1" to "Inner FE	is defined) 7" EC enable lane 7" and		new "Table 171 d move the PH		ed_ptp_accur		trol variable mapping this this new table
"45.2.1.213a"	for the reset variable change the	le closs relefence	e Irom 45.2.1.1.1 to	C/ 171	SC 171.8		P <b>203</b>	L16	# 4
Proposed Response	Response Status 0			Marris, Arthu	ır	C	Cadence Des	ign Systems	
				Comment Ty	vpe TR	Comment St	atus X		
C/ 184 SC 184.9	P 535	L15	# 2			ct, the register na	ames should	be as specified i	n IEEE Std 802.3cx-
Comment Type TR Make FEC_reset refe SuggestedRemedy In Table 184-4 make Change variable nam 47	Cadence Des <i>Comment Status</i> X erence Inner FEC control regist the MDIO bit 1.2400.0 and refu- the from "FEC_reset" to "Inner_	erence 45.2.1.213 FEC_reset" and a	also on page 530 line	variable SuggestedR In Table names. draft 1.2 The Clar be "TX"	naming. emedy 171-3 the regi This was corre state (see IEE use 172 status and vice versa	ster names have ct in draft 1.2 an E Std 802.3cx-2 variable variable Please correct	e had "in ns" d the registe 2023 for the c es names har this	r names need to correct register na	leleted from their be reverted to their
Comment Type TR Make FEC_reset refe SuggestedRemedy In Table 184-4 make Change variable nam 47 In Table 45–177a del in the row for "1.2400 On page 530 line 47	Comment Status X erence Inner FEC control regist the MDIO bit 1.2400.0 and refe	erence 45.2.1.213 FEC_reset" and a ne 1" to "Inner FE	also on page 530 line EC enable lane 7" and	variable SuggestedR In Table names. draft 1.2 The Cla	naming. emedy 171-3 the regi This was corre state (see IEE use 172 status and vice versa	ster names have ct in draft 1.2 an E Std 802.3cx-2 variable variable	e had "in ns" d the registe 2023 for the c es names har this	and "in sub-ns" c r names need to correct register na	leleted from their be reverted to their ames).
Comment Type TR Make FEC_reset refe SuggestedRemedy In Table 184-4 make Change variable nam 47 In Table 45–177a del in the row for "1.2400 On page 530 line 47 "45.2.1.213a"	Comment Status X erence Inner FEC control regist the MDIO bit 1.2400.0 and refine from "FEC_reset" to "Inner_ lete rows "Inner FEC enable lan 0.0" change "enable" to "reset" for the reset variable change th	erence 45.2.1.213 FEC_reset" and a ne 1" to "Inner FE	also on page 530 line EC enable lane 7" and	variable SuggestedR In Table names. draft 1.2 The Clar be "TX"	naming. emedy 171-3 the regi This was corre state (see IEE use 172 status and vice versa	ster names have ct in draft 1.2 an E Std 802.3cx-2 variable variable Please correct	e had "in ns" d the registe 2023 for the c es names har this	and "in sub-ns" c r names need to correct register na	leleted from their be reverted to their ames).
Comment Type TR Make FEC_reset references SuggestedRemedy In Table 184-4 make Change variable name 47 In Table 45–177a del in the row for "1.2400 On page 530 line 47 "45.2.1.213a"	Comment Status X erence Inner FEC control regist the MDIO bit 1.2400.0 and refe he from "FEC_reset" to "Inner_ lete rows "Inner FEC enable lan 0.0" change "enable" to "reset"	erence 45.2.1.213 FEC_reset" and a ne 1" to "Inner FE	also on page 530 line EC enable lane 7" and	variable SuggestedR In Table names. draft 1.2 The Clar be "TX" Proposed Re	naming. emedy 171-3 the regi This was corre state (see IEE use 172 status and vice versa esponse SC 176.11	ster names have ct in draft 1.2 an E Std 802.3cx-2 variable variable . Please correct <i>Response Sta</i>	e had "in ns" d the registe 2023 for the c es names hav this atus <b>O</b> P <b>300</b>	and "in sub-ns" c r names need to correct register na ve "RX" in their n	leleted from their be reverted to their ames). lames when it should
Comment Type TR Make FEC_reset refe SuggestedRemedy In Table 184-4 make Change variable nam 47 In Table 45–177a del in the row for "1.2400 On page 530 line 47 "45.2.1.213a"	Comment Status X erence Inner FEC control regist the MDIO bit 1.2400.0 and refine from "FEC_reset" to "Inner_ lete rows "Inner FEC enable lan 0.0" change "enable" to "reset" for the reset variable change th	erence 45.2.1.213 FEC_reset" and a ne 1" to "Inner FE	also on page 530 line EC enable lane 7" and	variable SuggestedR In Table names. draft 1.2 The Clau be "TX" Proposed Re Cl 176 Marris, Arthu Comment Ty	naming. emedy 171-3 the regi This was corre state (see IEE use 172 status and vice versa esponse SC 176.11 ir	ster names have ct in draft 1.2 an EE Std 802.3cx-2 variable variable Please correct <i>Response Sta</i> Comment Sta	e had "in ns" d the registe 2023 for the c es names har this atus <b>O</b> P <b>300</b> Cadence Des	and "in sub-ns" of r names need to correct register na ve "RX" in their n	leleted from their be reverted to their ames). lames when it should
Make FEC_reset refe SuggestedRemedy In Table 184-4 make Change variable nam 47 In Table 45–177a del in the row for "1.2400 On page 530 line 47	Comment Status X erence Inner FEC control regist the MDIO bit 1.2400.0 and refine from "FEC_reset" to "Inner_ lete rows "Inner FEC enable lan 0.0" change "enable" to "reset" for the reset variable change th	erence 45.2.1.213 FEC_reset" and a ne 1" to "Inner FE	also on page 530 line EC enable lane 7" and	variable SuggestedR In Table names. draft 1.2 The Clau be "TX" Proposed Re Cl 176 Marris, Arthu Comment Ty Table 17 SuggestedR Refer to	naming. emedy 171-3 the regin This was correside (see IEE use 172 status and vice versales and vice versales SC 176.11 ur sc T 76–8 needs pope emedy	ster names have ct in draft 1.2 an E Std 802.3cx-2 variable variable . Please correct <i>Response Sta</i> <i>Comment St</i> pulating	e had "in ns" d the registe 2023 for the c es names have this atus <b>O</b> P <b>300</b> Cadence Des atus <b>X</b>	and "in sub-ns" of r names need to correct register na ve "RX" in their n	deleted from their be reverted to their ames). ames when it should # 5

Comment ID 5

					00 / <del></del> - /		- /	
C/ 45 SC 45.2.1.21		L13	# 6	C/ 177	SC 177.5.1	P33		# 9
Marris, Arthur	Cadence Des	ign Systems		Brown, Ma		•	vave Semi	
Comment Type T	Comment Status X			Comment	51	Comment Status		
Replace the 8 enable b	its with a single reset bit in T	able 45–177a				Q and PRBS31Q gener		
SuggestedRemedy					entary testing of	<ol> <li>A checker on the in a PMD or link.</li> </ol>	riput of the receive pa	an would be helpful for
	e rows "Inner FEC enable la	ne 1" to "Inner FE	C enable lane 7" and	Suggestee				
	" change "enable" to "reset"				-	RBS31Q pattern check	ers to the input of the	Inner FEC receive path.
Proposed Response	Response Status <b>O</b>				Response	Response Status	•	
				FTOPOSEU	Response	Response Status	0	
C/ 178B SC 178B.15	P <b>792</b>	L <b>6</b>	# 7					
/arris, Arthur	Cadence Des	ign Systems		C/ 177	SC 177.4	P33	2 L26	# 10
Comment Type T	Comment Status X	0		Brown, Ma	att	Alphaw	vave Semi	
	ences need to be added to Ta	ables 178B-6 and	178B-7	Comment	Туре Т	Comment Status	Х	
SuggestedRemedy Consider a proposal or	n how to do this during the Ja	inuary 2025 802.3	di task force meeting	a PRE	3S31 test patteri	st the performance of a n with Inner FEC encod Inner FEC sublayer or	ing is required. The g	
Proposed Response	Response Status <b>0</b>			Suggester				
				00		volutional interleaver o	n the transmit path ac	d the ability to insert a
				PRBS	31 (not PRBS3 <sup>-</sup>	1Q) test pattern and at t	the output of the conv	olutional deinterleaver
CI 174A SC 174A.6.2	P <b>739</b>	L15	# 8			d the ability to check a		
Brown, Matt	Alphawave Se	emi						defined in 176.7.4.1 will S31 pattern on the PMA
Comment Type T	Comment Status X					PRBS31 will need to be		
part of a PHY. This res	mitted at a C2M component idual error ratio must be cons ansmitter are constrained.			Proposed	Response	Response Status	0	
SuggestedRemedy				CI 00	SC 0	Р	L	# 11
	tio and block error ratio cons			Brown, Ma	att	Alphaw	vave Semi	
complete PHY. Method more details.	lology may need to be addec	I in 174A. A contr	ibution will provide	Comment	Type E	Comment Status	х	
	need in each of PMD clause	s: 178 through 18	33.		51	efining the various statu	us counters for the PC	CS (175.2.5.3), PMA
Proposed Response	Response Status <b>O</b>			(176.7	7.4.1), and Inner	FEC (177.5.4.1, 184.5. counter definitions in the	.7) vary wildly from cla	
				Suggestee	dRemedy			
				Refor	mat the counter	definitions in 175 2 5 3	176741 177541	and 184 5 7 to be the

Reformat the counter definitions in 175.2.5.3, 176.7.4.1, 177.5.4.1, and 184.5.7 to be the same format. Use either 175.2.5.3 ro 177.5.4.1/184.5.7 as the template.

Proposed Response Response Status **0** 

Comment ID 11

C/ 176 SC 176.7.4.1	P 298	L <b>26</b>	# 12	C/ 180	SC 180.9.5		P <b>430</b>	L <b>46</b>	# 15
rown, Matt	Alphawave Ser	mi		Brown, Matt			Alphawave Se	mi	
omment Type T Cor	nment Status X			Comment T	rpe T	Comment S	Status X		
Some of the block error count counters, if 32 bits, will satura ensure that there is at least 19 2, and 3 should be larger.	te around 30 seconds a	after being reset	t to zero. In order to	specifie footnote	the target val is helpful to ex		n't need to be r		he row for FFE gain footnote. However, the
uggestedRemedy				SuggestedF	-	The sum of the	all oqualizor o	oofficionts "	
Specify the counter size for te bits otherwise.	st_block_error_bin_i_k	to be 48 bits for	r k from 0 to 3 and 32	Proposed R		Response S	•	Jenicienta.	
Proposed Response Res	oonse Status <b>O</b>								
				C/ 176	SC 176.1.3		P <b>270</b>	L32	# 16
176 SC 176.5.4.1.5	P319	L48	# 13	Brown, Matt			Alphawave Se	mi	
own, Matt	Alphawave Ser			Comment T	rpe E	Comment S	Status X		
,	mment Status X					nis subclause ar em alphanumeri			way. Typically for
lane, this index "i" will cause s	ome ambiguity in the m	nanagement var	eed to be defined per riables and MDIO	guidelin http://ww		a/3/WG_tools/ed	ditorial/requirer	nents/words.htr	nl#sort
lane, this index "i" will cause s register definitions. For simila used for this purpose.	ome ambiguity in the m r bin counters defined ir n 177.5.4.1.5 change th	nanagement var n 174A.6 and 17	riables and MDIO 76.7.4.1 the index "k" is	http://ww SuggestedF	w.ieee802.org emedy the terms alph	g/3/WG_tools/ed nanumerically ad <i>Response</i> St	ccording to the		nl#sort
lane, this index "i" will cause s register definitions. For simila used for this purpose. uggestedRemedy For the bin counters defined in 177-7 and definitions in Claus	ome ambiguity in the m r bin counters defined ir n 177.5.4.1.5 change th	nanagement var n 174A.6 and 17	riables and MDIO 76.7.4.1 the index "k" is	http://ww SuggestedF Reorder	w.ieee802.org emedy the terms alph	nanumerically a	ccording to the tatus <b>O</b>		
lane, this index "i" will cause s register definitions. For simila used for this purpose. <i>IggestedRemedy</i> For the bin counters defined in 177-7 and definitions in Claus	nome ambiguity in the m r bin counters defined ir n 177.5.4.1.5 change th e 45 appropriately.	nanagement var n 174A.6 and 17	riables and MDIO 76.7.4.1 the index "k" is	http://ww SuggestedF Reorder Proposed R Cl 177	w.ieee802.org emedy the terms alph esponse	nanumerically a	ccording to the tatus <b>O</b>	guidelines.	nl#sort # <u>17</u>
lane, this index "i" will cause s register definitions. For simila used for this purpose. aggestedRemedy For the bin counters defined in 177-7 and definitions in Claus oposed Response Res	nome ambiguity in the m r bin counters defined ir n 177.5.4.1.5 change th e 45 appropriately.	nanagement var n 174A.6 and 17	riables and MDIO 76.7.4.1 the index "k" is	http://www. SuggestedF Reorder Proposed R Cl 177 Brown, Matt	w.ieee802.org emedy the terms alph esponse SC <b>177.10</b>	nanumerically a	ccording to the tatus <b>O</b> P <b>326</b> Alphawave Se	guidelines.	
lane, this index "i" will cause s register definitions. For simila used for this purpose.uggestedRemedyFor the bin counters defined in 177-7 and definitions in Claus roposed ResponseResponseResponse119SC 119.3	n 177.5.4.1.5 change th e 45 appropriately. bonse Status <b>O</b>	hanagement var n 174A.6 and 17 ne index "i" to "k <i>L</i> <b>33</b>	riables and MDIO 76.7.4.1 the index "k" is ". Also update Table	http://ww SuggestedF Reorder Proposed R Cl 177 Brown, Matt Comment T	w.ieee802.org emedy the terms alph esponse SC 177.10 pe T	nanumerically a Response S Comment S	ccording to the tatus <b>O</b> P <b>326</b> Alphawave Se Status <b>X</b>	guidelines.	# <u>17</u>
lane, this index "i" will cause s register definitions. For simila used for this purpose. IggestedRemedy For the bin counters defined in 177-7 and definitions in Claus oposed Response Response Response 119 SC 119.3 own, Matt	n 177.5.4.1.5 change th e 45 appropriately.	hanagement var n 174A.6 and 17 ne index "i" to "k <i>L</i> <b>33</b>	riables and MDIO 76.7.4.1 the index "k" is ". Also update Table	http://ww SuggestedF Reorder Proposed R Cl 177 Brown, Matt Comment T In Table	w.ieee802.org emedy the terms alph esponse SC 177.10 pe T 177-6 the ena	nanumerically a Response S Comment S	ccording to the tatus <b>O</b> P <b>326</b> Alphawave Se Status <b>X</b>	guidelines.	
lane, this index "i" will cause s register definitions. For simila used for this purpose. <i>uggestedRemedy</i> For the bin counters defined in 177-7 and definitions in Claus roposed Response Response Response 119 SC 119.3	n 177.5.4.1.5 change th e 45 appropriately. bonse Status <b>O</b> P <b>162</b> Alphawave Ser mment Status <b>X</b>	nanagement var n 174A.6 and 17 ne index "i" to "k <i>L</i> <b>33</b> mi	riables and MDIO 76.7.4.1 the index "k" is ". Also update Table # 14	http://ww SuggestedF Reorder Proposed R Cl 177 Brown, Matt Comment T In Table SuggestedF	w.ieee802.org emedy the terms alph esponse SC 177.10 pe T 177-6 the ena emedy	nanumerically a Response S Comment S	P 326 Alphawave Se Status X er defined in th	guidelines. <i>L</i> 9 mi nis clause nor a	# <u>17</u> re they necessary.
lane, this index "i" will cause s register definitions. For simila used for this purpose. uggestedRemedy For the bin counters defined in 177-7 and definitions in Claus roposed Response Response Response 1 119 SC 119.3 rown, Matt comment Type T Con	n 177.5.4.1.5 change th e 45 appropriately. bonse Status <b>O</b> P162 Alphawave Ser mment Status <b>X</b> d for 800GBASE-R and R PCS. These counters	nanagement var n 174A.6 and 17 ne index "i" to "k <i>L</i> 33 mi d 1.6TBASE-R F	riables and MDIO 76.7.4.1 the index "k" is ". Also update Table # 14 PCS but not for the	http://ww SuggestedF Reorder Proposed R Cl 177 Brown, Matt Comment T In Table SuggestedF	w.ieee802.org emedy the terms alph esponse SC 177.10 pe T 177-6 the ena emedy the enable bit	nanumerically a <i>Response S</i> <i>Comment S</i> ble bits are nev	CCORDING TO THE CORDING TO THE P326 Alphawave Se Catus X er defined in the 17-6 and delete	guidelines. <i>L</i> 9 mi nis clause nor a	# <u>17</u> re they necessary.
lane, this index "i" will cause s register definitions. For simila used for this purpose. uggestedRemedy For the bin counters defined in 177-7 and definitions in Claus roposed Response Response Response 1 119 SC 119.3 rown, Matt comment Type T Con Error bin counters are provide 200GBASE-R or 400GBASE- PHY receive path per 174A.7.	n 177.5.4.1.5 change th e 45 appropriately. bonse Status <b>O</b> P162 Alphawave Ser mment Status <b>X</b> d for 800GBASE-R and R PCS. These counters	nanagement var n 174A.6 and 17 ne index "i" to "k <i>L</i> 33 mi d 1.6TBASE-R F	riables and MDIO 76.7.4.1 the index "k" is ". Also update Table # 14 PCS but not for the	http://ww SuggestedF Reorder Proposed R Cl 177 Brown, Matt Comment T In Table SuggestedF Remove	w.ieee802.org emedy the terms alph esponse SC 177.10 pe T 177-6 the ena emedy the enable bit	nanumerically a <i>Response S</i> <i>Comment S</i> Ible bits are nev	CCORDING TO THE CORDING TO THE P326 Alphawave Se Catus X er defined in the 17-6 and delete	guidelines. <i>L</i> 9 mi nis clause nor a	# <u>17</u> re they necessary.
lane, this index "i" will cause s register definitions. For simila used for this purpose. uggestedRemedy For the bin counters defined in 177-7 and definitions in Claus troposed Response Response Response 119 SC 119.3 rown, Matt comment Type T Con Error bin counters are provide 200GBASE-R or 400GBASE-	ome ambiguity in the m r bin counters defined in n 177.5.4.1.5 change th e 45 appropriately. bonse Status <b>O</b> P162 Alphawave Ser mment Status <b>X</b> d for 800GBASE-R and R PCS. These counters rs FEC_codeword_erro	hanagement var h 174A.6 and 17 he index "i" to "k <i>L</i> 33 mi d 1.6TBASE-R F s are needed for r_bin_i as define	riables and MDIO 76.7.4.1 the index "k" is ". Also update Table # 14 PCS but not for the r accurate testing of a ed in 172.3.6 stating	http://ww SuggestedF Reorder Proposed R Cl 177 Brown, Matt Comment T In Table SuggestedF Remove	w.ieee802.org emedy the terms alph esponse SC 177.10 pe T 177-6 the ena emedy the enable bit	nanumerically a <i>Response S</i> <i>Comment S</i> Ible bits are nev	CCORDING TO THE CORDING TO THE P 326 Alphawave Se Catus X er defined in the 17-6 and delete	guidelines. <i>L</i> 9 mi nis clause nor a	# <u>17</u> re they necessary.

C/ 176 SC 176.7.4	P 298	L3	# 18	C/ 175	SC 175.2.5.	3 P254	L 41	# 21
Brown. Matt	Alphawave Ser	-	# 10	Brown. Ma		3 P 254 Alphawave S		# 21
Comment Type <b>T</b>	Comment Status X	111		Comment		Comment Status X	CIIII	
Subclause 176.7.4 sp are optional but does PRBS31Q, PRBS130 PRBS31Q and PRBS	pecifies that test pattern generat not elaborate which ones. Nece Q, SSPRQ, and square wave. N	essary pattern	generators are	The fo	ollowing descript network operato al.	ion is overly specific: "The foll r in determining the link qualit		
SuggestedRemedy				Chang	ge to "The follow	ing counters shall be impleme	ented:"	
Create a subclause for refer back to 120.5.1	or each pattern generator and cl 1.2.x for details.	necker that is o	optionally required and	Proposed	Response	Response Status 0		
Proposed Response	Response Status O							
				C/ 176	SC 176.8	P 199	L <b>9</b>	# 22
C/ 176 SC 176.7.4	P 298	L3	# 19	Brown, Ma	att	Alphawave S	emi	
Brown. Matt	Alphawave Ser	ni		Comment	Туре Т	Comment Status X		
Comment Type T	Comment Status X 135 adopted response said that		block error counters	one fo	r 800GBASE-R	BASE-R, 400GBASE-R, and 1 PMAs may need to be refined		IAs are TBD and the
were mandatory but r	not the checker. The PRBS31Q	pattern checke		Suggested	-			
checking is needed for	or PMD and AUI component tes	ting.			t a contribution	with proposals. Fable 116-7, 169-4, and Table	174-4 with the	adopted numbers
SuggestedRemedy Specify that the PRB	S31Q pattern check is mandato	ry.		•	Response	Response Status <b>O</b>		
Proposed Response	Response Status 0							
				C/ 186	SC 186.5	P605	L <b>39</b>	# 23
C/ 176 SC 176.5.4	.1.5 <i>P</i> 319	L48	# 20	Brown, Ma	att	Alphawave S	emi	
Brown, Matt	Alphawave Ser		11 20	Comment	Туре Т	Comment Status X		
Comment Type T	Comment Status X			Delay	limits for 800GE	BASE-ER1 PC1 are TBD.		
The index "i" is typica	Ily used for the lane number. Si cause some ambiguity in the n			S <i>uggested</i> Expec	<i>Remedy</i> t a contribution	with proposals.		
	or similar bin counters defined in			Proposed	Response	Response Status O		
SuggestedRemedy								
	defined in 177.5.4.1.5 change th in Clause 45 appropriately.	e index "i" to "	k". Also update Table					
Proposed Response	Response Status O							

C/ 116 SC 116.4	P150	L <b>52</b>	# 24	C/ 177	SC 177.8	P <b>324</b>	L17	# 27
Brown, Matt	Alphawave Ser	ni		Brown, Matt		Alphawave Se	mi	
Comment Type E	Comment Status X			Comment T	rpe <b>T</b>	Comment Status X		
in 177.7. SuggestedRemedy	0GBASE-R Inner FEC are TBE		6 but are indeed defined	defined derived	n 116, 169, ar rom these. No	not defined for the PMAs. Howe and 174 and thus the numbers. the however, that the combinat re any skew allocation.	The PMA skew	constraints may be
Update Table 116-6 w	ith the delay numbers specified	l in 177.7.		SuggestedR	emedv	-		
Proposed Response	Response Status O			00	,	with proposals.		
				Proposed R	esponse	Response Status O		
C/ 116 SC 116.4	P151	L <b>49</b>	# 25					
Brown, Matt	Alphawave Ser	ni		C/ 178	SC 178.7.1	P338	L 42	# 28
Comment Type E	Comment Status X			Brown, Matt		Alphawave Ser	mi	
Delay limits for the 40 in 177.7.	0GBASE-R Inner FEC are TBD	in Table 116-	7 but are indeed defined	Comment T		Comment Status X		
SuggestedRemedy				The ske	w numbers fro	m previous generations should	d be fine.	
Update Table 116-7 w	ith the delay numbers specified	l in 177.7.		SuggestedR	emedy			
Proposed Response	Response Status <b>O</b>			Delete t	ne editor's note	9.		
				Proposed R	esponse	Response Status O		
C/ 176 SC 176.9	P 299	L <b>24</b>	# 26					
Brown, Matt	Alphawave Sei	ni		C/ <b>178</b>	SC 178.7.2	P 339	L12	# 29
Comment Type T	Comment Status X			Brown, Matt		Alphawave Ser	mi	
defined in 116, 169, a	not defined for the PMAs. Howe nd 174 and thus the numbers.			Comment Ty Skew co	•	Comment Status X .6TBASE-R based on 800GBA	SE-R should be	e fine.
derived from these.				SuggestedR	emedy			
SuggestedRemedy				Delete t	ne editor's note	э.		
Expect a contribution	with proposals.			Proposed R	esponse	Response Status <b>O</b>		

C/ 179 SC 179.7.1	P368	L <b>41</b>	# 30	C/ 182	SC 182.7.1	P 471	L <b>27</b>	# 33
Brown, Matt	Alphawave Se	emi		Landry, G	ary	Texas Instrur	nents	
Comment Type T	Comment Status X			Comment	Type TR	Comment Status X		
The skew numbers fi SuggestedRemedy	rom previous generations shou	ld be fine.			outer vs max(TE0 s were changed i	CQ, TDECQ) figure was not u in D1.3.	pdated when the	OMAouter (min)
Delete the editor's no	nte.			Suggeste	dRemedy			
Proposed Response	Response Status <b>O</b>					atch D1.3 data. To be specifi DECQ) < 0.9 dB and 1.2+ma		
				Proposed	Response	Response Status O		
C/ 179 SC 179.7.2	P 369	L12	# 31					
Brown, Matt	Alphawave Se	emi		C/ 177	SC 177.4.2	P311	L 25	# 34
Comment Type T	Comment Status X			Huber. Th	omas	Nokia		
Skew constraints for	1.6TBASE-R based on 800GB	ASE-R should b	e fine.	Comment		Comment Status X		
SuggestedRemedy Delete the editor's no	ote.			delay	s for each delay	bit repetetive. The four para line for each rate in detail, and of the same thing.		
Proposed Response	Response Status <b>O</b>			Suggeste	•	<b>J</b>		
				00		raphs to be algorithmic rather	than per-rate:	
C/ 184 SC 184.5.7	P 528	L36	# 32			ine 0) delays the data by 4x2 Q RS-FEC symbols, and the		
Brown, Matt	Alphawave Se	emi				nown in table 177-X."	last line (Delay L	line 2) adds no delay.
Comment Type T	Comment Status X					umn for the rate (200GBASE-	R, 400GBASE-R	, etc.) and a column for
Bin counters are not	provided for the BCH codeword	ds.			llue of Q.	t lin 51 that starts with "The n	umber O differs f	or each " and the
SuggestedRemedy						this information is replaced by		
Add bin counters def	ined in the same way as for the change the index "i" to "k", set the more bits corrected.			Proposed	Response	Response Status <b>O</b>		
Proposed Response	Response Status 0							

Comment ID 34

C/ 184 SC	184.4.5	P 522	L <b>5</b>	# 35	C/ 186	SC 186.2.3.6	6 P 572	L 51	# 38
Huber, Thomas		Nokia			Huber, Thom	as	Nokia		
Comment Type	т	Comment Status X			Comment Ty	pe T	Comment Status X		
as the remain showni in Equ	nder from th uation (184	arity polynomial says "A part ne division (modulo 2) of m(x -2)". The intent of this is tha	x) x x^16 by the at the resulting p	generator polynomial arity polynomial p(x) is		the reference	e AML field, the overhead is e to ITU-T G.709.6 should b		
in equation 18	84-2 (with t	he generator polynomial in (	184-1), but that	isn't what the text says.		-	: "The frame overhead is b	asad on the frame	defined in subclause
SuggestedRemea	dy						.0, which is a subset of wh		
	sion (modul	"A parity polynomial p(x) of o 2) of m(x) x x^16 by the ge			G.709.1. Proposed Re		Response Status O		
Proposed Respon	nse	Response Status 0							
					C/ 186	SC 186.3.3	P 587	L <b>34</b>	# 39
C/ 186 SC	186	P 565	L1	# 36	Huber, Thom	as	Nokia		
luber. Thomas	100	Nokia	21	# 50	Comment Ty	pe E	Comment Status X		
Comment Type	т	Comment Status X					of hierarchy in the PMA cla PCS has Transmit and Rec		
a separate PC OIF 800ZR sp	CS creates pecification	SE-ER1 PHY, it has become some difficulties, largely be with which we are trying to	cause that mode align. The introc	el does not match the luction of the AMLT	and Rx d	irections as cl	s to have been inherited fro learly as this PMA does.	om other PMAs th	at don't distinguish Tx
a separate PC OIF 800ZR sp feature exace	CS creates pecification erbates the the 800GX	some difficulties, largely be	cause that mode align. The introc PHY-specific be	el does not match the luction of the AMLT haviors to be	and Rx d SuggestedRe	irections as cl emedy the extra laye		om other PMAs th	at don't distinguish Tx
a separate PC OIF 800ZR sp feature exace introduced to	CS creates pecification erbates the the 800GX gnostic.	some difficulties, largely be with which we are trying to misalignment and requires I	cause that mode align. The introc PHY-specific be	el does not match the luction of the AMLT haviors to be	and Rx d <i>SuggestedRe</i> Remove	irections as cl emedy the extra laye unctions.	learly as this PMA does.	om other PMAs th	at don't distinguish Tx
a separate PC OIF 800ZR sp feature exace introduced to being PHY-ag SuggestedRemed Two broad op	CS creates pecification erbates the the 800GX gnostic. dy ptions: mod	some difficulties, largely be with which we are trying to misalignment and requires I S, which is not really consis ify clause 171 to include spe	cause that mode align. The introc PHY-specific be tent with the con ecification of a s	el does not match the luction of the AMLT haviors to be ncept of the XS as eparate 800GBASE-	and Rx d <i>SuggestedRe</i> Remove receive f	irections as cl emedy the extra laye unctions.	learly as this PMA does. r of hierarchy. Make 186.3	om other PMAs th	at don't distinguish Tx
a separate PC OIF 800ZR sp feature exace introduced to being PHY-ag SuggestedRemea Two broad op ER1 PHY_XS	CS creates pecification erbates the the 800GX gnostic. dy ptions: mod S to avoid ir	some difficulties, largely be with which we are trying to misalignment and requires I S, which is not really consis ify clause 171 to include spe troducing PHY-specific beh	cause that mode align. The introc PHY-specific be tent with the con ecification of a s pavior to the 800	el does not match the luction of the AMLT haviors to be ncept of the XS as eparate 800GBASE- GXS, or revise clause	and Rx d <i>SuggestedRe</i> Remove receive f	irections as cl emedy the extra laye unctions.	learly as this PMA does. r of hierarchy. Make 186.3 <i>Response Status</i> <b>O</b>	om other PMAs th	at don't distinguish Tx
a separate PC OIF 800ZR sp feature exace introduced to being PHY-ag SuggestedRemed Two broad op ER1 PHY_XS 186 to define	CS creates pecification erbates the the 800GX gnostic. dy ptions: mod S to avoid ir an ER1 FE	some difficulties, largely be with which we are trying to misalignment and requires I S, which is not really consis ify clause 171 to include spe	cause that mode align. The introc PHY-specific be tent with the con ecification of a s avior to the 800 CS sublayer to a	el does not match the luction of the AMLT haviors to be ncept of the XS as eparate 800GBASE- GXS, or revise clause void the need for an XS	and Rx d SuggestedRe Remove receive f Proposed Re	irections as cl emedy the extra laye unctions. Isponse SC <b>186.3.3.1</b>	learly as this PMA does. r of hierarchy. Make 186.3 <i>Response Status</i> <b>O</b>	om other PMAs the	nctions, and 186.3.4 the
a separate PC OIF 800ZR sp feature exace introduced to being PHY-ag SuggestedRemed Two broad op ER1 PHY_XS 186 to define that is specific	CS creates pecification erbates the the 800GX gnostic. dy ptions: mod S to avoid ir e an ER1 FE ic to the ER	some difficulties, largely be with which we are trying to misalignment and requires I S, which is not really consis ify clause 171 to include spe troducing PHY-specific beh C sublayer rather than a PC	cause that mode align. The introc PHY-specific be tent with the con ecification of a s avior to the 800 CS sublayer to a	el does not match the luction of the AMLT haviors to be ncept of the XS as eparate 800GBASE- GXS, or revise clause void the need for an XS	and Rx d SuggestedRe Remove receive fr Proposed Re C/ 186 Huber, Thom	irections as cl emedy the extra laye unctions. sponse SC <b>186.3.3.1</b> as	learly as this PMA does. r of hierarchy. Make 186.3 <i>Response Status</i> <b>O</b>	om other PMAs the	at don't distinguish Tx
a separate PC OIF 800ZR sp feature exace introduced to being PHY-ag SuggestedRemed Two broad op ER1 PHY_XS 186 to define that is specific Proposed Respon	CS creates pecification erbates the the 800GX gnostic. <i>dy</i> ptions: mod S to avoid ir e an ER1 FE ic to the ER <i>nse</i>	some difficulties, largely be with which we are trying to misalignment and requires I S, which is not really consis ify clause 171 to include spe troducing PHY-specific beh C sublayer rather than a PC 1 PHY. A more detailed pre <i>Response Status</i> <b>O</b>	cause that mode align. The introc PHY-specific be tent with the con ecification of a s lavior to the 800 CS sublayer to a esentation will be	el does not match the luction of the AMLT haviors to be ncept of the XS as eparate 800GBASE- GXS, or revise clause void the need for an XS e provided.	and Rx d SuggestedRe Remove receive fr Proposed Re C/ 186 Huber, Thom Comment Ty In figure	irections as cl emedy the extra laye unctions. sponse SC 186.3.3.1 as pe T 186-13, 'mfas	learly as this PMA does. r of hierarchy. Make 186.3 <i>Response Status</i> <b>O</b> I.2 <i>P</i> 589 Nokia	om other PMAs the	at don't distinguish Tx nctions, and 186.3.4 the # 40 3.3.1.5 (faw is used her
a separate PC OIF 800ZR sp feature exace introduced to being PHY-ag SuggestedRemed Two broad op ER1 PHY_XS 186 to define that is specific Proposed Respon	CS creates pecification erbates the the 800GX gnostic. dy ptions: mod S to avoid ir e an ER1 FE ic to the ER	some difficulties, largely be with which we are trying to misalignment and requires I S, which is not really consis ify clause 171 to include spe troducing PHY-specific beh C sublayer rather than a PC 1 PHY. A more detailed pre <i>Response Status</i> <b>O</b> <i>P</i> <b>568</b>	cause that mode align. The introc PHY-specific be tent with the con ecification of a s avior to the 800 CS sublayer to a	el does not match the luction of the AMLT haviors to be ncept of the XS as eparate 800GBASE- GXS, or revise clause void the need for an XS	and Rx d SuggestedRe Remove receive fr Proposed Re C/ 186 Huber, Thom Comment Ty In figure	irections as cl emedy the extra laye unctions. sponse SC 186.3.3.1 as pe T 186-13, 'mfas conflict with th	learly as this PMA does. r of hierarchy. Make 186.3 <i>Response Status</i> <b>O</b> I.2 <i>P</i> 589 Nokia <i>Comment Status</i> <b>X</b> ' should be 'faw' to align wi	om other PMAs the	at don't distinguish Tx nctions, and 186.3.4 the # 40 3.3.1.5 (faw is used her
a separate PC OIF 800ZR sp feature exace introduced to being PHY-ag SuggestedRemed Two broad op ER1 PHY_XS 186 to define that is specific Proposed Respon	CS creates pecification erbates the the 800GX gnostic. dy ptions: mod S to avoid ir an ER1 FE ic to the ER nse 186.2.2	some difficulties, largely be with which we are trying to misalignment and requires I S, which is not really consis ify clause 171 to include spe troducing PHY-specific beh C sublayer rather than a PC 1 PHY. A more detailed pre <i>Response Status</i> <b>O</b> <i>P</i> <b>568</b> Nokia	cause that mode align. The introc PHY-specific be tent with the con ecification of a s lavior to the 800 CS sublayer to a esentation will be	el does not match the luction of the AMLT haviors to be ncept of the XS as eparate 800GBASE- GXS, or revise clause void the need for an XS e provided.	and Rx d SuggestedRe Remove receive fr Proposed Re C/ 186 Huber, Thom Comment Ty In figure to avoid SuggestedRe	irections as cl emedy the extra laye unctions. sponse SC 186.3.3.1 as pe T 186-13, 'mfas conflict with th	learly as this PMA does. r of hierarchy. Make 186.3 <i>Response Status</i> <b>O</b> I.2 <i>P</i> 589 Nokia <i>Comment Status</i> <b>X</b> ' should be 'faw' to align wi	om other PMAs the	at don't distinguish Tx nctions, and 186.3.4 the # 40 3.3.1.5 (faw is used her
a separate PC OIF 800ZR sp feature exace introduced to being PHY-ag SuggestedRemed Two broad op ER1 PHY_XS 186 to define that is specific Proposed Respon	CS creates pecification erbates the the 800GX gnostic. dy ptions: mod S to avoid ir an ER1 FE ic to the ER nse 186.2.2 T	some difficulties, largely be with which we are trying to misalignment and requires I S, which is not really consis ify clause 171 to include spe troducing PHY-specific beh C sublayer rather than a PC 1 PHY. A more detailed pre <i>Response Status</i> <b>O</b> <i>P</i> <b>568</b>	cause that mode align. The introc PHY-specific be tent with the con ecification of a s lavior to the 800 CS sublayer to a esentation will be	el does not match the luction of the AMLT haviors to be ncept of the XS as eparate 800GBASE- GXS, or revise clause void the need for an XS e provided. # 37	and Rx d SuggestedRe Remove receive fr Proposed Re C/ 186 Huber, Thom Comment Ty In figure to avoid SuggestedRe	irections as cl emedy the extra laye unctions. sponse SC 186.3.3.1 as pe T 186-13, 'mfas conflict with th emedy mfas to faw	learly as this PMA does. r of hierarchy. Make 186.3 <i>Response Status</i> <b>O</b> I.2 <i>P</i> 589 Nokia <i>Comment Status</i> <b>X</b> ' should be 'faw' to align wi	om other PMAs the	at don't distinguish Tx nctions, and 186.3.4 the # 40 3.3.1.5 (faw is used her
a separate PC OIF 800ZR sp feature exace introduced to being PHY-ag SuggestedRemed Two broad op ER1 PHY_XS 186 to define that is specific Proposed Respon C/ 186 SC Huber, Thomas Comment Type The AM field of	CS creates pecification erbates the the 800GX gnostic. dy ptions: mod S to avoid ir e an ER1 FE ic to the ER nse 186.2.2 T was renam	some difficulties, largely be with which we are trying to misalignment and requires I S, which is not really consis ify clause 171 to include spe- troducing PHY-specific beh C sublayer rather than a PC 1 PHY. A more detailed pre- <i>Response Status</i> <b>O</b> <i>P</i> 568 Nokia <i>Comment Status</i> <b>X</b>	cause that mode align. The introc PHY-specific be tent with the con ecification of a s lavior to the 800 CS sublayer to a esentation will be	el does not match the luction of the AMLT haviors to be ncept of the XS as eparate 800GBASE- GXS, or revise clause void the need for an XS e provided. # 37	and Rx d SuggestedRe Remove receive fr Proposed Re Cl 186 Huber, Thom Comment Ty In figure to avoid SuggestedRe Change	irections as cl emedy the extra laye unctions. sponse SC 186.3.3.1 as pe T 186-13, 'mfas conflict with th emedy mfas to faw	learly as this PMA does. r of hierarchy. Make 186.3 <i>Response Status</i> <b>O</b> 1.2 <i>P</i> 589 Nokia <i>Comment Status</i> <b>X</b> ' should be 'faw' to align wi he MFAS field in the PCS fr	om other PMAs the	at don't distinguish Tx nctions, and 186.3.4 the # 40 3.3.1.5 (faw is used her
a separate PC OIF 800ZR sp feature exace introduced to being PHY-ag SuggestedRemed Two broad op ER1 PHY_XS 186 to define that is specific Proposed Respon	CS creates pecification erbates the the 800GX gnostic. dy ptions: mod S to avoid ir a an ER1 FE ic to the ER nse 186.2.2 T was renam dy	some difficulties, largely be with which we are trying to misalignment and requires I S, which is not really consis ify clause 171 to include spe troducing PHY-specific beh C sublayer rather than a PC 1 PHY. A more detailed pre <i>Response Status</i> <b>O</b> <i>P</i> <b>568</b> Nokia <i>Comment Status</i> <b>X</b> ed FAM to clarify that it is no	cause that mode align. The introc PHY-specific be tent with the con ecification of a s lavior to the 800 CS sublayer to a esentation will be	el does not match the luction of the AMLT haviors to be ncept of the XS as eparate 800GBASE- GXS, or revise clause void the need for an XS e provided. # 37	and Rx d SuggestedRe Remove receive fr Proposed Re Cl 186 Huber, Thom Comment Ty In figure to avoid SuggestedRe Change	irections as cl emedy the extra laye unctions. sponse SC 186.3.3.1 as pe T 186-13, 'mfas conflict with th emedy mfas to faw	learly as this PMA does. r of hierarchy. Make 186.3 <i>Response Status</i> <b>O</b> 1.2 <i>P</i> 589 Nokia <i>Comment Status</i> <b>X</b> ' should be 'faw' to align wi he MFAS field in the PCS fr	om other PMAs the	at don't distinguish Tx nctions, and 186.3.4 the # 40 3.3.1.5 (faw is used her

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: Comment ID

C/ 186 SC 186.4.2	2.1 P 597	L <b>6</b>	# 41	C/ 169 SC 169	.4	P <b>178</b>	L 23	# 44
Huber, Thomas	Nokia			Huber, Thomas	١	lokia		
Comment Type T	Comment Status X			Comment Type T	Comment St	atus X		
detail), the FAM field 28 bytes that are res	ed in 186.2.3.5.1 (with reference contains 32 bytes that are pro erved (0x00). The alignment p hat are transmitted as 0x00 are	viding the frame rocess should o	alignment pattern, and nly be looking at the 32		elay constraints for 80 er FEC, and clause 1			ise 177 has values for her FEC
SuggestedRemedy			materi.		s wiith the appropriate	values from	Table 176-7, Ta	able 177-5, and from
Revise the definition alignment pattern rate	of fam_valid to consider only the her than the entire FAM field: that is set to true if the first 256 chanism sequence"			clause 184.7 for t Proposed Response	he LR1 inner FEC. Response Sta	atus <b>O</b>		
Proposed Response	Response Status 0			C/ 177 SC 177	.4.1.3	P <b>310</b>	L <b>47</b>	# 45
, ,				Huber, Thomas	١	lokia		
				Comment Type T	Comment St	atus X		
Cl 169 SC 169.2.4 Huber, Thomas Comment Type T	Nokia Comment Status X	L <b>50</b>	# 42	tolerance in the ir PCSLs is remove	ner FEC than in 8000	BASE-R PC 5.1, except t	CS, but the text s hat the 800GBA	ricter maximum skew ays " Skew betweer SE-R deskew function
This clause should ir	nclude a reference to the 800G	BASE-ER1 PMA	N .	SuggestedRemedy				
SuggestedRemedy Add a sentence: The	800GBASE-ER1 PMA is spec	ified in clause 1	86.3		d as defined in 172.2.			ad " Skew between Skew of 25 ns is
Proposed Response	Response Status O			Proposed Response	Response Sta	atus <b>O</b>		
C/ 169 SC 169.4	P178	L <b>22</b>	# 43	C/ 177 SC 177	413	P310	L <b>52</b>	# 46
uber, Thomas	Nokia			Huber, Thomas		lokia	L <b>JZ</b>	# 40
omment Type T	Comment Status X				י Comment St			
Table 169-4 is missi	ng rows for the 800GBASE-ER	1 PCS and PMA	۱.	Comment Type T			define a much at	riotor movimum alcour
architecture, add a re	IA. Depending on the disposition for the ER1 PCS or the ER1			tolerance in the ir PCSLs is remove	ner FEC than in 8000	BASE-R PC 5.1, except t	CS, but the text s hat the 1.6TBAS	ricter maximum skew ays " Skew betwee E-R deskew function
186 are still TBD.				SuggestedRemedy				
Proposed Response	Response Status 0			Use language mo	re like what 175.2.5.1 d as defined in 175.2.	uses. Char	nge the text to re	ad " Skew between
Toposed Nesponse				supported betwee		5. I, except t	hat a maximum	Skew of 25 ns is

C/ 178A	SC 178A.1.3	P <b>748</b>	L15	# 47	C/ 179B	SC 179B.4	P 805	L <b>14</b>	# 48
Mellitz, Ric	hard	Samtec			Mellitz, Ricl	hard	Samtec		
Comment T	Type <b>TR</b>	Comment Status X			Comment 7	Type TR	Comment Status X		
step fro	om a start freque	at the scattering parameters ency no greater than 10 MHz			instrum		B.4.6 may be necessary, they lity required to make repeata		
Suggested	•				Suggested				
Refere Insert I	0 0	179B.2.1 and 179B.3.1.			Add a s	-			
If, after frequer be acco See pro	specified filterin ncy is near a loc ounted for. esentation show	ng, significant power exists a al resonance or anti-resonar ing delta COM up to 0.8 dB	bove the stop fre nce, differences i	equency or the stop n COM and ERL are to	179B.4 COM s 179.11 model	.7 Test fixture ( hall be equal to	or greater than the specified meters) with a new table like		
Proposed F	Response	Response Status 0			Tx Pac Rx Pac MLSE: Rx FFE Tx Pac Rx Pac Partial Partial tx C0: CR C0: Tx C1: Rx C1: DER0: COM m Die-to- Using h parame See pre	kage class:B,B kage class:A,A 0,0,1 pre/post_grou kage transmiss kage transmiss transpress Tx host PCB transpress 0,1.0e-5,1.0e-5 0,0,2.9e-5,2.9e-5 0,0,2.9e-5,2.0e-5 2.0e-5, 2.0e-5, nin: 5.3, 4.6, 4 die losses for c host PCB transpress teters) esentation.	,B ps/taps_span(UI):6/14-2/4-50 ion line 1 length, zp1: 45, 45 ion line 1 length, zp1: 4,10,4 ansmission line length, Zp: 0, ansmission line length, Zp: 0, 1.0e-4 ases 1,2, and 3 are about 20 mission defined in Table 176	,45 5 220,109 0,109 32, and 40 dB	respectively
					Proposed F	Response	Response Status O		
					C/ 179B	SC 179B.4.2	2 P 807	L <b>4</b>	# 49
					Mellitz, Ricl	hard	Samtec		
					Comment 7 table is	51	Comment Status X		
					Suggested	Remedy			
					00	e Table TBD w	ith Table 93A–4		

Comment ID 49

7 179B SC 179B4.1	P 805	L 48	# 50	C/ 179B SC 179B.4.6	P811	L <b>31</b>	# 54
ellitz, Richard	Samtec			Mellitz, Richard	Samtec		
<i>comment Type</i> <b>TR</b> FOM_ILD is TBD	Comment Status X			Comment Type <b>TR</b> Comme T_nt and T_ft is not aligned with	ent Status X reference transmit	ter	
uggestedRemedy				SuggestedRemedy			
Based on posted MTF ch	annel , sekel_3dj_02_240	7 replace TBD d	3 with 0.16 dB	Replace 6 ps with 4 ps (table 179	B-4)		
roposed Response	Response Status O			Proposed Response Response	se Status <b>O</b>		
/ 179B SC 179B4.1	P806	L <b>46</b>	# 51	C/ 179B SC 179B.4.6	P811	L 28	# 55
lellitz, Richard	Samtec			Mellitz, Richard	Samtec		
<i>comment Type</i> <b>TR</b> T_t is not aligned with ref	Comment Status X			Comment Type <b>TR</b> Comme A_nt and A_ft is not aligned with r	ent Status X eference transmit	ter	
<i>SuggestedRemedy</i> Replace 6 ps with 4 ps				SuggestedRemedy Replace 400 mV with 481 mV (tab	ole 179B-4)		
Proposed Response	Response Status <b>O</b>			Proposed Response Response	se Status <b>O</b>		
C 179B SC 179B.4.6	P810	L <b>45</b>	# 52	C/ 179B SC 179B.4.6	P811	L11	# 56
lellitz, Richard	Samtec			Mellitz, Richard	Samtec		
<i>comment Type</i> <b>TR</b> T_nt is not aligned with re	Comment Status X			Comment Type <b>TR</b> Comme ICN should be adjusted for PAM4	ent Status X		
uggestedRemedy				SuggestedRemedy			
Replace 6 ps with 4 ps (ta	able 179B-2)			Adjust ICN results from Equation	92-44 and 92-48	by multiplying by	sigma_X (0.7454)
proposed Response	Response Status O			Proposed Response Response	se Status <b>O</b>		
7 179B SC 179B.4.6	P810	L <b>44</b>	# 53				
lellitz, Richard	Samtec						
<i>Comment Type</i> <b>TR</b> A_nt is not aligned with re	Comment Status X eference transmitter						
SuggestedRemedy Replace 400 mV with 48 <sup>2</sup>	1 mV (table 179B-2)						
	Response Status <b>O</b>						

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: Comment ID

Comment ID 56

C/ 180A SC 180A	P <b>831</b>	L1	# 57	C/ 187 SC 187.6.2	P <b>624</b>	L16	# 60
D'Ambrosia, John	Futurewei, U.S	S. Subsidiary of	Huawei	Sluyski, Mike	Cisco		
Comment Type TR	Comment Status X			Comment Type TR Con	nment Status X		
The annex is not writter	of Comment #188 against D <sup>r</sup> n in an ethernet standards ap	proach, where it		Average Receive power (max) power or average total power?		e power (min)? Is t	this average signal
	n, and doesn't address the N 30 and 182 are making norm			SuggestedRemedy			
despite the annex then	providing additinoal MDI Cor s rejected, the CRG noted th	nnector choices.		Coherent recievers can disting power".	uish signal power. C	larify by adding "A	verage receive signa
encouraged."	<b>,</b>			Proposed Response Resp	onse Status <b>O</b>		
SuggestedRemedy							
Implement attached file	("dambrosia_3dj_01_25010	2.pdf") with edito	orial license.				
Proposed Response	Response Status 0			C/ 187 SC Table 187-9	P <b>626</b>	L11	# 61
				Sluyski, Mike	Cisco		
				, , , , , , , , , , , , , , , , , , ,	nment Status X		
7 187 SC Table 187		L <b>21</b>	# 58	Zero Dispersion waelength			
iluyski, Mike	Cisco			SuggestedRemedy			
comment Type TR	Comment Status X			Is this spec required for ER1 a	pplication over C-bar	nd 1550nm?	
Signaling rate 118.2 +/- 118.200000000 is belov	20ppm GBd is rounded. w allowed min.			Proposed Response Resp	onse Status O		
SuggestedRemedy							
The exact rate is 118.20	)3350603 GBd.			C/ 187 SC Table 187-8	P <b>625</b>	L <b>40</b>	# 62
118.200986536 min. 118.203350603 nom.				Sluyski, Mike	Cisco		
118.205714670 max.				Comment Type TR Con	nment Status X		
Proposed Response	Response Status <b>O</b>			Differential group delay (max)/	c should be defined	as a statistical val	ue.
				SuggestedRemedy			
		1.40	# 59	Add to subnote C. "Due to the			
C/ 187 SC Table 187		L10	# 59	relationship between maximun defined probabilistically. The p			
Sluyski, Mike	Cisco			value of DGDmax can be infer			
Comment Type TR	Comment Status X				an the net is a DOD		in defined 0.0
Signaling rate 118.2 +/- 118.200000000 is below	20ppm GBd is rounded. w allowed min.			For purposes of this specificat corresponding to a $4.1 \times 10-6$			
uggestedRemedy				Proposed Response Resp	onse Status <b>O</b>		
The exact rate is 118.20 118.200986536 min.	)3350603 GBd.						
118.203350603 nom. 118.205714670 max.							

	# 00	407 CO T-11-4	07 F		,	# 00
C/         187         SC         187.9         P 629         L 1           Churchi, Mike         Ciaco         Ciaco		187 SC Table 1		P623	L	# 66
uyski, Mike Cisco		yski, Mike				
omment Type E Comment Status X ETCC test setup and calculation is not limited to ER1 and ER1-20. Should		mment Type <b>T</b>	Comment St			
and calculation be relocated to it's own or a different clause?		Tx laser frequency sta	ability. post-acquis	suon.		
uggestedRemedy	Su	ggestedRemedy	10)			
If yes. Also move 187.8.6 Extened transmsitter constellation closure - def	finition.	Not required (see line	,			
roposed Response Response Status <b>O</b>	Pro	posed Response	Response Sta	atus <b>O</b>		
187 SC Table 187-5 P623 L51	<i>Cl</i>	187 SC Table 1	87-5	P <b>623</b>	L	# 67
uyski, Mike Cisco	# 04 Slu	yski, Mike	C	Cisco		
mment Type T Comment Status X	Co	mment Type TR	Comment St			
Tx laser frequency slew rate: pre-acquistion (max). Specified in table 185-	i-5 is it required for	Tx clock phase noise in Table 187-5?	phase noise mas	sk frequency (	max). Specifie	ed in 185-5 is it require
187-5?	Su	ggestedRemedy				
ggestedRemedy		Add values common	with Table 185-5	pg. 551 lines	5-11	
Not required. ER1 and ER1-20 does not include DWDM use cases. Cons		posed Response	Response Sta	atus <b>O</b>		
specification which covers laser tuning and convergence. Recommend 18		posed Response	Response Sta	atus <b>O</b>		
specification which covers laser tuning and convergence. Recommend 18	80(max). Pro	· ·				# [69
specification which covers laser tuning and convergence. Recommend 18 oposed Response Response Status <b>O</b>	80(max). Pro	187 SC Table 1	87-5	P <b>623</b>	L	# 68
specification which covers laser tuning and convergence. Recommend 18         oposed Response       Response Status       0         187       SC Table 187-5       P623       L52	80(max). Pro 	<b>187</b> SC Table 1 yski, Mike	87-5	P <b>623</b> Cisco	L	# [68
specification which covers laser tuning and convergence. Recommend 18 oposed Response Response Status O 187 SC Table 187-5 P623 L52 uyski, Mike Cisco	80(max). Pro 	<b>187</b> SC Table 1 yski, Mike <i>mment Type</i> TR	87-5 Comment St	P 623 Disco atus X		
specification which covers laser tuning and convergence. Recommend 18 oposed Response Response Status O 187 SC Table 187-5 P 623 L 52 uyski, Mike Cisco omment Type T Comment Status X	80(max). Pro 	<b>187</b> SC Table 1 yski, Mike <i>mment Type</i> TR Tx clock phase noise	87-5 Comment St	P 623 Disco atus X		
specification which covers laser tuning and convergence. Recommend 18 oposed Response Response Status O 187 SC Table 187-5 P 623 L 52 uyski, Mike Cisco omment Type T Comment Status X Tx laser frequency slew rate: post-acquistion (max). Specified in table 188	80(max). Pro 	<b>187</b> SC Table 1 yski, Mike <i>mment Type</i> TR Tx clock phase noise ggestedRemedy	87-5 Comment St total integrated ra	P <b>623</b> Cisco atus X andom jitter (r	nax) - specifie	
specification which covers laser tuning and convergence. Recommend 18         roposed Response       Response Status       0         187       SC Table 187-5       P 623       L 52         uyski, Mike       Cisco         omment Type       T       Comment Status       X         Tx laser frequency slew rate: post-acquistion (max). Specified in table 188 for 187-5?	80(max). Pro <i>Cl</i> # <u>65</u> Slu Co 5-5 is it required <i>Su</i>	<b>187</b> SC Table 1 yski, Mike <i>mment Type</i> TR Tx clock phase noise ggestedRemedy Add values common	87-5 Comment St total integrated ra with Table 185-5	P <b>623</b> Disco <i>atus</i> X andom jitter (r pg. 551 lines	nax) - specifie	
specification which covers laser tuning and convergence. Recommend 18 oposed Response Response Status O <b>187</b> SC <b>Table 187-5</b> P <b>623</b> L <b>52</b> uyski, Mike Cisco omment Type <b>T</b> Comment Status <b>X</b> Tx laser frequency slew rate: post-acquistion (max). Specified in table 185 for 187-5? uggestedRemedy	80(max). Pro <i>Cl</i> # <u>65</u> Slu Co 5-5 is it required <i>Su</i>	<b>187</b> SC Table 1 yski, Mike <i>mment Type</i> TR Tx clock phase noise ggestedRemedy	87-5 Comment St total integrated ra	P <b>623</b> Disco <i>atus</i> X andom jitter (r pg. 551 lines	nax) - specifie	
specification which covers laser tuning and convergence. Recommend 18 oposed Response Response Status O <b>187</b> SC <b>Table 187-5</b> P <b>623</b> L <b>52</b> uyski, Mike Cisco omment Type <b>T</b> Comment Status <b>X</b> Tx laser frequency slew rate: post-acquistion (max). Specified in table 188 for 187-5? uggestedRemedy Not required. (see line 19)	80(max). Pro <i>Cl</i> # <u>65</u> Slu Co 5-5 is it required <i>Su</i>	<b>187</b> SC Table 1 yski, Mike <i>mment Type</i> TR Tx clock phase noise ggestedRemedy Add values common	87-5 Comment St total integrated ra with Table 185-5	P <b>623</b> Disco <i>atus</i> X andom jitter (r pg. 551 lines	nax) - specifie	
specification which covers laser tuning and convergence. Recommend 18 oposed Response Response Status O <b>187</b> SC <b>Table 187-5</b> P <b>623</b> L <b>52</b> uyski, Mike Cisco comment Type <b>T</b> Comment Status <b>X</b> Tx laser frequency slew rate: post-acquistion (max). Specified in table 188 for 187-5? uggestedRemedy Not required. (see line 19)	80(max). Pro 65 # 65 5-5 is it required Su Pro	<b>187</b> SC Table 1 yski, Mike <i>mment Type</i> TR Tx clock phase noise ggestedRemedy Add values common	87-5 Comment St total integrated r with Table 185-5 Response Sta	P <b>623</b> Disco <i>atus</i> X andom jitter (r pg. 551 lines	nax) - specifie	
specification which covers laser tuning and convergence. Recommend 18 roposed Response Response Status O <b>187</b> SC <b>Table 187-5</b> P <b>623</b> L <b>52</b> uyski, Mike Cisco comment Type <b>T</b> Comment Status <b>X</b> Tx laser frequency slew rate: post-acquistion (max). Specified in table 188 for 187-5? uggestedRemedy Not required. (see line 19)	80(max). Pro 65 # 65 5-5 is it required Su Pro CI	<b>187</b> SC Table 1 yski, Mike <i>mment Type</i> TR Tx clock phase noise ggestedRemedy Add values common posed Response	87-5 Comment St total integrated ra with Table 185-5 Response Sta 87-5	P 623 Disco atus X andom jitter (r pg. 551 lines atus O	nax) - specifie	d in Table 185-5
specification which covers laser tuning and convergence. Recommend 18 oposed Response Response Status O <b>187</b> SC <b>Table 187-5</b> P <b>623</b> L <b>52</b> uyski, Mike Cisco omment Type <b>T</b> Comment Status <b>X</b> Tx laser frequency slew rate: post-acquistion (max). Specified in table 188 for 187-5? uggestedRemedy Not required. (see line 19)	80(max). Pro 65 # 65 5-5 is it required Su Pro CI Slu	187SC Table 1yski, Mikemment TypeTx clock phase noiseggestedRemedyAdd values commonposed Response187SC Table 1	87-5 Comment St total integrated ra with Table 185-5 Response Sta 87-5	P623 Disco atus X andom jitter (r pg. 551 lines atus O P623 Disco	nax) - specifie	d in Table 185-5
specification which covers laser tuning and convergence. Recommend 18 roposed Response Response Status O <b>187</b> SC <b>Table 187-5</b> P <b>623</b> L <b>52</b> uyski, Mike Cisco comment Type <b>T</b> Comment Status <b>X</b> Tx laser frequency slew rate: post-acquistion (max). Specified in table 188 for 187-5? uggestedRemedy Not required. (see line 19)	80(max). Pro 65 # 65 5-5 is it required Su Pro CI Slu	187       SC Table 1         yski, Mike         mment Type       TR         Tx clock phase noise         ggestedRemedy         Add values common         uposed Response         187       SC Table 1         yski, Mike	87-5 Comment St total integrated re with Table 185-5 Response Sta 87-5 Comment St	P623 Disco atus X andom jitter (r pg. 551 lines atus O P623 Disco atus X	nax) - specifie 12 L	d in Table 185-5
specification which covers laser tuning and convergence. Recommend 18 oposed Response Response Status O <b>187</b> SC <b>Table 187-5</b> P <b>623</b> L <b>52</b> uyski, Mike Cisco omment Type <b>T</b> Comment Status <b>X</b> Tx laser frequency slew rate: post-acquistion (max). Specified in table 188 for 187-5? uggestedRemedy Not required. (see line 19)	80(max). Pro # 65 Slu 5-5 is it required Su Pro CI Slu CO CI Slu CO CI	187SC Table 1yski, Mikemment TypeTx clock phase noiseggestedRemedyAdd values commonuposed Response187SC Table 1yski, Mikemment TypeTRTx clock phase noise	87-5 Comment St total integrated re with Table 185-5 Response Sta 87-5 Comment St	P623 Disco atus X andom jitter (r pg. 551 lines atus O P623 Disco atus X	nax) - specifie 12 L	d in Table 185-5
specification which covers laser tuning and convergence. Recommend 18 roposed Response Response Status O <b>1 187</b> SC <b>Table 187-5</b> P623 L52 luyski, Mike Cisco comment Type <b>T</b> Comment Status <b>X</b> Tx laser frequency slew rate: post-acquistion (max). Specified in table 188 for 187-5? uggestedRemedy Not required. (see line 19)	80(max). Pro # 65 Slu 5-5 is it required Su Pro CI Slu CO CI Slu CO CI	187SC Table 1yski, Mikemment TypeTx clock phase noiseggestedRemedyAdd values commonposed Response187SC Table 1yski, Mikemment TypeTR	87-5 Comment St total integrated ra with Table 185-5 Response Sta 87-5 Comment St total periodic jitte	P623 Disco atus X andom jitter (r pg. 551 lines atus O P623 Disco atus X er (max) - spec	max) - specifie 12 <i>L</i> cified in Table	d in Table 185-5

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: Comment ID

Comment ID 69

C/ 187 SC Table 187-7 P624 L # 70	C/ 186 SC 186.5 P605 L40 # 73
Sluyski, Mike Cisco	Sluyski, Mike Cisco
Comment Type TR Comment Status X	Comment Type TR Comment Status X
RX acquisition time - time to acquire and lock to valid signal. SuggestedRemedy Time to fully acquire signal in the presence of a valid input signal. Recommend 10 (max) Sec.	The maximum delay contributed by the 800GBASE-ER1 PCS and 800GBASE-ER1 PM (sum of transmit and receive delays at one end of the link) shall be no more than TBD bit times (TBD pause_quanta or TBD ns)
Proposed Response Response Status O	SuggestedRemedy
	I might be able to provide delay measurement results for an 800ER1 PHY in January timeframe. Early mesurementd is 3.3uSec for PCS + PMS_TX/RX.
C/ 185 SC 185.2 Error ratio alloca P542 L36 # 71	Proposed Response Response Status <b>O</b>
Sluyski, Mike Cisco	
Comment Type E Comment Status X	C/ 187 SC 187.1 P614 L8 # 74
Does IEEE style allow embedded parameter values as part of the text (e.g. BERadded equal to 3.2 x 10-5 and BERadded equal to 6.4 x 10-5)	Sluyski, Mike Cisco
SuggestedRemedy	Comment Type E Comment Status X
A small table might be clearer than values buried In text.	The optical signal generated by these PMD types are modulated using a dual polarization 16-state quadrature amplitude modulation
Proposed Response Response Status <b>O</b>	SuggestedRemedy either signal is plural as in signals or the are should be is if singular.
C/ 185 SC 185.3.1.1 800GBASE-L P 545 L 13 # 72	
Sluyski, Mike Cisco	Proposed Response Response Status <b>O</b>
Comment Type E Comment Status X	
This clause include a reference (184.4.11.1) and later to (185.5.2).	Cl 187 SC 187.2 P615 L 34 # 75
SuggestedRemedy	Sluyski, Mike Cisco
Would it be better and clearer to reference Figure 185-2 instead of text 184.4.11.1 (Picture is clearer than words). Likewise Reference to Figure 185-5 than text in 185.5.2.	Comment Type E Comment Status X Reference 174A.4 is not linked.
Proposed Response Response Status O	SuggestedRemedy Link reference to 174A.4
	Proposed Response Response Status <b>O</b>

C/ 187 SC 187.3.1.1 800GBASE-E P618	L13	# 76	C/ 187 SC 187.6.2	P 603	L16	# 79
uyski, Mike Cisco			Sluyski, Mike	Cisco		
comment Type E Comment Status X			Comment Type TR	Comment Status X		
This clause include a reference (186.3.3.1.6) and la suggestedRemedy	ater to (187.5.2).		Average Receive pow power or average tota	er (max) and Average receive I power?	power (min)? Is	this average signal
Would it be better and clearer to reference Figure 1	187-2 instead of to	ovt 186 3 3 1 6 (Picture	SuggestedRemedy			
is clearer than words). Likewise Reference to Figur			Coherent recievers ca power".	an distinguish signal power. Cla	arify by adding "	Average receive signa
Proposed Response Response Status O			Proposed Response	Response Status 0		
C/ 174A SC 174A.5 P662	L <b>22</b>	# 77	C/ 187 SC 187.7	0004	1.40	# [00
luyski, Mike Cisco				P604	L <b>40</b>	# 80
Comment Type TR Comment Status X			Sluyski, Mike	Cisco Comment Status X		
FEC ccodeword error ratio of less than TBD			Comment Type TR	ay (max) <sup>c</sup> should be defined a		
uggestedRemedy			0 1	y (max) C should be defined a	as a statistical va	alue.
			SuggestedRemedy			
TBD will be updated in a future contribution.						
•			Add to subnote C. "D relationship between defined probabilistical	ue to the statistical nature of p maximum DGD (DGDmax) and ly. The probability of the instar be inferred from its Maxwellia	d mean DGD (De ntaneous DGD e	GDmean) can only be
Proposed Response Response Status O	L 23	# 78	Add to subnote C. "D relationship between defined probabilistical value of DGDmax car	maximum DGD (DGDmax) and ly. The probability of the instar be inferred from its Maxwellia	d mean DGD (De ntaneous DGD e an statistics.	GDmean) can only be exceeding any given
Proposed Response Response Status O	L <b>23</b>	# 78	Add to subnote C. "D relationship between defined probabilistical value of DGDmax car For purposes of this s	naximum DGD (DGDmax) and ly. The probability of the instar	d mean DGD (Dentaneous DGD e an statistics. nax to DGDmear	GDmean) can only be exceeding any given
Proposed Response Response Status O C/ 174A SC 174A.5 P662 Iuyski, Mike Cisco		# 78	Add to subnote C. "D relationship between defined probabilistical value of DGDmax car For purposes of this s	maximum DGD (DGDmax) and ly. The probability of the instar be inferred from its Maxwellia pecification the ratio of DGDm	d mean DGD (Dentaneous DGD e an statistics. nax to DGDmear	GDmean) can only be exceeding any given
roposed Response Response Status O 7 174A SC 174A.5 P662 luyski, Mike Cisco comment Type TR Comment Status X Equivalent to a pre-correction BER (BERtotal) of Th uggestedRemedy	BD	# [ <u>78</u> ]	Add to subnote C. "D relationship between defined probabilistical value of DGDmax car For purposes of this s corresponding to a 4.	maximum DGD (DGDmax) and ly. The probability of the instar be inferred from its Maxwellia pecification the ratio of DGDm 1 × 10-6 probability of the insta	d mean DGD (Dentaneous DGD e an statistics. nax to DGDmear	GDmean) can only be exceeding any given
Proposed Response Response Status O Cl 174A SC 174A.5 P662 Sluyski, Mike Cisco Comment Type TR Comment Status X Equivalent to a pre-correction BER (BERtotal) of TI SuggestedRemedy For link based on OFEC the pre-FEC BER is 2.0 x	BD	# <mark>78</mark>	Add to subnote C. "D relationship between defined probabilistical value of DGDmax car For purposes of this s corresponding to a 4. <i>Proposed Response</i>	maximum DGD (DGDmax) and ly. The probability of the instar be inferred from its Maxwellia pecification the ratio of DGDm 1 x 10-6 probability of the insta Response Status <b>0</b>	d mean DGD (Dintaneous DGD e an statistics. nax to DGDmear antaneous DGD	GDmean) can only be exceeding any given n is defined as 3.3, exceeding DGDmax.
Proposed Response Response Status O 27 174A SC 174A.5 P662 Iluyski, Mike Cisco Comment Type TR Comment Status X Equivalent to a pre-correction BER (BERtotal) of TI SuggestedRemedy For link based on OFEC the pre-FEC BER is 2.0 x	BD	# <mark>78</mark>	Add to subnote C. "E relationship between defined probabilistical value of DGDmax car For purposes of this s corresponding to a 4. <i>Proposed Response</i> <i>Cl</i> 187 <i>SC</i> 187.8.1	maximum DGD (DGDmax) and ly. The probability of the instar a be inferred from its Maxwellia pecification the ratio of DGDm 1 × 10-6 probability of the insta <i>Response Status</i> <b>O</b> <i>P</i> 606 Cisco <i>Comment Status</i> <b>X</b>	d mean DGD (Dintaneous DGD e an statistics. nax to DGDmear antaneous DGD	GDmean) can only be exceeding any given n is defined as 3.3, exceeding DGDmax.
Proposed Response Response Status O C/ 174A SC 174A.5 P662 Suluyski, Mike Cisco Comment Type TR Comment Status X Equivalent to a pre-correction BER (BERtotal) of TI SuggestedRemedy For link based on OFEC the pre-FEC BER is 2.0 x	BD	# <mark>78</mark> _	Add to subnote C. "E relationship between defined probabilistical value of DGDmax car For purposes of this s corresponding to a 4. <i>Proposed Response</i> <i>Cl</i> <b>187</b> <i>SC</i> <b>187.8.1</b> Sluyski, Mike <i>Comment Type</i> <b>TR</b> Is PRBS raw or frame	maximum DGD (DGDmax) and ly. The probability of the instar a be inferred from its Maxwellia pecification the ratio of DGDm 1 × 10-6 probability of the insta <i>Response Status</i> <b>O</b> <i>P</i> 606 Cisco <i>Comment Status</i> <b>X</b>	d mean DGD (Dintaneous DGD e an statistics. nax to DGDmear antaneous DGD	GDmean) can only be exceeding any given n is defined as 3.3, exceeding DGDmax.
Proposed Response Response Status O Cl 174A SC 174A.5 P662 Sluyski, Mike Cisco Comment Type TR Comment Status X Equivalent to a pre-correction BER (BERtotal) of TI SuggestedRemedy For link based on OFEC the pre-FEC BER is 2.0 x	BD	# <mark>78</mark>	Add to subnote C. "L relationship between defined probabilistical value of DGDmax car For purposes of this s corresponding to a 4. <i>Proposed Response</i> <i>Cl</i> <b>187</b> <i>SC</i> <b>187.8.1</b> Sluyski, Mike <i>Comment Type</i> <b>TR</b>	maximum DGD (DGDmax) and ly. The probability of the instar to be inferred from its Maxwellia pecification the ratio of DGDm 1 × 10-6 probability of the insta <i>Response Status</i> <b>O</b> <i>P</i> 606 Cisco <i>Comment Status</i> <b>X</b> ad in payload?	d mean DGD (Dintaneous DGD e an statistics. nax to DGDmear antaneous DGD	GDmean) can only be exceeding any given is defined as 3.3, exceeding DGDmax.

C/ 185A SC 185A.2	.4 P843	L <b>36</b>	# 82	C/ 176	SC 176.4.4.	3 P <b>2</b> 91	L <b>2</b>	# 84
ssenhuth, Tom	Huawei			Opsasnick	Eugene	Broadcom		
Comment Type T	Comment Status X			Comment	Type <b>TR</b>	Comment Status X		
	parameter defintions which are	currently TBD i	n this subclause.			pen arrow) to enter the LOSS d_mux". (!signal_ok_mux) sh		
SuggestedRemedy				Suggested				
Replace the TBDs wi be provided.	ith parameter definitions as pro	posed in the su	pporting presentation to	00		w condition to enter LOSS_O	F ALIGNMENT	state from:
Proposed Response	Response Status 0			to:	lall_locked_m	ux Ix + !all_locked_mux	_	
C/ 176 SC 176.4.4	.3 <i>P</i> 291	L16	# 83	Proposed	Response	Response Status 0		
Opsasnick, Eugene	Broadcom							
Comment Type T	Comment Status X			C/ 176	SC 176.2	P 274	L17	# 85
	tate diagram, after entering AL			Opsasnick	Eugene	Broadcom		
	n immediately to LOSS_OF_AL LIGNMENT FAIL to LOSS OF			Comment	Type TR	Comment Status X		
transition). Adding th understand. Without true causes restart_lo	this arc, the reader must figure ock in Figure 119-2 to be true, a go to the LOCK_INIT state which	am easier for the out that setting and that variable	e reader to prestart_lock_mux to e causes the Fig. 119-	param	eter] is set to th	the pargraph right before Table value of the received SIGN/ is to be used? There are two	AL_OK value" is	ambigous. Which
false and when any a clause 119 also becc	amps_locks <x> is false for x = ( omes false. And then all_lock_n inally the user can see that (!al</x>	) to 31, then the nux in CL 176 ta	variable all_locked in a variable all_locked in a value of CL			ement is made in the last sen page 275, in subclause 176.		agraph immediately
_	o the LOSS_OF_ALIGNMENT s	- ,	1 0	Both o	f these stateme	nts should be made more clea	ar.	
SuggestedRemedy				Suggested	Remedy			
5	tate diagram, add an uncondition tate to the LOSS_OF_ALIGNM		rc (UCT) from the			prior to Table 176-5 change to SIGNAL_OK parameter at the sign of the second s		

Proposed Response

Response Status **0** 

(PMA:IS\_SIGNAL.request(SIGNAL\_OK))." Proposed Response Response Status **O** 

the received SIGNAL\_OK parameter from the sublayer below the PMA

the received SIGNAL OK value.

(inst:IS\_SIGNAL.indication(SIGNAL\_OK))."

value of the received SIGNAL\_OK value."

to:

to:

Comment ID 85

"For the n:n PMAs, the SIGNAL\_OK parameter at the client interface is set to the value of

And in subclause 176.3, change the last sentence immediately prior to Table 176-6 from: "For the n:n PMAs, the SIGNAL\_OK parameter at the interface below the PMA is set to the

"For the n:n PMAs, the SIGNAL\_OK parameter at the interface below the PMA is set to the

value of the received SIGNAL\_OK parameter from the sublayer above the PMA

Cl 176	SC 176.4.3.2.	1 P <b>286</b>	L 30	# 86	Cl 177	SC 177.6.2.1	P 320	L 53	# 88
Opsasnick, E	Eugene	Broadcom			Opsasnic	k, Eugene	Broadcom		
Comment Ty	vpe E	Comment Status X			Comment	Туре Т	Comment Status X		
same 20		nues until all eight PCS lane: r boundary" can be made mo			define	d except through	o in the definition of the "res a cross-reference to 45.2.1. stead be used for the cross	1.1. The MDIO of	control variable table
SuggestedRe	emedy				Suggeste	dRemedy			
Change	the sentence or	n page 286, line 30			Remo	ve the cross-refer	rence text "(see 45.2.1.1.1)"	from the definition	on of reset in 177.6.2.1.
"This pro		bit slip followed by alignment ent marker lock using the sa					EC_reset" to the list of varia a management entity and is		
"This pro		bit slip followed by alignment ent marker lock using the 20					IDIO control variables table 6.2.1 and 45.2.1.1 and the		
Proposed Re	esponse	Response Status O			Proposed	Response	Response Status O		
C/ 174	SC 174.3.2	P235	L <b>20</b>	# 87	C/ 184	SC 184.6.2.2	P 530	L <b>47</b>	# 89
Opsasnick, E	Eugene	Broadcom			Opsasnic	, Eugene	Broadcom		-
Comment Ty	vpe T	Comment Status X			Comment	Type T	Comment Status X		
FEC will would be	(almost) always better to show	ter-sublayer interfaces with li s be in an optical module bel the Inner FEC below an AUI prrect, will rarely, if ever, be u	ow an AUI conr I in this figure si	ection to a host. It	define (Table	d except through	o in the definition of the "res a cross-reference to 45.2.1. as a cross reference to 184	1.1. The MDIO of	control variables table
SuggestedRe	emedy				Suggeste	dRemedy			
		8 PMA" between the "1.6T B C" on line 20 which creates a			Remo	ve the cross-refer	rence text "(see 45.2.1.1.1)"	from the definition	on of reset in 184.6.2.2

Add the definition of "FEC\_reset" to the list of variables in 184.6.2.2 as: "Boolean variable that is true when set by a management entity and is false otherwise".

Proposed Response Response Status **0** 

PMAs. And then add the necessary inter-layer signals on the AUI connection between the

Response Status 0

two PMAs. Proposed Response

C/ 179 SC 179.14	P <b>400</b>	L10	# 90	C/ 73	SC 73.6.2.5.	3 P122	L <b>46</b>	# 92
Opsasnick, Eugene	Broadcom			Nicholl, Sha	wn	AMD		
Comment Type TR	Comment Status X			Comment T	ype TR	Comment Status X		
	variable PMD_reset has a varia t, that subclause does not defin					gins "The variable an_rs_fec_i ted in the incorrect sub-clause		control indicates that
SuggestedRemedy				SuggestedF	Remedy			
variable similar to 180 "PMD reset function" a		6, and 185.5.6 ar	nd 187.5.6 with title	73.6.2.5		paragraph such that it is inserte with editorial guidance found ir ).		
"If the variable PMD_r	eset is asserted, the PMD sha	all be reset as de	efined in 45.2.1.1.1.".	Proposed R	esponse	Response Status 0		
And change the cross Clause 179.	-reference in Table 179-20 fro	om 178B.14.2.1 t	o this new subclause in					
A			and from the structure to a	CI 73	SC 73.6.4	P125	L <b>25</b>	# 93
A similar subclause sr	hould also be added as 178.8.	TO titled PIVID re	eset function withthe	Nicholl, Sha	wn	AMD		
same text as above.								
	Response Status <b>O</b>			Comment T Current	ype E	Comment Status X ] and D[47:16] contains the Ur	nformatted Code	Field", but should
Proposed Response		L 14	# 91	Comment T Current	ype <b>E</b> ly says "D[10:0 singular verb.		nformatted Code	Field", but should
Proposed Response	13a P92	L14	# 91	Comment T Current use the SuggestedF	ype E ly says "D[10:0 singular verb. Remedy			Field", but should
Proposed Response Cl 45 SC 45.2.1.2 Nicholl, Shawn		L14	# 91	Comment T Current use the SuggestedF	ype E ly says "D[10:0 singular verb. Remedy e "D[10:0] and b	] and D[47:16] contains the Ur		Field", but should
Proposed Response Cl <b>45</b> SC <b>45.2.1.2</b> Nicholl, Shawn Comment Type <b>TR</b> Description column of	13a P92 AMD <i>Comment Status</i> X fields in "Table 45-177a - Inne			Comment T Current use the SuggestedF Propose	ype E ly says "D[10:0 singular verb. Remedy e "D[10:0] and b	] and D[47:16] contains the Ur D[47:16] contain the Unformat		Field", but should
<ul> <li>Proposed Response</li> <li>27 45 SC 45.2.1.2</li> <li>Dicholl, Shawn</li> <li>Comment Type TR</li> <li>Description column of inconsistent with othe</li> </ul>	13a P92 AMD <i>Comment Status</i> X fields in "Table 45-177a - Inne			Comment T Current use the SuggestedF Proposed R	ype E ly says "D[10:0 singular verb. Remedy e "D[10:0] and lesponse	] and D[47:16] contains the Ur D[47:16] contain the Unformat <i>Response Status</i> <b>O</b>	ted Code Field"	
Proposed Response Cl 45 SC 45.2.1.2 Nicholl, Shawn Comment Type TR Description column of inconsistent with othe SuggestedRemedy	13a P92 AMD <i>Comment Status</i> X fields in "Table 45-177a - Inne r MDIO registers.	er FEC control re	egister bit definitions" is	Comment T Current use the SuggestedF Proposed R Cl <b>73</b>	ype E ly says "D[10:0 singular verb. Remedy e "D[10:0] and esponse SC <b>73.8</b>	] and D[47:16] contains the Ur D[47:16] contain the Unformati <i>Response Status</i> <b>O</b> <i>P</i> 128		Field", but should
Proposed Response Cl 45 SC 45.2.1.2 Nicholl, Shawn Comment Type TR Description column of inconsistent with othe SuggestedRemedy Propose the following	13a P92 AMD <i>Comment Status</i> X fields in "Table 45-177a - Inne r MDIO registers. text for the description columr	er FEC control re	egister bit definitions" is	Comment T Current use the SuggestedF Proposed R CI 73 Nicholl, Sha	ype E ly says "D[10:0 singular verb. Remedy e "D[10:0] and esponse SC 73.8 wn	and D[47:16] contains the Ur D[47:16] contain the Unformati <i>Response Status</i> <b>O</b> <i>P</i> <b>128</b> AMD	ted Code Field"	
Cl 45 SC 45.2.1.2 Nicholl, Shawn Comment Type TR Description column of inconsistent with othe SuggestedRemedy Propose the following 1 = Enable Inner FEC 0 = Disable Inner FEC	13a P92 AMD Comment Status X fields in "Table 45-177a - Inne r MDIO registers. text for the description column on lane 7 c on lane 7	er FEC control re	egister bit definitions" is v:	Comment T Current use the SuggestedF Proposed R Proposed R CI <b>73</b> Nicholl, Sha Comment T Typo m	ype E ly says "D[10:0 singular verb. Remedy e "D[10:0] and esponse SC 73.8 wn ype ER r_lp_adv_exter	] and D[47:16] contains the Ur D[47:16] contain the Unformati Response Status O P128 AMD Comment Status X ned_ability[32:1] in "Table 73-6	ted Code Field" L 21	# 94
Cl 45 SC 45.2.1.2 Nicholl, Shawn Comment Type TR Description column of inconsistent with othe SuggestedRemedy Propose the following 1 = Enable Inner FEC 0 = Disable Inner FEC Propose similar updat	13a       P 92         AMD       AMD         Comment Status       X         fields in "Table 45-177a - Inner TMDIO registers.       Inner T         text for the description column on lane 7       On lane 7         con lane 7       Inner T         con lane 7       Inner T	er FEC control re	egister bit definitions" is v:	Comment T Current use the SuggestedF Proposed R Proposed R CI <b>73</b> Nicholl, Sha Comment T Typo m variable	ype E ly says "D[10:0 singular verb. Remedy e "D[10:0] and esponse SC 73.8 wn ype ER r_lp_adv_exter to MDIO regis	] and D[47:16] contains the Ur D[47:16] contain the Unformati Response Status O P128 AMD Comment Status X ned_ability[32:1] in "Table 73-6	ted Code Field" L 21	# 94
Cl 45 SC 45.2.1.2 Nicholl, Shawn Comment Type TR Description column of inconsistent with othe SuggestedRemedy Propose the following 1 = Enable Inner FEC 0 = Disable Inner FEC Propose similar updat	13a P92 AMD Comment Status X fields in "Table 45-177a - Inne r MDIO registers. text for the description column on lane 7 c on lane 7	er FEC control re	egister bit definitions" is v:	Comment T Current use the SuggestedF Proposed R CI 73 Nicholl, Sha Comment T Typo m variable SuggestedF	ype E ly says "D[10:0 singular verb. Remedy e "D[10:0] and l esponse SC 73.8 wn ype ER r_lp_adv_exter to MDIO regis Remedy	] and D[47:16] contains the Ur D[47:16] contain the Unformati Response Status O P128 AMD Comment Status X ned_ability[32:1] in "Table 73-6	ted Code Field" L 21	# 94
Proposed Response         Cl 45       SC 45.2.1.2         Nicholl, Shawn         Comment Type       TR         Description column of inconsistent with othe         SuggestedRemedy         Propose the following         1 = Enable Inner FEC         0 = Disable Inner FEC	13a       P 92         AMD       AMD         Comment Status       X         fields in "Table 45-177a - Inner TMDIO registers.       Inner T         text for the description column on lane 7       On lane 7         con lane 7       Inner T         con lane 7       Inner T	er FEC control re	egister bit definitions" is v:	Comment T Current use the SuggestedF Proposed R CI 73 Nicholl, Sha Comment T Typo m variable SuggestedF	ype E ly says "D[10:0 singular verb. Remedy a "D[10:0] and a esponse SC 73.8 wn ype ER r_lp_adv_exter to MDIO regis Remedy a mr_lp_adv_exter	and D[47:16] contains the Ur D[47:16] contain the Unformati Response Status <b>O</b> P128 AMD Comment Status <b>X</b> ned_ability[32:1] in "Table 73-6 ter mapping"	ted Code Field" L 21	# 94

C/ 171 SC 171.9.	5.5 <i>P</i> 216	L22	# 95	C/ 182	SC 182.9.1	P 507	L16	# 98
Nicholl, Shawn	AMD	- <b>22</b>	# 3 <b>5</b>	Mi, Guangcar			chnologies Co., Ltd	
Comment Type TR	Comment Status X			Comment Ty		Comment Status X		
51	smits what it receives from the	800CMII" Howo	vor this sub clause	,		pattern that will be used by	the PMDe in CL 19	2 and its last column
pertains to 1.6TXS.			ver, this sub-clause			e definition of these test pa		
SuggestedRemedy						uses the subclauses in C		
•••	what it receives from the 1.6TM	111".				se the PMD interfaces with the test pattern is encode		
Proposed Response	Response Status O			However		t patterns that are generic		
C/ 176 SC 176.4.	2.4.2 P281	L <b>32</b>	# 96			an example, CL 177.4.9.4 e (quaternary) test-pattern		
licholl, Shawn	AMD				,	transmit output lane towar		
Comment Type TR	Comment Status X and for the 400GBASE-R 32:4 P	MA the odd lane	e "	FEC sub	ayer. For rea	ing the pattern of square w ders who want to know the 1.2.4. Therefore it is better	e definition of square	ewave, one will have to
5 5			5	Table 18				
SuggestedRemedy	r the 400GBASE-R 16:2 PMA, t	the odd lense "		SuggestedRe	medy			
•	,			change t	ne defined in	reference to in 120.5.11.2	3	
Proposed Response	Response Status O			Proposed Re	sponse	Response Status O		
CI 73A SC 73A.1a	a P640	L 40	# 97	 C/ 185	SC 185.5.3	P548	L 29	# 99
Nicholl, Shawn	AMD			Mi, Guangcar			chnologies Co., Ltd	
Comment Type E	Comment Status X			Comment Ty		Comment Status X		
	ndicates additional abilities that ge" Present tense seems mo		nodated in the link	"The four	analog strea	ims carry a combination of	the transmitting Inn	er FEC Tx_XI, Tx_XQ,
SuggestedRemedy				Tx_YI, ar Tx_YO si		y the transmitting PMD to	generate the DP-16	QAM symbols " it is
••	es additional abilities that are no	ot accommodated	in the link codeword	not clear	what is the n	neaning of Inner FEC in thi (I et. al, they are referred to	s sentence. In other	places in this clause,
Proposed Response	Response Status 0			SuggestedRe	medy			
				change "	he transmitti	ng Inner FEC Tx_XI, Tx_X	Q," to "the analog	g Tx_XI, Tx_XQ,"
				Proposed Re	sponse	Response Status 0		

Cl 187 SC 187.5.3       P621       L29       # 100         Mi, Guangcan       Huawei Technologies Co., Ltd         Comment Type       ER       Comment Status X         The four analog streams carry a combination of the transmitting Inner FEC Tx_XI, Tx_XQ, Tx_YI, and       Huawei Technologies Co., Ltd         SuggestedRemedy       Ch 185 SC 185.7       P52       L45         Cl 185 SC 185.7       P52       L45       # 101         Mi, Guangcan       Huawei Technologies Co., Ltd       Similar to the reference receiver in TECQ/TDECO, the coherent detector frontend of 100kHz. While the Tx laser line width max. is limiter 104         SuggestedRemedy       Ch 185 SC 185.7       P52       L45       # 101         Mi, Guangcan       Huawei Technologies Co., Ltd       Similar to the reference receiver in TECQ/TDECO, the coherent detector frontend of 100kHz. While the Tx laser source to the serial from the signal processing thus should be able to work with a LO of upto 1MHz.         Cl 185 SC 185.7       P52       L45       # 101         Mi, Guangcan       Huawei Technologies Co., Ltd       Similar to the reference receiver in TECQ/TDECO, the coherent Rx, so that a T signal passing the ETCC measurement prove analytic of any LR1 coherent Rx, so that a T signal passing the ETCC measurement prove analytic of the passing the series inewidth requirement.         Cl 185 SC 185.7       P52       L45       # 101         Comment Type TR <th></th>										
Comment Type       ER       Comment Status X         The four analog streams carry a combination of the transmitting Inner FEC Tx_XI, Tx_XQ, TX_YI, and Tx_YI and Tx_YI and Tx_YI and Tx_YI and StocBASE-ER1-20 and B00GBASE-ER1 do not use inner FEC. This sentence has the same issue as the sentence in CL185.5.3.       Comment Type       TR       Comment Status X         SuggestedRemedy change "the transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ,"       Tx_YI, and Tx_XQ, Tx_XQ," to "the analog Tx_XI, Tx_XQ,"         Proposed Response       Response Status       O         C1 185       SC 185.7       P552       L45       # 101         Mil, Guangcan       Huawei Technologies Co., Ltd       It is unclear what is "a simplex fiber optic link werement". For 800GBASE-LR1, the fiber optical link use a pair of SMF, which would be a duplex optic link. It is also unclear what purpose this sentence. Or delerte it.       Proposed Response       Response Status       O         Ci 187       SC 187.5       P622       L8       # 103         Mil, Guangcan       Huawei Technologies Co., Ltd       Comment Type       TR       Comment Status X         It is unclear what is "a simplex fiber optic link were apair of SMF, which would be a duplex optic link. It is also unclear what purpose of this sentence. Or delerte it.       Proposed Response       Response Status       O         Ci 187       SC 187.5.5       P622       L8       # 103	C/ 187	SC 187.5.3	P <b>621</b>	L 29	# 100	C/ 185	SC 185.9.1	P <b>557</b>	L <b>21</b>	# 102
The four analog streams carry a combination of the transmitting Inner FEC Tx_XI, Tx_XQ, Tx_YI, and Tx_YQ agnals used by the transmitting PMD to generate the DP-16QAM symbols". 800GBASE-ER1-20 and 800GBASE-ER1 do not use inner FEC. This sentence has the same issue as the sentence in CL185.5.3. SuggestedRemedy change "the transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ," Proposed Response Response Status O CI 185 SC 185.7 P552 L45 # [101 Comment Type TR Comment Status X It is unclear what is "a simplex fiber optic link segment". For 800GBASE-ER1, the fiber optical link use a pair of SMF, which would be a duplex optic link. It is also unclear what purpose of this sentence. Or delerte it. Proposed Response Response Status O CI 187 SC 187.5 P622 L8 # [103 CI 187 SC 187.55 P622 L8 # [103 CI 187 SC 187	Mi, Guangc	can	Huawei Techn	ologies Co., Ltd		Mi, Guang	Ican	Huawei T	echnologies Co., L	td
Tx, YI, and       1MHz.         Tx, YQ signals used by the transmitting PMD to generate the DP-16QAM symbols".       1MHz.         StorgestedRemedy       change "the transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ,"       1MHz.         SuggestedRemedy       change "the transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ,"       1MHz.         SuggestedRemedy       change "the transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ,"       1MHz.         SuggestedRemedy       change "the transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ,"       1MHz.         SuggestedRemedy       change "the transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ,"       1MHz.         SuggestedRemedy       change "the transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ,"       1MHz.         SuggestedRemedy       change Transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ,"       1MHz.         SuggestedRemedy       change Technologies Co., Ltd       1MITX       1MHz.         Comment Type       TR       Comment Status X       1ETC measurement prove encough confidence that it can work with subscience has the average status on the laser inewidth requirement.       100Hz         SuggestedRemedy       It is unclear what is "a simplex fiber optic link. It is also unclear what purpose of this sentence. Or delerte it.       1MitX.       1Mi	Comment 7	Type ER	Comment Status X			Comment	Type <b>TR</b>	Comment Status X		
800GBASE-ER1-20 and 800GBASE-ER1 do not use inner FEC. This sentence has the same issue as the sentence in CL185.5.3.       It is very common for coherent modules to use a signle laser as both Tx laser source Rx LO. The Rx signal processing thus should be able to work with a LO of upto 1MHz linewidth.         SuggestedRemedy change "the transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ,"       It is very common for coherent modules to use a signle laser as both Tx laser source Rx LO. The Rx signal processing thus should be able to work with a LO of upto 1MHz linewidth.         C/ 185 SC 185.7       P552       L45       # 101         C/ 185 SC 185.7       P552       L45       # 101         Comment Type       TR       Comment Status X       SuggestedRemedy         Ki, Guangcan       Huawei Technologies Co., Ltd       SuggestedRemedy       Comment Status X       N         SuggestedRemedy       Calify the prupose of this sentence. Or delerte it.       Proposed Response       Response Status O         Proposed Response       Response Status O       C/ 187       SC 187.5.       P622       L8       # 103         Mi, Guangcan       Huawei Technologies Co., Ltd       Comment Type TR       Comment Status X       Comment Type TR       Comment Status X         Proposed Response       Response Status O       C/ 187       SC 187.5.       P622       L8       # 103         Mi, Guangcan       Huawei	Tx_YI,	and		Ū.				s limited to 100kHz. While	e the Tx laser line v	vidth max. is limited to
uggested/Remedy         change "the transmitting Inner FEC Tx_XI, Tx_XQ," to "the analog Tx_XI, Tx_XQ," <i>Proposed Response Response Status</i> O         Sci 185.7 <i>P552 L</i> 45       # 101         Ni, Guangcan       Huawei Technologies Co., Ltd         Comment Type TR       Comment Status X       It is unclear what is "a simplex fiber optic link segment". For 800GBASE-LR1, the fiber optical link use a pair of SMF, which would be a duplex optic link. It is also unclear what purpose this sentence serve.       Suggested/Remedy         Clarify the prupose of this sentence. Or delerte it.       Proposed Response       Response Status       O         C/ 187       SC 187.5.5       P622       L 8       # 103         Mi, Guangcan       Huawei Technologies Co., Ltd       Comment Type TR       Comment Status X         Clarify the prupose of this sentence. Or delerte it.       Proposed Response       Response Status       O         C/ 187       SC 187.5.5       P622       L 8       # 103         Mi, Guangcan       Huawei Technologies Co., Ltd       Comment Type TR       Comment Status X         trapposed Response       Response Status O       Ni, Guangcan       Huawei Technologies Co., Ltd         C/ 187       SC 187.5.5       P622       L 8       # 103 <td< td=""><td>800GB</td><td>ASE-ER1-20 ai</td><td>nd 800GBASE-ER1 do not use</td><td></td><td></td><td>Rx LC</td><td>). The Rx signal</td><td></td><td>0</td><td></td></td<>	800GB	ASE-ER1-20 ai	nd 800GBASE-ER1 do not use			Rx LC	). The Rx signal		0	
roposed Response       Response Status       O         roposed Response       Response Status       O         the status       Yestige       Yestige         the purpose of this sentence. Or delerte it.       Yestige       Yestige         the purpose of this sentence. Or delerte it.       Yestige       Yestige       Yestige         the purpose of the sentence. Or delerte it.       Yestige       Yestige       Yestige       Yestige         the purpose of this sentence. Or delerte it.       Yestige       Yestige	uggestedl	Remedy				inewi	un.			
Signal passing the ETCC measurement provide enough confidence that it can work wit compliant LR1 Rx and form a cohernet optic link with sufficient FLR performance.         Signal passing the ETCC measurement provide enough confidence that it can work wit compliant LR1 Rx and form a cohernet optic link with sufficient FLR performance.         Signal passing the ETCC measurement provide enough confidence that it can work wit compliant LR1 Rx and form a cohernet optic link with sufficient FLR performance.         Signal passing the ETCC measurement provide enough confidence that it can work wit compliant LR1 Rx and form a cohernet optic link with sufficient FLR performance.         Signal passing the ETCC measurement provide enough confidence that it can work wit compliant LR1 Rx and form a cohernet optic link with sufficient FLR performance.         Signal passing the ETCC measurement provide enough confidence that it can work wit compliant LR1 Rx and form a cohernet optic link with sufficient FLR performance.         Signal passing the ETCC measurement provide enough confidence that it can work wit compliant LR1 Rx and form a cohernet optic link with sufficient FLR performance.         Signal passing the ETCC measurement provide enough confidence that it can work wit compliant LR1 Rx and form a cohernet optic link with sufficient FLR performance.         Signal passing the ETCC measurement provide enough confidence that it can work wit compliant LR1 Rx and form a cohernet optic link with sufficient FLR performance.         Signal passing the ETCC measurement provide enough confidence that it can work with requirement.         Provide file prove this sentence. Or delerte it.         Proposed Response R	change	e "the transmitti	ng Inner FEC Tx_XI, Tx_XQ,	." to "the analog	Tx_XI, Tx_XQ,"					
All, Guangcan       Huawei Technologies Co., Ltd         Comment Type       TR       Comment Status X         It is unclear what is "a simplex fiber optic link segment". For 800GBASE-LR1, the fiber optical link use a pair of SMF, which would be a duplex optic link. It is also unclear what purpose this sentence serve.       Re-examine the necessity of requiring LO linewidth of 100kHz in E-TCC measurement.         SuggestedRemedy       Clarify the prupose of this sentence. Or delerte it.       Proposed Response       Response Status O         Proposed Response       Response Status O       Mi, Guangcan       Huawei Technologies Co., Ltd         Comment Type       TR       Comment Status X       It is unclear what is "a simplex fiber optic link. It is also unclear what purpose this sentence. Or delerte it.         Proposed Response       Response Status O       Mi, Guangcan       Huawei Technologies Co., Ltd         C/ 187       SC 187.5.5       P622       L8       # [103]         Mi, Guangcan       Huawei Technologies Co., Ltd       Comment Type       TR       Comment Status X         the average optical power limit of -18dBm for signal detection is not correct. The average optical power min value defined in Table 187-6 is -18dBm. For PMD_signal_detect to 0, the power should be below average receive power min.       SuggestedRemedy         II I.R1, there is a 1.5dB margin between power level at which PMD_signal_detect=0 (19dBm) and the average receive power min (-17.5dBm). Change the average optical	roposed F	Response	Response Status <b>O</b>			signal	passing the ET	CC measurement provde	enough confidence	that it can work with any
i, Guangcan Huawei Technologies Co., Ltd omment Type TR Comment Status X It is unclear what is "a simplex fiber optic link segment". For 800GBASE-LR1, the fiber optical link use a pair of SMF, which would be a duplex optic link.It is also unclear what purpose this sentence serve. uggestedRemedy clarify the prupose of this sentence. Or delerte it. roposed Response Response Status O CI 187 SC 187.5.5 P622 L8 # 103 Mi, Guangcan Huawei Technologies Co., Ltd Comment Type TR Comment Status X the average optical power limit of -18dBm for signal detection is not correct. The aver receiver power min value defined in Table 187-6 is -18dBm. For PMD_signal_detect to 0, the power should be below average receive power min. SuggestedRemedy in LR1, there is a 1.5dB margin between power level at which PMD_signal_detect=0 ( 19dBm) and the average receive power min (-17.5dBm). Change the average optical	/ 185	SC 185.7	P552	/ 45	# 101	Suggestee	dRemedy			
Comment Type       TR       Comment Status X         It is unclear what is "a simplex fiber optic link segment". For 800GBASE-LR1, the fiber optical link use a pair of SMF, which would be a duplex optic link. It is also unclear what purpose this sentence serve.       Proposed Response       Response Status       0         SuggestedRemedy clarify the prupose of this sentence. Or delerte it.       CI 187       SC 187.5.5       P 622       L 8       # 103         Proposed Response       Response Status       0       Mi, Guangcan       Huawei Technologies Co., Ltd         Comment Type       TR       Comment Status X       the average optical power limit of -18dBm for signal detection is not correct. The average optical power min value defined in Table 187-6 is -18dBm. For PMD_signal_detect to 0, the power should be below average receive power min.         SuggestedRemedy       in LR1, there is a 1.5dB margin between power level at which PMD_signal_detect=0 (199Bm) and the average receive power min (-17.5dBm). Change the average optical									dth of 100kHz in E	-TCC measurement.
SuggestedRemedy       C/ 187       SC 187.5.5       P622       L8       # 103         SuggestedRemedy       Clarify the prupose of this sentence. Or delerte it.       Mi, Guangcan       Huawei Technologies Co., Ltd         Proposed Response       Response Status       O       TR       Comment Status       X         the average optical power limit of -18dBm for signal detection is not correct. The averace optical power should be below average receive power min.       SuggestedRemedy         0, the power should be below average receive power min.       SuggestedRemedy       in LR1, there is a 1.5dB margin between power level at which PMD_signal_detect=0 (19dBm) and the average receive power min (-17.5dBm). Change the average optical	It is und	clear what is "a	simplex fiber optic link segme			Proposed	Response	Response Status <b>0</b>		
SuggestedRemedy       Clarify the prupose of this sentence. Or delerte it.         Proposed Response       Response Status       O         Mi, Guangcan       Huawei Technologies Co., Ltd         Comment Type       TR       Comment Status       X         the average optical power limit of -18dBm for signal detection is not correct. The averace optical power should be below average receive power min.       SuggestedRemedy         in LR1, there is a 1.5dB margin between power level at which PMD_signal_detect=0 (19dBm) and the average receive power min (-17.5dBm). Change the average optical	purpos	e this sentence	serve.			C/ 187	SC 187.5.5	P <b>622</b>	L <b>8</b>	# 103
clarify the prupose of this sentence. Or delerte it.         roposed Response       Response Status         O         The average optical power limit of -18dBm for signal detection is not correct. The average optical power min value defined in Table 187-6 is -18dBm. For PMD_signal_detect to 0, the power should be below average receive power min.         SuggestedRemedy         in LR1, there is a 1.5dB margin between power level at which PMD_signal_detect=0 (19dBm) and the average receive power min (-17.5dBm). Change the average optical	00	2				Mi. Guano	Ican	Huawei T	echnologies Co., L	td
roposed Response       Response Status       O         the average optical power limit of -18dBm for signal detection is not correct. The average receiver power min value defined in Table 187-6 is -18dBm. For PMD_signal_detect to 0, the power should be below average receive power min.         SuggestedRemedy       in LR1, there is a 1.5dB margin between power level at which PMD_signal_detect=0 (19dBm) and the average receive power min (-17.5dBm). Change the average optical	clarify t	the prupose of t	his sentence. Or delerte it.						;=	
in LR1, there is a 1.5dB margin between power level at which PMD_signal_detect=0 ( 19dBm) and the average receive power min (-17.5dBm). Change the average optical	Proposed F	Response	Response Status 0			the av receiv	verage optical po er power min va	wer limit of -18dBm for sig lue defined in Table 187-6	is -18dBm. For PM	
19dBm) and the average receive power min (-17.5dBm). Change the average optical						Suggestee	dRemedy			
						19dBr	n) and the avera	ge receive power min (-1	7.5dBm). Change tl	ne average optical pow

Proposed Response Response Status **O** 

C/ 187 SC 187.6.2	2 P <b>624</b>	L14	# 104	C/ 174A SC 17	4A.7.1.4	P <b>667</b>	L 35	# 106
/li, Guangcan	Huawei Techr	nologies Co., Ltd		Mi, Guangcan		Huawei Tech	nologies Co., Ltd	
Comment Type TR	Comment Status X			Comment Type	r <b>R</b> Com	ment Status X		
max. average launch	old of 800GBASE-ER1-20 and 8 n power of 800GBASE-ER1 was l channel characteristic.			The last sentend less than 1.45 e		ause "The measured ling.	codeword error r	atio is expected be
SuggestedRemedy							used to calculate	the block error ratio
change to -1dBm, as link loss.	s assuming max. Transmit outpu	ut power of 800GB	ASE-ER1, and 0dB	using FEC bin c Step h defines t		atio as Hms(16), not	the code word er	rror ratio.
Proposed Response	Response Status 0			CL174A.8 provid	des the definition	on of FEC codeword	error ratio, which	seems to be Hm(16).
				It is unclear which	ch error ratio sh	noule be less than 1.4	45e-11.	
C/ 187 SC 187.8.1	P <b>627</b>	L <b>9</b>	# 105					
/li, Guangcan	Huawei Techr	nologies Co., Ltd						
Comment Type ER	Comment Status X			SuggestedRemedy				
PRBS31 can be ence	oded by PCS or FEC, not PMD					error ratio is expecte nd block error ratio in		Or state the relation
SuggestedRemedy change to PRBS31 e	encoded by the 800GBASE-ER	1 PCS and PMA.		Proposed Response	e Resp	onse Status <b>O</b>		
Proposed Response	Response Status O			C/ 174A SC 17	4A.7.1.1	P666	L 41	# 107
					4A.7.1.1			# 107
				Mi, Guangcan	<b>IR</b> Com	ment Status X	nologies Co., Ltd	
				the purpose of F should include to PMD, PMA and	PCS-to-PCS err ransmitting-side PCS. Therefor	or ratio test is to test PCS, PMA and PM	ID, the Medium, a ion should include	e of a PHY, which and the receiving-side e the fulll link, with the
						itable for a receiver t ceiver under test.	est, with a gener	ic test source, an
							est, with a generi	ic test source, an
				unspecified test SuggestedRemedy	channel and re			

C/ 177 SC	177.5.4.1.4	P319	L 45	# 108	C/ 182	SC 182.9.1	P507	L <b>8</b>	# 111
Mi, Guangcan			ologies Co., Ltd		Mi, Guang			chnologies Co., Lto	
Comment Type	ER	Comment Status X			Comment	·	Comment Status X		-
inner FEC bir BER is impli	n counters cai icit.	n be used to roughly meas	sure pre-Inner F	EC BER. Pre-FEC	Table gives	182-12 lists the references of the	e pattern that will be used by ne definition of these test pat 2 uses the subclauses in CL	tern. This table ca	n be found in all PMD
SuggestedReme	re-Inner-FEC	BED"					use the PMD interfaces with		
0 1							e the test pattern is encoded st patterns that are generic to		
Proposed Respon	nse F	Response Status O				e would be a be		o all i 112 o, i oloi o	
	182.12	P <b>490</b> Huguyai Taaba	L <b>3</b> ologies Co., Ltd	# 109	suppo	ort a square way	s an example, CL 177.4.9.4 s /e (quaternary) test-pattern g n transmit output lane toward	enerator, as speci	ified in
Mi, Guangcan		Comment Status X	ologies Co., Lla				ning the pattern of square wa		
Comment Type type 400GBA		ot the PMD type of clause	182		jump	,	aders who want to know the 11.2.4. Therefore it is better t		,
SuggestedReme	2				Suggeste	dRemedy			
change to typ 1.6TBASE-D		E-DR1-2, 400GBASE-DR2	2-2, 800GBASE	-DR4-2, and	00		n reference to 120.5.11.2.4		
Proposed Respo	nse F	Response Status O			Proposed	Response	Response Status O		
C/ 182 SC	182.12	P 490	L8	# 110					
Mi, Guangcan		Huawei Techn	ologies Co., Ltd						
Comment Type	ER	Comment Status X							
PMD types s	hould be upda	ated in the text.							
SuggestedReme	dy								
		DR4" to " type 200GBASE 6TBASE-DR8-2"	E-DR1-2, 400GE	BASE-DR2-2,					

Proposed Response Response Status **0** 

7 182	SC 182.9.1	P 507	L <b>9</b>	# 112	C/ 182	SC 182.9.1		P 507	L11	# 113	
1i, Guang	can	Huawei Tech	nologies Co., Ltd		Mi, Guang	can		Huawei Tech	nologies Co., Ltd		
comment	Type <b>TR</b>	Comment Status X			Comment	Type <b>TR</b>	Comment	Status X			
gives clause all tes patter Howe	references of the es. Table 182-12 t pattern, becaus n 5 and 7 where	pattern that will be used by the definition of these test patter uses the subclauses in CL17 se the PMD interfaces with init the test pattern is encoded b t patterns that are generic to the choice.	rn. This table car 7 Inner FEC as ner FEC sublaye y the 800GBASE	be found in all PMD reference sources for This is good for test -R Inner FEC.	gives i clause all test patterr Howey	references of thes. Table 182-1 t pattern, becau n 5 and 7 where	e definition of th 2 uses the subcluse the PMD interest the test pattern st patterns that a	nese test patte lauses in CL17 erfaces with inr n is encoded by	rn. This table car 7 Inner FEC as ner FEC sublayer y the 800GBASE	2 and its last colu be found in all Pl reference sources . This is good for -R Inner FEC. acing to the origina	MD s for test
suppo 120.5. subcla FEC s jump a	rt a square wave 11.2.4, on each ause is not defin ublayer. For rea	an example, CL 177.4.9.4 say e (quaternary) test-pattern ger transmit output lane towards ing the pattern of square wave ders who want to know the de 1.2.4. Therefore it is better to	nerator, as specif the PMD service e, rather stating a efinition of square	ied in interface." This function of the Inner wave, one will have to	suppo 120.5. subcla FEC s jump a	rt a square way 11.2.4, on eacl ause is not defin ublayer. For re	ve (quaternary) to n transmit output ning the pattern o aders who want	est-pattern ger t lane towards of square wave to know the de	finition of square	ied in	ve to
Suggested	Remedy				Suggested	Remedy					
chang	e the defined in	reference to in 120.5.11.2.2			chang	e the defined ir	reference to in	120.5.11.2.1			
Proposed	Response	Response Status O			Proposed	Response	Response S	Status <b>O</b>			
					C/ 116	SC 116.1.4		P138	L18	# 114	
					Slavick, Je			Broadcom			
					<i>Comment</i> Table	<i>)</i>	Comment S nick bar on the ri		use 73 M		
					Suggested	Remedy ess the formatti	na issue				

Proposed Response

Response Status 0

C/ 177 SC 177.4.2	P <b>311</b>	L <b>42</b>	# 115	Cl 177 SC 177.5.41.5 P319 L52 # 118	3
Slavick, Jeff	Broadcom			Slavick, Jeff Broadcom	
Comment Type <b>TR</b> Cor	nment Status X			Comment Type T Comment Status X	
The deskewed data is fed into	the covolutioner.			We're specifyng the behavior of bin 3, so starting with "Note' could be a bit mislead	ding
SuggestedRemedy				SuggestedRemedy	
Change " The input data from to: "The data from deskewed		face lane is fed in	to"	Change the last sentence to read "Error bin 3 incrments when three or more bits a corrected in an Inner FEC codeword."	are
Proposed Response Resp	oonse Status <b>O</b>			Proposed Response Response Status <b>O</b>	
CI 177 SC 177.5.2	P <b>318</b>	L19	# 116	CI 177 SC 177.6.3 P322 L22 # 119	)
Slavick, Jeff	Broadcom			Slavick, Jeff Broadcom	
Comment Type E Cor	nment Status X			Comment Type TR Comment Status X	
The statement that you can ic	dentify flow 0 and how	its done should b	e one paragraph	In Fig 177-10 the exit from INNER_FEC_SYNC can't be all_sync because that's fa	
SuggestedRemedy				any sync_flow is false and in that state we set it false and need to go through the s process to set it to true.	sync
Combine paragraph 4 & 5 in 1	77.5.2.			SuggestedRemedy	
Proposed Response Resp	oonse Status <b>O</b>			Create new variable "none_synced" A Boolean variable that is set to true when sync_flow <x> is false for all eight flows and is set to false when sync_flow<x> is true any x.</x></x>	
C/ 177 SC 177.5.4.1.1	P319	L <b>24</b>	# 117		
Blavick, Jeff	Broadcom			In Fig. 177-10 replace the all_sync criteria from INNER_FEC_SYNC_INIT to GET_ to be UCT	_BLOC
,	nment Status X				
There is a reference to clause		ant that all to be i	n the tables	In Fig 177-11 replace the restart_inner_fec_sync criteria for entering FAS_LOCK_ none_synced	INIT wi
SuggestedRemedy				Proposed Response Response Status <b>O</b>	
Delete the "(see 45.2.1.213h)' In 177.5.4.1 add the following	senetence "Mapping of	of the counters to	management		
variables is specified in 177.10				Cl 177 SC 177.4.1.1 P310 L29 # 120	)
repead Deeperson	oonse Status <b>O</b>			Slavick, Jeff Broadcom	
Proposed Response Resp				Comment Type TR Comment Status X	
Proposed Response Resp					
Proposed Response Resp				The demultiplexing function refers to "service interface below the PMA" but this is the Inner FEC.	above
roposed Response Res					above
Proposed Response Resp				the Inner FEC.	

Comment ID 120

C/ 177 SC 177.4	P 309	L <b>27</b>	# 121	C/ 178B S	SC 178B.14	.2.1	P <b>783</b>	L13	# 124
Slavick, Jeff	Broadcom			Slavick, Jeff			Broadcom		
Comment Type T	Comment Status X			Comment Type	e TR	Comment	Status X		
Introductory sentence	e could be useful								pical use case but
SuggestedRemedy				does not c forwarding		cases. As a re	emote PCS (aft	ter a XS) could c	do either local or clocl
Add the following to 1 FEC service interface	77.4 "The following processes input lane.	are performed in	dependently on each	SuggestedRen	nedy				
Proposed Response	Response Status O			"Boolean v	variable that		PMA will neve	r swap to a forw	e definition to be /arded clock. For
C/ 177 SC 177.5.7	P <b>320</b>	L15	# 122	Replace b	oth uses of	client_is_pcs w	ith uses_local_	_clock_only in Fig	g 178B-7
Slavick, Jeff	Broadcom			Proposed Res	ponse	Response S	Status O		
Comment Type TR	Comment Status X								
We're restoring to the	data stream to its original orde	r but it could ba	we errors in the so we						
can't state it's the orig local one.	data stream to its original orden orden of the stream to its original data from the SM-PMA and			C/ <b>178B</b> S Slavick, Jeff	SC 178B.11	.2	P <b>779</b> Broadcom	L 38	# 125
can't state it's the orig local one. SuggestedRemedy	nial data from the SM-PMA an	d that'd be the fa	r end SM-PMA not the	Slavick, Jeff Comment Type	e TR	Comment	Broadcom Status X		# 125
can't state it's the orig local one. SuggestedRemedy Change "to restore the	nial data from the SM-PMA and entering the second state of the second state received from the second state received from the second state state of the second state sta	d that'd be the fa e BASE-R SM-P	ar end SM-PMA not the PMA." to be "to restore	Slavick, Jeff Comment Type	e TR		Broadcom Status X		# 125
can't state it's the orig local one. SuggestedRemedy Change "to restore th the order of the data r	nial data from the SM-PMA and e original data received from th received to be compatible with t	d that'd be the fa e BASE-R SM-P	ar end SM-PMA not the PMA." to be "to restore	Slavick, Jeff Comment Type Pseudo co SuggestedRer	e <b>TR</b> ode should h medy	Comment a	Broadcom Status X unsupported rec	quests.	# 125
can't state it's the orig local one. SuggestedRemedy Change "to restore th	nial data from the SM-PMA and entering the second state of the second state received from the second state received from the second state state of the second state sta	d that'd be the fa e BASE-R SM-P	ar end SM-PMA not the PMA." to be "to restore	Slavick, Jeff Comment Type Pseudo co SuggestedRer	e <b>TR</b> ode should h medy	Comment	Broadcom Status X unsupported rec	quests.	# [125
can't state it's the orig local one. SuggestedRemedy Change "to restore the the order of the data r Proposed Response	nial data from the SM-PMA and e original data received from th received to be compatible with t	d that'd be the fa e BASE-R SM-P	ar end SM-PMA not the PMA." to be "to restore	Slavick, Jeff Comment Type Pseudo co SuggestedRen change the	e <b>TR</b> ode should h <i>medy</i> e else to be	Comment of ave check for u	Broadcom Status X unsupported red K_REQ(ic_req)	quests.	
can't state it's the orig local one. SuggestedRemedy Change "to restore the the order of the data r Proposed Response CI 177 SC 177.5	nial data from the SM-PMA and e original data received from th received to be compatible with the <i>Response Status</i> <b>O</b>	d that'd be the fa e BASE-R SM-F the BASE-R SM-	ar end SM-PMA not the PMA." to be "to restore -PMA."	Slavick, Jeff Comment Type Pseudo co SuggestedRen change the add "else i add the fol	e TR ode should h nedy e else to be ic_sts = upc llowing after	Comment of nave check for u "else if CHECI lated coeff_sts	Broadcom Status X unsupported red K_REQ(ic_req)	quests.	
can't state it's the orig local one. SuggestedRemedy Change "to restore the the order of the data r Proposed Response CI 177 SC 177.5 Slavick, Jeff	nial data from the SM-PMA and e original data received from the received to be compatible with the Response Status <b>O</b> P <b>317</b>	d that'd be the fa e BASE-R SM-F the BASE-R SM-	ar end SM-PMA not the PMA." to be "to restore -PMA."	Slavick, Jeff Comment Type Pseudo cc SuggestedRen change the add "else i add the fol CHECK_R	e TR ode should h nedy e else to be ic_sts = upc llowing after REQ(ic_req)	Comment a nave check for u "else if CHECI lated coeff_sts the end if	Broadcom Status X unsupported red K_REQ(ic_req) = not supported	quests. " d" before the end	d if
can't state it's the orig local one. SuggestedRemedy Change "to restore the the order of the data r Proposed Response CI 177 SC 177.5 Slavick, Jeff	nial data from the SM-PMA and e original data received from the received to be compatible with the Response Status <b>O</b> P <b>317</b> Broadcom Comment Status <b>X</b>	d that'd be the fa e BASE-R SM-F the BASE-R SM-	ar end SM-PMA not the PMA." to be "to restore -PMA."	Slavick, Jeff Comment Type Pseudo cc SuggestedRen change the add "else i add the fol CHECK_R Compares	e TR bde should h nedy e else to be ic_sts = upc llowing after REQ(ic_req) t the ic_req	Comment a nave check for u "else if CHECI lated coeff_sts the end if against the list o	Broadcom Status X unsupported red K_REQ(ic_req) = not supported of specified pre	quests. " d" before the end	d if I component or PMD
can't state it's the orig local one. SuggestedRemedy Change "to restore the the order of the data r Proposed Response Cl 177 SC 177.5 Slavick, Jeff Comment Type TR Introductory sentence	nial data from the SM-PMA and e original data received from the received to be compatible with the Response Status <b>O</b> P <b>317</b> Broadcom Comment Status <b>X</b>	d that'd be the fa e BASE-R SM-F the BASE-R SM-	ar end SM-PMA not the PMA." to be "to restore -PMA."	Slavick, Jeff Comment Type Pseudo cc SuggestedRen change the add "else i add the fol CHECK_R Compares Returns tre	e TR bde should h nedy e else to be ic_sts = upc llowing after REQ(ic_req) t the ic_req	Comment a nave check for u "else if CHECI lated coeff_sts the end if against the list o uested preset is	Broadcom Status X unsupported red K_REQ(ic_req) = not supported of specified pre	quests. " d" before the end esets for the AUI	d if I component or PMD.
can't state it's the orig local one. SuggestedRemedy Change "to restore th the order of the data r Proposed Response CI 177 SC 177.5 Slavick, Jeff Comment Type TR Introductory sentence SuggestedRemedy	e original data from the SM-PMA and received to be compatible with the <i>Response Status</i> <b>O</b> <i>P</i> <b>317</b> Broadcom <i>Comment Status</i> <b>X</b> e could be useful 77.5 "The following processes	d that'd be the fa e BASE-R SM-P the BASE-R SM-	ar end SM-PMA not the PMA." to be "to restore PMA." # 123	Slavick, Jeff Comment Type Pseudo cc SuggestedRen change the add "else i add the fol CHECK_R Compares Returns tre	e TR bde should h nedy e else to be ic_sts = upc llowing after REQ(ic_req) the ic_req ue if the req t with editor	Comment a nave check for u "else if CHECI lated coeff_sts the end if against the list o uested preset is	Broadcom Status X unsupported red K_REQ(ic_req) = not supported of specified pre s specified and	quests. " d" before the end esets for the AUI	d if I component or PMD.

C/ 178 SC 178.8.9	P 340	L32	# 126	C/ 174A	SC 174A.6.	1.1	P 663	L <b>39</b>	# 128
Slavick, Jeff	Broadcom			Slavick, Jet	ff		Broadcom		
Comment Type TR	Comment Status X			Comment T	Туре <b>т</b>	Commer	nt Status X		
groundwork for reuse of	nd presets that are supporte the 178B over interfaces wit			stream	to determine t	he RS-FEC C	W boundary. So	Figure 174A-2	the AMs in the data is not a viable bled in a test mode.
SuggestedRemedy				Suggested		nat anymnent	and desidew prot		
	litorial license after the first esets supported by the PMD			00	-	1177 and CI19	P4 that acuses th	o input to pormu	itation function in CI19
k_list = {-3, -2 -1, 0, 1} preset 1			in are.		e input to convo				Itation function in CI18 Prvice interface input
preset 2 preset 3 preset 4 preset 5"				Proposed F	Response	Response	e Status O		
Proposed Response	Deenenee Statue			C/ 174A	SC 174A.7.	1.3	P667	L1	# 129
rioposed Response	Response Status O			Slavick, Jet	ff		Broadcom		
				Comment T		Commer	nt Status X		
C/ 186 SC 186.2.4.1	P 580	L 20	# 127		51			he hisograms to	anything it's just
Slavick, Jeff	Broadcom				ng the data. In	174A.6.1.3 w	ve don't incluce th	e word measure	ement in the section
Comment Type T	Comment Status X			title.					
Don't have the counters	be their own sub-headings,	just be inline fur	nctionality that is part of	Suggested					
the decoder.	-	-		Remov	e the word "me	easurement" f	rom the title of 17	74A.7.1.3	
SuggestedRemedy				Proposed F	Response	Response	e Status <b>O</b>		
	o the 186.2.4.1.1 heading "" twork operator in determinin								
Remove the sub-heading 175.2.5.3	gs of 186.2.4.1.1-4 and mak	e them inline de	finitions like is done in						
Update the references in Implement with editorial									
Proposed Response	Pooponoo Statua								

Proposed Response Respo

Response Status O

V 174A SC 174A.7	P666	L <b>9</b>	# 130	C/ 179	SC	179.8.9		P 372	L <b>43</b>	# 132
lavick, Jeff	Broadcom			Slavick, Je	əff		Bro	oadcom		
Comment Type TR	Comment Status X			Comment	Туре	TR	Comment Stat	us X		
	alid for between a DTE_XS and	PHY_XS.					and presets that a f the 178B over in			
uggestedRemedy				Suggester					gooppo	
Rename 174A.7 as "I	Error ratio tests for a PHY or XS	s using PCS sta	itistics"	00		•	editorial license af	ter the first r	paragraph of 179	9.8.9
Extender Sublayer wh	the first paragraph of 174A.7 " nich includes 200Gb/s signaling from the second paragph and nd paratph of 174A.7	on one or mor	e ISLs."	"The o	coefficie st = {-3 set 1 set 2 set 3 set 3 set 4		resets supported			
Remove "in a PHY" a the second sentence	nd "in the PCS" from the first se of 174A.7.1	entence and ac	d "or XS" after PHY in	Proposed	Respo	nse	Response State	us <b>O</b>		
Add "Note: The DTE a purpose of this test m	and PHY XS sub-layers are fun lethod." to 174A.7.1	ctionally equiva	lent to a PCS for the	C/ 178B	SC	178B.11.4	4	P <b>781</b>	L33	# 133
				Slavick, Je	əff		Bro	oadcom		
Create a new figure for and PMD and changing	or the XS test structure leveraging PCS to XS.	n Fig 174A-4 re	emoving hte Inner FEC	Comment The lis		TR ipported co	Comment Stat		various compor	nents
Remove PCS from th	e title of 174A.7.1.2 and the firs	t sentence of t	ne section.	Suggestee	dReme	dy				
Implement with editor	ial license.			Repla or PM		{-3, -2, -1,	0, 1} in the definit	ion of k_list	with "is defined	by the AUI component
Proposed Response	Response Status 0			Proposed	Respo	nse	Response Stat	us <b>O</b>		
S 73 SC 73.10.2	P130	L16	# 131							
lavick, Jeff <i>comment Type</i> <b>TR</b> TBD needs to be filled	Broadcom <i>Comment Status</i> X d in.									
uggestedRemedy Set link fail inhibit tim	er to be 15 to 15.1s									

Proposed Response Response Status **O** 

C/ 176C SC 176C.4.3.1 P704 L19 # 134	C/ 178B SC 178B.11.4 P781 L 37 # 136
Slavick, Jeff Broadcom	Slavick, Jeff Broadcom
Comment Type TR Comment Status X	Comment Type TR Comment Status X
Listing the coefficients and presets that are supported by the PMD here will lay the	The steady state measurement technique differs from 136 for 179.
groundwork for reuse of the 178B over interfaces with differing support.	SuggestedRemedy
SuggestedRemedy	Remove the "(see `136.9.3.1.2)"
Add the following with editorial license at the end of the second paragraph of 176C.4.3.1 "The coefficients and presets supported by the C2C transmiter during link training are: k_list = {-3, -2 -1, 0, 1} preset 1	Proposed Response Response Status <b>O</b>
preset 2	C/ 178 SC 178.8.9 P340 L34 # 137
preset 3 preset 4	Slavick, Jeff Broadcom
preset 5"	Comment Type TR Comment Status X
Proposed Response Response Status O	steady state measurement is also needed by ILT
	SuggestedRemedy
C/ 176D SC 176D.7.6 P732 L50 # 135	Add "The steady state voltage specifiction needed in 178B.11.4 is specified in 178.9.2. the subclause.
	the subclause.
Slavick, Jeff Broadcom	Proposed Response Response Status <b>O</b>
Slavick, Jeff Broadcom	Proposed Response Response Status O
Slavick, Jeff Broadcom Comment Type TR Comment Status X Listing the coefficients and presets that are supported by the PMD here will lay the	Proposed Response         Response Status         O           Cl 179         SC 179.8.9         P 372         L 34         # 138
Slavick, Jeff       Broadcom         Comment Type       TR       Comment Status         Listing the coefficients and presets that are supported by the PMD here will lay the groundwork for reuse of the 178B over interfaces with differing support.	Proposed Response Response Status O Cl 179 SC 179.8.9 P372 L 34 # 138 Slavick, Jeff Broadcom
Slavick, Jeff       Broadcom         Comment Type       TR       Comment Status       X         Listing the coefficients and presets that are supported by the PMD here will lay the groundwork for reuse of the 178B over interfaces with differing support.       SuggestedRemedy         Add the following with editorial license at the end of the first paragraph of 176D.7.6       "The coefficients and presets supported by the C2M transmiter during link training are:	Proposed Response         Response Status         O           Cl 179         SC 179.8.9         P 372         L 34         # 138
Slavick, Jeff       Broadcom         Comment Type       TR       Comment Status         Listing the coefficients and presets that are supported by the PMD here will lay the groundwork for reuse of the 178B over interfaces with differing support.         SuggestedRemedy         Add the following with editorial license at the end of the first paragraph of 176D.7.6	Proposed Response Response Status O Cl 179 SC 179.8.9 P372 L 34 # 138 Slavick, Jeff Broadcom Comment Type TR Comment Status X
Slavick, Jeff       Broadcom         Comment Type       TR       Comment Status       X         Listing the coefficients and presets that are supported by the PMD here will lay the groundwork for reuse of the 178B over interfaces with differing support.       SuggestedRemedy         Add the following with editorial license at the end of the first paragraph of 176D.7.6       "The coefficients and presets supported by the C2M transmiter during link training are:         k_list = {-3, -2 -1, 0, 1}       preset 1         preset 2       preset 3	Proposed Response       Response Status       O         Cl 179       SC 179.8.9       P 372       L 34       # 138         Slavick, Jeff       Broadcom         Comment Type       TR       Comment Status       X         steady state measurement is also needed by ILT
Slavick, Jeff       Broadcom         Comment Type       TR       Comment Status       X         Listing the coefficients and presets that are supported by the PMD here will lay the groundwork for reuse of the 178B over interfaces with differing support.       SuggestedRemedy         Add the following with editorial license at the end of the first paragraph of 176D.7.6       "The coefficients and presets supported by the C2M transmiter during link training are:         k_list = {-3, -2 -1, 0, 1}       preset 1         preset 2       preset 2	Proposed Response       Response Status       O         Cl 179       SC 179.8.9       P 372       L 34       # 138         Slavick, Jeff       Broadcom         Comment Type       TR       Comment Status       X         steady state measurement is also needed by ILT         SuggestedRemedy         Add "The steady state voltage specifiction needed in 178B.11.4 is specified in 179.9.4.

C/ 176C SC 176C.4.3							
C/ 176C 3C 176C.4.3	3.1 P <b>704</b>	L19	# 139	C/ 178B SC 178B.14.3.5	P <b>790</b>	L <b>20</b>	# 142
Slavick, Jeff	Broadcom			Slavick, Jeff	Broadcom		
Comment Type TR	Comment Status X			Comment Type E Cor	nment Status X		
steady state measurer	ment is also needed by ILT			Fig 178B-9 has text box overla	apping lines		
SuggestedRemedy				SuggestedRemedy			
Add "The steady state the subclause.	e voltage specifiction needed in	n 178B.11.4 is sp	becified in 178.9.2.4" to	tf_offset in GET_NEW_MARK	ER is covering up lies	i	
Proposed Response	Response Status O						
	0 0700	1.50	# [140]	C/ 178B SC 178B.14.3.5	P <b>790</b>	L <b>20</b>	# 143
C/ 176D SC 176D.7.6		L <b>50</b>	# 140	Slavick, Jeff	Broadcom		
Slavick, Jeff	Broadcom			Comment Type E Cor	mment Status X		
Comment Type TR	Comment Status X			Fig 178B-9 has an extraneous	line		
steady state measurer	ment is also needed by ILT			SuggestedRemedy			
				00 ,			
Suggesteakerneay				extran   to th right of the UCT	exiting POLARIY_INV	ERT	
SuggestedRemedy Add "The steady state the subclause.	e voltage specifiction needed in	n 178B.11.4 is sp	pecified in 176D.7.4" to		exiting POLARIY_INV ponse Status <b>0</b>	ERT	
Add "The steady state the subclause.	e voltage specifiction needed in Response Status <b>0</b>	n 178B.11.4 is sp	pecified in 176D.7.4" to		<b>c</b> _	ERT	
Add "The steady state the subclause.		n 178B.11.4 is sp	pecified in 176D.7.4" to		<b>c</b> _	L27	# 144
Add "The steady state	Response Status <b>O</b>	178B.11.4 is sp	becified in 176D.7.4" to	Proposed Response Resp	oonse Status <b>O</b>		# 144
Add "The steady state the subclause. Proposed Response Cl 178B SC 178B.14.	Response Status <b>O</b>			Proposed Response Res	ponse Status O		# 144
Add "The steady state the subclause. Proposed Response Cl 178B SC 178B.14. Slavick, Jeff	Response Status O			Proposed Response Res	P <b>790</b> Broadcom	L 27	# 144
Add "The steady state the subclause. Proposed Response Cl 178B SC 178B.14. Slavick, Jeff Comment Type TR	Response Status O .3.5 P789 Broadcom	L 41	# <u>141</u>	Proposed Response Resp Cl 178B SC 178B.14.3.5 Slavick, Jeff Comment Type TR Cor	P <b>790</b> Broadcom	L 27	# 144
Add "The steady state the subclause. Proposed Response Cl 178B SC 178B.14. Slavick, Jeff Comment Type TR Ambigous transition if SuggestedRemedy	Response Status O .3.5 P789 Broadcom Comment Status X timer_done and tf_lock both o	L <b>41</b>	# <u>141</u> usly	Proposed Response Resp Cl 178B SC 178B.14.3.5 Slavick, Jeff Comment Type TR Con Fig 178B-9 needs to clarify the	P790 Broadcom mment Status X e transitions out of TES	L 27 ST_MARKER. ALID_MARKER t	o be "(!valid_marker *
Add "The steady state the subclause. Proposed Response Cl 178B SC 178B.14. Slavick, Jeff Comment Type TR Ambigous transition if SuggestedRemedy	Response Status O .3.5 P789 Broadcom Comment Status X	L <b>41</b>	# <u>141</u> usly	Proposed Response Resp Cl 178B SC 178B.14.3.5 Slavick, Jeff Comment Type TR Cor Fig 178B-9 needs to clarify the SuggestedRemedy Change the transition from TE	P790 P790 Broadcom mment Status X e transitions out of TES ST_MARKER to INVA arity_correction * inverses ST_MARKER to POL	L 27 ST_MARKER. ALID_MARKER t se_valid_marker	o be "(!valid_marker * )"

C/ 176 SC 176.4.4.	3 P290	L34	# 145	C/ 177 SC 177	.1.4	P 307	L <b>31</b>	# 148
He, Xiang	Huawei			He, Xiang	F	Huawei		
Comment Type T	Comment Status X			Comment Type T	Comment Sta	atus X		
	MAL but a PAML number.				some test patter check be provided to suppo			
SuggestedRemedy	ne input PMAL" to "where y is t	the input DMAL a	umbor"	SuggestedRemedy				
Proposed Response	Response Status <b>O</b>	the input FMAL h	uniber	Add "test pattern 176-2.	check" on the receive	path on the F	PAM4 decode b	ox, similar as in Figur
				Proposed Response	Response Sta	atus <b>O</b>		
C/ 177 SC 177.4.2	P311	L18	# 146	_				
He, Xiang	Huawei			C/ 184 SC 184	.2	P <b>517</b>	L <b>34</b>	# 149
Comment Type T	Comment Status X			He, Xiang	F	luawei		
The term "PMA lane" lane".	is not accurate. Within the Inr	her FEC sublayer,	it is an "Inner FEC	Comment Type T	Comment Sta	atus X		
Currents al Dama al v				Clause 814 Inner	FEC for 800GBASE-L	LR1 did not in	iclude any test p	patterns.
<b>00</b>	n "Inner FEC lane" to be cons	sistent within the c	lause	Clause 814 Inner SuggestedRemedy	FEC for 800GBASE-L	LR1 did not in	iclude any test p	patterns.
Change "PMA lane" to	o "Inner FEC lane", to be cons Response Status <b>O</b>	sistent within the c	lause.	SuggestedRemedy It is recommed to	FEC for 800GBASE-L add at least one test apper box. Also inser	pattern for thi	is clause. Add "	Test patter generate"
Change "PMA lane" to Proposed Response		sistent within the c	lause. # 147	SuggestedRemedy It is recommed to the DP-16QAM n	add at least one test	pattern for thi t a subclause	is clause. Add "	Test patter generate"
Change "PMA lane" to Proposed Response Cl 177 SC 177.10	Response Status O			SuggestedRemedy It is recommed to the DP-16QAM n pattern(s). Proposed Response	add at least one test apper box. Also inser <i>Response Sta</i>	pattern for thi t a subclause atus <b>O</b>	is clause. Add " in 184.4.11 des	Test patter generate" scribing the test
Change "PMA lane" to Proposed Response Cl 177 SC 177.10 He, Xiang	Response Status O			SuggestedRemedy It is recommed to the DP-16QAM n pattern(s).	add at least one test apper box. Also inser <i>Response Sta</i>	pattern for thi t a subclause	is clause. Add "	Test patter generate"
Change "PMA lane" to Proposed Response Cl 177 SC 177.10 He, Xiang Comment Type <b>T</b> "Inner FEC enable lan	Response Status O P 325 Huawei Comment Status X ne x" variables are not defined	L9	# [147	SuggestedRemedy It is recommed to the DP-16QAM n pattern(s). Proposed Response	add at least one test happer box. Also inser Response Sta A.6.1.1	pattern for thi t a subclause atus <b>O</b> P663 Huawei	is clause. Add " in 184.4.11 des	Test patter generate" scribing the test
Change "PMA lane" to Proposed Response Cl 177 SC 177.10 He, Xiang Comment Type T "Inner FEC enable lan be removed in the new	Response Status O P 325 Huawei Comment Status X ne x" variables are not defined	L9	# [147	SuggestedRemedy It is recommed to the DP-16QAM n pattern(s). Proposed Response CI 174A SC 174 He, Xiang Comment Type T	add at least one test apper box. Also inser <i>Response Sta</i> A.6.1.1	pattern for thi t a subclause atus <b>O</b> P663 Huawei ratus <b>X</b>	is clause. Add " in 184.4.11 des <i>L</i> <b>43</b>	Test patter generate" scribing the test # 150
Change "PMA lane" to Proposed Response Cl 177 SC 177.10 He, Xiang Comment Type T "Inner FEC enable lan be removed in the new SuggestedRemedy	Response Status O P325 Huawei Comment Status X ne x" variables are not defined xt draft.	L9 or backed by any	# 147	SuggestedRemedy It is recommed to the DP-16QAM n pattern(s). Proposed Response C/ 174A SC 174 He, Xiang Comment Type T The PAM4 encod	add at least one test happer box. Also inser <i>Response Sta</i> A.6.1.1 F Comment Sta er should not be in fro	pattern for thi t a subclause atus <b>O</b> P663 Huawei fatus X ont of the Inne	is clause. Add " in 184.4.11 des <i>L</i> 43 er FEC transmit	Test patter generate" scribing the test # <u>150</u> function.
Change "PMA lane" to Proposed Response Cl 177 SC 177.10 He, Xiang Comment Type T "Inner FEC enable lan be removed in the new SuggestedRemedy Remove rows "Inner F	Response Status O P 325 Huawei Comment Status X ne x" variables are not defined	L9 or backed by any	# 147	SuggestedRemedy It is recommed to the DP-16QAM n pattern(s). Proposed Response C/ 174A SC 174 He, Xiang Comment Type T The PAM4 encod	add at least one test happer box. Also inser <i>Response Sta</i> A.6.1.1 F Comment Sta er should not be in fro atter should not go thro acteristics.	pattern for thi t a subclause atus <b>O</b> P663 Huawei fatus X ont of the Inne	is clause. Add " in 184.4.11 des <i>L</i> 43 er FEC transmit	Test patter generate" scribing the test # <u>150</u> function.
Change "PMA lane" to Proposed Response Cl 177 SC 177.10 He, Xiang Comment Type T "Inner FEC enable lan be removed in the new SuggestedRemedy Remove rows "Inner F	Response Status O P 325 Huawei Comment Status X ne x" variables are not defined xt draft. FEC enable lane 0" through "In	L9 or backed by any	# 147	SuggestedRemedy It is recommed to the DP-16QAM m pattern(s). Proposed Response CI 174A SC 174 He, Xiang Comment Type T The PAM4 encod The PRBS31Q p maintain its chara A presentation w	add at least one test happer box. Also inser <i>Response Sta</i> A.6.1.1 F Comment Sta er should not be in fro atter should not go thro acteristics.	pattern for thi t a subclause atus <b>O</b> P663 Huawei fatus X ont of the Inne	is clause. Add " in 184.4.11 des <i>L</i> 43 er FEC transmit	Test patter generate" scribing the test # <u>150</u> function.
Proposed Response Cl 177 SC 177.10 He, Xiang Comment Type T "Inner FEC enable lar be removed in the new SuggestedRemedy	Response Status O P 325 Huawei Comment Status X ne x" variables are not defined xt draft. FEC enable lane 0" through "In	L9 or backed by any	# 147	SuggestedRemedy It is recommed to the DP-16QAM m pattern(s). Proposed Response CI 174A SC 174 He, Xiang Comment Type T The PAM4 encod The PRBS31Q p maintain its chara A presentation wi SuggestedRemedy First, remove "PA	add at least one test happer box. Also inser <i>Response Sta</i> A.6.1.1 H Comment Sta er should not be in fro atter should not be in fro atter should not go thro icteristics. Il be provided. M4 encoder" box. The " into the "Inner FEC t	pattern for thi t a subclause atus <b>O</b> P663 Huawei fatus <b>X</b> ont of the Inne ough the Inne en, either cha	is clause. Add " in 184.4.11 des <i>L</i> 43 er FEC transmit er FEC transmit	Test patter generate" scribing the test # <u>150</u> function. function in order to

C/ 174A SC 174A.	9 <i>P</i> 668	L11	# 151	C/ 169	SC 169.2.	10 P173	L <b>45</b>	# 153
He, Xiang	Huawei	211	<i>π</i> [131	Bruckman		Nvidia	243	# [135
Comment Type TR	Comment Status X			Comment	,	Comment Status X		
Table 174A-1 has a this table is for all o	a single 2.28E-4 number for "BE ptical PHYs. It did not include th			ILT pr		anism to control the modulation	on, not the module	e. Also ILT coordinates
Inner FEC.				Suggested	dRemedy			
2.28 x 10-4 b 4.85 x 10-3 c Where footnote b sa	the field with footnotes: ays "If the PMD is a type defined "If the PMD is a type defined in			states and to To: "F such a	s, such as equa o indicate the re for each ISL, IL as equalization	SL, ILT provides a mechanism alization, module, and precodir eceiver state." T provides a mechanism for a , modulation, and precoding s state, and to coordinate trans	ng states on the lin a receiver to contri tates on the link p	nk partner transmitter ol transmitter states, artner transmitter, to
Proposed Response	Response Status O			Proposed	Response	Response Status O		
7 116 SC 116.3.	.3.4.1 <i>P</i> 150	L12	# 152	C/ 169	SC 169.4	P178	L 23	# 154
ruckman, Leon	Nvidia			Bruckman	, Leon	Nvidia		
omment Type E Missing comma	Comment Status X				51	Comment Status X BASE-R Inner FEC and 800G	BASE-LR1 are de	fined in the respectiv
comma before: but	t with the text in the previous see it is considered in the previous section penumti			values	e TBDs in Tabl s in the referen		er FEC and 800GI	BASE-LR1 with the
roposed Response	Response Status O			Proposed	Response	Response Status <b>O</b>		
				C/ 174	SC 174.2.	12 P231	L <b>41</b>	# 155
				Bruckman	, Leon	Nvidia		
				Comment ILT co	21	Comment Status X sition to DATA mode.		
				Suggested	dRemedy			
				Chang and to	ge: "equalization indicate the re	on, modulation, and precoding eceiver state." odulation, and precoding state		

To: "equalization, modulation, and precoding states on the link partner transmitter, to indicate the receiver state and to coordinate transition to DATA mode."

Proposed Response Response Status **0** 

C/ 184 SC 184.4.3	B P 520	L <b>2</b>	# 156	C/ 187	SC 187.8.3	P <b>627</b>	L <b>42</b>	# 159
ruckman, Leon	Nvidia			Bruckman, Le	on	Nvidia		
comment Type TR	Comment Status X			Comment Typ	e TR	Comment Status X		
	imply that the even PCS lanes			There is r	no Lane wave	elength (range) in Table 187-5		
the odd to odd. Also	it may imply that the PCS lanes 6-31 to pcsla flows 16-31. This	6 0-15 are mapp	ed to pcsla flows 0-15,	SuggestedRe	medy			
paragraph of section						r frequency (range)" in Table 18	7-5, then mak	e naming consistent.
SuggestedRemedy					so Table 187	7-11 row 2. ength (range) to Table 187-5.		
,	provided with a detailed propos	sal to either rem	ove Figure 184-3 and	Proposed Res		8 ( 8 )		
related text, or to sho is an example	ow a more generic example and	change text to	indicate that the figure	FTOPOSEU RES	sponse	Response Status <b>O</b>		
roposed Response	Response Status O			C/ 187	SC 187.8.6	P628	L <b>8</b>	# 160
				Bruckman, Le	on	Nvidia		
/ 185 SC 185.8.3	B P 555	L <b>34</b>	# 157	Comment Typ	e ER	Comment Status X		
ruckman, Leon	Nvidia			Redundar	nt "is".			
omment Type TR	Comment Status X			SuggestedRe	medy			
	velength (range) in Table 185-5					quality metric is used to define lity metric used to define"	u -	
Update also Table 18	er frequency (range)" in Table 1 85-11 row 2. elength (range) to Table 185-5.	85-5, then mak	e naming consistent.	Proposed Res	sponse	Response Status <b>O</b>		
roposed Response	Response Status 0			C/ 174A	SC 174A.4	P662	L <b>3</b>	# 161
				Bruckman, Le	on	Nvidia		
				Comment Typ	e TR	Comment Status X		
/ 186 SC 186.3.3		L19	# 158	Pre-FEC	BER should	be 2.21 × 10–4.		
ruckman, Leon	Nvidia			SuggestedRe	medy			
	Comment Status X are different for X and Y only th			Change: ' To: "2.21	' 2.21 × 10–1 × 10–4."	4."		
	186-16). No indication as how to ers can choose to use TS and F			Proposed Res	sponse	Response Status O		
uggestedRemedy								
Delete: "using the mu	ulti-frame alignment signal, trair	ning sequence, a	and pilot sequence"					
Proposed Response	Response Status O							

C/ 174A SC 174A.6.1.3							
C/ 174A SC 174A.0.1.3	3 P664	L35	# 162	C/ 174A SC 174A.6.1.4	P665	L <b>24</b>	# 165
Bruckman, Leon	Nvidia			Bruckman, Leon	Nvidia		
Comment Type TR	Comment Status X			Comment Type TR Co	omment Status X		
In Hm is not clear what	is the meaning of "m"			Define the ranges of k and i			
SuggestedRemedy				SuggestedRemedy			
Define the meaning of "	'm" in Hm or remove the "m"			Change: "for all k and i."			
Proposed Response	Response Status 0			To: "for $k = 0$ to 16 and $i = 0$ to	•		
				Proposed Response Res	sponse Status O		
C/ 174A SC 174A.6.1.3	3 <i>P</i> 664	L <b>41</b>	# 163				
Bruckman, Leon	Nvidia			C/ 174A SC 174A.6.1.5	P665	L <b>34</b>	# 166
Comment Type TR	Comment Status X			Bruckman, Leon	Nvidia		
The polynomial for PRB				Comment Type TR Co	mment Status X		
SuggestedRemedy				Point b) is unclear:			、 <b>"</b>
,				<ul> <li>Is equation 174A-5 defining</li> </ul>	He(K)? If yes, then it s	should say: "He(F	() ="
	1Q is produced by the polyno	mial defined in E	Equation (49–2) and	<ul> <li>Not clear how to iterate</li> </ul>			
shown in Figure 49-9.		mial defined in E	Equation (49–2) and	- Not clear how to iterate SuggestedRemedy	., .		
shown in Figure 49-9.	1Q is produced by the polyno <i>Response Status</i> <b>0</b>	mial defined in E	equation (49–2) and			ations	
	Response Status <b>O</b>	mial defined in E	equation (49–2) and	SuggestedRemedy Clarify the meaning of point b Maybe add a small pseudoco		ations	
shown in Figure 49-9. Proposed Response Cl 174A SC 174A.6.1.4	Response Status <b>O</b>			SuggestedRemedy Clarify the meaning of point b Maybe add a small pseudoco	de to describe the iter	ations	
shown in Figure 49-9. Proposed Response CI <b>174A</b> SC <b>174A.6.1.4</b> Bruckman, Leon	Response Status O 4 P665			SuggestedRemedy Clarify the meaning of point b Maybe add a small pseudoco	de to describe the iter	ations	# [167
shown in Figure 49-9. Proposed Response 	Response Status O 4 P665 Nvidia			SuggestedRemedy Clarify the meaning of point b Maybe add a small pseudoco Proposed Response Res	de to describe the iter		# <u>167</u>
shown in Figure 49-9. <i>Proposed Response</i> <i>Cl</i> <b>174A</b> SC <b>174A.6.1.4</b> Bruckman, Leon <i>Comment Type</i> <b>TR</b>	Response Status O 4 P665 Nvidia Comment Status X			SuggestedRemedy Clarify the meaning of point b Maybe add a small pseudoco Proposed Response Res C/ 174A SC 174A.7.1.4 Bruckman, Leon	de to describe the iter sponse Status O P667		# [167
shown in Figure 49-9. Proposed Response Cl 174A SC 174A.6.1.4 Bruckman, Leon Comment Type TR max should not replace SuggestedRemedy Change: "Hmax(k)"	Response Status O 4 P665 Nvidia Comment Status X m but be target for Hm(k)	L16		SuggestedRemedy Clarify the meaning of point b Maybe add a small pseudoco Proposed Response Res C/ 174A SC 174A.7.1.4 Bruckman, Leon	de to describe the iter sponse Status O P667 Nvidia omment Status X	L <b>20</b>	# <u>167</u>
shown in Figure 49-9. Proposed Response Cl 174A SC 174A.6.1.4 Bruckman, Leon Comment Type TR max should not replace SuggestedRemedy Change: "Hmax(k)"	Response Status O 4 P665 Nvidia Comment Status X	L16		SuggestedRemedy Clarify the meaning of point b Maybe add a small pseudoco Proposed Response Res Cl 174A SC 174A.7.1.4 Bruckman, Leon Comment Type TR Co	de to describe the iter sponse Status O P667 Nvidia omment Status X	L <b>20</b>	# [ <u>167</u>
shown in Figure 49-9. Proposed Response Cl 174A SC 174A.6.1.4 Bruckman, Leon Comment Type TR max should not replace SuggestedRemedy Change: "Hmax(k)"	Response Status O 4 P665 Nvidia Comment Status X m but be target for Hm(k)	L16		SuggestedRemedy Clarify the meaning of point b Maybe add a small pseudoco Proposed Response Res Cl 174A SC 174A.7.1.4 Bruckman, Leon Comment Type TR Co It is not clear what is "stress"	de to describe the iter sponse Status O P667 Nvidia omment Status X or where is it applied i tress applied to any lan he receiver of any lane is applied only to lane	L <b>20</b> n the lane. ne"	# [ <u>167</u>

C/ 174A SC 174A.7.1.	4 P667	L 26	# 168	C/ 180	SC 180.9.5	P <b>430</b>	L <b>4</b>	# 171
Bruckman, Leon	Nvidia			Johnson, Jo	hn	Broadcom		
Comment Type TR	Comment Status X			Comment Ty	vpe TR	Comment Status X		
Point e) is unclear						od points to clause 121.8.5.3,		
SuggestedRemedy						te for 200G/lane AUIs. As give UIs should be 4.56e-4 for unco		
	Hms(k) for Hx(k) for Hms (i)(k			SuggestedR				
5 (	<) for Hx(k) and Hms (i)(k) for	r Hy(k)"		00	ew exception t	o the list:		
Proposed Response	Response Status O					error ratio of 4.56e-4."		
				Proposed Re	esponse	Response Status <b>O</b>		
C 176C SC 176C.4.3	.1 P <b>704</b>	L17	# 169					
ruckman, Leon	Nvidia			C/ 180	SC 180.9.5	P 430	L 32	# 172
comment Type T	Comment Status X			Johnson, Jo	hn	Broadcom		
inter-sublayer link traini	ing has a defined acronnym	already used in tl	nis Annex in 176C.3.	Comment Ty	/pe TR	Comment Status X		
SuggestedRemedy				In Table	180-18, the m	ninimum number of equalizer p	ore-cursor taps i	s TBD. In the absend
Change: "inter-sublaye To: "ILT"	r link training"			of furthe 121.8.5.		is value should be 0, consiste	ent with the 5-tap	FFE defined in
Proposed Response	Response Status 0			SuggestedR	emedy			
				0	TBD in Table ne associated			
7 178B SC 178B.15	P <b>792</b>	L13	# 170	Proposed Re	esponse	Response Status 0		
Bruckman, Leon	Nvidia							
Comment Type TR	Comment Status X			C/ 181	SC 181.9.5	P <b>454</b>	L <b>4</b>	# 173
The Management table	s need to be updated			Johnson, Jo		Broadcom		" [175
SuggestedRemedy				Comment Ty		Comment Status X		
	and 176B-7 variables and re				•	od points to clause 121.8.5.3,	which uses a tr	arget SER of 4.80.4
Table 162–7).	add a footnote for the other	Interraces/lanes	(similar to Clause 162			te for 200G/lane AUIs. As give		
Proposed Response	Response Status <b>O</b>			value for	200G/lane Al	Uls should be 4.56e-4 for unco	orrelated bit erro	rs.
,				SuggestedR	emedy			
					ew exception t PAM4 symbol	o the list: error ratio of 4.56e-4."		
				Proposed Re	esponse	Response Status 0		

C/ 181 SC 181.9.5	P 454	L31	# 174	C/ 183	SC 183.9.5	P 509	L14	# 176
ohnson, John	Broadcom			Johnson, Jo		Broadco		
comment Type TR	Comment Status X			Comment Ty		Comment Status X		
In Table 181-13, the	minimum number of equalizer p this value should be 0, consiste			In Table	, 183-14, the m <sup>,</sup> proposals, th	inimum number of equa is value should be 0, co		is TBD. In the absence ap FFE defined in
uggestedRemedy				SuggestedR	emedy			
Change TBD in Table Delete the associated For the editor's consi and refer to Table 18	d editors note. deration: If the specs are ident	tical, delete Table	e 181-13 completely	Delete the For the e	TBD in Table le associated ditor's conside to Table 180	editors note. eration: If the specs are	identical, delete Ta	ble 183-14 completely
Proposed Response	Response Status O			Proposed Re	esponse	Response Status O		
C 182 SC 182.9.5	P <b>483</b>	L <b>25</b>	# 175	C/ 185A	SC 185A.2.3	.2 P843	L <b>4</b>	# 177
hnson, John	Broadcom			Johnson, Jol	n	Broadco	m	
omment Type <b>TR</b> In Table 182-18, the blank. In the absenc	Comment Status X minimum number of equalizer p e of further proposals, this FFE	definition should	d be the same as given	Comment Ty A consta generali	pe <b>TR</b> nt value for th y of the ETCC	Comment Status X e lowpass filter bandwid test method. The value	th is specified, whic e of 65 GHz is suital	ble for 800GBASE-LR1
Comment Type <b>TR</b> In Table 182-18, the blank. In the absenc in Table 180-18, and the 5-tap FFE define SuggestedRemedy Format Table 182-18	Comment Status X minimum number of equalizer p e of further proposals, this FFE the value for minimum pre-curs d in 121.8.5.4.	definition should sor taps should b 18 (delete the rov	d be the same as given be 0, consistent with w for number of post-	Comment Ty A consta generaliti and -ER future Pl SuggestedR Change	pe <b>TR</b> nt value for th y of the ETCC 1 (52.6% and s /IDs that refer emedy "with a 3 dB b	Comment Status X e lowpass filter bandwid test method. The value 55% of signaling rate, re to 185A.2. andwidth equal to 65 ± 1	th is specified, whic e of 65 GHz is suital spectively), but may	ble for 800GBASE-LR1
Comment Type <b>TR</b> In Table 182-18, the blank. In the absenc in Table 180-18, and the 5-tap FFE define SuggestedRemedy Format Table 182-18 cursor taps), and cha	Comment Status X minimum number of equalizer p e of further proposals, this FFE the value for minimum pre-curs d in 121.8.5.4. to be the same as Table 180-1 inge the minimum number of pu	definition should sor taps should b 18 (delete the rov	d be the same as given be 0, consistent with w for number of post-	Comment Ty A consta generaliti and -ER future Pl SuggestedR Change times th	pe TR nt value for th y of the ETCC 1 (52.6% and s //Ds that refer emedy "with a 3 dB b e signaling rate	Comment Status X e lowpass filter bandwid test method. The value 55% of signaling rate, re to 185A.2. andwidth equal to 65 ± 1	th is specified, whic e of 65 GHz is suital spectively), but may	ble for 800GBASE-LR1 / not be suitable for
Comment Type TR In Table 182-18, the blank. In the absenc in Table 180-18, and the 5-tap FFE defined SuggestedRemedy Format Table 182-18 cursor taps), and cha Delete the associated	Comment Status X minimum number of equalizer p e of further proposals, this FFE the value for minimum pre-curs d in 121.8.5.4. to be the same as Table 180-1 inge the minimum number of p d editors note. deration: If the specs are ident	definition should sor taps should b 18 (delete the rov re-cursor taps to	d be the same as given be 0, consistent with w for number of post- 0.	Comment Ty A consta generaliti and -ER future Pl SuggestedR Change	pe TR nt value for th y of the ETCC 1 (52.6% and s //Ds that refer emedy "with a 3 dB b e signaling rate	Comment Status X e lowpass filter bandwid test method. The value 55% of signaling rate, re to 185A.2. andwidth equal to 65 ± 1	th is specified, whic e of 65 GHz is suital espectively), but may I GHz" to "with a 3 c	ble for 800GBASE-LR1 / not be suitable for
Comment Type <b>TR</b> In Table 182-18, the blank. In the absenc in Table 180-18, and the 5-tap FFE defined SuggestedRemedy Format Table 182-18 cursor taps), and cha Delete the associated For the editor's consi and refer to Table 18	Comment Status X minimum number of equalizer p e of further proposals, this FFE the value for minimum pre-curs d in 121.8.5.4. to be the same as Table 180-1 inge the minimum number of p d editors note. deration: If the specs are ident	definition should sor taps should b 18 (delete the rov re-cursor taps to	d be the same as given be 0, consistent with w for number of post- 0.	Comment Ty A consta generaliti and -ER future Pl SuggestedR Change times th	pe TR nt value for th y of the ETCC 1 (52.6% and s //Ds that refer emedy "with a 3 dB b e signaling rate	Comment Status X e lowpass filter bandwid t test method. The value 55% of signaling rate, re to 185A.2. andwidth equal to $65 \pm 1$ e, $\pm 1$ GHz."	th is specified, whic e of 65 GHz is suital spectively), but may I GHz" to "with a 3 c	ble for 800GBASE-LR1 / not be suitable for
Comment Type <b>TR</b> In Table 182-18, the blank. In the absenc in Table 180-18, and the 5-tap FFE defined suggestedRemedy Format Table 182-18 cursor taps), and cha Delete the associated For the editor's consi and refer to Table 18	Comment Status X minimum number of equalizer p e of further proposals, this FFE the value for minimum pre-curs d in 121.8.5.4. to be the same as Table 180-1 inge the minimum number of pu d editors note. deration: If the specs are ident 0-18.	definition should sor taps should b 18 (delete the rov re-cursor taps to	d be the same as given be 0, consistent with w for number of post- 0.	Comment Ty A consta generali and -ER future Pl SuggestedR Change times the Proposed Re	pe TR nt value for th y of the ETCC 1 (52.6% and s ADs that refer emedy "with a 3 dB b e signaling rate esponse	Comment Status X e lowpass filter bandwid test method. The value 55% of signaling rate, re to 185A.2. andwidth equal to 65 ± 1 e, ± 1 GHz." Response Status <b>O</b>	th is specified, whic e of 65 GHz is suital espectively), but may I GHz" to "with a 3 c	ble for 800GBASE-LR1 / not be suitable for
Comment Type <b>TR</b> In Table 182-18, the blank. In the absenc in Table 180-18, and the 5-tap FFE defined SuggestedRemedy Format Table 182-18 cursor taps), and cha Delete the associated For the editor's consi and refer to Table 18	Comment Status X minimum number of equalizer p e of further proposals, this FFE the value for minimum pre-curs d in 121.8.5.4. to be the same as Table 180-1 inge the minimum number of pu d editors note. deration: If the specs are ident 0-18.	definition should sor taps should b 18 (delete the rov re-cursor taps to	d be the same as given be 0, consistent with w for number of post- 0.	Comment Ty A consta generaliti and -ER future Pl SuggestedR Change times the Proposed Re Cl 185 Sheffi, Nir Comment Ty	pe TR nt value for th y of the ETCC 1 (52.6% and s //Ds that refer emedy "with a 3 dB b e signaling rate esponse SC 185.6.3 pe T	Comment Status X e lowpass filter bandwid t test method. The value 55% of signaling rate, re to 185A.2. andwidth equal to $65 \pm 1$ e, $\pm 1$ GHz." Response Status O P552 Alphawa Comment Status X	th is specified, whic e of 65 GHz is suital spectively), but may I GHz" to "with a 3 c <i>L</i> 14	ble for 800GBASE-LR1 r not be suitable for IB bandwidth equal to 0.4 # 178
Comment Type <b>TR</b> In Table 182-18, the blank. In the absenc in Table 180-18, and the 5-tap FFE defined suggestedRemedy Format Table 182-18 cursor taps), and cha Delete the associated For the editor's consi and refer to Table 18	Comment Status X minimum number of equalizer p e of further proposals, this FFE the value for minimum pre-curs d in 121.8.5.4. to be the same as Table 180-1 inge the minimum number of pu d editors note. deration: If the specs are ident 0-18.	definition should sor taps should b 18 (delete the rov re-cursor taps to	d be the same as given be 0, consistent with w for number of post- 0.	Comment Ty A consta generaliti and -ER future Pl SuggestedR Change times the Proposed Re C/ 185 Sheffi, Nir Comment Ty Per Tab included	pe TR nt value for th y of the ETCC 1 (52.6% and i //Ds that refer emedy "with a 3 dB bit a signaling rate esponse SC 185.6.3 pe T e 185-7, the lin	Comment Status X e lowpass filter bandwid t test method. The value 55% of signaling rate, re to 185A.2. andwidth equal to 65 ± 1 e, ± 1 GHz." Response Status O P552 Alphawa Comment Status X nk power budget is 6.8 d e between TX power spec	th is specified, whic e of 65 GHz is suital spectively), but may I GHz" to "with a 3 c <i>L</i> 14 we IB if allocation for pe	ble for 800GBASE-LR1 r not be suitable for IB bandwidth equal to 0.4 # [ <u>178</u> enalties of 0.5 dB is
Comment Type <b>TR</b> In Table 182-18, the blank. In the absenc in Table 180-18, and the 5-tap FFE defined SuggestedRemedy Format Table 182-18 cursor taps), and cha Delete the associated For the editor's consi and refer to Table 18	Comment Status X minimum number of equalizer p e of further proposals, this FFE the value for minimum pre-curs d in 121.8.5.4. to be the same as Table 180-1 inge the minimum number of pu d editors note. deration: If the specs are ident 0-18.	definition should sor taps should b 18 (delete the rov re-cursor taps to	d be the same as given be 0, consistent with w for number of post- 0.	Comment Ty A consta generaliti and -ER future Pl SuggestedR Change times the Proposed Re C/ 185 Sheffi, Nir Comment Ty Per Tab included	pe TR nt value for th y of the ETCC 1 (52.6% and a MDs that refer amedy "with a 3 dB b a signaling rate sponse SC 185.6.3 pe T e 185-7, the lin . But difference in Table 185-	Comment Status X e lowpass filter bandwid t test method. The value 55% of signaling rate, re to 185A.2. andwidth equal to 65 ± 1 e, ± 1 GHz." Response Status O P552 Alphawa Comment Status X nk power budget is 6.8 d e between TX power spec	th is specified, whic e of 65 GHz is suital spectively), but may I GHz" to "with a 3 c <i>L</i> 14 we IB if allocation for pe	ble for 800GBASE-LR1 r not be suitable for IB bandwidth equal to 0.4 # [ <u>178</u> enalties of 0.5 dB is
In Table 182-18, the blank. In the absenc in Table 180-18, and the 5-tap FFE defined SuggestedRemedy Format Table 182-18 cursor taps), and cha Delete the associated For the editor's consi	Comment Status X minimum number of equalizer p e of further proposals, this FFE the value for minimum pre-curs d in 121.8.5.4. to be the same as Table 180-1 inge the minimum number of pu d editors note. deration: If the specs are ident 0-18.	definition should sor taps should b 18 (delete the rov re-cursor taps to	d be the same as given be 0, consistent with w for number of post- 0.	Comment Ty A consta generaliti and -ER future Pl SuggestedR Change times the Proposed Re Cl 185 Sheffi, Nir Comment Ty Per Tabl included specified SuggestedR	pe TR nt value for th y of the ETCC 1 (52.6% and i Albs that refer emedy "with a 3 dB b. e signaling rate sponse SC 185.6.3 pe T e 185-7, the lin . But difference lin Table 185- emedy crease TX pov	Comment Status X e lowpass filter bandwid t test method. The value 55% of signaling rate, re to 185A.2. andwidth equal to 65 ± 1 e, ± 1 GHz." Response Status O P552 Alphawa Comment Status X nk power budget is 6.8 d e between TX power spec	th is specified, whic e of 65 GHz is suital espectively), but may I GHz" to "with a 3 c <i>L</i> 14 we IB if allocation for pe ecified in Table 185-	the for 800GBASE-LR1 r not be suitable for IB bandwidth equal to 0.5 # <u>178</u> enalties of 0.5 dB is 5 and RX power

C/ 187 SC 187.6.2	P <b>624</b>	L17	# 179	C/ 186 SC 18	86	P <b>576</b>	L <b>6</b>	# 182
Sheffi, Nir	Alphawave			Brown, Matt		Alphawave Se	emi	
Comment Type <b>T</b>	Comment Status X			Comment Type	E Con	nment Status X		
The ETCC has no effe power (min.), as oppor	ect on the transmit launch powers and to Clause 185.	er (min) and av	erage receive launch	The acronym A used specifical		never defined. Better ne of "AM".	to just spell it ou	it. Exception is if it is
SuggestedRemedy				SuggestedRemedy	/			
	on for the transmitter "Average			Change "AMs"	to "alignment m	arkers".		
	age receive power (min)" (Tabl (Table 185-5 and Table 185-6).	,	a function of ETCC	Proposed Respons	se Resp	onse Status <b>O</b>		
Proposed Response	Response Status 0							
				C/ 174A SC 1	74A.6.1.5	P665	L <b>33</b>	# 183
7 174A SC 174A.6.1	.4 P665	L <b>24</b>	# 180	Brown, Matt		Alphawave Se	emi	
rown, Matt	Alphawave Ser	ni		Comment Type	E Con	nment Status X		
	Comment Status X est method in 174A.6.x.x provid			However, some	e intermediate e	vas "simplified" as pro quations which proide d, reviving some of th	ed context were	eliminated. Some of
	gle lane by constraining the err ative and does not provide a sir			SuggestedRemedy	/			
waterfall curves.		Igic metho for			rmediate equati	ons that we in D1.1, s	similar to the way	/ they are used in
SuggestedRemedy				174A.7.1.4.	_	_		
An effective block erro	or ratio metric for a single lane o osal will be provided.	on a multi-lane	PMD is required. A	Proposed Respons	se Resp	onse Status <b>O</b>		
Proposed Response	Response Status 0			C/ 73 SC 7	3.10.2	P130	L16	# 184
				Brown, Matt		Alphawave Se		
7 175 SC 175.2.4.0	6.1 <i>P</i> 247	L1	# 181	,	T Con	ment Status X		
rown, Matt	Alphawave Ser	ni				is TBD. Need value.		
Comment Type E	Comment Status X			SuggestedRemedy	,			
	I plural AMs) is used a few time	s but never de	fined. Better to just	,	bution with prop	osals.		
spell it out.				Proposed Respons	se Resp	onse Status <b>O</b>		
SuggestedRemedy								
Change "AM" to "align 249/51,249/54, 251/32	ment marker" is several places 2 x2, 253/16 x2	at page/line: 2	247/1, 248/12, 249/42,					
Proposed Response	Response Status 0							

C/ 179 SC 179.9.	.4 P374	L <b>6</b>	# 185	C/ 183 SC 183.9.5	P 509	L14	# 188
Brown, Matt	Alphawave Se	emi		Brown, Matt	Alphawave Se	emi	
Comment Type <b>T</b>	Comment Status X			Comment Type T	Comment Status X		
Values for R_peak	are TBD.			Value for minimum "r	number of equalizer pre-cursor	taps" is TBD.	
SuggestedRemedy				SuggestedRemedy			
Expect a contributio	on with proposals.				ue to 0 allowing the number of		
Proposed Response	Response Status 0				/maximum columns with a valu	ue of 3, permittir	ng only a value of 3.
				Proposed Response	Response Status <b>O</b>		
C/ 180 SC 180.9.	.4 P430	L <b>32</b>	# 186		P 483	L 25	# 189
Brown, Matt	Alphawave Se	emi				-	# 109
Comment Type T	Comment Status X			Brown, Matt	Alphawave Se	emi	
	Records and the second Parameters and the second second			Comment Type T	Comment Status X		
value for minimum	"number of equalizer pre-cursor	taps" is TBD.		<i>,</i> ,			
	"number of equalizer pre-cursor	taps" is TBD.		<i>,</i> ,	umber of equalizer pre-cursor	taps" is not spec	cified.
SuggestedRemedy			to vary from 0 to 3 or	<i>,</i> ,		taps" is not spec	cified.
SuggestedRemedy Either set the the va	alue to 0 allowing the number of jun/maximum columns with a valu	pre-cursor taps		Value for minimum "r SuggestedRemedy Either set the the valu	umber of equalizer pre-cursor ue to 0 allowing the number of	pre-cursor taps t	to vary from 0 to 3 or
SuggestedRemedy Either set the the va	alue to 0 allowing the number of ا	pre-cursor taps		Value for minimum "r SuggestedRemedy Either set the the valu straddle the minimum	umber of equalizer pre-cursor	pre-cursor taps t	to vary from 0 to 3 or
SuggestedRemedy Either set the the va straddle the minimu	alue to 0 allowing the number of p um/maximum columns with a valu	pre-cursor taps		Value for minimum "r SuggestedRemedy Either set the the valu	umber of equalizer pre-cursor ue to 0 allowing the number of	pre-cursor taps t	to vary from 0 to 3 or
SuggestedRemedy Either set the the va straddle the minimu Proposed Response	alue to 0 allowing the number of p um/maximum columns with a valu <i>Response Status</i> <b>0</b>	pre-cursor taps		Value for minimum "r SuggestedRemedy Either set the the valu straddle the minimum Proposed Response	number of equalizer pre-cursor ue to 0 allowing the number of n/maximum columns with a valu <i>Response Status</i> <b>0</b>	pre-cursor taps t ue of 3, permittir	to vary from 0 to 3 or ng only a value of 3.
EuggestedRemedy Either set the the vastraddle the minimu Proposed Response	alue to 0 allowing the number of p um/maximum columns with a valu <i>Response Status</i> <b>0</b>	pre-cursor taps tue of 3, permittir	ng only a value of 3.	Value for minimum "r SuggestedRemedy Either set the the valu straddle the minimum Proposed Response Cl 185 SC 185.6.1	number of equalizer pre-cursor ue to 0 allowing the number of n/maximum columns with a value <i>Response Status</i> <b>O</b> <i>P</i> <b>550</b>	pre-cursor taps t ue of 3, permittir <i>L</i> <b>52</b>	to vary from 0 to 3 or
SuggestedRemedy         Either set the the vastraddle the minimu         Proposed Response         C/ 181       SC 181.9.         Brown, Matt	alue to 0 allowing the number of p um/maximum columns with a valu <i>Response Status</i> <b>O</b> .5 <i>P</i> <b>454</b>	pre-cursor taps tue of 3, permittir	ng only a value of 3.	Value for minimum "r SuggestedRemedy Either set the the valu straddle the minimum Proposed Response	umber of equalizer pre-cursor ue to 0 allowing the number of n/maximum columns with a valu <i>Response Status</i> <b>O</b> <i>P</i> <b>550</b> Alphawave Se	pre-cursor taps t ue of 3, permittir <i>L</i> <b>52</b>	to vary from 0 to 3 or ng only a value of 3.
SuggestedRemedy         Either set the the vastraddle the minimu         Proposed Response         Cl 181       SC 181.9.         Brown, Matt         Comment Type       T	alue to 0 allowing the number of p um/maximum columns with a valu <i>Response Status</i> <b>O</b> .5 <i>P</i> <b>454</b> Alphawave Se	pre-cursor taps tue of 3, permittin	ng only a value of 3.	Value for minimum "r SuggestedRemedy Either set the the valu straddle the minimum Proposed Response Cl 185 SC 185.6.1 Brown, Matt Comment Type T	number of equalizer pre-cursor ue to 0 allowing the number of u/maximum columns with a valu <i>Response Status</i> <b>O</b> <i>P</i> <b>550</b> Alphawave Se <i>Comment Status</i> <b>X</b>	pre-cursor taps t ue of 3, permittir <i>L</i> <b>52</b> emi	to vary from 0 to 3 or ng only a value of 3. # 190
SuggestedRemedy Either set the the vastraddle the minimu Proposed Response Cl 181 SC 181.9. Brown, Matt Comment Type T Value for minimum	alue to 0 allowing the number of j um/maximum columns with a valu <i>Response Status</i> <b>O</b> .5 <i>P</i> 454 Alphawave Se <i>Comment Status</i> <b>X</b>	pre-cursor taps tue of 3, permittin	ng only a value of 3.	Value for minimum "r SuggestedRemedy Either set the the valu straddle the minimum Proposed Response Cl 185 SC 185.6.1 Brown, Matt Comment Type T	umber of equalizer pre-cursor ue to 0 allowing the number of n/maximum columns with a valu <i>Response Status</i> <b>O</b> <i>P</i> <b>550</b> Alphawave Se	pre-cursor taps t ue of 3, permittir <i>L</i> <b>52</b> emi	to vary from 0 to 3 or ng only a value of 3. # <u>190</u>
SuggestedRemedy Either set the the vastraddle the minimu Proposed Response Cl 181 SC 181.9. Brown, Matt Comment Type T Value for minimum SuggestedRemedy	alue to 0 allowing the number of p um/maximum columns with a valu <i>Response Status</i> <b>O</b> .5 <i>P</i> <b>454</b> Alphawave Se <i>Comment Status</i> <b>X</b> "number of equalizer pre-cursor	pre-cursor taps tue of 3, permittin	ng onlý a value of 3. # [ <u>187</u> ]	Value for minimum "r SuggestedRemedy Either set the the valu straddle the minimum Proposed Response Cl 185 SC 185.6.1 Brown, Matt Comment Type T	number of equalizer pre-cursor ue to 0 allowing the number of u/maximum columns with a valu <i>Response Status</i> <b>O</b> <i>P</i> <b>550</b> Alphawave Se <i>Comment Status</i> <b>X</b>	pre-cursor taps t ue of 3, permittir <i>L</i> <b>52</b> emi	to vary from 0 to 3 or ng only a value of 3. # <u>190</u>
SuggestedRemedy Either set the the va straddle the minimu Proposed Response Cl 181 SC 181.9. Brown, Matt Comment Type T Value for minimum SuggestedRemedy Either set the the va	alue to 0 allowing the number of j um/maximum columns with a valu <i>Response Status</i> <b>O</b> .5 <i>P</i> 454 Alphawave Se <i>Comment Status</i> <b>X</b>	pre-cursor taps tue of 3, permittin <i>L</i> 30 emi taps" is TBD. pre-cursor taps t	ng only a value of 3. # [ <u>187</u> to vary from 0 to 3 or	Value for minimum "r SuggestedRemedy Either set the the valu straddle the minimum Proposed Response Cl 185 SC 185.6.1 Brown, Matt Comment Type T The value for "Tx lase	umber of equalizer pre-cursor ue to 0 allowing the number of u/maximum columns with a valu <i>Response Status</i> <b>O</b> <i>P</i> <b>550</b> Alphawave Se <i>Comment Status</i> <b>X</b> er frequency slew rate: post acc	pre-cursor taps t ue of 3, permittir <i>L</i> <b>52</b> emi	to vary from 0 to 3 or ng only a value of 3. # <u>190</u>

C/ 186 SC 186.2.4.4	P 581	L34	# 191	CI 176C SC 176C.4.3 P703 L23 # [1	95
Brown, Matt	Alphawave Se	emi		Brown, Matt Alphawave Semi	
Comment Type T	Comment Status X			Comment Type T Comment Status X	
The value for "number of	of bit errors detected is increa	ased" is TBD.		Value for "Signal to AC common-mode noise ratio, SCMR (min)" is TBD.	
SuggestedRemedy				SuggestedRemedy	
Expect a contribution w	ith proposals.			Expect a contribution with proposals.	
Proposed Response	Response Status O			Proposed Response Response Status <b>O</b>	
C/ 186 SC 186.5	P605	L <b>40</b>	# 192	C/ 176C SC 176C.4.3 P703 L26 # [1	96
Brown, Matt	Alphawave Se	emi		Brown, Matt Alphawave Semi	
Comment Type <b>T</b> Delay constraints are T	Comment Status X BD.			Comment Type <b>T</b> Comment Status <b>X</b> Value for "Common-mode to common-mode return loss, RLcc (min)" is TBD.	
SuggestedRemedy Expect a contribution w	ith proposals.			SuggestedRemedy Expect a contribution with proposals.	
Proposed Response	Response Status <b>O</b>			Proposed Response Response Status <b>O</b>	
C/ 187 SC 187.6.1	P623	L <b>32</b>	# 193	C/ 176C SC 176C.4.3.4 P705 L24 # 1	97
Brown, Matt	Alphawave Se	emi		Brown, Matt Alphawave Semi	
Comment Type <b>T</b> ETCC limits are TBD.	Comment Status X			Comment Type <b>T</b> Comment Status <b>X</b> Exceptions for SNR_ISI method is TBD.	
SuggestedRemedy				SuggestedRemedy	
Expect a contribution w	ith proposals.			Expect a contribution with proposals.	
Proposed Response	Response Status O			Proposed Response Response Status <b>O</b>	
C/ 174A SC 174A.5	P662	L <b>22</b>	# 194	C/ 176C SC 176C.4.3.5 P705 L50 # [1	98
Brown, Matt	Alphawave Se	emi		Brown, Matt Alphawave Semi	
Comment Type T codeword error ratio an	Comment Status X d pre-correction BER values	are TBD.		Comment Type <b>T</b> Comment Status <b>X</b> Value for "Length of the reflection signal", N, is TBD.	
SuggestedRemedy Expect a contribution w	ith proposals.			SuggestedRemedy Expect a contribution with proposals.	

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: Comment ID

Comment ID 198

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C/ 176C SC 176C.4.4.3	P <b>706</b>	L 47	# 199	CI 176C SC 176C.5.1 P711 L37 # 203
Brown, Matt	Alphawave Se	mi		Brown, Matt Alphawave Semi
Comment Type <b>T</b> Comment Values/equations for RL_cd are TBE	Status X			Comment Type E Comment Status X 46.25 has orange highlight.
SuggestedRemedy Expect a contribution with proposals				SuggestedRemedy Remove highlight.
Proposed Response Response				Proposed Response Response Status O
C/ 176C SC 176C.4.4.4.2	P <b>708</b>	L <b>31</b>	# 200	C/ 176C SC 176C.5.2 P713 L36 # 204
Brown, Matt	Alphawave Se	mi		Brown, Matt Alphawave Semi
Comment Type <b>T</b> Comment Values for N_p is TBD.	Status X			Comment Type T Comment Status X Value for maximum IL_dd at Nyquist frequency is TBD.
SuggestedRemedy Expect a contribution with proposals				SuggestedRemedy Expect a contribution with proposals.
Proposed Response Response	Status O			Proposed Response Response Status O
C/ 176C SC 176C.4.4.4.3	P <b>709</b>	L <b>30</b>	# 201	C/ 176C SC 176C.5.3 P714 L 34 # 205
Brown, Matt	Alphawave Se	mi		Brown, Matt Alphawave Semi
Comment Type <b>T</b> Comment Values for IL_dd are TBD.	Status X			Comment Type T Comment Status X Value for minimum channel ERL is TBD.
SuggestedRemedy Expect a contribution with proposals	i.			SuggestedRemedy Expect a contribution with proposals.
Proposed Response Response	Status O			Proposed Response Response Status O
C/ 176C SC 176C.5	P <b>710</b>	L <b>25</b>	# 202	C/ 176D SC 176D.5.3 P724 L24 # 206
Brown, Matt	Alphawave Se	mi		Brown, Matt Alphawave Semi
Comment Type <b>T</b> Comment Value for "Maximum insertion loss a	S <i>tatus</i> <b>X</b> t 53.125 GHz (re	commended)"		Comment Type <b>T</b> Comment Status <b>X</b> Value for "Linear fit pulse peak ratio, Rpeak (min)" is TBD.
SuggestedRemedy Expect a contribution with proposals				SuggestedRemedy Expect a contribution with proposals.

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: Comment ID

C/ 176D SC 176D.5.4 P725	L <b>24</b>	# 207	C/ 179B SC 179B.3.1	P 804	L <b>44</b>	# 211
Brown, Matt Alphawave Se	emi		Brown, Matt	Alphawave Se	mi	
Comment Type T Comment Status X			Comment Type T Comme	nt Status X		
Value for "Linear fit pulse peak ratio, Rpeak (min)" is	s TBD.		Value for ILdd_catfref is TBD.			
SuggestedRemedy			SuggestedRemedy			
Expect a contribution with proposals.			Expect a contribution with propose	ıls.		
Proposed Response Response Status <b>O</b>			Proposed Response Respons	e Status O		
C/ 176D SC 176D.7.12 P735	L13	# 208	C/ 179B SC 179B.4.1	P805	L <b>48</b>	# 212
Brown, Matt Alphawave Se	emi		Brown, Matt	Alphawave Se	mi	
Comment Type <b>T</b> Comment Status <b>X</b> Values for channel ILdd are TBD.			Comment Type <b>T</b> Comme Value for maximum FOM_ILD is T	nt Status X BD.		
SuggestedRemedy Expect a contribution with proposals.			SuggestedRemedy Expect a contribution with proposa	ıls.		
Proposed Response Response Status <b>O</b>			Proposed Response Respons	e Status O		
C/ 176D SC 176D.7.12 P735	L14	# 209	C/ 179B SC 179B.4.1	P805	L <b>21</b>	# 213
Brown, Matt Alphawave Se	emi		Brown, Matt	Alphawave Se	mi	
Comment Type <b>T</b> Comment Status <b>X</b> Value for "Host channel parameters" is TBD.			Comment Type <b>T</b> Comme Values for ILdd_MTFmax and ILdo	<i>nt Status</i> <b>X</b> d_MTFmin are TBI	D.	
SuggestedRemedy			SuggestedRemedy			
Expect a contribution with proposals.			Expect a contribution with proposa	lls.		
Proposed Response Response Status <b>O</b>			Proposed Response Respons	e Status O		
2/ 179B SC 179B.2.1 P803	L 39	# 210	C/ 179B SC 179B.4.2	P <b>807</b>	L <b>4</b>	# 214
rown, Matt Alphawave Se	emi		Brown, Matt	Alphawave Se	mi	
Comment Type <b>T</b> Comment Status <b>X</b> Value for ILdd_rfref is TBD.			Comment Type <b>T</b> Comme Reference to "Table TBD".	nt Status X		
SuggestedRemedy Expect a contribution with proposals.			SuggestedRemedy Provide reference to intended table	е.		
· · ·			Proposed Response Respons	e Status <b>O</b>		

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: Comment ID

C/ 179B SC 179B.4.6	6 P811	L <b>8</b>	# 215	C/ 186	SC 186.2.3.6	6.10 P 575	L <b>34</b>	# 218
Brown, Matt	Alphawave Ser	mi		Slavick, Je	ff	Broadcom		
Comment Type T	Comment Status X			Comment	Type <b>TR</b>	Comment Status X		
Value for maximum "In	ntegrated near-end crosstalk no	oise voltage" is	TBD.			values is sent in the AML, how		
SuggestedRemedy					ssed between la improvement.	ayers, and how monitoring of	the RAML location	on in the data stream
Expect a contribution	with proposals.			Suggested				
Proposed Response	Response Status 0			00	itation will be pro	ovided.		
				Proposed I	Response	Response Status O		
C/ 179B SC 179B.4.6	6 P811	L <b>8</b>	# 216					
Brown, Matt	Alphawave Sei	mi		C/ 176D	SC 176D.5.3	P <b>724</b>	L 38	# 219
Comment Type E	Comment Status X			Rysin, Alex	ander	NVIDIA		
It is out of convention Similar issue in Table	to specify a value "Less than x	xx".		Comment	Type TR	Comment Status X		
SuggestedRemedy Change "Integrated ne noise voltage (max)" Change "Less than TE Make similar updates Proposed Response		" to "Integrated	near-end crosstalk	noise a charac are hig edges numbe equipn metho	and do not reflect teristics of pract hly dependent of does not work for rs cannot be me nent PPG. The is	rements at TP1a are highly af t actual uncorrelated jitter. Th tical channels between TP0d on the transmitted signal ampl or practical channels at 106.2 et (and sometimes cannot be ssue was demonstrated in rys petter quantify phase-only unc d.	nese effects are effects are effects are effects are bitted. Accounting 5 Gbd rate and the measured) even sin_3dj_01a_240	exacerbated by the and reflections, and g only for the faster he currently propose with commercial tes 7. A different
C/ 179B SC 179B.4.6	S P811	L43	# 217	Suggested	Remedy			
Brown, Matt	Alphawave Sei			Other	method of uncor	related jitter measurement sh	ould be consider	red.
Comment Type <b>T</b> Values for crosstalk ne	Comment Status X			Proposed	Response	Response Status 0		
SuggestedRemedy Expect a contribution	with proposals.							
Proposed Response	Response Status O							

#### \_ \_ . . . . . . . . \_. . \_ . \_ . ....

C/ 176D	SC 176D.5.4	P <b>725</b>	L 38	# 220	C/ 176	SC 17	76.8	P 299	L <b>6</b>	# 222
Rysin, Alex	ander	NVIDIA			de Koos,	Andras		Microchip Tee	chnology	
Comment	Type <b>TR</b>	Comment Status X			Commen	t Type	т	Comment Status X		
noise a charac the tra practic rysin_3	and do not reflect teristics of practions nsmitted signal a al channels at 10 3dj_01a_2407. A	ements at TP4 are highly affe actual uncorrelated jitter. Th cal test fixtures - loss and ref mplitude. Accounting only for 6.25 Gbd rate. The issue wa different methodology that w o be explored. Presentation is	lese effects are flections, and ar r the faster edge is demonstrated ill better quantif	exacerbated by the e highly dependent on es does not work for I in	400G caref (whic the ir the s	BASE-R) ul to avoid th is for the ntentional s	PMAs i double *sum* skew, (r tribution	elay of the 1:8 and 8:1 (for 20 s complicated because of the -accounting the delay due to of Rx and Tx) should thus be not 2x the intentional skew).	e 2CW skew int this skew! The e calculated as	troduced. Must be e max delay constraint the max base delay plu
Suggested	Remedy				00			use the base max delay valu	ie (same as the	800GBASE-R 4.32
	•	elated jitter measurement sh	ould be conside	ered.				sumably?) plus the intentiona		- 0000DAGE-IK 4.52
Proposed I	Response	Response Status <b>O</b>			Skew	/ = 2 FEC	CWs =	51.2ns for 200Gbps		
noise a charac highly does n numbe equipn metho	Type <b>TR</b> d JRMS measure and do not reflect teristics of practic dependent on the ot work for practi rs cannot be mel nent PPG. The is dology that will be nation is planned	P374 NVIDIA Comment Status X ements at TP2 are highly affet actual uncorrelated jitter. Th cal channels between TP0d a e transmitted signal amplitude cal channels at 106.25 Gbd t t (and sometimes cannot be sue was demonstrated in rys etter quantify phase-only unc	ese effects are and TP2 - loss a e. Accounting o rate and the cur measured) ever iin_3dj_01a_240	exacerbated by the and reflections, and are nly for the faster edges rently proposed n with commercial test 07. A different	Maxii Maxii PMA Skew 400G Maxii Maxii Maxii	mum (paus mum (ns): or 32:4 Pt v = 2 FEC BBASE-R 2 mum (bit ti mum (paus	se_quai 46.08 6:2, PM MA, pre CWs = 2:16 PV ime): 3 se_quai 46.08	6864 + 40960 = 77824 hta): 72 + 80 = 152 + 51.2 = 97.28 As use the base max delay v sumably?) plus the intentiona 25.6ns for 400Gbps IA or 16:2 PMA : 6864 + 20480 = 57334 hta): 72 + 40 = 112 + 25.6 = 71.68 Response Status <b>O</b>		the 800GBASE-R 4:32
00		elated jitter measurement sh	ould be conside	ered.	C/ 176	SC 17	76.8	P 299	L <b>6</b>	# 223
Proposed I		Response Status <b>O</b>			de Koos,	Andras		Microchip Teo	chnology	
					PMA	ild the 4-co delay con	straint?	Comment Status X deskew (compensating for s I think not. This should be in the PMA's delay constrain	seen as the del	

SuggestedRemedy

Proposed Response

Response Status **O** 

C/ 176 SC 170	6.8	P <b>299</b>	L <b>21</b>	# 224	C/ 176	SC 176.8	P 299	L <b>6</b>	# 226
de Koos, Andras		Microchip Tec	hnology		de Koos, A	Andras	Microchip Teo	chnology	
Comment Type <b>T</b>	r (	Comment Status X			Comment	Туре Т	Comment Status X		
Table 176-6, a fo may get confuse	ootnote to t ed: looking ould conclud	o specify the max delay f he table is required to ex at the delay through the F de that they should each	plain the metho Rx PMA in isola	d. Otherwise, readers tion, and the Tx PMA in	just be Is it be PMA? Assun	e a wire? ecause it could ning the 4:4 PM	e value for a 4:4 PMA so large resonably be implemented with IA value is correct, the same ru the values of the 1:8, 2:16, ar	h a 4:32 PMA in ules can be used	series with a 32:4 d for the 1:1, 2:2 and
Note that since t	the delay co for the 1:8	onstraint is respect to the and 8:1 PMAs (51.2ns) a				e '200GBASE-I	R 1:1 PMA' delay constraint va 1:8 PMA or 8:1 PMA' delay co		delay constraint values
roposed Response	e R	esponse Status O			of the For the	'400GBASE-R e '1.6TBASE-R	R 2:2 PMA' delay constraint va 2:16 PMA or 16:2 PMA' delay 8:8 PMA' delay constraint valu 8:16 PMA or 16:8 PMA' delay c	constraints. ues, double the	
C/ 176 SC 170	6.8	P <b>299</b>	L <b>6</b>	# 225	Proposed		Response Status <b>0</b>	onotrainto.	
e Koos, Andras		Microchip Tec	hnology						
Comment Type <b>T</b>	r c	Comment Status X							
		ne '1.6TBASE-R 8:16 PM			C/ 180	SC 180.3	P 412	L15	# 227
		BASE-R 4:32 PMA or 32: dd PCSLs by one symbol			Ghiasi, Ali		Ghiasi Qunat	um/Marvell	
		ligible in the context of th			Comment	Type <b>TR</b>	Comment Status X		
uggestedRemedy					on TX	and another IL	in Fig 180-2 is from the Inner s T box on the RX has Signal_O	K out. We talk	
the '800GBASE-		PMA or 16:8 PMA' delay A or 32:4 PMA'	constraints, use	e the same values as			ver variables before intorudcing	JILT.	
Proposed Response	-	esponse Status <b>O</b>			Suggested				
							2 would be helfull here. After t upport Inter-sublayer Layer Tra		

Proposed Response

Comment ID 227

Response Status 0

C/ 181 SC 181.3	P 440	L <b>2</b>	# 228	C/ 180	SC 18	80.7.3	P <b>420</b>	L <b>46</b>	# 231
Ghiasi, Ali	Ghiasi Qunati	um/Marvell		Ghiasi, Ali			Ghiasi Qunatu	m/Marvell	
Comment Type TR	Comment Status X			Comment	Туре	TR	Comment Status X		
	in Fig 180-2 is from the Inner			MPI/D	GP pena	Ity of 0.1	dB is too small for this PMD	type	
	_T box on the RX has Signal_O yer variables before intorudcing		about Signal_OK then	Suggested	Remedy				
SuggestedRemedy		, <u> </u>				MPI pe	nalty is 0.4 dB with 0.18 dB D	GD the total	penalty for this PMD is
Referencing Fig 180	-2 would be helfull here. After t upport Inter-sublayer Layer Tra			DGD t	BASE-DR he total p	enalty fo	BASE-DR4/800GBASE-DR8 I or this PMD is 0.3 dB. Make t e plant loss from 3 dB to 2.6 d	he MPI/DGD	penalty 0.5 dB for all
roposed Response	Response Status <b>O</b>			Proposed I			Response Status <b>O</b>		·
	P <b>465</b>	L <b>6</b>	# 229						
Ghiasi, Ali	Ghiasi Qunati	um/Marvell		C/ 181	SC 18	81.7.3	P448	L <b>48</b>	# 232
Comment Type TR	Comment Status X			Ghiasi, Ali			Ghiasi Qunatu	m/Marvell	
on TX and another IL	n in Fig 180-2 is from the Inner _T box on the RX has Signal_O yer variables before intorudcing	K out. We talk		Comment MPI/D		TR Ity of 0.5	Comment Status X 5 dB maybe to small for this P	MD type	
, , , , ,		J I⊑ I .		Suggested	lRemedy				
	-2 would be helfull here. After t						dB and DGD penalty is 0.18 current 0.5 dB mabe be acce		
	upport Inter-sublayer Layer Tra	aining (ILT) type (	O1, see Annex 178B.	Proposed I	Respons	е	Response Status <b>O</b>		
Proposed Response	Response Status O								
C/ 183 SC 183.3	P 494	L6	# 230	C/ 180	SC 18	80.7.3	P <b>473</b>	L <b>46</b>	# 233
Ghiasi. Ali	Ghiasi Qunati	•	<i>"</i> 230	Ghiasi, Ali			Ghiasi Qunatu	n/Marvell	
Comment Type TR	Comment Status X			Comment		TR	Comment Status X		
Signal_OK as shown	n in Fig 180-2 is from the Inner T box on the RX has Signal_O			400G/8	800Ġ/1.6	τ	l dB is too small for 200GBAS	E-DR and too	generaous for
	yer variables before intorudcing		0 =	Suggested	,				
SuggestedRemedy				200GE is 0.63		-2 MPI p	penalty is 0.45 dB with 0.18 dl	B DGD the to	tal penalty for this PMD
	-2 would be helfull here. After t upport Inter-sublayer Layer Tra			400GE DGD ti	BASE-DR	enalty fo	BASE-DR4/800GBASE-DR8 I or this PMD is 0.28 dB. We d	an either defin	ne different link budget,
Proposed Response	Response Status <b>O</b>						ve is to limit the numbner of co budget. See Ghiasi_3dj_02		for 200GBASE-DR and
				Proposed I	Respons	е	Response Status 0		

C/ 183 SC 183.7.3	P 502	L46	# 234	C/ 181 SC 181.	P 451	L51	# 237
Ghiasi, Ali	Ghiasi Qunatu		<i>"</i> 204	Ghiasi, Ali		atum/Marvell	
Comment Type TR	Comment Status X			Comment Type TR			
51	0.5 dB is larger than needed for	800GBASE-FR4	4	51	ng traffic must be active for thes	se tests	
SuggestedRemedy				SuggestedRemedy	<b>3</b>		
	uced to 0.4 dB then link budget	increased by 0.1	1 dB. See	00 y	paragrpah, Counter-propagating	asynchronous o	otical signal (crosstalk)
Ghiasi_3dj_02_2501				at maximum OMA	applied to the module under tes	st TP3. The cros	stalk pattern can be
Proposed Response	Response Status 0				lid 100GBASE-R, 200GBASE-F Il. See Ghiasi_3dj_01_2501	R, or 400GBASE-	R, or 800GBASE-R, or
				Proposed Response	Response Status O		
7 183 SC 183.7.3	P 502	L <b>46</b>	# 235				
shiasi, Ali	Ghiasi Qunatu	m/Marvell		C/ 182 SC 182.	P 480	L <b>45</b>	# 238
comment Type TR	Comment Status X			Ghiasi, Ali	Ghiasi Quna	atum/Marvell	
MPI/DGP penalty of 0	0.5 dB is larger than needed for	800GBASE-LR4	1	Comment Type TR	Comment Status X		
uggestedRemedy				Counter propagati	ng traffic must be active for thes	e tests	
					ig dame made be deave let mee		
	uced to 0.3 dB then link budget	increased by 0.7	1 dB or allocated to	SuggestedRemedy			
MPI/DGD can be redu DGD. See Ghiasi_3 Proposed Response		increased by 0.2	1 dB or allocated to	SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va	paragrpah, Counter-propagating applied to the module under test lid 100GBASE-R, 200GBASE-F I. See Ghiasi_3dj_01_2501	asynchronous o st TP3. The cros	stalk pattern can be
DGD. See Ghiasi_3 Proposed Response	dj_02_2501	increased by 0.4	1 dB or allocated to # 236	SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va	baragrpah, Counter-propagating applied to the module under test lid 100GBASE-R, 200GBASE-F	asynchronous o st TP3. The cros	stalk pattern can be
DGD. See Ghiasi_3 Proposed Response	dj_02_2501 Response Status <b>O</b>	L <b>45</b>		SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va 1.6TBASE-R signa	paragrpah, Counter-propagating applied to the module under tes lid 100GBASE-R, 200GBASE-F II. See Ghiasi_3dj_01_2501	asynchronous o st TP3. The cros	stalk pattern can be
DGD. See Ghiasi_3 roposed Response / 180 SC 180.9 hiasi, Ali	dj_02_2501 Response Status <b>O</b> P <b>427</b>	L <b>45</b>		SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va 1.6TBASE-R signa Proposed Response	paragrpah, Counter-propagating applied to the module under ter lid 100GBASE-R, 200GBASE-F I. See Ghiasi_3dj_01_2501 <i>Response Status</i> <b>O</b>	asynchronous o st TP3. The cros R, or 400GBASE-	stalk pattern can be R, or 800GBASE-R, or
DGD. See Ghiasi_3 Troposed Response	dj_02_2501 Response Status <b>0</b> P <b>427</b> Ghiasi Qunatu	L <b>45</b> m/Marvell		SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va 1.6TBASE-R signa	paragrpah, Counter-propagating applied to the module under ter lid 100GBASE-R, 200GBASE-F I. See Ghiasi_3dj_01_2501 <i>Response Status</i> <b>O</b>	asynchronous o st TP3. The cros	stalk pattern can be
DGD. See Ghiasi_3 Proposed Response Cl 180 SC 180.9 Shiasi, Ali Comment Type TR Counter propagating t	dj_02_2501 Response Status <b>O</b> P <b>427</b> Ghiasi Qunatu Comment Status <b>X</b>	L <b>45</b> m/Marvell		SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va 1.6TBASE-R signa Proposed Response	paragrpah, Counter-propagating applied to the module under tes lid 100GBASE-R, 200GBASE-F al. See Ghiasi_3dj_01_2501 <i>Response Status</i> <b>O</b>	asynchronous o st TP3. The cros R, or 400GBASE-	stalk pattern can be R, or 800GBASE-R, or
DGD. See Ghiasi_3 Proposed Response 2/ 180 SC 180.9 Chiasi, Ali Comment Type TR Counter propagating t SuggestedRemedy Add the following para	dj_02_2501 <i>Response Status</i> <b>O</b> <i>P</i> <b>427</b> Ghiasi Qunatu <i>Comment Status</i> <b>X</b> traffic must be active for these to agrpah, Counter-propagating as	L 45 m/Marvell tests synchronous opti	# 2 <u>36</u> ical signal (crosstalk)	SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va 1.6TBASE-R signa Proposed Response CI 183 SC 183.9 Ghiasi, Ali Comment Type TR	paragrpah, Counter-propagating applied to the module under tes lid 100GBASE-R, 200GBASE-F al. See Ghiasi_3dj_01_2501 <i>Response Status</i> <b>0</b> <i>P</i> <b>506</b> Ghiasi Quna <i>Comment Status</i> <b>X</b>	asynchronous op st TP3. The cros R, or 400GBASE- <i>L</i> <b>38</b> atum/Marvell	stalk pattern can be R, or 800GBASE-R, or
DGD. See Ghiasi_3 roposed Response 7 180 SC 180.9 hiasi, Ali comment Type TR Counter propagating t uggestedRemedy Add the following para at maximum OMA app	Adj_02_2501 Response Status <b>O</b> P427 Ghiasi Qunatu Comment Status <b>X</b> traffic must be active for these to agrpah, Counter-propagating as plied to the module under test T	<i>L</i> <b>45</b> m/Marvell tests synchronous opti TP3. The crosst	# 236 ical signal (crosstalk) alk pattern can be	SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va 1.6TBASE-R signa Proposed Response CI 183 SC 183.9 Ghiasi, Ali Comment Type TR	paragrpah, Counter-propagating applied to the module under tes lid 100GBASE-R, 200GBASE-F al. See Ghiasi_3dj_01_2501 <i>Response Status</i> <b>O</b> <i>P</i> <b>506</b> Ghiasi Quna	asynchronous op st TP3. The cros R, or 400GBASE- <i>L</i> <b>38</b> atum/Marvell	stalk pattern can be R, or 800GBASE-R, or
DGD. See Ghiasi_3 Proposed Response Cl 180 SC 180.9 Ghiasi, Ali Comment Type TR Counter propagating t SuggestedRemedy Add the following para at maximum OMA app PRBS31Q, or a valid	dj_02_2501 <i>Response Status</i> <b>O</b> <i>P</i> <b>427</b> Ghiasi Qunatu <i>Comment Status</i> <b>X</b> traffic must be active for these to agrpah, Counter-propagating as	<i>L</i> <b>45</b> m/Marvell tests synchronous opti TP3. The crosst	# 236 ical signal (crosstalk) alk pattern can be	SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va 1.6TBASE-R signa Proposed Response CI 183 SC 183.9 Ghiasi, Ali Comment Type TR	paragrpah, Counter-propagating applied to the module under tes lid 100GBASE-R, 200GBASE-F al. See Ghiasi_3dj_01_2501 <i>Response Status</i> <b>0</b> <i>P</i> <b>506</b> Ghiasi Quna <i>Comment Status</i> <b>X</b>	asynchronous op st TP3. The cros R, or 400GBASE- <i>L</i> <b>38</b> atum/Marvell	stalk pattern can be R, or 800GBASE-R, or
DGD. See Ghiasi_3 Proposed Response 2/ 180 SC 180.9 Shiasi, Ali Comment Type TR Counter propagating t SuggestedRemedy Add the following para at maximum OMA app PRBS31Q, or a valid	Adj_02_2501 Response Status <b>O</b> P427 Ghiasi Qunatu Comment Status <b>X</b> traffic must be active for these to agrpah, Counter-propagating as plied to the module under test T 100GBASE-R, 200GBASE-R, d	<i>L</i> <b>45</b> m/Marvell tests synchronous opti TP3. The crosst	# 236 ical signal (crosstalk) alk pattern can be	SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va 1.6TBASE-R signa Proposed Response Cl 183 SC 183.9 Ghiasi, Ali Comment Type TR Counter propagatii SuggestedRemedy Add the following p at maximum OMA PRBS31Q, or a va	paragrpah, Counter-propagating applied to the module under tes lid 100GBASE-R, 200GBASE-F al. See Ghiasi_3dj_01_2501 <i>Response Status</i> <b>0</b> <i>P</i> <b>506</b> Ghiasi Quna <i>Comment Status</i> <b>X</b>	L 38 atum/Marvell se tests asynchronous of asynchronous of st TP3. The cros	stalk pattern can be R, or 800GBASE-R, o # 239 ptical signal (crosstalk) stalk pattern can be

C/ 180 SC 180.	9.5 P 430	L <b>22</b>	# 240	C/ 183	SC 183.9.5	5	P509	L <b>4</b>	# 243
Ghiasi, Ali	Ghiasi Qunat	um/Marvell		Ghiasi, Ali		Gh	iasi Qunat	tum/Marvell	
Comment Type TR	Comment Status X			Comment 7	Type TR	Comment Stat	us X		
TDECQ masurem	nt needs to define test condition v	when there is an	optional AUI	TDECO	a masuremnt	needs to define test	condition	when there is an	optional AUI
SuggestedRemedy				Suggested	Remedy				
conforming impler applicable module Module stressed i	ition to the list of requiremetns in mentation must meet TDECQ with e stress input test as in 176C.4.4.5 nput tolerance, or 120E.3.4.1 Mod ck driving the TDECQ pattern.	the exposed AU Receiver jitter to dule stressed inp	II configured for olerance, 120G.3.4.3 ut test and the	conforr applica Module	ning impleme ble module st stressed inpu	n to the list of requir ntation must meet T ress input test as in ut tolerance, or 120E driving the TDECQ	DECQ with 176C.4.4. 	n the exposed AU 5 Receiver jitter to dule stressed inp	I configured for blerance, 120G.3.4.3 ut test and the
Proposed Response	Response Status O			Proposed F	Response	Response State	us <b>O</b>		
C/ 181 SC 181.	9.5 P454	L <b>22</b>	# 241	C/ 180	SC 180.9.5	5	P430	L <b>22</b>	# 244
Shiasi, Ali	Ghiasi Qunat	um/Marvell		Ghiasi, Ali		Gh	iasi Qunat	tum/Marvell	
Comment Type TR	Comment Status X			Comment 7	Type <b>TR</b>	Comment Stat	us X		
TDECQ masurem	nt needs to define test condition v	when there is an	optional AUI						e penalty measurmen
SuggestedRemedy						velop a Golden hard to capture block erro			e have to improve
Add following cod	ition to the list of requiremetns in	180.9.5: Where A	AUI is exposed, a			to capture block end	JS/penalty.	•	
	mentation must meet TDECQ with			Suggested	-				
Module stressed i	e stress input test as in 176C.4.4.5 nput tolerance, or 120E.3.4.1 Moo ck driving the TDECQ pattern.	dule stressed inp	ut test and the	capturii	ng 10 SSPRO	endation is to measu Q waveforms which f 4 FEC blocks when	orms 6553	35 FEC symbols,	~120 KP4 FEC block
Proposed Response	Response Status O			https:// 3 block	www.ieee802. s from each g	roup of 30 blocks th	en combin	e 3 worst blocks	proposal. Use worst from the 4 group to 180-7 with limit of 3.
C/ 182 SC 182.	9.5 P 483	L17	# 242		ee Ghiasi_3dj	_03_2501			
Shiasi, Ali	Ghiasi Qunat	um/Marvell		Proposed F	Response	Response State	us <b>O</b>		
Comment Type TR	Comment Status X								
TDECQ masurem	nt needs to define test condition v	when there is an	optional AUI						
SuggestedRemedy									
conforming impler applicable module Module stressed i	ition to the list of requiremetns in mentation must meet TDECQ with stress input test as in 176C.4.4.5 nput tolerance, or 120E.3.4.1 Moo ck driving the TDECQ pattern.	the exposed AL Receiver jitter to dule stressed inp	II configured for olerance, 120G.3.4.3 ut test and the						
Proposed Response	Response Status 0								

C/ 181	SC 181.9.5	P <b>454</b>	L <b>22</b>	# 245	Cl 183	SC 1	83.9.5	P 509	L <b>4</b>	# 247
Ghiasi, Ali		Ghiasi Qunatu	m/Marvell		Ghiasi, Ali			Ghiasi Q	unatum/Marvell	
Comment Ty	/pe TR	Comment Status X			Comment	Туре	TR	Comment Status X		
either we	e need to devel	or measurement but the TDEC op a Golden hardwre referend capture block erros/penalty.	CQ is an average ce receiver or we	<ul> <li>penalty measurment,</li> <li>have to improve</li> </ul>	either v	we need	d to devel	or measurement but the op a Golden hardwre re capture block erros/per	eference receiver of	erage penalty measurmen or we have to improve
SuggestedRe	emedy				Suggested	Remed	V			
capturing or 30 inte blocks au https://w 3 blocks create th	g 10 SSPRQ w erleaved KP4 F re processed a www.ieee802.org from each grou	dation is to measure block TD vaveforms which forms 65535 EC blocks when 4-with way is s in definition in g/3/dj/public/24_09/healey_3c up of 30 blocks then combine calculate block TDECQ, add I 3_2501	5 FEC symbols, - interleaving. Ea dj_02a_2409.pdf 3 worst blocks f	~120 KP4 FEC blocks, ich of the 30 KP4 proposal. Use worst from the 4 group to	capturi or 30 ir blocks https:// 3 block create	ng 10 s nterleav are pro www.ie s from the PD	SSPRQ w ed KP4 F cessed a ee802.org each grou F. Then o	EC blocks when 4-with s in definition in g/3/dj/public/24_09/heal up of 30 blocks then con	65535 FEC symb way interleaving. ley_3dj_02a_2409 mbine 3 worst blo , add line item to t	ols, ~120 KP4 FEC blocks Each of the 30 KP4 9.pdf proposal. Use worst cks from the 4 group to table 183-7 with limit of 3.0
Proposed Re	esponse	Response Status O			Proposed I	Respon	se	Response Status O		
/ 182	SC 182.9.5	P 483	L17	# 246	C/ 183	SC 1	83.9.5	P 509	L14	# 248
hiasi, Ali		Ghiasi Qunatu	m/Marvell		Ghiasi, Ali			Ghiasi Q	unatum/Marvell	
omment Ty	/pe TR	Comment Status X			Comment	Туре	TR	Comment Status X		
		or measurement but the TDEC			Numbe	er of pre	-cursor is	maximum with min TB	D	
		op a Golden hardwre referend capture block erros/penalty.	ce receiver or we	have to improve	Suggested	Remed	V			
uggestedRe	emedy	lation is to measure block TD	ECQ where bloc	k TDECQ is by	floating	at leas		g Sept 2024 meeting to , given than agreement of 15.		e-cursors and not a nd max line and just ente
or 30 inte blocks a	erleaved KP4 F re processed a	vaveforms which forms 65535 EC blocks when 4-with way is s in definition in	interleaving. Ea	ch of the 30 KP4	Proposed I		-	Response Status <b>O</b>		
https://w	ww.ieee802.org	g/3/dj/public/24_09/healey_3c up of 30 blocks then combine	J_02a_2409.pdf	froposal. Use worst from the 4 group to	C/ 182	SC 1	82.9.5	P <b>483</b>	L 25	# 249
3 blocks		calculate block TDECQ, add I			Ghiasi, Ali	50			unatum/Marvell	
3 blocks create th		2 0504			,	Turna	TR	Comment Status X		
3 blocks create th dB. See	e Ghiasi_3dj_0				Comment	ivbe				
3 blocks create th dB. See	e Ghiasi_3dj_0	3_2501 Response Status <b>O</b>			Comment Numbe			not maximum but rath	er just 3	
3 blocks create th dB. See	e Ghiasi_3dj_0					er of pre	-cursor is	not maximum but rath	er just 3	
3 blocks create th	e Ghiasi_3dj_0				Numbe Suggested What v floating	er of pre Remed vas agr g at leas	-cursor is / eed durin	g Sept 2024 meeting to , given than agreement	go with fixed 3 pr	e-cursors and not a th max cell and just enter

C/ 181 SC 181.9.	5 P 454	L <b>30</b>	# 250	C/ 176C	SC 176C.4.4.	5 /	<sup>⊃</sup> 710	L <b>4</b>	# 253
Ghiasi, Ali	Ghiasi Qun	atum/Marvell		Ghiasi, Ali		Gh	iasi Qunatu	ım/Marvell	
Comment Type TR	Comment Status X			Comment Ty	rpe TR	Comment Stat	us X		
Number of pre-curso	or is maximum with min TBD								jitter tolerance test
SuggestedRemedy									has always included est and given the
	uring Sept 2024 meeting to grow, given than agreement migth of 15. Response Status <b>O</b>			concern leagcy g	about block err oes back to 250 unstress will do	or the JTOL test s G-KR which only t	should be constant of the rested	omprehensive. eceiver with SJ,	The KR/C2C JTOL
-Toposed Response	Response Status U			SuggestedR	emedv				
C/ 180 SC 180.9.5	5 P430	L <b>30</b>	# 251			OL test is used fo and noise added t			d comprehensive JTOI ued by 0.05 UI.
Ghiasi, Ali	Ghiasi Qun	atum/Marvell		Proposed Re	esponse	Response Stati	ıs <b>O</b>		
Comment Type TR	Comment Status X								
Number of pre-curse	or is maximum with min TBD			01 1700	00 4700 5 0			1.00	# 054
				() <b>176</b> C					
•				Cl 176C Chiasi Ali	SC 176C.5.2		P <b>713</b> iasi Qupatu	L <b>36</b> Im/Marvell	# 254
SuggestedRemedy What was agreed du	uring Sept 2024 meeting to go now, given than agreement m			Ghiasi, Ali Comment Ty			iasi Qunatu		# 254
SuggestedRemedy What was agreed du floating at least for n	uring Sept 2024 meeting to go now, given than agreement m			Ghiasi, Ali Comment Ty	rpe <b>TR</b> ILD is TBD	Gh	iasi Qunatu		# [254
SuggestedRemedy What was agreed du floating at least for n 3 similar to FFE leng	uring Sept 2024 meeting to go now, given than agreement m gth of 15.			Ghiasi, Ali Comment Ty Channel SuggestedR Per https	rpe <b>TR</b> ILD is TBD emedy	Gh	iasi Qunatu <i>u</i> s <b>X</b>	ım/Marvell	-
SuggestedRemedy What was agreed du floating at least for n 3 similar to FFE leng Proposed Response	uring Sept 2024 meeting to go now, given than agreement m gth of 15. <i>Response Status</i> <b>O</b>			Ghiasi, Ali Comment Ty Channel SuggestedR Per https	pe <b>TR</b> ILD is TBD emedy s://www.ieee802 ILD of 32 dB	Gh Comment Stat	iasi Qunatu us X 4_07/heck_	ım/Marvell	-
SuggestedRemedy What was agreed du floating at least for n 3 similar to FFE leng Proposed Response	uring Sept 2024 meeting to go now, given than agreement m gth of 15. <i>Response Status</i> <b>O</b> 4.4.4.3 <i>P</i> 709 Ghiasi Qun	erge the TBD and r	max line and just enter	Ghiasi, Ali Comment Ty Channel SuggestedR Per https channel	pe <b>TR</b> ILD is TBD emedy s://www.ieee802 ILD of 32 dB	Gh <i>Comment Stat</i> 2.org/3/dj/public/2	iasi Qunatu us X 4_07/heck_	ım/Marvell	-
SuggestedRemedy What was agreed du floating at least for n 3 similar to FFE leng Proposed Response CI 176C SC 176C.4 Ghiasi, Ali Comment Type TR	uring Sept 2024 meeting to go now, given than agreement m gth of 15. <i>Response Status</i> <b>O</b> <b>4.4.4.3</b> <i>P</i> <b>709</b> Ghiasi Qun <i>Comment Status</i> <b>X</b>	erge the TBD and r <i>L</i> <b>30</b> natum/Marvell	max line and just enter	Ghiasi, Ali Comment Ty Channel SuggestedR Per https channel Proposed Re	rpe <b>TR</b> ILD is TBD emedy s://www.ieee802 ILD of 32 dB esponse	Gh <i>Comment Stat</i> 2.org/3/dj/public/2 <i>Response Statu</i>	iasi Qunatu us X 4_07/heck_ ıs <b>O</b>	um/Marvell _3dj_01a_2407. <sub>1</sub>	pdf recommend
SuggestedRemedy What was agreed du floating at least for n 3 similar to FFE leng Proposed Response Cl 176C SC 176C.4 Ghiasi, Ali Comment Type TR Receiver interferenc	uring Sept 2024 meeting to go now, given than agreement m gth of 15. <i>Response Status</i> <b>O</b> 4.4.4.3 <i>P</i> 709 Ghiasi Qun	erge the TBD and r <i>L</i> <b>30</b> natum/Marvell	max line and just enter	Ghiasi, Ali Comment Ty Channel SuggestedR Per https channel Proposed Re	pe <b>TR</b> ILD is TBD emedy s://www.ieee802 ILD of 32 dB	Gh Comment Stat 2.org/3/dj/public/2 Response Statu	iasi Qunatu us X 4_07/heck_ us <b>O</b>	um/Marvell _3dj_01a_2407.j	
SuggestedRemedy What was agreed du floating at least for n 3 similar to FFE leng Proposed Response Cl 176C SC 176C.4 Ghiasi, Ali Comment Type TR Receiver interferenc SuggestedRemedy	uring Sept 2024 meeting to go now, given than agreement m gth of 15. <i>Response Status</i> <b>O</b> <b>4.4.4.3</b> <i>P</i> <b>709</b> Ghiasi Qun <i>Comment Status</i> <b>X</b> re tolerance parameters are T	L <b>30</b> L <b>30</b> Matum/Marvell	max line and just enter # 252	Ghiasi, Ali Comment Ty Channel SuggestedRe Per https channel Proposed Re C/ <b>178</b> Ghiasi, Ali	ype TR ILD is TBD emedy s://www.ieee802 ILD of 32 dB esponse SC 178.10.6	Gh Comment Stat 2.org/3/dj/public/2 Response State	iasi Qunatu us X 4_07/heck_ us 0 P <b>354</b> iasi Qunatu	um/Marvell _3dj_01a_2407.j	pdf recommend
SuggestedRemedy What was agreed du floating at least for n 3 similar to FFE leng Proposed Response Cl 176C SC 176C.4 Ghiasi, Ali Comment Type TR Receiver interferenc SuggestedRemedy Per https://www.ieee folowing parameters	uring Sept 2024 meeting to grow, given than agreement m gth of 15. <i>Response Status</i> <b>O</b> <b>4.4.4.3</b> <i>P</i> <b>709</b> Ghiasi Qun <i>Comment Status</i> <b>X</b> te tolerance parameters are T e802.org/3/dj/public/24_07/he	L <b>30</b> L <b>30</b> Matum/Marvell	max line and just enter # 252	Ghiasi, Ali Comment Ty Channel SuggestedRe Per https channel Proposed Re Cl <b>178</b> Ghiasi, Ali Comment Ty	pe TR ILD is TBD emedy s://www.ieee802 ILD of 32 dB esponse SC 178.10.6 pe TR	Gh Comment Stat 2.org/3/dj/public/2 Response Statu Gh Comment Stat	iasi Qunatu us X 4_07/heck_ us O P354 iasi Qunatu us X	um/Marvell _3dj_01a_2407.j <i>L</i> <b>52</b> um/Marvell	pdf recommend
SuggestedRemedy What was agreed du floating at least for n 3 similar to FFE leng Proposed Response Cl 176C SC 176C.4 Ghiasi, Ali Comment Type TR Receiver interferenc SuggestedRemedy Per https://www.ieee	uring Sept 2024 meeting to go now, given than agreement m gth of 15. <i>Response Status</i> <b>O</b> <b>4.4.4.3</b> <i>P</i> <b>709</b> Ghiasi Qun <i>Comment Status</i> <b>X</b> re tolerance parameters are T e802.org/3/dj/public/24_07/he si lass A or B dB	L <b>30</b> L <b>30</b> Matum/Marvell	max line and just enter # 252	Ghiasi, Ali Comment Ty Channel SuggestedR Per https channel Proposed Re Cl <b>178</b> Ghiasi, Ali Comment Ty Location SuggestedR	ype TR ILD is TBD emedy s://www.ieee802 ILD of 32 dB esponse SC 178.10.6 ype TR of AC coupling	Gh Comment Stat 2.org/3/dj/public/2 Response Statu Gh Comment Stat may also be on o	iasi Qunatu us X 4_07/heck_ us O P354 iasi Qunatu us X	um/Marvell _3dj_01a_2407.j <i>L</i> <b>52</b> um/Marvell	pdf recommend # 255

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: Comment ID

C/ 178 SC 178.8.1	P 339	L <b>39</b>	# 256	C/ 176D	SC 176D.7.1	2	P <b>735</b>	L13	# 259
Ghiasi, Ali	Ghiasi Qunatu	um/Marvell		Ghiasi, Ali		G	hiasi Qunat	um/Marvell	
Comment Type TR	Comment Status X			Comment T	vpe TR	Comment Sta	tus X		
Location of AC couplir	ng may also be on chip and st	ating TP0 to TP5	5 would not allow that	Receive	r interference t	tolerance paramet	ers are TBI	D	
SuggestedRemedy				SuggestedR	Remedy				
Add note to the figure implementation may b	that AC coupling shown betwee on chip.	een TP3 and TP	5 but actual	the folow	wing parameter	rs:	24_05/kare	ti_3dj_01_2405.p	df, and recommend
Proposed Response	Response Status 0			Test1: 1	r package clas 2.5 to 13.5 dB 1.5 to 32.5 dB				
C/ 178 SC 178.14.4	.5 <i>P</i> 361	L <b>29</b>	# 257	Proposed R	esponse	Response Sta	tus <b>O</b>		
Ghiasi, Ali	Ghiasi Qunatu	um/Marvell							
Comment Type TR	Comment Status X			C/ 176D	SC 176D.7.1	3.2	P <b>739</b>	L <b>9</b>	# 260
Location of AC couplin	ng may also be on chip and st	ating TP0 to TP5	5 would not allow that	Ghiasi, Ali		G	hiasi Qunat	um/Marvell	
SuggestedRemedy				Comment T	vpe TR	Comment Sta	tus X		
change TP0 to TP5 to	TP0d to TP5d			Real lin	ks must operat	e with noise, ISI,	and SJ. Re	comending that j	itter tolerance test
Proposed Response	Response Status <b>O</b>			broadba concern	nd noise with s about block er	SJ, the test metho	od exist to p should be	erform such as te comprehensive.	The KR/C2C JTOL
C/ 179 SC 179.11	P 390	L 48	# 258						b good job with ISI in
Ghiasi, Ali	Ghiasi Qunatu	um/Marvell		absent o	of SJ!				
Comment Type TR	Comment Status X			SuggestedR	,				
We have increased the	e low frequency cust off but ke	ept the capacitor	value the same, 100			JTOL test by not i and noise is redc			hange No broadband
SuggestedRemedy				Proposed R	esponse	Response Sta	tus <b>O</b>		
	e cutoff is 96 kHz for 50 Ohms F otherwise the next value is								
Proposed Response	Response Status 0								

C/ 176D SC ·	176D.5.3	P <b>724</b>	L 39	# 261	C/ 181	SC ·	181.9.13	P <b>457</b>	L <b>7</b>	# 263
Shiasi, Ali		Ghiasi Qunatu	um/Marvell		Ghiasi, Ali			Ghiasi Qunatu	m/Marvell	
Comment Type	TR Co	omment Status X			Comment 7	Туре	TR	Comment Status X		
		ve output compliance te			Refere	nce 12	1.8.10 doe	esn't exist		
		C with with JRMS, EO.		t any demonstration	Suggested	Remed	'y			
SuggestedRemed	,		Sharloo.		The co	rrect re	ference is	121.8.9		
••	•	all the data presentate	d and with the w	ork of OIF LPO and	Proposed F	Respon	se	Response Status 0		
RTLR develop	ping. TDECQ/I	EECQ already captrues	the jitter as show	vn in						
		o captures amplitude p as receiver will observe			C/ 183	50	183.9.13	P512	L12	# 264
measurement	t and caliburation	on we need to do the fol	llwing:			30	103.9.13	F 512 Ghiasi Qunatu		# 204
		data if current jitter test data on EECQ for receiv		used for receive	Ghiasi, Ali Comment 7	Tuno	TR	Comment Status X		
Proposed Respon	•	sponse Status <b>O</b>	to compliance.				1.8.10 doe			
					Suggested					
					00		<i>y</i> ference is	121 8 9		
2/ <b>176D</b> SC	176D.5.4	P <b>725</b>	L 38	# 262	Proposed F			Response Status <b>O</b>		
shiasi, Ali		Ghiasi Qunatu	um/Marvell		TTOposeuT	(espon	30			
Comment Type		omment Status X								
		ve output compliance te C with with JRMS, EO.			C/ 176D	SC ·	176D.6.2	P <b>730</b>	L <b>26</b>	# 265
		ifficent for receive comp			Ghiasi, Ali			Ghiasi Qunatu	m/Marvell	
uggestedRemed	ly .				Comment 7	Туре	TR	Comment Status X		
TDECQ meth	od works given	all the data presentate EECQ already captrues			Typical as KR/		gain for C	2M is just few dB's, and ther	e is no reason t	to have the same gDC1
		o captures amplitude p			Suggestedl	Remed	'y			
		as receiver will observe on we need to do the fol		CQ for receive stress	Reduce	e gDC1	to -12 dB			
Add editor not	te encouraging	data if current jitter test data on EECQ for receiv	t method can be	used for receive	Proposed F	Respon	se	Response Status O		
Proposed Respon	nse Re	sponse Status <b>O</b>								

L 10 # 269
chip-to-chip or chip-to-module electrical
chip-to-chip or chip-to-module electrical
terfaces and for chip-to-chip interfaces". The
he new AUI annexes, the clarity of this
GAUI-n, 400GAUI-n, and 800GAUI-n.
a 1.6 Tb/s Physical Layer implementation for chip-to-chip and chip-to-module electric
TAUI-16 C2C and 1.6TAUI-16 C2M), and
s of 200GAUI-n, 400GAUI-n, and 800GAU
D
L <b>28</b> # <u>2</u> 70
K
nd should be defined.
0

C/ 45 SC 45.2	P.1 P70	L <b>7</b>	# 271	C/ 177 SC 177.1	4 P 307	L <b>26</b>	# 274
Ran, Adee	Cisco			Ran, Adee	Cisco		
Comment Type El	Comment Status X			Comment Type TR	Comment Status X		
addresses are alle This text points to	45.2.1 includes references to mult ocated. • 83.1.4, 109.1.4, and 120.1.4, but new PMAs: 173.1.4 (apparently m	does not inclu	de the corresponding	the rest of the data	receive direction is shown as in path is defined as bits. tches a hard-decoding operation tated in 177.5.4.		Ũ
SuggestedRemedy Bring in the first p	aragraph of 45.1.2 and add refere	nces to 173.1.	4 and 176.11.	In a soft-decoding r FEC decode" block	eceiver, the "PAM4 decoding" o	operation is actual	ly part of the "Inner
Proposed Response	Response Status <b>O</b>			The PAM4 (hard) determined the decoder output	ecoding is required for the inner - but the rest of the data path (o t symbols directly. The suggest	deinterleaving and	decoding) should
C/ 45 SC 45.2	2.1 P <b>70</b>	L <b>7</b>	# 272		,	,	
Ran, Adee	Cisco			SuggestedRemedy			
	Comment Status X ars are contained in the PMA/PMD ning in the stack, nor to the clause			the output of the "In	ecoding" and "inner FEC sync" o ner FEC sync" a dashed-line in erleaver (renamed from "1:8 bit	put into the "pad r	emoval" (a separate
SuggestedRemedy Add test describir	ng the inner FEC MDIO positioning	g (in the same	MMD as the PMD).	,	ne deinterleaver block is the sig	nal from the subla	yer below.
Proposed Response	Response Status <b>O</b>			hard decision and is	ling" subclause 177.5.1, add a s s used only for initial synchroniz ler of the data path, since the "I	zation. The output	of this function is not
C/ 00 SC 0	P 261	L <b>47</b>	# 273	performs the require			
Ran, Adee	Cisco			In the "PAM4 deinte	erleaving" subclause 177.5.3 ch	nange the title to "1	I:8 symbol
Comment Type TF	Comment Status X			deinterleaving" and	in its text change "bit pairs" to '	"input symbols".	
the variables is re	face is not implemented, provision commended." repeated in multiple clauses and a	·		Proposed Response	Response Status O		
	nagement variables is required ("s y recommended to have them acc		is implemented, but				
MDIO is optional it is not implemen	but access to the management va ted.	riables should	be a requirement even if				
SuggestedRemedy							
Change "provision instances	n of is recommended" to "shall I	be provided", w	ith editorial license, in all				
Proposed Response	Response Status O						
	equired ER/editorial required GR	/general require				nent ID <b>274</b>	Page 51 of 109

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

/ 177	SC 177.3.	P 308	L <b>44</b>	# 275	C/ 177	SC 177.4.1	P 309	L 32	# 276
an, Adee		Cisco			Ran, Adee		Cisco		
omment T	Type TR	Comment Status X			Comment 7	Type ER	Comment Status X		
	• •	MD service interface is in i	instance of the int	er-sublayer service		•••	nly here, elsewhere the term	n "symbol quartet" i	s used instead.
interfac	e is misleading.			-	Suggested	Remedv			
The ser	rvice interface ser	mantics in 116.3.3.1.1 state	e that tx_svmbol a	ind rx symbol are		e to "symbol q	uartet"		
		alues (NRZ) or from a set of			Proposed F		Response Status <b>O</b>		
In this i	nterface (which is	the service interface below	w the inner FEC)	the tx_symbol	-				
parame	eters are PAM4 sy	mbol streams, but contrary	y to what's written	here, the rx_symbol					
	PAM4 symbol str ng function.	eams - they are converted	to PAM4 symbols	s by the inner FEC's	C/ 177	SC 177.4.1	.5 P311	L15	# 277
uecouii	ig function.				Ran, Adee		Cisco		
		s paragraph states that rx_s			Comment 7		Comment Status X		
way of s	saying it is not PA	that are beyond the scope M4 symbols. In fact, 177.5 o bits for each received PA	5.4 states that the	decoder requires "a		ader may be c ASE-R PHYs.	urious why symbol multiple>	king is not performe	d for 200GBASE-R an
PAM4" A simila	is a requirement, ar problem exists i	not "may". in the definitions of the PM	D service interfac	es in 182.3 and 183.3,	perform		lata on each PCS lane alrea A (as illustrated in Figure 1 ed explicitly.		
		Ises the inner FEC in 184 - FEC in clause 184).	but there is no de	efinition of the	Suggested	Remedy			
interiac					00				
	Pamadu				Add an	informative n	ote at the end of 177.4.1.5:		
ggestedł	-	into two, one for transmit d	lirection and one f	for receive direction.	"NOTE output o	In 200GBAS of the PMA be	ote at the end of 177.4.1.5: E-R and 400GBASE-R PH` low the PCS is already sym		
ggestedf Separa In the ti PMD:IS	te this paragraph ransmit direction, S_SIGNAL.indicati	into two, one for transmit d the service interface primit ion) are as defined in the g	ives (PMD:IS_UN	IITDATA_i.request and	"NOTE output o	In 200GBAS of the PMA be gure 176–6)."	E-R and 400GBASE-R PH		
ggestedf Separa In the tr PMD:IS (as writ In the re	te this paragraph ransmit direction, S_SIGNAL.indicati ten in D1.3). eceive direction, F	the service interface primit ion) are as defined in the g PMD:IS_SIGNAL.indication	tives (PMD:IS_UN leneric inter-subla h is as defined by	IITDATA_i.request and yer service interface the generic inter-	"NOTE output o (see Fig	In 200GBAS of the PMA be gure 176–6)."	E-R and 400GBASE-R PH` low the PCS is already sym		
ggestedf Separa In the tr PMD:IS (as writ In the re sublaye	te this paragraph ransmit direction, S_SIGNAL indicati ten in D1.3). eceive direction, F er service interface	the service interface primit ion) are as defined in the g PMD:IS_SIGNAL.indication e, but PMD:IS_UNITDATA	tives (PMD:IS_UN eneric inter-subla n is as defined by _i.indication is mo	IITDATA_i.request and yer service interface the generic inter- odified from that	"NOTE output o (see Fig	In 200GBAS of the PMA be gure 176–6)."	E-R and 400GBASE-R PH elow the PCS is already sym <i>Response Status</i> <b>0</b>		
ggestedf Separa In the tr PMD:IS (as writ In the ro sublaye service	te this paragraph ransmit direction, S_SIGNAL indicati ten in D1.3). eceive direction, F er service interface interface, in that	the service interface primit ion) are as defined in the g PMD:IS_SIGNAL.indication	ives (PMD:IS_UN eneric inter-subla n is as defined by _i.indication is mo are taken from a	IITDATA_i.request and yer service interface the generic inter- odified from that set of more than four	"NOTE output o (see Fig Proposed F	In 200GBAS of the PMA be gure 176–6)." Response	E-R and 400GBASE-R PH elow the PCS is already sym <i>Response Status</i> <b>0</b>	bol multiplexed wit	h 4-way interleaving
ggestedf Separa In the tr PMD:IS (as writ In the ro sublaye service	te this paragraph ransmit direction, S_SIGNAL.indicati ten in D1.3). eceive direction, F er service interface interface, in that i as generated by	the service interface primit ion) are as defined in the g PMD:IS_SIGNAL.indication e, but PMD:IS_UNITDATA the rx_symbol parameters	ives (PMD:IS_UN eneric inter-subla n is as defined by _i.indication is mo are taken from a	IITDATA_i.request and yer service interface the generic inter- odified from that set of more than four	"NOTE: output o (see Fig Proposed Fig Cl 177	In 200GBAS of the PMA be gure 176–6)." Response SC 177.4.2	E-R and 400GBASE-R PH show the PCS is already sym Response Status <b>0</b> P <b>311</b>	bol multiplexed wit	h 4-way interleaving
ggestedf Separa In the tr PMD:IS (as writ In the rr sublaye service values, depend Apply s	te this paragraph ransmit direction, S_SIGNAL.indicati ten in D1.3). eceive direction, F er service interface interface, in that i as generated by lent.	the service interface primit ion) are as defined in the g PMD:IS_SIGNAL.indication e, but PMD:IS_UNITDATA the rx_symbol parameters	ives (PMD:IS_UN eneric inter-subla n is as defined by _i.indication is mo are taken from a e. The size of this	IITDATA_i.request and yer service interface the generic inter- odified from that set of more than four set is implementation	"NOTE: output of (see Fig Proposed F Cl 177 Ran, Adee Comment 1 The las The inte	In 200GBAS of the PMA be gure 176–6)." Response SC 177.4.2 Fype T st delay line (la erleaver can b	E-R and 400GBASE-R PH show the PCS is already sym Response Status 0 P311 Cisco	L 24	h 4-way interleaving # 2 <u>78</u>
ggestedf Separa In the tr PMD:IS (as writ In the rr sublaye service values, depend Apply s	te this paragraph ransmit direction, S_SIGNAL.indicati ten in D1.3). eceive direction, F er service interface interface, in that i as generated by lent.	the service interface primit ion) are as defined in the g PMD:IS_SIGNAL.indication e, but PMD:IS_UNITDATA the rx_symbol parameters the PMD's service interface the PMD service interface	ives (PMD:IS_UN eneric inter-subla n is as defined by _i.indication is mo are taken from a e. The size of this	IITDATA_i.request and yer service interface the generic inter- odified from that set of more than four set is implementation	"NOTE: output of (see Fig Proposed F Cl 177 Ran, Adee Comment 1 The las The inte	In 200GBAS of the PMA be gure 176–6)." Response SC 177.4.2 Sype T st delay line (la erleaver can b lude delay line	E-R and 400GBASE-R PH blow the PCS is already sym Response Status 0 P311 Cisco Comment Status X abeled "Delay Line 2") is act the described as being comp	L 24	h 4-way interleaving # 2 <u>78</u>
ggestedf Separa In the tr PMD:IS (as writ In the rr sublaye service values, depend Apply s	te this paragraph ransmit direction, S_SIGNAL.indicati ten in D1.3). eceive direction, F er service interface interface, in that i as generated by lent.	the service interface primit ion) are as defined in the g PMD:IS_SIGNAL.indication e, but PMD:IS_UNITDATA the rx_symbol parameters the PMD's service interface the PMD service interface	ives (PMD:IS_UN eneric inter-subla n is as defined by _i.indication is mo are taken from a e. The size of this	IITDATA_i.request and yer service interface the generic inter- odified from that set of more than four set is implementation	"NOTE- output of (see Fig Proposed F Cl 177 Ran, Adee Comment 7 The las The inte two incl Suggested Rephra	In 200GBAS of the PMA be gure 176–6)." Response SC 177.4.2 Type T ti delay line (la erleaver can b lude delay line Remedy use the text in	E-R and 400GBASE-R PH blow the PCS is already sym Response Status 0 P311 Cisco Comment Status X abeled "Delay Line 2") is act the described as being comp	L 24 L 24 ually not a delay lin osed of three data p es not.	# 278 # 278 e. paths, of which the first
uggestedf Separa In the tr PMD:IS (as writ In the rd sublaye service values, depend	te this paragraph ransmit direction, S_SIGNAL.indicati ten in D1.3). eceive direction, F er service interface interface, in that i as generated by lent.	the service interface primit ion) are as defined in the g PMD:IS_SIGNAL.indication e, but PMD:IS_UNITDATA the rx_symbol parameters the PMD's service interface the PMD service interface	ives (PMD:IS_UN eneric inter-subla n is as defined by _i.indication is mo are taken from a e. The size of this	IITDATA_i.request and yer service interface the generic inter- odified from that set of more than four set is implementation	"NOTE output of (see Fig Proposed F Cl 177 Ran, Adee Comment 1 The las The inte two incl Suggested/ Rephra "Delay	In 200GBAS of the PMA be gure 176–6)." Response SC 177.4.2 SC 177.4.2 Fype T tit delay line (la erleaver can b lude delay line Remedy ise the text in Line n" to "inte	E-R and 400GBASE-R PH show the PCS is already sym Response Status 0 P311 Cisco Comment Status X abeled "Delay Line 2") is act the described as being comp as (0 and 1) and the third do this subclause and change	L 24 L 24 ually not a delay lin osed of three data p es not. Figure 177-4 per th	# 2 <u>78</u> # 2 <u>78</u> e. paths, of which the first

C/ 177 SC 177.4.2								
5/ 1// 30 1//.4.Z	P <b>311</b>	L <b>26</b>	# 279	C/ 177	SC 177.4.5	P <b>313</b>	L <b>51</b>	# 282
Ran, Adee	Cisco			Ran, Adee		Cisco		
Comment Type ER	Comment Status X			Comment 7	ype ER	Comment Status X		
Commas are missing	in the 4 paragraphs about del	ay lines, and per	iods are inconsistent.		ger i is a scalar stances)	, not a vector, so it should no	t be in boldface	here (it is not bold in
,	add commas after "200GBAS	E B" and before	"and the last line"	Suggested	Remedy			
Similarly for the other				Remov	e the boldface f	ormat from i.		
				Proposed F	esponse	Response Status <b>O</b>		
·	nd of the second and third para	agrapns.						
Proposed Response	Response Status O							
				C/ 177	SC 177.4.5	P <b>313</b>	L <b>51</b>	# 283
7 SC 177.4.4	P312	L <b>34</b>	# 280	Ran, Adee		Cisco		
an, Adee	Cisco			Comment 7	ype TR	Comment Status X		
omment Type ER	Comment Status X					l,i, s5,i, s6,i) is the binary vec 7) with primitive polynomial x		ng to the element $\alpha_i$
not for the circular ch	ift (circular shift would be the s		20-bit block creation,			its are the binary representat		
symbol).	ift (circular shift would be the s			but per	Equation 177-2 hrough α_6 tha	these are actually the binary to be the binary to be a ctually the binary to creates $\alpha_i$ . I suspect these	coefficients in t	he linear combination
symbol).				but per of α_0 <i>Suggestedi</i> Move tl	Equation 177-2 hrough α_6 tha Re <i>medy</i> ne quoted sente	t these are actually the binary t creates α_i. I suspect these ence after the subsequent one	<ul> <li>coefficients in t</li> <li>are not the san</li> <li>e (which states t</li> </ul>	the linear combination ne. hat the elements can
symbol). SuggestedRemedy				but per of α_0 <i>Suggestedi</i> Move ti be expl	Equation 177-2 hrough $\alpha_6$ tha <i>Remedy</i> he quoted sente essed as a line	these are actually the binary t creates $\alpha_i$ . I suspect these	v coefficients in t e are not the san e (which states t "binary vector c	the linear combination ne. hat the elements can
symbol). <i>SuggestedRemedy</i> Move the quoted sen	tence to 177.4.3.			but per of α_0 <i>Suggestedi</i> Move ti be expl	Equation 177-2 hrough $\alpha_6$ that Remedy he quoted sente essed as a line coefficients of t	these are actually the binary t creates $\alpha_i$ . I suspect these once after the subsequent one ar combination), and change	v coefficients in t e are not the san e (which states t "binary vector c	the linear combination ne. hat the elements can
symbol). SuggestedRemedy Move the quoted sent Proposed Response	tence to 177.4.3.			but per of α_0 <i>Suggestedi</i> Move ti be exp "binary	Equation 177-2 hrough $\alpha_6$ that Remedy he quoted sente essed as a line coefficients of t	these are actually the binary t creates $\alpha_i$ . I suspect these ence after the subsequent one ar combination), and change he linear combination that cr	v coefficients in t e are not the san e (which states t "binary vector c	the linear combination ne. hat the elements can
symbol). SuggestedRemedy Move the quoted sent Proposed Response	tence to 177.4.3. Response Status <b>O</b>	ame regardless (	of the bit order within a	but per of α_0 <i>Suggestedi</i> Move ti be exp "binary	Equation 177-2 hrough $\alpha_6$ that Remedy he quoted sente essed as a line coefficients of t	these are actually the binary t creates $\alpha_i$ . I suspect these ence after the subsequent one ar combination), and change he linear combination that cr	v coefficients in t e are not the san e (which states t "binary vector c	the linear combination ne. hat the elements can
symbol). SuggestedRemedy Move the quoted sent Proposed Response C/ 177 SC 177.4.5 tan, Adee	tence to 177.4.3. Response Status O P313	ame regardless (	of the bit order within a	but per of a_0 Suggested/ Move the be expl "binary Proposed F Cl 177	Equation 177-2 hrough $\alpha_6$ that Remedy he quoted sente essed as a line coefficients of t Response	these are actually the binary t creates α_i. I suspect these ence after the subsequent one ar combination), and change he linear combination that cre <i>Response Status</i> <b>O</b>	v coefficients in t e are not the san e (which states t "binary vector c eates".	the linear combination ne. hat the elements can orresponding to" to
symbol). SuggestedRemedy Move the quoted sem Proposed Response Cl 177 SC 177.4.5 Ran, Adee	tence to 177.4.3. Response Status <b>0</b> P <b>313</b> Cisco	ame regardless (	of the bit order within a	but per of α_0 Suggestedi Move ti be expi "binary Proposed F	Equation 177-2 hrough α_6 tha Remedy he quoted sente essed as a line coefficients of t Response SC 177.4.5	t these are actually the binary t creates α_i. I suspect these ance after the subsequent one ar combination), and change he linear combination that cre <i>Response Status</i> <b>O</b> <i>P</i> <b>314</b>	v coefficients in t e are not the san e (which states t "binary vector c eates".	the linear combination ne. hat the elements can orresponding to" to
symbol). SuggestedRemedy Move the quoted sent Proposed Response Cl 177 SC 177.4.5 Ran, Adee Comment Type ER Missing commas	tence to 177.4.3. Response Status <b>0</b> P <b>313</b> Cisco	ame regardless (	of the bit order within a	but per of α_0 Suggestedi Move ti be expl "binary Proposed F CI 177 Ran, Adee Comment T The se	Equation 177-2 hrough α_6 tha Remedy ne quoted sente essed as a line coefficients of t esponse SC 177.4.5 Sype ER cond sentence i	t these are actually the binary t creates α_i. I suspect these ar combination), and change he linear combination that cre <i>Response Status</i> <b>0</b> <i>P</i> <b>314</b> <i>Cisco</i> <i>Comment Status</i> <b>X</b> n the first paragraph spans 5	v coefficients in t e are not the san e (which states t "binary vector c eates".           L1           E lines and include	the linear combination ne. hat the elements can orresponding to" to # 284 des 6 commas, 3
symbol). SuggestedRemedy Move the quoted sent Proposed Response Cl 177 SC 177.4.5 Ran, Adee Comment Type ER	tence to 177.4.3. <i>Response Status</i> <b>O</b> <i>P</i> <b>313</b> Cisco <i>Comment Status</i> <b>X</b> lows".	ame regardless (	of the bit order within a	but per of α_0 Suggestedi Move ti be expi "binary Proposed F Cl 177 Ran, Adee Comment T The se instanc	Equation 177-2 hrough α_6 that Remedy he quoted sente essed as a line coefficients of t esponse SC 177.4.5 Sype ER cond sentence i es of "and", and	t these are actually the binary t creates α_i. I suspect these ance after the subsequent one ar combination), and change he linear combination that cre <i>Response Status</i> <b>0</b> <i>P</i> <b>314</b> Cisco <i>Comment Status</i> <b>X</b>	v coefficients in t e are not the san e (which states t "binary vector c eates".           L1           5 lines and incluc difficult to follow	the linear combination he. hat the elements can orresponding to" to # 284 des 6 commas, 3
symbol). SuggestedRemedy Move the quoted semi- Proposed Response C 177 SC 177.4.5 san, Adee Comment Type ER Missing commas SuggestedRemedy Add a comma after "f Add commas before a	tence to 177.4.3. <i>Response Status</i> <b>O</b> <i>P</i> <b>313</b> Cisco <i>Comment Status</i> <b>X</b> lows".	ame regardless (	of the bit order within a	but per of α_0 Suggestedi Move ti be expi "binary Proposed F Cl 177 Ran, Adee Comment T The se instanc	Equation 177-2 hrough α_6 tha Remedy ne quoted sente essed as a line coefficients of t Response SC 177.4.5 Sype ER cond sentence i es of "and", and ncludes "first", b	t creates α_i. I suspect these ar combination), and change he linear combination that cre <i>Response Status</i> <b>O</b> <i>P</i> <b>314</b> <i>C</i> isco <i>Comment Status</i> <b>X</b> n the first paragraph spans 5 I 2 instances of "where". It is	v coefficients in t e are not the san e (which states t "binary vector c eates".           L1           5 lines and incluc difficult to follow	the linear combination he. hat the elements can orresponding to" to # 284 des 6 commas, 3
symbol). SuggestedRemedy Move the quoted semi Proposed Response Cl 177 SC 177.4.5 Ran, Adee Comment Type ER Missing commas SuggestedRemedy Add a comma after "f	tence to 177.4.3. <i>Response Status</i> <b>O</b> <i>P</i> <b>313</b> Cisco <i>Comment Status</i> <b>X</b> lows". and after "m<119:0>".	ame regardless (	of the bit order within a	but per of α_0 Suggestedi be expi "binary Proposed F C/ 177 Ran, Adee Comment T The se instanc It also i Suggestedi	Equation 177-2 hrough α_6 that Remedy he quoted sente essed as a line coefficients of t Pesponse SC 177.4.5 Sype ER cond sentence i es of "and", and ncludes "first", b Remedy	t creates α_i. I suspect these ar combination), and change he linear combination that cre <i>Response Status</i> <b>O</b> <i>P</i> <b>314</b> <i>C</i> isco <i>Comment Status</i> <b>X</b> n the first paragraph spans 5 I 2 instances of "where". It is	coefficients in t are not the san e (which states t "binary vector c eates". L1 5 lines and includ difficult to follow her steps.	the linear combination he. hat the elements can orresponding to" to # 284 des 6 commas, 3 /.

C/ 177 SC 177.4.7	P <b>315</b>	L10	# 285	C/ 177	SC 177.4.9	P317	L <b>5</b>	# 287
an, Adee	Cisco			Ran, Adee		Cisco		
comment Type TR	Comment Status X			Comment T	Type <b>TR</b>	Comment Status X		
It would be helpful for	ds on the input rate which has the reader to write the ratio of eferably be placed in the "sum	the output rate a		lane. The def	finitions in cla	at happens when more than on use 120 which are referenced i d the case where two are enab	include different	control variables and
uggestedRemedy Change "the rate" to "					at some of the bits per lane.	e patterns in clause 120 are no	ot per-lane but he	re all patterns have
	It the ratio, here and in 177.1.3	3.		Suggested	Remedy			
Proposed Response	Response Status <b>O</b>			generat	tors on a lane	tating that all generators are pe affects only that lane, and that on the same lane is not specif	t the behavior wh	
177 SC 177.4.9	P <b>317</b>	L <b>4</b>	# 286	Proposed R		Response Status <b>O</b>		
an, Adee	Cisco							
omment Type TR	Comment Status X							
	are used to test adjacent layer C and external testing equipme		perform testing	C/ 177	SC 177.5.1		L <b>41</b>	# 288
				Ran, Adee		Cisco		
Which adjacent layer	interfaces? and what is "testin	g between"?		Comment T		Comment Status X		
	only in the output direction, so (which is then used with exte			data eq In pract	uivalent to the tice, the proce	is enabled, the Inner FEC rece e process specified for input lan essing is equivalent only if hard the main data path it is assume	nes in 135.5.7.2" I decoding is perf	ormed (i.e., in the initi
uggestedRemedy						ed on soft inputs, so inverse pro		
Change to "If implemented, these PMD testing purposes	e test patterns can be used to	drive the PMD se	ervice interface for		decoding. be beneficial t	o inform the reader of this diffe	erence.	
Proposed Response	Response Status O					dy assumes that the Inner FEC MD, as suggested in another c		ation is performed on
				Suggested	Remedy			
				"NOTE-	If inverse pre	ote at the end of 177.5.1.1: ecoding operation is enabled a operation in 177.5.4, which do		
					ng function."	operation in 177.3.4, which do		

C/ 177	SC 177.5	2	P318	L <b>7</b>	# 289	C/ 177	SC	177.5.4	P 319	L10	# 291
Ran, Adee			Cisco			Ran, Adee			Cisco		
Comment 7	Type TR	Comme	ent Status X			Comment	Туре	Е	Comment Status X		
		interleaving ( nner FEC flov	each pair of bits co ws"	orresponding to a	PAM4 symbol) is				er is a soft-decision decoder t ed PAM4 symbols"	that requires a h	igher resolution than
	clear what "b onal use is in		in this operation. "	'blind" is no defin	ed in 802.3 and its	Wordir S <i>ugg</i> ested	•	be improv	red.		
Darban	o "initial" ia r	oro odoguoti	a hara			Chang		<i>ly</i>			
•		nore adequate	e nere.					EC decodi	ng assumes soft-decision op	eration that requ	ires a resolution of
Suggested	-	the little dealers		d de sie en state de	the second second	more tl	han tw	o bits for e	each received symbol".		
	in this subcla		uoted sentence an	d the one with th	e other instance of	Proposed I	Respor	nse	Response Status O		
Proposed F	Response	Respon	se Status <b>O</b>								
						C/ 177	SC	177.5.4	P 319	L11	# 292
/ 177	SC 177.5	<b>n</b>	P318	L7	# 200	Ran, Adee			Cisco		
		2		LI	# 290	Comment	Type	TR	Comment Status X		
an, Adee			Cisco					d correctio	n capability of the decoder is	not stated.	
	51	einterleaving	ent Status X and synchronization	on is performed o	on bit pairs, since they	decode	er does	s not mark	at happens when a codeword the data as error in any way rns that appear in this case a	(since it is an in	ner code) but it is not
		t pairs is likel	y hard decoding of	the input symbo	Is into PAM4 and then						
into bits Howev		deinterleaving	a is later performed	d on the input svi	nbols, which are more				C decoder specification in 91 ction capability and uncorrect		
		s currently no		a on the hiper of		·					<i>S,</i>
Suggestedl	Remedy					This is implerr			nation for testing, monitoring	and analyzing th	e performance of an
					n based on the PAM4	impien	lentatio	JII.			
hard de	ecoding is us	ed for deinterl	leaving of soft inpu	its into the Inner	FEC decoding.				is based on slide 9 of		
Proposed F	Response	Respon	se Status O						g/3/df/public/22_05/22_0517/	/bliss_3df_01a_2	220517.pdf.
						Suggested		•			
						to one decode	ecoder bit erro ed corr	is expect or and most ectly will c	ed to correct all codewords in st codewords with up to three contain at least four bit errors above if necessary.	bit errors. Code	cision would result in u ewords that are not
									s for additional text (either the ntributions in this area.	e one above or c	otherwise), add an

Proposed Response Response Status **0** 

Ran, Adee     Cisco       Comment Type     TR     Comment Status       "The decoder evaluates the incoming codeword and determines the most likely codeword	Ran, Adee Cisco
"The decoder evolution the incoming addressed and determined the most likely addressed	Comment Type TR Comment Status X
value"	"An uncorrected Inner FEC codeword is a codeword that contains errors that were no to be corrected by the decoders."
Then input to the decoder is not a codeword (a codeword is a member of a set of 128-bit vectors). The input is a vector of "soft" samples that corresponds to a transmitted codeword.	The phrase "able to be corrected by the decoders" is convoluted. The ability is in the decoder, not in the codeword.
SuggestedRemedy	It is unclear to me if a decoder is even allowed to "not correct" a codeword. Does it is that hard detection would result in 4 errors, such that the decoder is unsure of the metabolic context.
Change to "The decoder evaluates the incoming block of 64 rx_symbol inputs and determines the most likely codeword value".	likely codeword, so it just spits the hard-detected bits (stripping the parity bits)? if that done, then the (normative?) statement in 177.5.4 "The decoder evaluates the income
Proposed Response Response Status <b>O</b>	codeword and determines the most likely codeword value" is not true.
	SuggestedRemedy
C/ 177 SC 177.5.4.1.1 P319 L21 # 294	At the minimum change the quoted statement to "An uncorrected Inner FEC codeword codeword with errors that the decoder chose not to correct due to a high probability of miscorrection".
<i>Comment Type</i> <b>ER</b> <i>Comment Status</i> <b>X</b> "The output of the Inner FEC decoder will recognize the miscorrected codewords as	Preferably add some text in 177.5.4 to cover this possibility and the likelihood that th message contains several bit errors.
corrected codewords."	Proposed Response Response Status O
The output is not a separate entity, it is a block of 120 bits that has no information about the type of codeword it came from. The counter is internal to the decoder.	
SuggestedRemedy	C/ 177 SC 177.6.2.1 P320 L34 # 296
Change to	Ran, Adee Cisco
"The Inner FEC decoder will treat any miscorrected codeword as a corrected codeword."	Comment Type ER Comment Status X
Proposed Response Response Status O	The definition of all_synced does not (strictly) cover the case where sync_flow <x> is for all eight flows but the Inner FEC flow 0 is not identified. Also, "and" here has no special meaning and should not be capitalized.</x>
	SuggestedRemedy
	Change "set to false when sync_flow <x> is false for any x" to "set to false otherwise' Change "AND" to "and".</x>
	Proposed Response Response Status O

CI 177 SC 177.6.3 P323	L 29	# 297	C/ 177	SC 177.10.	P <b>325</b>	L <b>39</b>	# 299
Ran, Adee Cisco			Ran, Adee		Cisco		
Comment Type ER Comment Status X			Comment Ty	be TR	Comment Status X		
In Figure 177-11 there are two states titled "COUN transition conditions. I assume both are required (if not, the bottom one			177.4.1.2		me "pmal_locked_demux" is in 176.4.4.2.1. ariable.	not mentioned ir	n the referenced
SuggestedRemedy			SuggestedRe	medy			
Rename the states to COUNT_NEXT_1 and COU	NT_NEXT_2.				s-reference to clause 176, c		
Proposed Response Response Status O			Add "lane	0 through 7	tus variables for this function	(only in the trans	smit direction? Or both?)
			Proposed Re	sponse	Response Status 0		
CI 177 SC 177.10. P325	L <b>9</b>	# 298					
Ran, Adee Cisco			C/ 177	SC 177.10.	P 325	L <b>40</b>	# 300
Comment Type TR Comment Status X			Ran, Adee		Cisco		
Table 177-6 includes control variables for per-lane editor's note, these variables are not defined.	inner FEC enable	e. As stated in the	Comment Ty	oe TR	Comment Status X		
There idea of disabling the FEC and the behaviors have never been discussed.	of the encoder ar	nd decoder in this state	through 7	) but the vari	us is defined here and in clau able definition in 177.6.2.1 ir which is not defined per lan	icludes "all_synce	
			SuggestedRe	medy			
If the intent is to have a way to power down the FE	C lodic, then the a	adiacont Pivil i's olitolit		-			
			Change t	he mapping t	o be a single bit.		
enable and signal detect functions can be used. H and need not be specified in a standard.			Change t Proposed Re		o be a single bit. <i>Response Status</i> <b>0</b>		
enable and signal detect functions can be used. H			0		Ū.		
enable and signal detect functions can be used. H and need not be specified in a standard.	owever, this would	not be observable	Proposed Re		Ū.	L 48	# 301
enable and signal detect functions can be used. H and need not be specified in a standard. SuggestedRemedy Delete the "Inner FEC enable" control variables in registers in clause 45.	owever, this would	not be observable	Proposed Re	sponse	Response Status O	L 48	# 301
enable and signal detect functions can be used. H and need not be specified in a standard. SuggestedRemedy Delete the "Inner FEC enable" control variables in registers in clause 45.	owever, this would	not be observable	Proposed Re  Cl 177	sponse SC 177.10.	Response Status 0 P328	L48	# 301
enable and signal detect functions can be used. H and need not be specified in a standard. SuggestedRemedy Delete the "Inner FEC enable" control variables in registers in clause 45.	owever, this would	not be observable	Proposed Re Cl <b>177</b> Ran, Adee Comment Ty	SC 177.10.	Response Status O P 328 Cisco		
enable and signal detect functions can be used. H and need not be specified in a standard. SuggestedRemedy Delete the "Inner FEC enable" control variables in registers in clause 45.	owever, this would	not be observable	Proposed Re Cl <b>177</b> Ran, Adee Comment Ty, The "abil subclaus	SC 177.10.	Response Status O P 328 Cisco Comment Status X	appear in the vari	able reference
enable and signal detect functions can be used. H and need not be specified in a standard. SuggestedRemedy Delete the "Inner FEC enable" control variables in registers in clause 45.	owever, this would	not be observable	Proposed Re Cl <b>177</b> Ran, Adee Comment Ty, The "abil subclaus Also, for	SC 177.10. SC 177.10. De TR ty" variables es. each ability it ne).	Response Status O P 328 Cisco Comment Status X listed in Table 177-7 do not a	appear in the vari	able reference
enable and signal detect functions can be used. H and need not be specified in a standard. SuggestedRemedy Delete the "Inner FEC enable" control variables in registers in clause 45.	owever, this would	not be observable	Proposed Re Cl 177 Ran, Adee Comment Ty, The "abil subclaus Also, for bit per lau SuggestedRe Add text	SC 177.10. SC 177.10. De TR ty" variables es. each ability it ne). medy describing the	Response Status O P 328 Cisco Comment Status X listed in Table 177-7 do not a	appear in the vari	able reference

C/ 00	SC O	P 338	L <b>30</b>	# 302	C/ 179	SC 179.9.4.5	P <b>378</b>	L <b>50</b>	# 304
Ran, Ade	e	Cisco			Ran, Adee		Cisco		
Comment	t Type T	Comment Status X			Comment	Туре Т	Comment Status X		
all oth "is lim	ner measurement nited to" reads like	ariation at SP2 are specified v points it is specified with "sha an informative statement, bu SP2 may not be accessible; th	II be less than" It it is a normat	ive requirement (it is not	illustra Compa	tion.	ulation of dSNDR may be calculation of dR_peak a 3A–1.		
		n multiple places in the draft (			Suggested	IRemedy			
with in	e wording is used i n maintenance. dRemedy	n multiple clauses of the base	e standard. If h	ecessary, it can be dealt	Add a "meas	figure in 179.9.4 ured SNDR".	.5 similar to Figure 163A-		ce SNDR" and
00					Add te	ext referring to the	e figure with editorial licen	se.	
Chan SP2.	ge "is limited to" to	o "shall be less than" in all ins	stances of Skev	v and Skew variation at	Proposed I	Response	Response Status O		
Proposed	l Response	Response Status 0							
					C/ 179	SC 179.9.4.5	.3 P 380	L <b>22</b>	# 305
C/ 179	SC 179.9.4.1	P <b>374</b>	L <b>6</b>	# 303	Ran, Adee		Cisco		
Ran, Ade	e	Cisco	-		Comment	Type <b>TR</b>	Comment Status X		
Comment		Comment Status X			H_t(f) i	is not fully define	ed since T_r is not provide	ed.	
	51	three host classes.			S <i>uggested</i> Add a	-	in Table 179-18		
for R_ the re	_peak, as has bee	nce model for each host class in done for SNDR (now dSND e test fixture specifications an	R). This would	remove dependence of	Proposed I	Response	Response Status <b>O</b>		
Suggeste	dRemedy								

SuggestedRemedy

Define the minimum R\_peak requirement to be relative to what the reference transmitter will create with the test fixture used. A contribution with more details will be provided.

Proposed Response Response Status **0** 

C/ 179 SC 17	79.9.4.6	P 381	L <b>21</b>	# 306	C/ 179	SC 179.9.5.3	P 385	L <b>31</b>	# 308
Ran, Adee		Cisco			Ran, Adee		Cisco		
Comment Type	TR C	omment Status X			Comment 7	Туре Т	Comment Status X		
As noted in http of combining me troublesome. As a specific ex in an opposite w asymmetric, the jitter) are mirror	ps://www.ieee neasurements xample, addit way for rising e distributions r images of e ect of the add	a 120D.3.1.8.1 for the pro- 802.org/3/dj/public/24_1 from different transition ive noise (which is alway /falling transitions. If the s created by the noise al ach other, and combinin, itive noise. Especially, th	I1/ran_3dj_06a_ is into a single P ys present) is tra additive noise d lone (in the abse g them as in the	2411.pdf, the method 2DF in 120D.3.1.8.1 is anslated to timing error listribution is ence of clock phase 120D method would	address The pa the cor "interna equaliz Deviati item b signal i measu	sed". ttern generator i responding KR t al loss" is not ex ation as part of on from the refe of 179.9.5.3.3, ir into the device n	'The internal loss of the tesh n this case is expected to b est, there is no provision fo ternally observable and is p the instrument's calibration. rence transmitter model is a istead of the reference T_r iodel). This may be emphase ferent list item (similar to ite	e an instrument-ç r just "a complian ossibly compensi Iddressed by usir (which models th sized by separatir	grade equipment (unlik it transmitter). The ated for by internal ng the measured T_r in e transition time of the ng the transition
		ion from multiple transiti		lles and the	Suggested	Remedy			
measurement ir		ce of additive (vertical) n			calcula		nent of the transition time in nel S-parameters (which us		
and slope deper	endence.	e distributions should be etails is planned.	e improved to mi	tigate additive noise		the editor's note			
and slope depen SuggestedRemedy A contribution w	endence. / with further de		improved to mi	tigate additive noise	Delete	the editor's note	•	L 33	# 309
and slope depen uggestedRemedy A contribution w	endence. / with further de	etails is planned.	∍ improved to mi	tigate additive noise	Delete Proposed F	the editor's note Response SC <b>179.11</b>	Response Status <b>O</b>	L33	# 309
and slope deper suggestedRemedy A contribution w proposed Response	endence. , with further de se Re	etails is planned.	≥ improved to min		Delete Proposed F Cl <b>179</b>	the editor's note Response SC 179.11	Response Status O P390	L 33	# 309
and slope deper uggestedRemedy A contribution w roposed Response / 179 SC 17 an, Adee	with further de Re	etails is planned. esponse Status <b>O</b>		tigate additive noise # 307	Delete Proposed F Cl 179 Ran, Adee Comment 1 The ter comme	the editor's note Response SC 179.11 Type T rm "cable assements have been r	Response Status O P390 Cisco Comment Status X bly class" has been used a eceived to use another term	s a placeholder fo	
and slope deper uggestedRemedy A contribution w roposed Response / 179 SC 17 an, Adee omment Type The amplitude to	with further dese Re 79.9.5 TR C tolerance def	etails is planned. esponse Status <b>O</b> <b>P384</b> Cisco omment Status X inition in 179.9.5.2 is now	L 10	# <u>307</u>	Delete Proposed F Cl <b>179</b> Ran, Adee Comment T The ter comme It is sug	the editor's note Response SC 179.11 Type T rm "cable assements have been r ggested to formation	Response Status O P390 Cisco Comment Status X bly class" has been used a	s a placeholder fo	
and slope deper uggestedRemedy A contribution w roposed Response 1 179 SC 17 an, Adee omment Type The amplitude to voltage (v_f) rat	with further de se Re 79.9.5 TR C tolerance def tther than pea	etails is planned. esponse Status <b>O</b> P <b>384</b> Cisco omment Status <b>X</b>	L 10	# <u>307</u>	Delete Proposed F Cl 179 Ran, Adee Comment T The ter comment It is sug Suggested	the editor's note Response SC 179.11 Type T rm "cable assem ents have been r ggested to forma Remedy	Response Status O P390 Cisco Comment Status X bly class" has been used a eceived to use another term	s a placeholder fo	or several drafts. No
and slope depen uggestedRemedy A contribution w troposed Response 1 179 SC 17 an, Adee comment Type The amplitude to voltage (v_f) rat uggestedRemedy	with further de se Re 79.9.5 TR C tolerance def ther than pea	etails is planned. <i>P</i> 384 Cisco <i>comment Status</i> X inition in 179.9.5.2 is now k-to-peak. Therefore, the	L 10 w stated in terms e value 1 Volt is	# 307 s of steady-state inadequate.	Delete Proposed F Cl 179 Ran, Adee Comment T The ter comme It is sug Suggested Unify th editoria	the editor's note Response SC 179.11 Type T rm "cable assements have been r ggested to forma Remedy ne document by al license.	Response Status O P390 Cisco Comment Status X bly class" has been used a eceived to use another term ally adopt this term. changing any other term re	s a placeholder fo	or several drafts. No
and slope depen SuggestedRemedy A contribution w Proposed Response (1) 179 SC 17 Can, Adee Comment Type The amplitude to voltage (v_f) rat SuggestedRemedy Change the para	with further de se Re 79.9.5 TR C tolerance def ther than pea	etails is planned. esponse Status <b>O</b> <b>P384</b> Cisco omment Status X inition in 179.9.5.2 is now	L 10 w stated in terms e value 1 Volt is	# 307 s of steady-state inadequate.	Delete Proposed F Cl 179 Ran, Adee Comment T The ter comme It is sug Suggested Unify th editoria Delete	the editor's note Response SC 179.11 Type T m "cable assem ents have been r ggested to forma Remedy ne document by al license. the editor's note	. Response Status O P390 Cisco Comment Status X bly class" has been used a eceived to use another term ally adopt this term. changing any other term ref.	s a placeholder fo	or several drafts. No
and slope deper SuggestedRemedy A contribution w Proposed Response Cl <b>179</b> SC <b>17</b> Ran, Adee Comment Type The amplitude to voltage (v_f) rat SuggestedRemedy	with further de with further de se Re 79.9.5 TR C tolerance def ther than pea rameter name	etails is planned. sponse Status <b>O</b> <b>P384</b> Cisco omment Status <b>X</b> inition in 179.9.5.2 is nov ik-to-peak. Therefore, the e from "Amplitude tolerat	L 10 w stated in terms e value 1 Volt is	# 307 s of steady-state inadequate.	Delete Proposed F Cl 179 Ran, Adee Comment T The ter comme It is sug Suggested Unify th editoria	the editor's note Response SC 179.11 Type T m "cable assem ents have been r ggested to forma Remedy ne document by al license. the editor's note	Response Status O P390 Cisco Comment Status X bly class" has been used a eceived to use another term ally adopt this term. changing any other term re	s a placeholder fo	or several drafts. No

C/ 179	SC 179.11	P 391	L <b>5</b>	# 310	C/ 179	SC 179.11.7	, F	<sup>&gt;</sup> 393	L <b>48</b>	# 312
an, Adee		Cisco			Ran, Adee		Cis	CO		
omment	Type <b>TR</b>	Comment Status X			Comment 7	Гуре Е	Comment State	us X		
first ro	w, but does not	assembly characteristics sun state the expected reach of					COM is included ir ue and referring to			exception for some
inform	ation for the rea	ader.			Suggestedl	Remedy				
Note th	nat previous PM	ID clauses include this inform	nation, and there	is a NOTE in 179.11	Replac	e "3 dB" with a	reference to Table	179-13 with	editorial license	e.
that ac	dresses the inc	dicated length, although it is	not indicated.		Proposed F	Response	Response Statu	ıs <b>O</b>		
Comm	ent #100 again	st D1.2 suggested modifying	the table to inclu	de this information.						
There incorre	-	pport for the idea, but the re-	ach values in the	suggested remedy were	C/ 179	SC 179.11.7	. <b>2.2</b> /	⊃398	L <b>32</b>	# 313
Basad	on offling disc	ussion, the expected reach p	or cable accombly	v class is:	Ran, Adee		Cis	CO		
CA-A:		ission, the expected reach p		y Class 15.	Comment 7	Гуре Е	Comment State	us X		
CA-B: CA-C:	1.5 m				Some o 179.11		ers are given in Tab	le 179-17 (a	is in the case of	f the signal path in
CA-D:	2 m				Suggestedl	Remedv				
					ouggooloui					
Implen	nent the change	es shown on slide 37 of			Change	-	ameters in Table 1	79–16" to "u	ising the param	eters in Table 179–1
Implen https://	nent the change www.ieee802.c	es shown on slide 37 of org/3/dj/public/24_11/ran_3dj ected Reach" row are as list			Change	e "using the par ble 179-17.".	rameters in Table 1 Response Statu		ising the param	eters in Table 179–1
Implen https:// the val	hent the change www.ieee802.c ues in the "Exp he NOTE in 17	org/3/dj/public/24_11/ran_3dj	ed in this comme	nt.	Change and Ta	e "using the par ble 179-17.".	Response Statu		using the param	# 314
Implen https:// the val Move t Delete	hent the change www.ieee802.c ues in the "Exp he NOTE in 17	org/3/dj/public/24_11/ran_3dj lected Reach" row are as list 9.11 to a NOTE (informative	ed in this comme	nt.	Change and Ta Proposed F	e "using the par ble 179-17.". Response	Response Statu	⊃ <b>398</b>		
https:// the val Move t Delete	hent the change (www.ieee802.c ues in the "Exp he NOTE in 17 the second edi	org/3/dj/public/24_11/ran_3dj ected Reach" row are as list 9.11 to a NOTE (informative itor's note in 179.11.	ed in this comme	nt.	Change and Tal Proposed F Cl <b>179</b>	e "using the par ble 179-17.". Response SC <b>179.11.7</b>	Response Statu	<i>IS</i> <b>O</b> ⊃ <b>398</b> .co		
Implen https:// the val Move t Delete troposed f 2/ 179 an, Adee	hent the change www.ieee802.c ues in the "Exp he NOTE in 17 the second edi Response SC <b>179.11.</b> 1	org/3/dj/public/24_11/ran_3dj ected Reach" row are as list 9.11 to a NOTE (informative itor's note in 179.11. <i>Response Status</i> <b>O</b>	ed in this comme	nt.	Change and Tal Proposed F Cl 179 Ran, Adee Comment 7 The cal "The pa But the	e "using the par ble 179-17.". Response SC <b>179.11.7</b> Type <b>TR</b> Iculation of the	Response Statu .2.2 F Cis Comment Statu NEXT path include: h) for the transmitte olumn.	us <b>O</b> 2 <b>398</b> aco us <b>X</b> s:	L 34	# 314
Implen https:// the val Move t Delete roposed in 1 179 an, Adee omment The re	hent the change www.ieee802.c ues in the "Exp he NOTE in 17 the second edi Response SC 179.11.1 Type T ference differer	org/3/dj/public/24_11/ran_3dj bected Reach" row are as list 9.11 to a NOTE (informative itor's note in 179.11. <i>Response Status</i> <b>O</b> <b>I</b> <i>P</i> <b>391</b> Cisco	ed in this comme ) in Table 179-13. <i>L</i> 28	nt. # [ <u>311</u>	Change and Tai Proposed F Cl 179 Ran, Adee Comment 7 The cal "The pa But the Similar Compa	e "using the par ble 179-17.". Response SC 179.11.7 Fype TR Iculation of the arameter z_p^(h re is no such co ly for the FEXT uring to 162.11.7	Response Statu <b>2.2.2</b> Comment Statu NEXT path includes 1) for the transmitted olumn. (line 46).	as <b>O</b> <b>398</b> aco as: as: ar is taken fro 1.2, the value	L 34	# <u>314</u> or path column" pecified separately in
Implen https:// the val Move t Delete roposed i / <b>179</b> an, Adee omment The re conver	hent the change (www.ieee802.c ues in the "Exp he NOTE in 17 the second edi <i>Response</i> SC 179.11.1 <i>Type</i> <b>T</b> ference differer sion specificati	prg/3/dj/public/24_11/ran_3dj pected Reach" row are as list 9.11 to a NOTE (informative itor's note in 179.11. <i>Response Status</i> <b>O</b> <b>1</b> <i>P</i> <b>391</b> Cisco <i>Comment Status</i> <b>X</b> ntial impedance is stated, bu	ed in this comme ) in Table 179-13. <i>L</i> 28	nt. # [ <u>311</u>	Change and Tai Proposed F Cl 179 Ran, Adee Comment 7 The cal "The pa But the Similar Compa	e "using the par ble 179-17.". Response SC 179.11.7 Type TR loculation of the arameter z_p^(the re is no such can be for the FEXT aring to 162.11.7 the but the value	Response Statu <b>7.2.2</b> Comment Statu NEXT path include: a) for the transmitte olumn. (line 46). 7.1.1 and 162.11.7.	as <b>O</b> <b>398</b> aco <i>us</i> <b>X</b> s: ar is taken fro 1.2, the valu	L 34	# <u>314</u> or path column" pecified separately ir
Implen https:// the val Move t Delete roposed I / 179 an, Adee omment The re conver uggested	hent the change (www.ieee802.c ues in the "Exp he NOTE in 17 the second edi Response SC 179.11.1 Type T ference differer sion specificati Remedy	prg/3/dj/public/24_11/ran_3dj pected Reach" row are as list 9.11 to a NOTE (informative itor's note in 179.11. <i>Response Status</i> <b>O</b> <b>1</b> <i>P</i> <b>391</b> Cisco <i>Comment Status</i> <b>X</b> ntial impedance is stated, bu	ed in this comme ) in Table 179-13. <i>L</i> <b>28</b> t there are also co	mt. # <u>311</u> ommon-mode and mode-	Change and Ta Proposed F Cl 179 Ran, Adee Comment 1 The cal "The pa But the Similarl Compa each ou Suggested/ The ref	e "using the par ble 179-17.". Response SC 179.11.7 Type TR lculation of the arameter z_p^(the re is no such can be for the FEXT aring to 162.11.7 the but the value Remedy ference to the "a	Response Statu <b>2.2</b> F Cis Comment Statu NEXT path include: n) for the transmitte olumn. (line 46). 7.1.1 and 162.11.7. e was the same, 11 aggressor path colu	<i>us</i> <b>O</b> <b>7398</b> sco <i>us</i> <b>X</b> s: rr is taken fro 1.2, the valu 0.3 mm (and umn" should	L 34 Dom the aggress ue of z_p was s d it makes sens be removed.	# 314 or path column" pecified separately ir se).
Implen https:// the val Move to Delete Proposed In Composed In Comment The re conver Suggested Add a	hent the change (www.ieee802.c ues in the "Exp he NOTE in 17 the second edi Response SC 179.11.1 Type T ference differer sion specificati Remedy	org/3/dj/public/24_11/ran_3dj eected Reach" row are as list 9.11 to a NOTE (informative itor's note in 179.11. <i>Response Status</i> <b>0</b> <b>1 P391</b> Cisco <i>Comment Status</i> <b>X</b> ntial impedance is stated, bu ons for cable assemblies.	ed in this comme ) in Table 179-13. <i>L</i> <b>28</b> t there are also co	mt. # <u>311</u> ommon-mode and mode-	Change and Ta Proposed F Cl 179 Ran, Adee Comment 7 The cal "The pa But the Similar Compa each of Suggested/ The ref The tex S is the	e "using the par ble 179-17.". Response SC 179.11.7 Type TR Iculation of the arameter z_p^(f re is no such co ly for the FEXT aring to 162.11.7 ne but the value Remedy rerence to the "a ct in 179.11.7.2.	Response Statu 2.2.2 F Cis Comment Statu NEXT path include: 1) for the transmitted olumn. (line 46). 7.1.1 and 162.11.7. a was the same, 11 aggressor path colu .2 can refer to the s XT/FEXT instead o	us <b>O</b> <b>7398</b> aco us X s: r is taken fro 1.2, the valu 0.3 mm (and umn" should imilar text ir	<i>L</i> 34 Dom the aggress Je of z_p was s d it makes sens be removed. 179.11.7.2.1,	# 314

C/ 179	SC 179.12	P 399	L <b>21</b>	# 315	C/ 180	SC	3180.5.1	P <b>414</b>	L <b>24</b>	# 317
Ran, Adee	•	Cisco			Ran, Adee	Э		Cisco		
Comment	Type ER	Comment Status X			Comment	Туре	Е	Comment Status X		
	MD is specified ir irrelevant here.	n 179.8 and 179.9. 179.14 c	ontains manage	ement variable mapping	The te	ext box	es in Figur	e 180-2 are somewhat clutter	ed.	
					Suggestee	dReme	edy			
Suggested					Chang	ge the	service inte	erface labels to "PMD:IS_UNI	TDATA_i.requ	est" and
Chang	ge the reference p	per the comment.			"PMD	:IS_UN	NITDATA_i	indication" (instead of "0 to 3.	").	
Proposed	Response	Response Status O			Move	the tex	xt "For clari	ty" to the bottom of the diag	gram, and pred	cede it with "NOTE".
					Imple	ment s	imilarly in o	other optical PMD clauses as	necessary, wit	th editorial license.
C/ 180	SC 180.5.1	P <b>413</b>	L <b>27</b>	# 316	Proposed	Respo	onse	Response Status <b>O</b>		
Ran, Adee	•	Cisco			-1					
Comment	Type TR	Comment Status X								
The su	ubclause title is "F	PMD block diagram", and the	e text refers to F	igure 180-2 as the PMD	C/ 180	SC	3180.5.4	P <b>415</b>	<i>L</i> 1	# 318
	0 /	not - it is a block diagram of	the full link betv	veen two PMDs and	Ran, Adee	Э		Cisco		
	djacent PMAs.	s it is, but the title and the tex	rt should be cha	nged. The suggested	Comment	Туре	TR	Comment Status X		
		ty, but variations of it can be		ngeu. me suggesteu			f the Globa service int	I_PMD_signal_detect variable erface"	e is conveyed	to PMD client sublayers
185.5. "A blo	1 and 187.5.1, ha	lar subclauses 181.5.1, 182. ave a separate PMD block di e PMD transmit/receive path	agram and refe	r to the link diagram as	showr	n in the		e; the service interface conve The variable has a different s		
Suggested	Remedy				Suggestee	dReme	edy			
	e the subclause m as a "link block	title to "PMD specification po k diagram".	oints". Change tl	ne text to refer to the	Delete	e the q	uoted sente	ence.		
					Imple	ment s	imilarly in o	other optical PMD clauses as	necessary, wit	h editorial license.
Chang	ge the figure title t	to align with the description.			Proposed	Respo	onse	Response Status <b>O</b>		

Implement as appropriate in all optical PMD clauses with editorial license.

Proposed Response Response Status **0** 

Cl 180	SC 180.7.1	P <b>418</b>	L12	# 319	C/ 180	SC 180.8	P 421	L <b>41</b>	# 321
Ran, Adee		Cisco			Ran, Adee		Cisco		
Comment	Туре Т	Comment Status X			Comment	Type ER	Comment Status X		
The m PMDs		return loss tolerance in 200Gl	BASE-DR1 is diff	erent than in the other			t the" appear twice in successi	on.	
l assu specifi	me this is due to ication for a 2000	the transmitter's connector; i GBASE-DR1 with a multi-fibe			Suggested Delete	-			
Should	an still have a si d the transmitter' ponding to a sing	's RINxxOMA in this case be	measured with a	reflectance	Proposed I	Response	Response Status <b>O</b>		
Suggested	•				C/ 180	SC 180.8	P <b>421</b>	L <b>42</b>	# 322
Not su	ire what the answ	wer is and where this distinction	on should be ma	de.	Ran, Adee		Cisco		
		is, implement similarly in clau	ise 182 as neces	sary, with editorial	Comment	Type TR	Comment Status X		
license Proposed		Response Status O				e definitions in i in 180.9.	180.9" seems irrelevant. There	e are not specific	ations related to Table
					Suggested	Remedy			
C/ 180	SC 180.7.3	P <b>420</b>	L <b>24</b>	# 320	Delete	"per the definiti	ions in 180.9".		
Ran, Adee		Cisco			Implerr	ent similarly in	other optical PMD clauses as	necessary, with	editorial license.
Comment	Туре Т	Comment Status X			Proposed F	Response	Response Status <b>O</b>		
This s	ubclause is in the	e hierarchy undier 180.7 "PM	D to MDI optical	specifications".					
		tent does not contain any spe cifications. It is informative in		y explains the					
		renaming clauses and/or cha but others may be chosen.	nging the hierarc	hy. The suggested					
Suggested	Remedy								
Move	•	ut to a 2nd-level subclause af get".	iter the 180.8 (th	at is, a new 180.9) and					
•		other optical PMD clauses as	necessary, with	editorial license.					
Proposed	Response	Response Status <b>O</b>							

C/ 180	SC 180.8	P <b>422</b>	L17	# 323	C/ 180	SC 180.8.1	P 42	2	L <b>44</b>	# 325
Ran, Adee		Cisco			Ran, Adee		Cisco			
Comment T	ype TR	Comment Status X			Comment	Type <b>TR</b>	Comment Status	Х		
"DGD_r	max is the maxi	mum differential group delay t	hat the system i	is required to tolerate"	Dispers	sion slope unit i	s ps/(nm^2 km).			
of the "s	system" (but the	re are both a definition of an c way it is written makes it imp	licitly a receiver	requirement).		EE SA style gui	(4.3) requires parenthe de says a multiplicatio			e often do not follow
		s footnote appears in many cla y of specifying things.	auses in the bas	se document, it is	Suggested. Add pa	<i>Remedy</i> arentheses.				
	l be preferable t onding receiver	o separate the definition to a s	subclause, and p	possibly add a		der adding a mu	Itiplication sign.			
SuggestedF	0	opoonioalioni			Implem	nent similarly in	other optical PMD clau	ises as nec	essary, with	editorial license.
If the int	tent is not to ha	ve DGD tolerance as a receivelerate" to "that a receiver is ex			Proposed I	Response	Response Status	0		
If this is	a receiver requ	irement, add a row in Table 1	80-8 with "DGD	tolerance".	C/ 180	SC 180.8.3	P <b>42</b>	3	L <b>45</b>	# 326
Proforal	hly either way	create a new subclause in 18	0 9 with a definit	tion of DGD instead of	Ran, Adee		Cisco			
	bly, either way, it in a footnote.	create a new subclause in 18	0.9 with a definit	tion of DGD, instead of	Ran, Adee Comment		Cisco Comment Status	x		
having i Implem	it in a footnote. ent similarly in c	create a new subclause in 180 other optical PMD clauses as <i>Response Status</i> <b>0</b>			Comment There a approp	<i>Type</i> <b>TR</b> are separate MI	Comment Status DI definitions for each breakout, as described	of the PMDs		nitions do not ord "breakout" does no
having i Impleme Proposed R 7 <b>180</b> an, Adee	it in a footnote. ent similarly in o Response SC <b>180.8.1</b>	other optical PMD clauses as Response Status <b>O</b> P <b>422</b> Cisco			Comment T There a approp even a Althoug assigni DR1 (1	<i>Type</i> <b>TR</b> are separate MI priately address uppear in this cla gh 180A is men ments" (180.8.3 180.8.3.2) that, a Similarly, 180.8.	Comment Status DI definitions for each breakout, as described	of the PMDs I by Annex aphs (which e ("shall") N ess the pose	180A (the wo n are informa /IDI requirem sible use of v	ord "breakout" does no ative) of "optical lane tents for 200GBASE- wider MDIs for this
having i Impleme Proposed R C/ <b>180</b> Ran, Adee Comment T	it in a footnote. ent similarly in o Response SC <b>180.8.1</b> Type <b>E</b>	other optical PMD clauses as Response Status <b>0</b> P <b>422</b> Cisco Comment Status <b>X</b>	necessary, with	editorial license. # <u>324</u>	Comment T There a approp even a Althoug assigni DR1 (1 PMD. S	Type <b>TR</b> are separate MI priately address ppear in this cla gh 180A is men ments" (180.8.3 180.8.3.2) that, a Similarly, 180.8. 00G.	Comment Status DI definitions for each o breakout, as described ause). tioned in NOTE parage 5.1), there are normativ as written, do not addre	of the PMDs I by Annex aphs (which e ("shall") N ess the pose	180A (the wo n are informa /IDI requirem sible use of v	ord "breakout" does no ative) of "optical lane tents for 200GBASE- wider MDIs for this
having i Implem Proposed R C/ <b>180</b> Ran, Adee Comment T A range	it in a footnote. ent similarly in o Response SC <b>180.8.1</b> Spe <b>E</b> of allowed valu Remedy	other optical PMD clauses as Response Status <b>O</b> P <b>422</b> Cisco	necessary, with	editorial license. # <u>324</u>	Comment T There a approp even a Althoug assign DR1 (1 PMD. 5 and 80 Suggested In 180. Annex	Type <b>TR</b> are separate MI priately address uppear in this cla gh 180A is men ments" (180.8.3 180.8.3.2) that, a Similarly, 180.8. 0G. <i>IRemedy</i> .8.3.2, add refer 180A.	Comment Status DI definitions for each o breakout, as described ause). tioned in NOTE parage 5.1), there are normativ as written, do not addre	of the PMDs I by Annex aphs (which e ("shall") N sss the poss possible us e MDIs (180	180A (the wo n are informa /IDI requirem sible use of se of a 16-fit 0.8.3.3 and 1	ord "breakout" does no ative) of "optical lane lents for 200GBASE- wider MDIs for this ber interface for 400G 80.8.3.4) and to
having i Implem Proposed R Cl <b>180</b> Can, Adee Comment T A range Suggested F Change	it in a footnote. ent similarly in c Response SC 180.8.1 Sype E e of allowed valu Remedy e to	other optical PMD clauses as Response Status <b>0</b> P <b>422</b> Cisco Comment Status <b>X</b>	necessary, with	editorial license. # <u>324</u>	Comment T There a approp even a Althoug assign DR1 (1 PMD. S and 80 Suggested In 180. Annex In 180.	Type <b>TR</b> are separate MI priately address uppear in this cla gh 180A is men ments" (180.8.3 180.8.3.2) that, a Similarly, 180.8. 00G. <i>IRemedy</i> .8.3.2, add refer 180A. .8.3.3, add a refer	Comment Status DI definitions for each of breakout, as described ause). tioned in NOTE parage 3.1), there are normativ as written, do not addre 3.3 do not address the ences to the alternativ	of the PMDs I by Annex aphs (which e ("shall") N ess the poss possible us e MDIs (180 re MDI (180	180A (the wo n are informa /IDI requirem sible use of v se of a 16-fit 0.8.3.3 and 1 0.8.3.4) and 1	ord "breakout" does no ative) of "optical lane eents for 200GBASE- wider MDIs for this ber interface for 400G 80.8.3.4) and to o Annex 180A.
having i Implem Proposed R Cl <b>180</b> Ran, Adee Comment T A range SuggestedF	it in a footnote. ent similarly in c Response SC 180.8.1 Sype E e of allowed valu Remedy e to	other optical PMD clauses as Response Status O P422 Cisco Comment Status X les is usually indicated by "a to	necessary, with	editorial license. # <u>324</u>	Comment T There a approp even a Althoug assign DR1 (1 PMD. 5 and 80 Suggested In 180. Annex In 180. Consid to Anne	Type TR are separate MI priately address uppear in this cla gh 180A is men ments" (180.8.3 180.8.3.2) that, a Similarly, 180.8. 00G. <i>IRemedy</i> .8.3.2, add refer 180A. .8.3.3, add a ref der adding a stat ex 180A.	Comment Status DI definitions for each o breakout, as described ause). tioned in NOTE parage 3.1), there are normativ as written, do not addres 3.3 do not address the ences to the alternativ erence to the alternativ	of the PMDs I by Annex aphs (whick e ("shall") N ess the poss possible us e MDIs (180 re MDI (180 0.8.3 with t	180A (the work of the mare information of the mare information of the mare information of the mare of	ord "breakout" does no ative) of "optical lane tents for 200GBASE- wider MDIs for this ber interface for 400G 80.8.3.4) and to o Annex 180A. eakout" and a referenc

C/ 180 SC 180.8.3.1.1 P423 L 52 # 327	C/ 180 SC 180.8.3.2 P426 L41 # 330
Ran, Adee Cisco	Ran, Adee Cisco
Comment Type ER Comment Status X	Comment Type TR Comment Status X
"leftmost" and "rightmost" are standard English words (that appear in dictionaries). The hyphenated compounds are nonstandard and do not help the reader.	he The NOTE about transmitter compliance testing does not appear in any of other MDI requirements subclauses. It is not required.
Note that 180.8.3.1.3 uses the correct words.	SuggestedRemedy Delete this NOTE.
SuggestedRemedy	
Change to "leftmost" and "rightmost", here and elsewhere in this clause.	Proposed Response Response Status <b>O</b>
Implement similarly in other optical PMD clauses as necessary, with editorial license.	
Proposed Response Response Status O	
	Ran, Adee Cisco
C/ 180 SC 180.8.3.1.1 P424 L1 # 328	Comment Type TR Comment Status X
	Footnote a of Table 180-18 says "Relative to main tap".
Ran, Adee Cisco	"Main tap" is not defined anywhere, though it may be assumed that it is the largest positiv
Comment Type ER Comment Status X	value. Even with that assumption, It is unclear whether this means that the coefficient limits are
Table 180-14 is for 800GBASE-DR4.	normalized by the main tap's coefficient or that the coefficient indices are such that the
	main tap index is 0, or both.
SuggestedRemedy	
Change the reference to Table 180-13.	I suspect the answer is "both" but it is not clear from the text.
	SuggestedRemedy
Proposed Response Response Status O	Suggesteaneay
Proposed Response Response Status O	Change footnote a to read "The main tap is marked by i=0. The minimum and maximum
	Change footnote a to read "The main tap is marked by i=0. The minimum and maximum values are relative to this tap's coefficient."
C/ 180 SC 180.8.3.2 P426 L 33 # 329	Change footnote a to read "The main tap is marked by i=0. The minimum and maximum values are relative to this tap's coefficient." Implement similarly in other optical PMD clauses as necessary, with editorial license.
C/ 180 SC 180.8.3.2 P 426 L 33 # 329 Ran, Adee Cisco	Change footnote a to read "The main tap is marked by i=0. The minimum and maximum values are relative to this tap's coefficient."
Cl <b>180</b> SC <b>180.8.3.2</b> P <b>426</b> L <b>33</b> # <u>329</u> Ran, Adee Cisco Comment Type ER Comment Status X	Change footnote a to read "The main tap is marked by i=0. The minimum and maximum values are relative to this tap's coefficient." Implement similarly in other optical PMD clauses as necessary, with editorial license.
Cl 180 SC 180.8.3.2 P 426 L 33 # 329 Ran, Adee Cisco Comment Type ER Comment Status X No need for quotes in "fiber optic cabling".	Change footnote a to read "The main tap is marked by i=0. The minimum and maximum values are relative to this tap's coefficient." Implement similarly in other optical PMD clauses as necessary, with editorial license.
C/ 180 SC 180.8.3.2 P 426 L 33 # 329 Ran, Adee Cisco Comment Type ER Comment Status X	Change footnote a to read "The main tap is marked by i=0. The minimum and maximum values are relative to this tap's coefficient." Implement similarly in other optical PMD clauses as necessary, with editorial license.

Proposed Response Response Status **0** 

appears in the It is unclear w difference bet	mn of Table 180-19 e text (last paragra vhat this term mea	Cisco ment Status X 9 contains the term " uph of this subclause	.).	d this term also	result	<i>Type</i> <b>ER</b> ditor's note m	Cisco <i>Comment Status</i> akes an important observa		
The last colur appears in the It is unclear w difference bet	mn of Table 180-19 e text (last paragra vhat this term mea	9 contains the term " aph of this subclause	.).	d this term also	The ec result o	ditor's note m	akes an important observa		- 1- 1- (
appears in the It is unclear w difference bet	e text (last paragra vhat this term mea	ph of this subclause	.).	d this term also	result			ation that the equation	a fa farra da dire a arabia d
difference bet		ns DGD is defined (			withou		h that of the older method tion, the equation does no	. This is important in	formation for the reade
	nel), so it does not	ased on this definition		Γable 180-10) as a dom variable (given a		n informative		ion 190 1 is intended	to make the requilt
I suspect that but I may be		hat the DGD of the c	hannel is below	the maximum value,	consis	tent with the	on of RINxxOMA in equati measurement method defi in other optical PMD clau	ned in 52.9.6.3."	
SuggestedRemed	dy						•	-	in editorial license.
	s to calculate a me , reword as approp		on of DGD, clarif	fy what that distribution	Proposed I	Response	Response Status (		
Implement sir	milarly in other opt	ical PMD clauses as	necessary, with	editorial license.	C/ 180	SC 180.9	13 P433	3 L 37	# 335
Proposed Respor	nse Respo	onse Status <b>O</b>			Ran, Adee		Cisco		
					Comment	Type TR	Comment Status	ĸ	
/ <b>180</b> SC	180.9.10	P <b>432</b>	L <b>35</b>	# 333			and the RINxxOMA of the ue specified in Table 180-		are said to be "no
an, Adee		Cisco			Ноже	or for the ex	tinction ratio it just says "a	e aiven" which is un	clear: should it be abo
Comment Type	TR Com	ment Status X					ansmitter, or no higher that	•	
		surement is defined			stress	the receiver)	?		
affect the resi		is to be used in the	measurement of	r not (this will likely			edy assumes that ER is junities is not the case, something the case.		
		.11) it is specified ex			Suggested	IRemedy			
		I assume this should	apply to the trai		Chang	e "are as give	en in" to "are within the lim	its specified in".	
uggestedRemed	-	auglizar is to be use	d or not		Implan	nont cimilarly	in other optical DMD alou		th aditorial license
Specify wheth		equalizer is to be use			Proposed I		in other optical PMD clau		in eulonal license.
1				- Provint Province	Fioposeu i	Response	Response Status	J	
Proposed Respor		ical PMD clauses as	necessary, with	editorial license.					
ronosea Resnor	nse Respo	onse Status <b>O</b>							

C/ 180 SC 180.10.	1 P <b>433</b>	L <b>47</b>	# 336	C/ 181	SC 181.3	P 440	L <b>6</b>	# 339
Ran, Adee	Cisco			Ran, Adee		Cisco		
Comment Type ER	Comment Status X			Comment T	Type ER	Comment Status X		
Why is "IEC 62368-1	" in green? It is not expected to	become an acti	ve cross-reference.		i = 0 to n–1"			
Similarly for IEC refer	rences in 180.10.2.					ber of PMD lanes is always 4 ife harder for the reader, espe		
SuggestedRemedy				appear	s a few times ir	the clause, and in some place		
	these references to regular te	kt.		explicit	numbers are u	sed.		
Implement cimilerly in	n other optical PMD clauses as	nananany with	aditarial license	Note th	nat the "n" in 80	0GAUI-n is a different variable	e and should be	kept as is.
Proposed Response	•	necessary, with	eultonal license.	Suggested	Remedy			
Froposed Response	Response Status <b>O</b>			0	e to "where i = ( "The number o	) to 3". f parallel streams, n, is 4.".		
C/ 180 SC 180.11	P435	L <b>46</b>	# 337		5.4 change n to 5.5. in Table 18	94. 11-15, and in Table 181-16,  c	hange "n-1" to 3	
Ran, Adee	Cisco			Proposed F	,	Response Status <b>O</b>	3	
Comment Type ER	Comment Status X _3, to PMD_signal_detect_2"							
SuggestedRemedy	_o, to 1			C/ 181	SC 181.4.1	P440	L 25	# 340
Delete "to".				Ran. Adee	00 101.4.1	Cisco	L <b>Z</b> J	# 340
lasse la se a set a las ila site i	athen antical DMD alounce as		aditarial license	Comment 1	Type ER	Comment Status X		
Proposed Response	n other optical PMD clauses as	necessary, with	editorial license.		s included in thi			
Proposed Response	Response Status <b>O</b>			Suggested	Remedy			
				•••	t an active link.			
C/ 181 SC 181.1	P <b>438</b>	L <b>49</b>	# 338	Proposed F	Response	Response Status <b>O</b>		
Ran, Adee	Cisco							
Comment Type ER	Comment Status X				00 404 40	Ditto	1.00	11 0.11
169.2 is included in the	nis amendment.			C/ 181	SC 181.4.2	P 440	L <b>28</b>	# 341
SuggestedRemedy				Ran, Adee		Cisco		
Make it an active link				Comment T	<i>Type</i> <b>ER</b> s included in thi	Comment Status X		
Proposed Response	Response Status O							
				Suggested Make it	<i>Remedy</i> t an active link (	(twice)		
				Proposed F	response	Response Status 0		

		-							
C/ 181 S	C 181.7.1	P 445	L13	# 342	C/ 180	SC 180.7.1	P 463	L <b>26</b>	# 344
Ran, Adee		Cisco			Ran, Adee		Cisco		
Comment Type	TR	Comment Status X			Comment T	ype E	Comment Status X		
		tal average launch power" is ge launch power.	6 dB higher (a f	actor of 4 in power)			ution of comment #71 against "each lane". The few rows that		
total will als	so be met; if	specification redundant - if each the total fails, one of the lane	s must also fail.				es of the parameters were no de the table; for example fool		
		FR4/LR4 WDM transmitters	in Table 183-4.		Appare	ntly the whole ta	able is applicable for each lan	e. The current c	parameter naming
SuggestedRem	•						utter in the table and elsewhe		
		Add a footnote for the "each leach l		) that the maximum	lane" or	n some of the p	arameters and not on others	can raise questi	ons.
	13 U UD ADU		0.9 dB.		SuggestedF	Remedy			
Implement	similarly in 1	83.7.1 with modified values a	is necessary.				the table heading. Delete it fr	om the rows it a	ppears on.
Proposed Resp	oonse	Response Status 0			If neces	sary, add text a	bove the table to clarify.		
	<u></u>					'each lane" fron ne table).	n the names of the parameter	s elsewhere in t	this clause (e.g. the text
	C 181.9.11	P 456	L <b>39</b>	# 343	Implem	ent similarly in (	other optical PMD clauses as	necessary, with	editorial license.
Ran, Adee		Cisco			Proposed R	,	Response Status <b>0</b>	neeccoury, ma	
Comment Type	E	Comment Status X			rioposeum	esponse			
The subcla	use title inclu	udes a specific value of xx, 17	7.1, but the text	still has "xx".					
SuggestedRem	ledy								
		text to use the specific value. 9l.11 add "with xx equal to 17	.1".						

Proposed Response Response Status **0** 

/ 182 SC 182	.9.1	P 481	L <b>9</b>	# 345	C/ 182	SC 182.9.5	F	<sup>2</sup> 483	L1	# 346
an, Adee		Cisco			Ran, Adee		Cise	со		
omment Type T	R Com	ment Status X			Comment	Type TR	Comment Statu	ıs X		
Pattern 5 us defi	ned to include	.2 is PRBS31Q without the Inner FEC encodes of the Section of the	ding.	C encoding. In contrast, or pattern 5.	If this videal tr	value is used ir ansmitter wou	l error ratio of 9.6 × <sup>1</sup> stead of 4.8e-4 as T d be negative, becau get symbol error ratio	DECQ was	malization facto	or Q_t is "consistent
		o in either of these to ved for per-lane testi		EC encoding is nt test pattern definition.			something other than			•
seem like a desir	able test, but t		ormative requiren	r FEC encoding) may nent, since it does not	feasible It would	e, as test signa d make more s	nstrated by several po al achieving the maxi sense to keep the tar	mum TDE	CQ cannot be m SER as 4.8e-4	neasured (with the same Q_t)
uggestedRemedy							maximum TDECQ v of the higher SER, to			ctor corresponding to
	PMA's PRBS3	4.9.2 to include the 1Q and specify that hal. onse Status <b>O</b>			- For S - For S - 10*lo	ER=4.8e-4: Q ER=9.6e-3: Q g10(3.414/2.48	(SER*2/3)=-3.414 (as (SER*2/3)=-2.489		,	
					Suggested	Remedy				
					Chang	e the maximur	M4 SER to 4.8e-4. n TDECQ and TECC changes to the recei			
					Implem	nent similarly i	n clause 183 with mo	dified value	es as necessary	y, with editorial licen

Proposed Response Response Status **0** 

	•								
C/ 184 SC 184.5.7	P 528	L <b>8</b>	# 347	C/ 184	SC 184	.5.7.2	P 535	L19	# 349
Ran, Adee	Cisco			Ran, Adee			Cisco		
Comment Type TR Commen	t Status X			Comment T	уре тн	२	Comment Status X		
The assumed correction capability of Also, it is not stated what happens of decoder does not mark the data as stated. The error patterns that approximately approximate	when a codeword error in any way (s	is uncorrectables ince it is an ince	ner code) but it is not	capable miscorr This ca	e of detect ected. pability ex	ing code ists in th	orrected CW counter" seems ewords that are uncorrectable ne RS-FEC (and there is a "sl t assumed that a soft-decisio	, or that may nall" stateme	have been nt for ability to detect
Compare to the RS-FEC decoder s specifications for correction capabil				miscorr	ected cod	eword o	r a "not completely corrected	one?	
This is in a set of the former time for the				Note th	at there is	no infor	rmation about the assumed c	prrection cap	ability of the decoder.
This is important information for tes implementation.	sting, monitoring ar	nd analyzing th	e performance of an	is differ	ent; a mis	correcte	on of the corresponding coun d codeword is counted in the detect an uncorrectable codev	"corrected" of	
The suggested remedy is based on		line 2df 01e 0	20517 adf madified to	Suggested	Remedy				
https://www.ieee802.org/3/df/public, account for having 16 parity bits and		liss_30f_01a_2	20517.par, modified to		-	ne test a	about the ability to detect unc	orrected cod	ewords (and how it can
SuggestedRemedy					,		his clause. of this counter to account for	not being abl	e of such detection.
Add some test e.g. "The decoder is expected to correct to five bit errors and most codeword decoded correctly will contain at lea	ds with up to sever ast eight bit errors"			Proposed F	,		Response Status 0		
Or modifications of the above if nec	cessary.			C/ 176D	SC 176	D.5.3	P <b>724</b>	L <b>6</b>	# 350
If there is no consensus for additior editor's note inviting contributions ir	nal text (either the	one above or o	therwise), add an	Ran, Adee Comment T	vpe TI	2	Cisco Comment Status X		
-					for host c	-			
Froposed Response Response	e Status O			ri_pour		and at 10			
C/ 184 SC 184.5.7.1 Ran, Adee	P 535 Cisco	L 9	# 348	for R_p the req	eak, as ha	as been on the t	e model for the C2M host, th done for SNDR (now dSNDR est fixture specifications and	). This would	I remove dependence of
	t Status X			Suggestedl	Remedv	,			
This inner FEC does not have bin c errors corrected), as in 177.5.4.1.5.	ounters defined (b	inning codewo	rds by the number of	Define will crea	the minimu ate with the	e test fix	eak requirement to be relative sture used.	e to what the	reference transmitter
SuggestedRemedy							details will be provided.		
Add bin counters as in 177.5.4.1.5, decoder is expected to correct more		a larger numbe	r of bins (assuming the	Proposed F	esponse		Response Status <b>O</b>		
Proposed Response Response	Status O								

/ 176D SC 176D.5.4	P <b>725</b>	L24	# 351	C/ 176D	SC 176D.7.1	<b>2</b> PT	735	L13	# 353
an, Adee	Cisco			Ran, Adee		Cisc	0		
omment Type TR	Comment Status X			Comment 7	ype TR	Comment Status	S X		
R_peak for module out	put is TBD.			In Table	e 176D-9, the te	st channel insertion	loss for a	II module tests i	is TBD.
used for R_peak, as had dependence of the required	nce model for the C2M modulas been done for SNDR (now uirements on the test fixture s	dSNDR). This w	ould remove	nomina	I HCB IL (which	is equal to the IL al	location fo	or the module).	r the module, plus the
(in case these change	in future drafts).			The tes	t channel includ	les a mated test fixt	ure as a n	ninimum.	
	model in Table 176D-5 incluc longer one and should be us					(for test 1) should re just the mated test			on to the MCB (such of 9.75 dB).
	_peak requirement to be relat	tive to what the r	eference transmitter			(for Test 2) should b own in Figure 176D-		on the adopted	C2M die-to-die channe
will create with the test	fixture used. e details will be provided.			Suggestedl	Remedy				
roposed Response	Response Status <b>O</b>			Module	test 1 (low loss	.", change column va ) - Min: 9.25, Max: ` s) - Min - 31.5, Max:	10.25	rently TBD) as f	ollows:
/ 176D SC 176D.7.1	1 P <b>734</b>	L34	# 352	Proposed F	Response	Response Status	0		
an, Adee	Cisco								
omment Type TR	Comment Status X			C/ 176D	SC 176D.7.1	<b>2</b> PT	735	L14	# 354
	e amplitude tolerance in term			Ran, Adee		Cisc	0		
	s done in 179.9.5.2, following rential voltage, which depend			Comment 7	ype TR	Comment Status	s X		
measurement point.				In Table	e 176D-9, "Host	channel parameters	s" is TBD.		
	hange "defined as the maxin		to-peak output" to						able 176D-5. This table )" is already defined.
"defined as the maximu	um steady-state voltage (see	176D.7.4)".		Suggestedl	Remedy				
	h, change "The initial peak-to			In row '	'Host channel p	arameters", change	"Host tes	t" column from T	TBD to "Table 176D-5"
	(see 176D.7.1), with equalizative that is connected" to "The onnected".			Proposed F	Response	Response Status	0		
	able 176D-5, change the para e tolerance (v_f)" and change								
Implement with editoria	I license.								

	SC 178B.5	P <b>766</b>	L33	# 355		C/ 179B	SC 179	B.2.1	P803	L <b>39</b>	# 357	
Ran, Adee		Cisco				Ran, Adee			Cisco			
Comment	Туре Е	Comment Status X				Comment T	ype <b>T</b>	R	Comment Status X			
and Pl	MDs.	of 178B.5 are not about the 178B.4, based on its title.	protocol, but ab	out AUI components		The reference insertion loss for TP2/TP3 test fixture (HCB) is TBD. Assuming that the contributed S-parameters in sekel_3dj_02_2407 represent the						
Suggested	•					referenc	ce, Equati	ion 179l	3-1 should be a polynor lld be generated accord	mial in sqrt(f) fitted		
Proposed	Response	Response Status <b>O</b>							of 179B.2.1 (TP2 or TI t at 53.125 GHz.	P3 test fixture inse	ertion loss) can be	
						SuggestedF	Remedy					
7 178B	SC 178B.14.2	.1 P783	L10	# 356		A contri	bution wit	th furthe	r details is planned.			
Ran, Adee		Cisco				Proposed R	esponse		Response Status 0			
comment	Type <b>TR</b>	Comment Status X										
adjace	nt_remote_rts. the other interfac	AL_OK seems to apply not ju e of the device" is not defined	• -			C/ <b>179B</b> Ran, Adee Comment T	SC 179	-	P 804 Cisco Comment Status X	L <b>44</b>	# 358	
modul	e, where one inter nor the text in 17	concept of "other interface" is face is the PMD and the othe 8B.5 address this case.			al	The refe Assumi	erence ins	e contri	oss for the Cable asser buted S-parameters in 3-2 should be a polynor	sekel_3dj_02_240	7 represent the	
of the	appropriate primit is_pcs is true.	able adjacent_signal_ok who ive (as the current note expla ote_rts and adjacent_isl_read	ains) and is unde	efined when	r		d by the II		of 179B.3.1 (cable ass t at 53.125 GHz.	sembly test fixture	insertion loss) can be	
						00	,	h furthe	r details is planned.			
Redef	hatever is needed	to cover the optical module	case.						i uetalis is platitieu.			

tan, Adee       Cisco         Comment Type       T       Comment Type <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
Comment Type TR       Comment Status X         Figure 185A-4 includes the word "decisioning". This word also appears in 185A.2.3.7. It is not defined anywhere, and I think it is not part of the English language, although there are a few instances in Google search.       Comment Type T       Comment Type T       Comment Status X         The act of decisioning", all instances.       P757       L26       Team       Comment Status X         Cl 178A       SC 178A       P757       L26       Team       Comment Status X         Comment Type T       Comment Status X       Following first comment, Equation Insise PSD to the equation and its: descriptions. Please refer to slide 2-4 of the supporting document for the proposed change.         Cl 178A       SC 178A.1.7       P757       L26       Team         Suggested/Remedy       Add quantization noise       Status X       Following first comment, Equation (178A-14) should include quantization noise PSD.         Suggested/Remedy       Add a new sub-section content and text.       Proposed Response       Response Status O         Suggested/Remedy       Add a new sub-section content and text.       P754       L50       Team         Cl 178A       SC 178A.1.7       P754       L50       Team       Comment Status X         Cl 178A       SC 178A.1.7       P754       L32       Team         Cl 178A       SC 178A.1.7	CI 185A SC 185A.2.	.3 P842	L 38	# 359	C/ 178A SC 178A.	1.7 P755	L <b>2</b>	# 362
Figure 185A-4 includes the word "decisioning". This word also appears in 185A.2.3.7. It is not defined anywhere, and I think its not part of the English language, although there are a few instances in Google secret.       Following first comment, Table 178A-9 should include quantization noise parameters.         The act of deciding what symbol sigenerated by a receiver is commonly called "sticing". The suggested Remedy is based on that. An alternative term is "estimation".       Suggested/Remedy         Change to "symbol slicing", all instances.       PT57       L26       # [360]         C/ 178A       SC 178A       PT57       L26       # [360]         Shakiba, Hossein       Huawei Technologies Canada       Comment Type T       Comment Status X         Add quantization noise.       SegestedRemedy         Add quantization noise Response Status O       Comment Type T       Comment Status X         Add quantization noise Response Response Response Response Response Response Response Response Response Status O       Comment Type T       Comment Status X         Following first comment, Figure 178A-17.       P754       L50       [361]         Comment Type T       Comment Status X       Comment Status X       Comment Status X         Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed kith "quantizet".       SuggestedRemedy         C/ 178A       SC 178A.1.7       P754       L30       [364]	Ran, Adee	Cisco			Shakiba, Hossein	Huawei Te	chnologies Canada	
not defined anywhere, and I think its not part of the English language, although there are a few instances in Google search. The act of deciding what symbol is generated by a receiver is commonly called "slicing". The suggested remedy is based on that. An alternative term is "estimation". SuggestedRemedy Change to "symbol slicing", all instances. Proposed Response Response Status O 7/ 178A SC 178A P757 L26 # 360 Shakiba, Hossein Huawei Technologies Canada Comment Type T Comment Status X Add quantization noise PSD to the equation and its description to the descriptions. Ple Add quantization noise PSD to the equation and its description to the descriptions. Ple SuggestedRemedy Add quantization noise PSD to the equation and its description to the descriptions. Ple refer to slide 7 of the supporting document for the proposed change. Proposed Response Response Status O (1 178A SC 178A.1.7 P754 L30 # 361 Comment Type T Comment Status X Following first comment, Figure 178A-17. P754 L30 # 361 Comment Type T Comment Status X Following first comment, Figure 178A-7 should show addition of the quantization noise atta Following first comment, Figure 178A-7 should show addition of the quantization noise atta SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the roposed status O SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the roposed Status O SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the roposed Status O SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the roposed Status O SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed Status O SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed Status O SuggestedRemedy	Comment Type TR	Comment Status X			Comment Type T	Comment Status X		
few instances in Google search.       The suggested/Remedy         The suggested/Remedy       The suggested/Remedy         Change to "symbol slicing", all instances.       Proposed Response         Proposed Response       Response Status         C/1 178A       SC 178A.1.7       P757       L26       # 3860         C/2 178A       Comment Status       X       Following first comment, Equation (178A-1.4) should include quantization noise PSD to the equation and its description to the descriptions. Please refer to slide 2-4 of the supporting document for the proposed change.       Proposed Response       Response Status       O         C/1 178A       SC 178A.1.7       P754       L50       # 381       Add quantization noise PSD to the equation and its descriptions. Please refer to slide 5 of the supporting document for the proposed change.       Proposed Response       Response Status       O         C/1 178A       SC 178A.1.7       P754       L32       # 3664         Shakiba, Hossein       Huawei Technologies Canada       Comment Status X       Following first comment, "sampler" should be replaced with "quantizer".					Following first comm	nent, Table 178A-9 should inc	clude quantization n	oise parameters.
The act of deciding what symbol is generated by a receiver is commonly called "slicing". The suggested Remedy       Add two quantization noise parameters to the table. Please refer to slide 6 of the supporting document for the proposed change.         SuggestedRemedy       Change to "symbol slicing", all instances.       Proposed Response       Response Status 0         C/ 178A SC 178A P757       L26       360       Comment Status X       Comment Status X         C/ 178A SC 178A.       P757       L26       360         Shakiba, Hossein       Huawei Technologies Canada       Comment Status X         Comment Type T       Comment Status X       Solution noise PSD to the equation and its descriptions to the descriptions. Please refer to slides 2-4 of the supporting document for the proposed Response       Response Status 0         C/ 178A SC 178A.1.7       P754       L50       4       361         SuggestedRemedy       Comment Status X       C/       C/       178A SC 178A.1.7       P754       L30       #         C/ 178A SC 178A.1.7       P754       L50       #       361       S61       S61         SuggestedRemedy       Comment Status X       Comment Status X       Comment Status X       C       C/       178A SC 178A.1.7       P754       L32       #       364         Shakiba, Hossein       Huawei Technologies Canada       Comment Statu		· ·	English languag	ge, although there are a	SuggestedRemedy			
The suggested remedy is based on that. An alternative term is "estimation".   UtggestedRemedy   Change to "symbol slicing", all instances.   Proposed Response   Response Status O      C1 178A SC 178A P757 L26 # 360   Shakiba, Hossein   Huawei Technologies Canada   Comment Type T Comment Status X   Add quantization noise.   SuggestedRemedy   Add quantization noise.   Add quantization noise.   SuggestedRemedy   Add a new sub-section "178A.1.7 P754 L50 # 361   C) 178A SC 178A.1.7 P754 L32 # 364   C) 178A SC 178A.1.7 P754 L50 # 361   C) 178A SC 178A.1.7 P754 L32 # 364   C) 178A SC 178A.1.7 P754 L50 # 361   C) 178A SC 178A.1.7 P754 L32 # 364   C) 178A SC 178A.1.7 P754 L32 # 364   Comment Type T Comment Status X   Following first comment, Figure 178A.7 should show addition of the quantization noise after to silde 5 of the supporting document for the proposed Response Response Status O   SuggestedRemedy   Comment Type T Comment Status X   Following first comment, Figure 178A.7 should show addition of the quantization noise after   SuggestedRemedy <t< td=""><td>Tew instances in Ooo</td><td>gie search.</td><td></td><td></td><td>Add two quantizatio</td><td>n noise parameters to the tab</td><td>le. Please refer to s</td><td>lide 6 of the</td></t<>	Tew instances in Ooo	gie search.			Add two quantizatio	n noise parameters to the tab	le. Please refer to s	lide 6 of the
SuggestedRemedy       Change to "symbol slicing", all instances.       Proposed Response       Response Status       O         C/1 178A       SC 178A       P 757       L 26       # 360         C/1 178A       SC 178A       P 757       L 26       # 360         C/1 178A       SC 178A       P 757       L 26       # 360         Shakiba, Hossein       Huawei Technologies Canada       Comment Status X       Following first comment, Equation (178A-14) should include quantization noise PSD.         SuggestedRemedy       Add quantization noise.       Add quantization noise PSD to the equation and its description to the descriptions. Please refer to slides 2-4 of the supporting document for the proposed sub-section content and text.       O         Proposed Response       Response Status       O       C/ 178A       SC 178A.1.7       P 754       L 30       # 361         C/1 178A       SC 178A.1.7       P 754       L 50       # 361       Huawei Technologies Canada       Comment Type T       Comment Status X       Following first comment, "sampler" should be replaced with "quantizer".         C/1 178A       SC 178A.1.7       P 754       L 50       # 361       Sc 178A.1.7       P 754       L 32       # 364         Schakiba, Hossein       Huawei Technologies Canada       Comment Type T       Comment Type T       Comment Type T					supporting docume	nt for the proposed change.		
Change to "symbol slicing", all instances.         Droposed Response       Response Status O         Cl 178A SC 178A       P757       L26       # 360         Shakiba, Hossein       Huawei Technologies Canada       Huawei Technologies Canada       Comment, Equation (178A-14) should include quantization noise PSD.         SuggestedRemedy       Add quantization noise.       SuggestedRemedy       Add quantization noise PSD to the equation and its descriptions. Ple refer to slide 7 of the supporting document for the proposed sub-section content and text.       P754       L32       # 363         C/ 178A SC 178A.1.7       P754       L30       # 361       Stakiba, Hossein       Huawei Technologies Canada         C/ 178A SC 178A.1.7       P754       L30       # 361       Stakiba, Hossein       Huawei Technologies Canada         C/ 178A SC 178A.1.7       P754       L30       # 361       Stakiba, Hossein       Huawei Technologies Canada         C/ 178A SC 178A.1.7       P754       L30       # 361       Stakiba, Hossein       Huawei Technologies Canada         Comment Type T       Comment, Figure 178A-7.7       P754       L32       # 364         Shakiba, Hossein       Huawei Technologies Canada       Comment Type T       Comment Status X         Following first comment, Figure 178A-7       P754       L32       # 364		dy is based on that. An alternat	tive term is "estir	nation".	Proposed Response	Response Status O		
Paroposed Response       Response Status       0         Cl 178A       SC 178A       P757       L26       # 360         Shakiba, Hossein       Huawei Technologies Canada       Huawei Technologies Canada       Comment Type       T       Comment Status       X         Add quantization noise.       SuggestedRemedy       Add quantization noise to the proposed sub-section content and text.       O         Proposed Response       Response Status       0       Cl 178A       SC 178A.1.7       P754       L30       # 363         Cl 178A       SC 178A.1.7       P754       L50       # 361       Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T       Comment Status       X       Cl 178A       SC 178A.1.7       P754       L30       # 364         Shakiba, Hossein       Huawei Technologies Canada       Comment Type       T       Comment Status       X         Cl 178A       SC 178A.1.7       P754       L30       # 364         Shakiba, Hossein       Huawei Technologies Canada       Comment Type       T       Comment Status       X         Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler.       Following first comment, "sampler" should be replaced with "quantizer".         SuggestedReme	<b>00</b>							
Proposed Response       Response Status       O         21 178A       SC 178A       P 757       L 26       # 360         21 178A       SC 178A       P 757       L 26       # 360         Shakiba, Hossein       Huawei Technologies Canada       Comment Status       X         Somment Type       T       Comment Status       X         Add quantization noise.       SuggestedRemedy         Add a new sub-section "178A.1.7.6 Quantization Noise". Please refer to slides 2.4 of the supporting document for the proposed sub-section content and text.       O         Proposed Response       Response Status       O         C/ 178A       SC 178A.1.7       P 754       L 32       # 364         Shakiba, Hossein       Huawei Technologies Canada       Comment Type       T       Comment Status X         Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler.       SuggestedRemedy       Change "sampler" to "quantizer".         SuggestedRemedy       Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.       Ci 178A       SC 178A.17       P 754       L 32       # 364         SuggestedRemedy       Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.       Ci 178A       SC 178A.17		licing", all instances.			CI 179A SC 179A	17 D755	/ 10	# 262
Cli 178A       SC 178A       P757       L26       # 360         Shakiba, Hossein       Huawei Technologies Canada       Sourment Type       T       Comment Status X       Following first comment, Equation (178A-14) should include quantization noise PSD to the equation and its description to the descriptions. Please refer to slides 2-4 of the supporting document for the proposed sub-section content and text.         Suggested/Remedy       Add a new sub-section "178A.1.7.6 Quantization Noise". Please refer to slides 2-4 of the supporting document for the proposed sub-section content and text.       Proposed Response       Response Status O         Cl 178A       SC 178A.1.7       P754       L50       # 361         Shakiba, Hossein       Huawei Technologies Canada       Comment Type T       Comment Status X         Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler.       Suggested/Remedy         Suggested/Remedy       Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.       Proposed Response       Response Status O	Proposed Response	Response Status 0					-	# 303
Cl 178A       SC 178A       P757       L 26       # 360         Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T       Comment Status X         Add quantization noise.       SuggestedRemedy         Add a new sub-section "178A.1.7.6 Quantization Noise". Please refer to slides 2-4 of the supporting document for the proposed sub-section content and text.       O         Proposed Response       Response Status O       O         Cl 178A       SC 178A.1.7       P754       L 50         Shakiba, Hossein       Huawei Technologies Canada       Comment Status X         Comment Type       T       Comment Status X         Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler.       Soft Status O         SuggestedRemedy       Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed kange.       To moment for the proposed with "quantizer".         Proposed Response       Response Status O       SuggestedRemedy       SuggestedRemedy         Cl 178A       SC 178A.1.7       P754       L 30         Comment Type       T       Comment Status X       Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler.       Noise Status O         SuggestedRemedy       Add quantization noise to the fig					,		chnologies Canada	
Shakiba, Hossein       Huawei Technologies Canada         Comment Type T       Comment Status X         Add quantization noise.       SuggestedRemedy         Add a new sub-section "178A.1.7.6 Quantization Noise". Please refer to slides 2-4 of the supporting document for the proposed sub-section content and text.       O         Proposed Response       Response Status O       O         C/ 178A       SC 178A.1.7       P754       L 30       # 364         C/ 178A       SC 178A.1.7       P754       L 30       # 364         C/ 178A       SC 178A.1.7       P754       L 50       # 361         Shakiba, Hossein       Huawei Technologies Canada       Comment Type T       Comment Status X         Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler.       SuggestedRemedy       SuggestedRemedy         Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.       Proposed Response       Response Status O	C/ 178A SC 178A	P <b>75</b> 7	/ 26	# 360	51		uld include quentize	tion noise DSD
Comment Type T       Comment Status X         Add quantization noise.       SuggestedRemedy         Add a new sub-section "178A.1.7.6 Quantization Noise". Please refer to slides 2-4 of the supporting document for the proposed sub-section content and text.       O         Proposed Response       Response Status O       C/         C/       178A       SC 178A.1.7       P754       L 50       # 361         Shakiba, Hossein       Huawei Technologies Canada       Comment Type T       Comment Status X       Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler.       SuggestedRemedy       SuggestedRemedy         Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.       Proposed Response       Response Status O		-			0	neni, Equalion (176A-14) sho		alon noise PSD.
Add quantization noise. SuggestedRemedy Add a new sub-section "178A.1.7.6 Quantization Noise". Please refer to slides 2-4 of the supporting document for the proposed sub-section content and text. Proposed Response Response Status O C/ 178A SC 178A.1.7 P754 L50 # 361 C/ 178A SC 178A.1.7 P754 L32 # 364 Shakiba, Hossein Huawei Technologies Canada Comment Type T Comment Status X Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler. SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.	,		lologics Gariada			ice DCD to the equation and		descriptions. Die
SuggestedRemedy         Add a new sub-section "178A.1.7.6 Quantization Noise". Please refer to slides 2-4 of the supporting document for the proposed sub-section content and text.         Proposed Response       Response Status <b>O</b> Cl       178A       SC 178A.1.7       P754       L32       # <u>364</u> Shakiba, Hossein       Huawei Technologies Canada       Comment Type <b>T</b> Comment Status <b>X</b> Following first comment, "sampler" should be replaced with "quantizer".         SuggestedRemedy       Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.       Proposed Response       Response Status <b>O</b>					•	•		e descriptions. Pie
Add a new sub-section "178A.1.7.6 Quantization Noise". Please refer to slides 2-4 of the supporting document for the proposed sub-section content and text.         Proposed Response       Response Status         O       Image: Climate interview								
supporting document for the proposed sub-section content and text. Proposed Response Response Status O Response Status O Cl 178A SC 178A.1.7 P754 L30 # 364 Shakiba, Hossein Huawei Technologies Canada Comment Type T Comment Status X Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler. SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.	<b>00</b>	on "178A 1 7 6 Quantization No	vico" Ploaco rofo	or to clides 2.4 of the				
Proposed Response       Response Status       O         Proposed Response       Response Status       O         Schemel Status       P754       L 50       # 361         Shakiba, Hossein       Huawei Technologies Canada       Comment Type       T       Comment Status       X         Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler.       SuggestedRemedy       SuggestedRemedy         SuggestedRemedy       Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.       Proposed Response       Response Status       O								
C/       178A       SC 178A.1.7       P754       L 50       # 361         Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T       Comment Status X         Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler.       SuggestedRemedy         SuggestedRemedy       Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.       Comment for the proposed change.	Proposed Response	Response Status 0			CI 178A SC 178A.	1.7 P754	L 32	# 364
C/ 178A       SC 178A.1.7       P754       L 50       # 361         Shakiba, Hossein       Huawei Technologies Canada       Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T       Comment Status X       Solution of the quantization noise after the sampler.       Solution of the quantization noise after the sampler.       Solution of the figure. Please refer to slide 5 of the supporting document for the proposed change.       Response       Response Status       O					Shakiba, Hossein	Huawei Te	chnologies Canada	
Shakiba, Hossein       Huawei Technologies Canada         Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T         Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler.         SuggestedRemedy         Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.					Comment Type T	Comment Status X		
Comment Type <b>T</b> Comment Status <b>X</b> Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler. SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.	CI 178A SC 178A.1.	.7 P <b>754</b>	L <b>50</b>	# 361	Following first comm	nent, "sampler" should be rep	laced with "quantize	er".
Following first comment, Figure 178A-7 should show addition of the quantization noise after the sampler. SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.	Shakiba, Hossein	Huawei Techr	nologies Canada		SuggestedRemedy			
the sampler. SuggestedRemedy Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.	Comment Type T	Comment Status X			Change "sampler" to	o "quantizer".		
Add quantization noise to the figure. Please refer to slide 5 of the supporting document for the proposed change.	5	ent, Figure 178A-7 should show	v addition of the	quantization noise after	Proposed Response	Response Status O		
the proposed change.	SuggestedRemedy							
Proposed Response Response Status <b>O</b>			slide 5 of the su	pporting document for				
	Proposed Response	Response Status <b>O</b>						

C/ 178A SC 178A.1.7 P755 L15 # 365	C/ 178A SC 178A.1.9 P761 L10 # 368
Shakiba, Hossein Huawei Technologies Canada	Shakiba, Hossein Huawei Technologies Canada
Comment Type T Comment Status X	Comment Type T Comment Status X
Following first comment, "sampler" should be replaced with "quantizer".	Following first comment, Equation (178A-34) should include quantization noise PSD.
SuggestedRemedy	SuggestedRemedy
Change "sampler" to "quantizer".	Add quantization noise PSD to the equation. Please refer to slide 9 of the supporting
Proposed Response Response Status <b>O</b>	document for the proposed change.
	Proposed Response Response Status O
C/ 178A SC 178A.1.8.1 P757 L43 # 366	
Shakiba, Hossein Huawei Technologies Canada	C/ 178A SC 178A.1.10.2 P761 L51 # 369
Comment Type T Comment Status X	Shakiba, Hossein Huawei Technologies Canada
Following first comment, "sampler" should be replaced with "quantizer".	Comment Type T Comment Status X
	Following first comment, more text should be added to describe the procedure for deriving
Change "sampler" to "quantizer".	the probability density function of the quantization noise and its addition to the probability distribution function of the noise and interference.
Change "sampler" to "quantizer".	
	distribution function of the noise and interference.
Change "sampler" to "quantizer". Proposed Response Response Status O	distribution function of the noise and interference. SuggestedRemedy Add the suggested text in slides 10-11 of the supporting document before the last sentence
Change "sampler" to "quantizer". Proposed Response Response Status O C/ 178A SC 178A.1.8.1 P757 L18 # 367	distribution function of the noise and interference. SuggestedRemedy Add the suggested text in slides 10-11 of the supporting document before the last sentence of the paragraph.
Change "sampler" to "quantizer". <i>troposed Response Response Status</i> O 7/ 178A SC 178A.1.8.1 P757 L18 # <u>367</u> hakiba, Hossein Huawei Technologies Canada	distribution function of the noise and interference.  SuggestedRemedy  Add the suggested text in slides 10-11 of the supporting document before the last sentence of the paragraph.  Proposed Response Response Status O
Change "sampler" to "quantizer".         Proposed Response       Response Status         O         C/ 178A       SC 178A.1.8.1         P757       L 18         L 18       # 367         hakiba, Hossein       Huawei Technologies Canada         Comment Type       T         Comment Status       X         Following first comment, quantization noise should be added before sampler output is	distribution function of the noise and interference.         SuggestedRemedy         Add the suggested text in slides 10-11 of the supporting document before the last sentence of the paragraph.         Proposed Response       Response Status       0         Cl 178A       SC 178A.1.11       P762       L 39       # 370
Change "sampler" to "quantizer".         Proposed Response       Response Status O         Cl 178A       SC 178A.1.8.1       P757       L 18       # 367         Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T       Comment Status X         Following first comment, quantization noise should be added before sampler output is applied to the feed-forward filter in Figure 178A-9.	distribution function of the noise and interference. SuggestedRemedy Add the suggested text in slides 10-11 of the supporting document before the last sentence of the paragraph. Proposed Response Response Status O C/ 178A SC 178A.1.11 P762 L39 # 370 Shakiba, Hossein Huawei Technologies Canada
Change "sampler" to "quantizer".         Proposed Response       Response Status O         C/ 178A       SC 178A.1.8.1       P757       L 18       # 367         Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T       Comment Status X         Following first comment, quantization noise should be added before sampler output is applied to the feed-forward filter in Figure 178A-9.       SuggestedRemedy	distribution function of the noise and interference. SuggestedRemedy Add the suggested text in slides 10-11 of the supporting document before the last sentence of the paragraph. Proposed Response Response Status O Cl 178A SC 178A.1.11 P762 L39 # 370 Shakiba, Hossein Huawei Technologies Canada Comment Type T Comment Status X
Change "sampler" to "quantizer".         Proposed Response       Response Status O         Cl 178A       SC 178A.1.8.1       P757       L 18       # 367         Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T       Comment Status X         Following first comment, quantization noise should be added before sampler output is applied to the feed-forward filter in Figure 178A-9.	distribution function of the noise and interference. SuggestedRemedy Add the suggested text in slides 10-11 of the supporting document before the last sentence of the paragraph. Proposed Response Response Status O Cl 178A SC 178A.1.11 P762 L39 # 370 Shakiba, Hossein Huawei Technologies Canada Comment Type T Comment Status X
Change "sampler" to "quantizer".         Proposed Response       Response Status O         Cl 178A       SC 178A.1.8.1       P757       L18       # 367         Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T       Comment Status X         Following first comment, quantization noise should be added before sampler output is applied to the feed-forward filter in Figure 178A-9.         SuggestedRemedy       Add quantization noise to the figure. Please refer to slide 8 of the supporting document the proposed change.	distribution function of the noise and interference. SuggestedRemedy Add the suggested text in slides 10-11 of the supporting document before the last sentence of the paragraph. Proposed Response Response Status O Cl 178A SC 178A.1.11 P762 L 39 # 370 Shakiba, Hossein Huawei Technologies Canada Comment Type T Comment Status X Following first comment, quantization noise should be added before sampler output is
Change "sampler" to "quantizer".         Proposed Response       Response Status O         Cl 178A       SC 178A.1.8.1       P757       L 18       # 367         Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T       Comment Status X         Following first comment, quantization noise should be added before sampler output is applied to the feed-forward filter in Figure 178A-9.         SuggestedRemedy       Add quantization noise to the figure. Please refer to slide 8 of the supporting document the proposed change.	distribution function of the noise and interference.         SuggestedRemedy         Add the suggested text in slides 10-11 of the supporting document before the last sentence of the paragraph.         Proposed Response       Response Status         C/ 178A       SC 178A.1.11       P762       L 39       # 370         Shakiba, Hossein       Huawei Technologies Canada         Comment Type       T       Comment Status       X         Following first comment, quantization noise should be added before sampler output is applied to the feed-forward filter in Figure 178A-10.       L39       # 370

C/ 178A SC 178A.1.9	P <b>761</b>	L14	# 074	C/ 171 SC 171.1	P19	0 L8	# 374
Shakiba, Hossein	Huawei Technolo		# 371	D'Ambrosia, John		wei, U.S. Subsidiary o	
· _	Comment Status X	gies Canada		,	Comment Status		
••		omplification. Th	via in not conturad in	21	required in first entry in T		
the referenced section ?	es through receiver FFE noise a 33A.1.7.2 and needs to be ment	tioned here.	is is not captured in		required in first entry in T		
SuggestedRemedy				SuggestedRemedy			
Add sufficient text and p amplification by Hrxffe.	possibly equation to the section	to highlight dual	-Dirac jitter noise	1.6TMII is not imple	ry to optional /II table entry - The 1.6T mented, a conforming aves functionally as thou		
Proposed Response	Response Status <b>O</b>			Proposed Response	Response Status	-	n were present.
C/ 178A SC 178A.1.9	P <b>761</b>		# 372				
Shakiba, Hossein	Huawei Technolo	_ ogies Canada		C/ 184 SC 184.1.	2 P51	5 L 35	# 375
Comment Type <b>T</b>	Comment Status X	9		D'Ambrosia, John	Future	wei, U.S. Subsidiary o	of Huawei
51	n mentioned in this section. Thi	s is important be	ecause this noise	Comment Type TR	Comment Status	Х	
will also be amplified by SuggestedRemedy				Fig 184-1 does not a not the MEDIUM.	show the correct boundar	ies of a PHY. It ends	at the PMD sublayer,
	oossibly equation to the section	to include stalk	noise and highlight	SuggestedRemedy			
its amplification by Hrxf			noise and nighiight		dary of PHY to the botton	n of the PMD sublayer	· box.
Proposed Response	Response Status O			Proposed Response	Response Status	0	
	P 190	L8	# 373	C/ 174A SC 174A.	7 P66	6 <i>L</i> 8	# 376
	Futurewei, U.S. S			D'Ambrosia, John		wei, U.S. Subsidiary o	
D'Ambrosia John		subbianary of file		D'AIIIDIOSIA. JUIIII		wei. U.S. Subsidiary d	
,				,			t Huawei
Comment Type TR	Comment Status X	·1		Comment Type ER	Comment Status	x	
Comment Type <b>TR</b> 800GMII is noted as rec SuggestedRemedy	Comment Status X quired in first entry in Table 171-	-1		Comment Type ER Title does not reflec permits measureme	Comment Status t what is actually being te nt of the performance of	<b>X</b> ested - Per 174A.7.1 -	This test method
Comment Type <b>TR</b> 800GMII is noted as rec SuggestedRemedy 1. Change table entry to	Comment Status X quired in first entry in Table 171-			Comment Type ER Title does not reflec permits measureme FEC error counters	Comment Status t what is actually being te nt of the performance of	<b>X</b> ested - Per 174A.7.1 -	This test method
Comment Type <b>TR</b> 800GMII is noted as red SuggestedRemedy 1. Change table entry to 2. Add note to 800GMII 800GMII is not impleme	Comment Status X quired in first entry in Table 171- o optional table entry - The 800GMII is an ented, a conforming	n optional interfa	ce. However, if the	Comment Type ER Title does not reflec permits measureme FEC error counters SuggestedRemedy 1. Change title of Ar	Comment Status t what is actually being te nt of the performance of in the PCS.	X ssted - Per 174A.7.1 - all physical lanes in a for a PHY"	This test method PHY as a group using
800GMII is noted as rec SuggestedRemedy 1. Change table entry to 2. Add note to 800GMII 800GMII is not impleme	Comment Status X quired in first entry in Table 171- o optional table entry - The 800GMII is an	n optional interfa	ce. However, if the	Comment Type ER Title does not reflec permits measureme FEC error counters SuggestedRemedy 1. Change title of Ar 2. In Figure 174A-4,	Comment Status t what is actually being te nt of the performance of in the PCS. Annex to "Error ration tests change "receiver under change "inner FEC only	X ested - Per 174A.7.1 - all physical lanes in a for a PHY" test" to "PHY under te	This test method PHY as a group using st"

CI 174A SC 174A.6.1	P662	L <b>21</b>	# 377	C/ 179B SC 1791	B.4.1	P 806	L <b>1</b>	# 380
D'Ambrosia, John	Futurewei, U.S	. Subsidiary of H	luawei	D'Ambrosia, John		Futurewei, U.S	6. Subsidiary of I	Huawei
Comment Type ER	Comment Status X			Comment Type EF	R Comment S	Status X		
	specification as well as in figure			There doesn't app	pear to be a figure -	was it deleted?	is this an editor	ial issue?
the figures it refers to r	evel, while other parts seem to eceiver under test	be talking about	t at the PHY. And in	SuggestedRemedy				
SuggestedRemedy				add figure to 179E	3-2			
00 ,	v unless specifically testing a F	PMD		Proposed Response	Response S	tatus <b>O</b>		
Proposed Response	Response Status <b>O</b>							
				C/ 178B SC 178	B.5	P <b>767</b>	L1	# 381
7 176B SC 176B.3	P683	L12	# 378	Healey, Adam		Broadcom Inc		
Ambrosia, John		. Subsidiary of F		Comment Type T	Comment S	Status X		
Comment Type E	Comment Status X				ning" bit is in the co finition of the "Conti			ence to 178B.8.8 does
	ded to highlight the co-existen e figure uses generic language			SuggestedRemedy				
help.				Change to "The co 178B.7.2) if trainir	ontinue training bit ir	n the control fie	eld of the training	frames (see
SuggestedRemedy Add "BM-" or "SM-" as	appropriate to the PMA sublay	/er boxes in Fig	176B-4.`	Proposed Response	Response S	tatus <b>O</b>		
Proposed Response	Response Status 0							
				C/ 178B SC 178	B.14.2.1	P <b>783</b>	L <b>31</b>	# 382
	P804	L1	# 379	Healey, Adam		Broadcom Inc		
C/ 179B SC 179B.2.1		Subsidiany of L	luawei	Comment Type T	Comment S			
	Futurewei, U.S.	. Subsidially of I		The "Continue trai	ining" bit is in the co	ntrol field.		
D'Ambrosia, John	Futurewei, U.S. Comment Status X		lawer	The Continue trai				
D'Ambrosia, John Comment Type <b>ER</b>				SuggestedRemedy				
D'Ambrosia, John Comment Type <b>ER</b>	Comment Status X			SuggestedRemedy Change the last se	entence of the defin	ition of local_rt		-NOT of this variable
D'Ambrosia, John <i>Comment Type</i> <b>ER</b> There doesn't appear t	Comment Status X			SuggestedRemedy Change the last se	0	ition of local_rt in the control f		

C/ 178A	SC 178A.1.10.2	P <b>762</b>	L11	# 383	C/ 174A	SC 174A.7.1	.4 P667	L17	# 385
Healey, Adam	า	Broadcom Inc	<b>C</b> .		Healey, Ad	am	Broadcom Inc		
Comment Typ	pe <b>T</b> Comr	nent Status X			Comment	Туре Т	Comment Status X		
recomme recomme been rece SuggestedRe	r's note indicates that is endation for the amplitu endation in Annex 93A eived. The editor's note emedy the editor's note.	de step. This placel and no proposals fo	holder is consist r a different reco	ent with a similar ommendation have	option whethe proces does n that the	can be used for er or not the bloc sing. As is the c ot necessarily m e method curren	ethod can also be defined for lane-by-lane testing and woul k error ratio requirement is m ase for PMA-based measurer lean the block error ratio requ tly defined in 174A.7.1.4 woul quirement is, or is not, met.	d enable a quic et with reduced ments, failure to irement is not n	k assessment of (or no additional) post- meet the error mask net. It instead means
Proposed Rea	sponse Respo	nse Status <b>O</b>			Suggested	Remedy			
<i>Cl</i> <b>174A</b> Healey, Adam	SC <b>174A.6.1.5</b>	P665 Broadcom Inc	L <b>40</b>	# 384	measu (using subcla	rements <sup>"</sup> . The e the value of BEF use should also	clause for "Error mask test me rror mask is computed in the Radded appropriate for PCS-b note that errors on unstressed I should be minimized for the	same way as d based measurm d lanes will be (	efined in 174A.6.1.4 ients). The new incorrectly) attributed to
function s	ation defined by Equation the termination of the second seco	d in a more clear ar	nd concise way.	For example, if the	Proposed I	Response	Response Status 0		
				ns (174A-5) and (174A- , iteratively assign He(k)	C/ 179	SC 179.9.5.3	P 385	L15	# <u>386</u>
,.	of combine(He(k), Hm			, , , , , , , , , , , , , , , , , , , ,	Noujeim, L	eesa	Google		

### SuggestedRemedy

Add a subclause that defines the combination of two histograms in a functional form. Replace references to Equation (174A-5) and (174A-6), with the corresponding text regarding substitutions, with an expression the uses that new function definition.

Proposed Response Response Status **O** 

C/ 179	SC 179.9.5.3	P 385	L15	# 386
Noujeim, L	eesa	Google		

Comment Type TR Comment Status X

The adopted values for test channel insertion loss for use in the interference tolerance test were based on https://www.ieee802.org/3/dj/public/24\_11/ran\_3dj\_03\_2411.pdf. Slide 4 of this presentation has an error: the "MCB IL = 3.5 dB" should be 5.95dB so that it includes the connector allocation of 2.45dB. The current 3.5dB results in a double-counting of the host receiver connector: the test channel insertion losses in Table 179-11 are thus insufficient to appropriately stress the receiver under test. The resulting "frequency dependent attenuator" values would be too small.

#### SuggestedRemedy

Increase test channel insertion losses in Table 179-11 Test Case 2 (high loss) columns from (34.55,29.55,24.55)+/-0.5dB to (37,32,27)+/-0.5 dB.

Proposed Response Response Status 0

C/ 178A SC 178A.1.		L <b>21</b>	# 387	C/ 176D		76D.6.2	P <b>729</b>	L <b>22</b>	# 390
oujeim, Leesa	Google			Noujeim, L	eesa		Google		
Comment Type TR	Comment Status X			Comment	Туре	TR	Comment Status X		
is incorrect; C0 repres	ble 178A-5, "Single ended pack sents part of the partial host ch	nannel, while Cp	(in Table 178A-4) is				176D-5 is not associated wit nce at Port 2" is incorrect.	th the package,	so description "Single
<b>o</b>	ge capacitance at the package	-to-board interfac	ce".	Suggested	dRemed	y			
	d package capacitance at port	1" to "Single end	ded board capacitance				ackage capacitance at port 2 onnector interface (port 2)"	2" to "Single end	ded board capacitance
at the package-to-boa	u ,			Proposed	Respon	se	Response Status O		
Proposed Response	Response Status O								
				C/ 179	SC 1	79.11.7.1	P 395	L <b>27</b>	# 391
/ 178A SC 178A.1.	4.3 P751	L <b>31</b>	# 388	Noujeim, L	eesa		Google		
oujeim, Leesa	Google			Comment	Туре	TR	Comment Status X		
	Comment Status X ble 178A-5 is not associated w citance at Port 2" is incorrect.	ith the package,	so description "Single	is inco	orrect; C	0 represen	179-16 "Single ended packa ts part of the partial host cha the package-to-board interfa	annel, while Cp	
SuggestedRemedy				Suggested	Remed	V			
	d package capacitance at port connector interface (port 2)"	2" to "Single end	ded capacitance at				ackage capacitance at port 1 interface (port 1)"	1" to "Single end	ded board capacitance
Proposed Response	Response Status O			Proposed	Respon	se	Response Status O		
C/ 176D SC 176D.6.	2 P729	L16	# 389	C/ 179	SC 1	179.11.7.1	P <b>395</b>	L 33	# 392
oujeim, Leesa	Google			Noujeim, L	eesa		Google		
omment Type TR	Comment Status X			Comment	Туре	TR	Comment Status X		
is incorrect; C0 repres	ble 176D-5, "Single ended pac sents part of the partial host ch	nannel, while Cp					179-16 is not associated wit nce at Port 2" is incorrect.	h the package,	so description "Single
package capacitance	at the package-to-board interf	ace".		Suggested	Remed	y			
	d package capacitance at port	1" to "Single end	ded board capacitance				ackage capacitance at port 2 onnector interface (port 2)"	2" to "Single end	ded board capacitanc
at the package-to-boa Proposed Response	ard interface (port 1)" Response Status <b>O</b>			Proposed	Respon	se	Response Status O		
	•								

C/ 179	SC 179.11.7.1	P 395	L 33	# 393
Noujeim, L	eesa	Google		

Comment Type TR Comment Status X The capacitance C1 represents a shunt capacitance at the RF test connector ports of the

Cable Assembly Test Fixtures (cl 179B.3). This capacitance C1 may have, in prior generations, been used to compensate fthe discontinuity on the CATF between the RF coax connector and the CATF printed circuit board transmission line. Note that the measurement calibration plane is typically at the coax connector mating interface. However, in the 200Gbps/lane generation the coax connector is multiple UI long and so a lumped element compensation is ineffective. A different method should be developed to remove the reflections due to the 50 ohm RF connector and launch that sits between the partial host channel model transmission line (characteristic impedance 92.5 ohms.) and the CATF transmission line (typ 92.5 ohm board impedance between the RF test connector).

#### SuggestedRemedy

Set C1 to 0 and time-gate the RF coax connector/launch out of the TP1-TP4 cable assembly measurements.

Proposed Response F	Response Status	ο
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C/ <b>176</b>	SC 176.7.4.1	P 298	L16	# 394
Shrikhand	e, Kapil	Marvell		

### Comment Type TR Comment Status X

The definition and format of the test block error bin counters should be aligned to match the bin counters defined in the PCS clauses (see FEC codeword error bin counter definition in 175.2.5.3). The counter size is not included in 176.7.4.1, whereas bin counters in PCS/FEC clauses include counter size.

### SuggestedRemedy

Align bin counter definition format in 176.7.4.1 to the bin counter definition in 175.2.5.3, and also include counter size in the definition in 176.7.4.1.

Proposed Response Respons

Response Status 0

Cl 177	SC	177.5.4	4.1.5	P319	L <b>49</b>	# 395
Shrikhand	e, Kap	il		Marvell		
Comment	Туре	т	Com	ment Status X		
The d	ofinitio	n of the	inner fec c	odeword error hin c	ounters in 1775	4 1 5 could be edited to

The definition of the inner fec codeword error bin counters in 177.5.4.1.5 could be edited to better align to the FEC codeword error bin counter in 175.2.5.3.

#### SuggestedRemedy

Align bin counter definition format in 177.5.4.1.5 to the bin counter in 175.2.5.3.

Proposed Response Response Status **0** 

C/ 176D SC 176D.7.11	P <b>734</b>	L 33	# 396
Healey, Adam	Broadcom Inc.		

### Comment Type T Comment Status X

The amplitude tolerance of a receiver is defined to be the maximum amplitude at which the block error ratio requirement is met when in DATA mode. The test condition is stated to be preset 1 (no equalization). However, the subclause also states that the receiver "is allowed to control the transmit equalizer coefficients of its partner using the ILT protocol (see 176D.7.6) to create suitable output signal." This means that receiver can change the transmitter configuration to something other than preset 1 resulting in a signal with lower amplitude, higher equalization, or some combination thereof prior to reaching DATA mode. This calls into question why the receiver is required to meet block error ratio requirements for preset 1 in DATA mode. It would be more justifiable to require a receiver to be able to acquire training frame lock when connected to a transmitter with maximum amplitude and in the preset 1 configuration. However, this only requires reliable detection of DMEencoded (PAM-2) data at a lower effective rate. This can be expected to be a (much) lower bar than meeting block error ratio requirements in DATA mode. Note the Clause 178 and Annex 176C do not include amplitude tolerance requirements while Clause 179 and Annex 176D do. There is no obvious reason why amplitude tolerance requirements are needed in some cases but not in others since ILT is available throughout.

#### SuggestedRemedy

Remove the amplitude tolerance requirements from Clause 179 and Annex 176D. If it is deemed necessary to state that a receiver must be able to acquire training frame lock over some range of transmitter parameters, and thereby enable transmitter configuration via ILT, then the requirement should be restated in these terms and applied to all relevant clauses and annexes (including Clause 178 and Annex 176D).

Proposed Response Response Status **O** 

C/ 185 SC 185.6.1	P 550	L <b>42</b>	# 397	C/ 185 SC 185.6.	.2 P 551	L <b>46</b>	# 400
Maniloff, Eric	Ciena			Maniloff, Eric	Ciena		
Comment Type T	Comment Status X			Comment Type E	Comment Status X		
The Transmitter OSNR sp Transmitter, and requires a					n (max) is not the correct entry, 02.3ct is Polarization rotation sp		rate of change in SOP.
SuggestedRemedy				SuggestedRemedy			
Change the value of Trans	smitter OSNR from 35 dB	to 40 dB.		Change this entry to	o "Polarization rotation speed (r	nax)"	
Proposed Response F	Response Status O			Proposed Response	Response Status <b>O</b>		
C/ 185 SC 185.6.1	P550	L <b>52</b>	# 398	C/ 185 SC 185.1	2.4.1 <i>P</i> 562	L10	# 401
Maniloff, Eric	Ciena			Maniloff, Eric	Ciena		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
Tx laser frequency slew ra			d as TBD. The slew	Transmitter nomina	I center frequency is not application	able to this PMD.	
rate post acquisition shoul	d be slower than the pre-	acquisition rate.		SuggestedRemedy			
SuggestedRemedy				Delete this entry.			
Replace the TBD for Tx la	ser frequency slew rate: p	post acquisition (r	max) with 1 GHz/s.				
			,	Proposed Response	Response Status <b>O</b>		
Proposed Response F	Response Status <b>O</b>			Proposed Response	Response Status <b>O</b>		
Proposed Response F	Response Status O			-	,	/ 42	# 100
	Response Status 0	L 34	, # [399	Cl 185 SC 185.12	2.4.1 <i>P</i> 562	L13	# 402
C/ 185 SC 185.6.2		L 34	· 	<i>Cl</i> <b>185</b> <i>SC</i> <b>185.1</b> 2 Maniloff, Eric	<b>2.4.1</b> <i>P</i> <b>562</b> Ciena	L13	# 402
7/ <b>185</b> SC <b>185.6.2</b> Maniloff, Eric	P <b>551</b>	L 34	· 	Cl <b>185</b> SC <b>185.1</b> : Maniloff, Eric Comment Type <b>T</b>	2.4.1 P562 Ciena Comment Status X	-	# 402
C/ <b>185</b> SC <b>185.6.2</b> Naniloff, Eric	P <b>551</b> Ciena Comment Status X	-	, # <mark>399</mark>	Cl 185 SC 185.12 Maniloff, Eric Comment Type T Receiver nominal co	<b>2.4.1</b> <i>P</i> <b>562</b> Ciena	-	# 402
C/ 185 SC 185.6.2 Maniloff, Eric Comment Type T In order to ensure interop	P <b>551</b> Ciena Comment Status X	-	, # <mark>399</mark>	Cl 185 SC 185.12 Maniloff, Eric Comment Type T Receiver nominal co SuggestedRemedy	2.4.1 P562 Ciena Comment Status X	-	# 402
C/ 185 SC 185.6.2 Maniloff, Eric Comment Type T In order to ensure interop	P 551 Ciena <i>Comment Status</i> X with OIF 800LR, a higher	damage thresho	, # <mark>399</mark>	Cl 185 SC 185.12 Maniloff, Eric Comment Type T Receiver nominal co SuggestedRemedy Delete this entry.	2.4.1 P 562 Ciena <i>Comment Status</i> X enter frequency is not applicabl	-	# <u>402</u>
Cl <b>185</b> SC <b>185.6.2</b> Maniloff, Eric Comment Type <b>T</b> In order to ensure interop SuggestedRemedy Increase specification for F	P <b>551</b> Ciena <i>Comment Status</i> <b>X</b> with OIF 800LR, a higher Receiver Damage thresho	damage thresho	, # <mark>399</mark>	Cl 185 SC 185.12 Maniloff, Eric Comment Type T Receiver nominal co SuggestedRemedy	2.4.1 P562 Ciena Comment Status X	-	# 402
2/ 185 SC 185.6.2 Maniloff, Eric Comment Type T In order to ensure interop SuggestedRemedy Increase specification for F	P 551 Ciena <i>Comment Status</i> X with OIF 800LR, a higher	damage thresho	, # <mark>399</mark>	Cl 185 SC 185.12 Maniloff, Eric Comment Type T Receiver nominal co SuggestedRemedy Delete this entry.	2.4.1 P 562 Ciena <i>Comment Status</i> X enter frequency is not applicabl	-	# 402
Cl 185 SC 185.6.2 Maniloff, Eric Comment Type T In order to ensure interop SuggestedRemedy Increase specification for F	P <b>551</b> Ciena <i>Comment Status</i> <b>X</b> with OIF 800LR, a higher Receiver Damage thresho	damage thresho	, # <u>399</u>	Cl 185 SC 185.12 Maniloff, Eric Comment Type T Receiver nominal co SuggestedRemedy Delete this entry.	2.4.1 P 562 Ciena <i>Comment Status</i> X enter frequency is not applicabl <i>Response Status</i> O	-	# <u>402</u> # <u>403</u>
Cl 185 SC 185.6.2 Maniloff, Eric Comment Type T In order to ensure interop SuggestedRemedy Increase specification for F	P <b>551</b> Ciena <i>Comment Status</i> <b>X</b> with OIF 800LR, a higher Receiver Damage thresho	damage thresho	, # <u>399</u>	Cl 185 SC 185.12 Maniloff, Eric Comment Type T Receiver nominal co SuggestedRemedy Delete this entry. Proposed Response	2.4.1 P 562 Ciena <i>Comment Status</i> X enter frequency is not applicabl <i>Response Status</i> O	e to this PMD	
Cl 185 SC 185.6.2 Maniloff, Eric Comment Type T In order to ensure interop SuggestedRemedy Increase specification for F	P <b>551</b> Ciena <i>Comment Status</i> <b>X</b> with OIF 800LR, a higher Receiver Damage thresho	damage thresho	, # <u>399</u>	Cl 185 SC 185.12 Maniloff, Eric Comment Type T Receiver nominal co SuggestedRemedy Delete this entry. Proposed Response Cl 185 SC 185.12	2.4.1 P 562 Ciena <i>Comment Status</i> X enter frequency is not applicabl <i>Response Status</i> O 2.4.24 P 562	e to this PMD	
Cl <b>185</b> SC <b>185.6.2</b> Maniloff, Eric Comment Type <b>T</b> In order to ensure interop SuggestedRemedy Increase specification for F	P <b>551</b> Ciena <i>Comment Status</i> <b>X</b> with OIF 800LR, a higher Receiver Damage thresho	damage thresho	, # <u>399</u>	Cl 185 SC 185.1: Maniloff, Eric Comment Type T Receiver nominal co SuggestedRemedy Delete this entry. Proposed Response Cl 185 SC 185.1: Maniloff, Eric Comment Type T	2.4.1 P 562 Ciena Comment Status X enter frequency is not applicabl Response Status O 2.4.24 P 562 Ciena	e to this PMD	
2/ 185 SC 185.6.2 Maniloff, Eric Comment Type T In order to ensure interop SuggestedRemedy Increase specification for F	P <b>551</b> Ciena <i>Comment Status</i> <b>X</b> with OIF 800LR, a higher Receiver Damage thresho	damage thresho	, # <u>399</u>	Cl 185 SC 185.1: Maniloff, Eric Comment Type T Receiver nominal co SuggestedRemedy Delete this entry. Proposed Response Cl 185 SC 185.1: Maniloff, Eric Comment Type T	2.4.1 P 562 Ciena Comment Status X enter frequency is not applicabl Response Status O 2.4.24 P 562 Ciena Comment Status X	e to this PMD	
Cl <b>185</b> SC <b>185.6.2</b> Maniloff, Eric Comment Type <b>T</b> In order to ensure interop SuggestedRemedy Increase specification for F	P <b>551</b> Ciena <i>Comment Status</i> <b>X</b> with OIF 800LR, a higher Receiver Damage thresho	damage thresho	, # <u>399</u>	Cl 185 SC 185.12 Maniloff, Eric Comment Type T Receiver nominal co SuggestedRemedy Delete this entry. Proposed Response Cl 185 SC 185.12 Maniloff, Eric Comment Type T PMD receive center	2.4.1 P 562 Ciena Comment Status X enter frequency is not applicabl Response Status O 2.4.24 P 562 Ciena Comment Status X	e to this PMD	

Comment ID 403

C/ 185 SC 185.12	2.4.4 P 563	L19	# 404	C/ 185 SC 185.12	2.4.4 P 563	L <b>41</b>	# 407
Vaniloff, Eric	Ciena			Maniloff, Eric	Ciena		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
SMSR is not defined	d as a parameter in clause 185			800GBASE-LR1 is a	an unamplified PMD, ROSNR is	s not defined	
SuggestedRemedy				SuggestedRemedy			
Delete this entry.				Delete entries OM11	1 and OM13		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 185 SC 185.12	2.4.4 P 563	L <b>34</b>	# 405	C/ 185A SC 185A.2	2.4 P843	L 35	# 408
Maniloff, Eric	Ciena			Maniloff, Eric	Ciena		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
Adjustable range of optical power is not	transmit defined for clause 185				in entries for 185A.2.4.1, 185A 4.9, and 185A.2.4.10	A.2.4.2, 185A.2.4.	.3, 185A.2.4.4,
SuggestedRemedy				SuggestedRemedy			
Delete this entry.				A contribution with the	he definitions for these parame	ters will be provid	led.
Proposed Response	Response Status O			Proposed Response	Response Status O		
	2.4.4 P 563	L 36	# 406	C/ 184 SC 184.4.	1 <i>P</i> 519	L <b>5</b>	# 409
Maniloff, Eric	Ciena			Maniloff, Eric	Ciena		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
clause 185 PMDs	hannel power at maximum adju	stable power set	ting is not applicable to		to clause 172.2.5.1 for alignme ASE-LR1 only requires deskew		
SuggestedRemedy				SuggestedRemedy			
Delete this entry.					efine the requirement as a 20-b	nit deskew	
Proposed Response	Response Status O			·	·		
				Proposed Response	Response Status O		

C/ 187 SC 187.12.4	4.1 <i>P</i> 634	L10	# 410	C/ 187 SC 187.12.4.4	P <b>635</b>	L 36	# 414
Maniloff, Eric	Ciena			Maniloff, Eric	Ciena		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
Transmitter nominal c SuggestedRemedy	enter frequency is not applicat	ole to this PMD.		Minimum average channe clause 187 PMDs	el power at maximum adju	stable power set	ting is not applicable to
Delete this entry.				SuggestedRemedy			
Proposed Response	Response Status <b>O</b>			Delete this entry.			
	,			Proposed Response	Response Status <b>O</b>		
C/ 187 SC 187.12.4	4.1 <i>P</i> 634	L13	# 411		0.005		# 445
Maniloff, Eric	Ciena			C/ 187 SC 187.12.4.4	P635	L <b>41</b>	# 415
Comment Type T	Comment Status X			Maniloff, Eric	Ciena		
Receiver nominal cen	ter frequency is not applicable	to this PMD		Comment Type T	Comment Status X		
SuggestedRemedy				Clause 187 PMDs are no defined.	t amplified, receiever OSN	R and tolerance	are not applicable or
Delete this entry.				SuggestedRemedy			
Proposed Response	Response Status 0			Delete entries OM11 and	OM13		
				Proposed Response	Response Status 0		
C/ 187 SC 187.12.4	1.2 P634	L <b>40</b>	# 412				
Maniloff, Eric	Ciena			C/ 187 SC 187.12.4.6	P <b>636</b>	L <b>21</b>	# 416
Comment Type T	Comment Status X			Maniloff, Eric	Ciena		
PMD receive center fr	equency ability is not applicab	e to this PMD		Comment Type T	Comment Status X		
SuggestedRemedy				Clause 187 is not a DWD	DM PMD		
Delete this entry.				SuggestedRemedy			
Proposed Response	Response Status O			Delete entry for DWDM b	lack link		
				Proposed Response	Response Status 0		
C/ 187 SC 187.12.4		L <b>34</b>	# 413				
Maniloff, Eric	Ciena						
Comment Type <b>T</b> Adjustable range of tra optical power is not de							
SuggestedRemedy Delete this entry.	· · · · · · · · · · · · · · · · · · ·						
Boloto tino ontry.							

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: Comment ID

Comment ID 416

	C/ 177 SC 177.4.1.2 P310 L36 # 419
Vicholl, Gary Cisco Systems	Nicholl, Gary Cisco Systems
Comment Type TR Comment Status X	Comment Type T Comment Status X
Incorrect reference. Reference to "Figure 176B-2" should be "Fgure 176B-3"	I think the sentence "The data
SuggestedRemedy	stream is not altered.", although accurate, is confusing/contradictory as the first sentence in the subclause states that "The alignment marker lock function is performed as defined
Change "Figure 176B-2" to "Figure 176B-3".	176.4.3.3.", , and 176.4.3.3 by definition does alter the data stream.
Proposed Response Response Status O	I tihnk it would be better to update Figure 177-3 to show the symbol demultiplex and
	alignment marker lock functions for 200G/400G to be "off to the side" from the main data
	path, with the main data path drawn as a straight arrow from top to bottom of diagram
C/ 171 SC 171.7 P200 L41 # 418	(indicating that the main data path is passthrough and is not altered in any way).
Vicholl, Gary Cisco Systems	SuggestedRemedy
Comment Type TR Comment Status X	Delete the sentence "The data path is not altered" on line 36.
Annex 176B does not show any MMD numbering.	Update the 200GBASE-R/400GBASE-R portion of Figure 177-3 as described in the
SuggestedRemedy	comment.
Change the second sentence from: "Annex 173A and Annex 176B show additional examples of 800GXS partitioning and MMD numbering"	Proposed Response Response Status O
to: "Annex 173A shows additional examples of 800GXS partitioning and MMD numbering	C/ 176 SC 176.4.1 P277 L52 # 420
using the BM PMA. 176B.6.2 shows additional examples of 800GXS partitioning using both	Nicholl, Gary Cisco Systems
BM PMA and SM PMA".	Comment Type T Comment Status X
Change the second sentnce of the second paragrpah from:	Figure 176-2. I find the "symbol demultiplexing" block to be somewhat confusing as this
"Annex 176B shows additional examples of 1.6TXS partitioning and MMD numbering."	block is essentially a "blind 20-bit demux and slip" function, and only truly represents a symbol demux when the 20-bit demux aligns with the 20-bit symbol-pair boundaries as
to: "176B.7.2 shows additional examples of 1.6TXS partitioning"	confirmed by the subsequent 'alignment marker lock" function. It is actually the
	combination of the "blind 20-bit demux and slip" and "alignment marker lock" functions the
Change the title of 171.7 from: "800GXS and 1.6TXS partitioning example"	perform the "symbol demux".
to:	SuggestedRemedy
"800GXS and 1.6TXS partitioning examples"	I think at this level the functional block diagram would be much easier to understand if w were to combine the "symbol demultiplexing" and "Alignment marker lock" funcitonal
Make sure to underline any added text and to strikethrough any deleted text.	blocks into a single functional block called "Symbol demultiplexing" . This functional bloc
Proposed Response Response Status <b>O</b>	would internally be comprised of two blocks, "20-bit demux and slip" and "alignment mark lock". These two blocks would be described later in the subclause (perhaps with their ow block diagram).
	A presentation will be provided with more details on this proposal.
	Proposed Response Response Status <b>O</b>

Comment ID 420

C/ 177 SC 177.4.7.1	P316	L <b>6</b>	# 421	C/ 176D	SC 176D.	7.7	P <b>733</b>	L <b>45</b>	# 423
Dudek, Mike	Marvell			Dudek, Mik	е		Marvell		
Comment Type T	Comment Status X			Comment 7	ype TR	Comment	t Status X		
and as is shown with th transmitted first and is	n table 177-4 have the MSB ne vectors in Annex 177A. In shown as the left most bit in AS being transmitted in the c	n other clauses t diagrams. Figu	the MSB is also	from th measu measu	e Rx into the rement point rement point	Tx. This is OK is relatively sma and for the most	for 100GBASE- Ill due to having t critical system	-CR1 as the Rx s to get through the channel lost	he channel to get to the ss will be large. This
SuggestedRemedy						ne host output wi e a large amplitu	•	n loss channel th	e module will be
Clarify Figure 177-8 to	match the text and Annex			Suggestedl	•				
Proposed Response	Response Status <b>O</b>			Add an inputs t	additional ex o the host co	mpliance board	at TP4a shall b	pe 1000mV peak	ne host output, the to peak PAM4 signals r a similar requirement
C/ 180 SC 180.9.5	P <b>430</b>	L32	# 422	should	be added for				nplitude and 10ps
Dudek, Mike	Marvell			risetime					
Comment Type TR	Comment Status X			Proposed F	Response	Response	Status O		
, , ,	plementation and becasue th		5						
•	for the TDECQ reference equalizer should be made the sa			C/ 176B	SC 176B.	4.1	P660	L <b>51</b>	# 424

different tap allocation for the TDECQ reference equalizer for the different clauses the TDECQ reference equalizer should be made the same for the clauses 180,181,182 and 183. In D1.3 all the clauses have the same 15 FFE length and the same 3 maximum number of pre-cursor taps however the minimum number of equalizer pre-cursor taps for the TDECQ reference equalizer is TBD in table 180-18 (for 200GBASE-DR1 etc.) as it is for 800GBASE-FR4-500 in table 181-13 and 800GBASE-FR4 etc. in table 183- 14 whereas for 200GBASE-DR1-2 etc in table 182-18 the format is different with a maximum number of post cursor taps of 13 implying a minimum number of pre-cursor taps of 2.

#### SuggestedRemedy

Make the format of the tables the same. Adopt a minimum number of pre-cursor taps of 2 and maximum number of ppre-cursor taps of 3 for all the tables.

Proposed Response

Response Status 0

C/ 176B	SC 176B.4.1	P660	L <b>51</b>	# 424
Dudek, Mike		Marvell		
Comment Ty	vpe TR	Comment Status X		

The editor's notes do not appear to be correct for the AUI's in the tables. E.g. 200GAUI-8 is not clause 176C. It should only apply to the PMA's and the changes to the PMA's are not what the editor's note implies. E.G. The sublayer in the first row of Table 176B-1 should not be changed from 200GBASE-R 8:n PMA to 200GBASE-R 8:8 PMA it appears to be correct as it is:

#### SuggestedRemedy

Make the necessary changes and delete the editor's note. Also on page 663 line 35, page 665 line 3, and page 668 line 3

Proposed Response Response Status **0** 

CI 176D SC 176D.7.6	P <b>733</b>	L <b>2</b>	# 425	C/ 120B	SC 120B	P642	L1	# 427
Judek, Mike	Marvell			Dudek, Mike		Marvell		
Comment Type T	Comment Status X			Comment T	/pe TR	Comment Status X		
transmitter training. T	dvantage to not overloading t his is particularly important fo hly required to support a may eeds.	or chip to module v	where multi-rate	Annex 1 KR etc.	20B is also lis but it has the s the Phy only	nent 152 on draft D1.2 wa ted in tables 178-1 as an same problem as Annex allocates 6.7e-6 to the C2	allowed optional int 120D had with an al	erface for 200GBASE- located BER of 1e-5
	SYNC value of c(0) to 0.5+/-0.	025 in table 176D	)-8. Consider	SuggestedF	emedy			
	KR, CR and C2C as well.					802.3dj and add an equi		
Proposed Response	Response Status 0					to Clause 120D for D1.3 AUI-8 and 400GAUI-16	with Case 1 And Case 1	ase 2 and the same
				Proposed R	esponse	Response Status <b>O</b>		
C 178 SC 178.9.3.3	. P347	L <b>34</b>	# 426					
udek, Mike	Marvell			C/ 120F	SC 120F.1	P645	L <b>53</b>	# 428
The test transmitter us	Comment Status X ed in the interference tolerand			Dudek, Mike		Marvell		
The test transmitter us peak amplitude of 0.8V compliant transmitter w through the training pro <i>suggestedRemedy</i> Either change the value 0.025 (see separate co "Receiver Overload". T requirements of 178.9.	ed in the interference tolerand but it is possible that the allo ill overload the Rx making it otocol. e of C(0) in the OUT-OF_SYN mment on Chip to Module) of That states "The reciver shall 3.3 when the test transmitter	wed 1.0V peak to incapable of reduce NC condition in take or add an addition also meet the inte has an initial peak	b peak signal from a cing the amplitude ble 179-8 to 0.8 +/- al subsection called erference tolerance k to peak output	Comment T	vpe E erence to 120F vermedy so.	Marvell Comment Status X .4 should be a hot link as Response Status O	this is changed in 8	302.3dj
The test transmitter us peak amplitude of 0.8V compliant transmitter w through the training pro SuggestedRemedy Either change the value 0.025 (see separate co "Receiver Overload". T requirements of 178.9. amplitude of 1.0V and	ed in the interference tolerand but it is possible that the all vill overload the Rx making it otocol. e of C(0) in the OUT-OF_SYN mment on Chip to Module) of That states "The reciver shall 3.3 when the test transmitter the limitation on the output ar	wed 1.0V peak to incapable of reduce NC condition in take or add an additiona also meet the inte has an initial peak mplitude of the tes	b peak signal from a cing the amplitude ble 179-8 to 0.8 +/- al subsection called erference tolerance k to peak output	Comment T The refe SuggestedF Make it	vpe E erence to 120F vermedy so.	Comment Status X .4 should be a hot link as	this is changed in 8	302.3dj # 429
The test transmitter us peak amplitude of 0.8V compliant transmitter w through the training pro SuggestedRemedy Either change the value 0.025 (see separate cc "Receiver Overload". T requirements of 178.9. amplitude of 1.0V and removed. Make simil	ed in the interference tolerand but it is possible that the all ill overload the Rx making it totocol. e of C(0) in the OUT-OF_SYN mment on Chip to Module) of that states "The reciver shall 3.3 when the test transmitter the limitation on the output ar ar changes in Clause 179 an	wed 1.0V peak to incapable of reduce NC condition in take or add an additiona also meet the inte has an initial peak mplitude of the tes	b peak signal from a cing the amplitude ble 179-8 to 0.8 +/- al subsection called erference tolerance k to peak output	Comment T The refe SuggestedF Make it Proposed R	ype E rence to 120F remedy so. esponse SC <b>120F.1</b>	Comment Status X .4 should be a hot link as Response Status O		
The test transmitter us peak amplitude of 0.8V compliant transmitter w through the training pro SuggestedRemedy Either change the value 0.025 (see separate cc "Receiver Overload". T requirements of 178.9. amplitude of 1.0V and removed. Make simil	ed in the interference tolerand but it is possible that the all vill overload the Rx making it otocol. e of C(0) in the OUT-OF_SYN mment on Chip to Module) of That states "The reciver shall 3.3 when the test transmitter the limitation on the output ar	wed 1.0V peak to incapable of reduce NC condition in take or add an additiona also meet the inte has an initial peak mplitude of the tes	b peak signal from a cing the amplitude ble 179-8 to 0.8 +/- al subsection called erference tolerance k to peak output	Comment T The refe SuggestedF Make it Proposed R Cl <b>120F</b> Dudek, Mike Comment T	vpe E erence to 120F eemedy so. esponse SC 120F.1	Comment Status X .4 should be a hot link as Response Status O P646	L 9	# 429
The test transmitter us peak amplitude of 0.8V compliant transmitter w through the training pro SuggestedRemedy Either change the value 0.025 (see separate co "Receiver Overload". T requirements of 178.9. amplitude of 1.0V and	ed in the interference tolerand but it is possible that the all ill overload the Rx making it totocol. e of C(0) in the OUT-OF_SYN mment on Chip to Module) of that states "The reciver shall 3.3 when the test transmitter the limitation on the output ar ar changes in Clause 179 an	wed 1.0V peak to incapable of reduce NC condition in take or add an additiona also meet the inte has an initial peak mplitude of the tes	b peak signal from a cing the amplitude ble 179-8 to 0.8 +/- al subsection called erference tolerance k to peak output	Comment T The refe SuggestedF Make it Proposed R Cl 120F Dudek, Mike Comment T The refe rate. SuggestedF	vpe E errence to 120F errendy so. esponse SC 120F.1 vpe ER errence to 135F	Comment Status X .4 should be a hot link as Response Status O P646 Marvell Comment Status X .3.2.1 is not correct. The	L 9	# 429

C/ 174A SC 174A.6 P663	L <b>7</b>	# 430	C/ 174A SC 174A.9	P 668	L16	# 433
udek, Mike Marvell			Dudek, Mike	Marvell		
omment Type T Comment Status X			Comment Type E	Comment Status X		
174A.7.1 does not constrain the error ratio of an ISL, on	nly of the PCS	to PCS link.	Footnote a should be	applied to the xAUI-n C2C in	the bottom row a	s well as the top.
uggestedRemedy			SuggestedRemedy			
Delete this sentence roposed Response Response Status <b>O</b>				ables 174A-1 and 174A-2 Als f footnote a where it says "to r		
roposed Response Response Status <b>O</b>			Proposed Response	Response Status O		
/ 174A SC 174A.6.1.1 P663	L <b>25</b>	# 431		P668	L 16	# 424
udek, Mike Marvell					L 10	# 434
omment Type T Comment Status X			Dudek, Mike	Marvell		
It would be helpful to describe where the pre-coder is in	the testing.		Comment Type TR	Comment Status X		
	-		AUI's from Annex 12	B also need to meet the requi	irement describe	d in footnote a
uggestedRemedy	ne the title of th	he haves to"PMD	AUI's from Annex 12 SuggestedRemedy	B also need to meet the requi	irement describe	d in footnote a
uggestedRemedy In Figure 174A-1. 174A-2,174A-3 and 174A-4 chang			SuggestedRemedy	B also need to meet the requit.		
uggestedRemedy	D receive func	ction (including pre-	SuggestedRemedy			
uggestedRemedy In Figure 174A-1. 174A-2, 174A-3 and 174A-4 chang transmit function (including pre-coder if used)" and "PMI coder if used) or add a sentence at line 17 "The Transm include precoding when it is used."	D receive func	ction (including pre-	SuggestedRemedy Add "Annex 120B (i.e	. 25Gb/s per lane)" to the list i		
In Figure 174A-1. 174A-2, 174A-3 and 174A-4 chang transmit function (including pre-coder if used)" and "PMI coder if used) or add a sentence at line 17 "The Transminclude precoding when it is used."	D receive func	ction (including pre-	SuggestedRemedy Add "Annex 120B (i.e	. 25Gb/s per lane)" to the list i		
In Figure 174A-1. 174A-2, 174A-3 and 174A-4 chang transmit function (including pre-coder if used)" and "PMI coder if used) or add a sentence at line 17 "The Transminclude precoding when it is used." oposed Response Response Status <b>O</b>	D receive func mit and Receiv	ction (including pre- ve PMD functions	SuggestedRemedy Add "Annex 120B (i.e Proposed Response	. 25Gb/s per lane)" to the list i Response Status <b>O</b>	n Tables 174A-1	, 174A-2 and 174A-3
uggestedRemedy In Figure 174A-1. 174A-2, 174A-3 and 174A-4 chang transmit function (including pre-coder if used)" and "PMI coder if used) or add a sentence at line 17 "The Transminclude precoding when it is used." roposed Response Response Status <b>O</b>	D receive func	ction (including pre-	SuggestedRemedy Add "Annex 120B (i.e Proposed Response Cl 174A SC 174A.9	. 25Gb/s per lane)" to the list i Response Status <b>O</b> P <b>668</b>	n Tables 174A-1	, 174A-2 and 174A-3
uggestedRemedy         In Figure 174A-1. 174A-2 , 174A-3 and 174A-4 change transmit function (including pre-coder if used)" and "PMI coder if used) or add a sentence at line 17 "The Transminclude precoding when it is used."         roposed Response       Response Status         0       174A         174A       SC 174A.6.1.3         P664       Marvell	D receive func mit and Receiv	ction (including pre- ve PMD functions	SuggestedRemedy Add "Annex 120B (i.e Proposed Response Cl 174A SC 174A.9 Dudek, Mike Comment Type TR	. 25Gb/s per lane)" to the list i <i>Response Status</i> <b>O</b> <i>P</i> 668 Marvell	n Tables 174A-1	, 174A-2 and 174A-3 # [ <u>435</u>
In Figure 174A-1. 174A-2, 174A-3 and 174A-4 chang transmit function (including pre-coder if used)" and "PMI coder if used) or add a sentence at line 17 "The Transminclude precoding when it is used." roposed Response Response Status O 174A SC 174A.6.1.3 P664 udek, Mike Marvell	D receive func mit and Receiv	ction (including pre- ve PMD functions	SuggestedRemedy Add "Annex 120B (i.e Proposed Response Cl 174A SC 174A.9 Dudek, Mike Comment Type TR As stated in the edito targets. There is no	. 25Gb/s per lane)" to the list i Response Status <b>O</b> P668 Marvell Comment Status <b>X</b>	n Tables 174A-1 <i>L</i> <b>43</b> et far exceeds the ER allocation in th	# 4 <u>35</u> # e sum of random BER
uggestedRemedy         In Figure 174A-1. 174A-2 , 174A-3 and 174A-4 change transmit function (including pre-coder if used)" and "PMI coder if used) or add a sentence at line 17 "The Transminclude precoding when it is used."         roposed Response       Response Status         In Figure 174A-1. 174A-2 , 174A-3 and 174A-4 change transmit function (including pre-coder if used)" and "PMI coder if used)" and "PMI coder if used) or add a sentence at line 17 "The Transminclude precoding when it is used."         roposed Response       Response Status       O         In T4A       SC 174A.6.1.3       P664         udek, Mike       Marvell         omment Type       T       Comment Status         Wrong equation reference       X	D receive func mit and Receiv	ction (including pre- ve PMD functions	SuggestedRemedy Add "Annex 120B (i.e Proposed Response Cl 174A SC 174A.9 Dudek, Mike Comment Type TR As stated in the edito targets. There is no	. 25Gb/s per lane)" to the list i Response Status O P668 Marvell Comment Status X r's note the random BER targe need to constrain the C2C BE	n Tables 174A-1 <i>L</i> <b>43</b> et far exceeds the ER allocation in th	# 435
uggestedRemedy         In Figure 174A-1. 174A-2 , 174A-3 and 174A-4 change transmit function (including pre-coder if used)" and "PMI coder if used) or add a sentence at line 17 "The Transminclude precoding when it is used."         roposed Response       Response Status         V       174A       SC 174A.6.1.3         P 664       Marvell         romment Type       T       Comment Status	D receive func mit and Receiv	ction (including pre- ve PMD functions	SuggestedRemedy Add "Annex 120B (i.e Proposed Response Cl 174A SC 174A.9 Dudek, Mike Comment Type TR As stated in the edito targets. There is no (particularly for the lo SuggestedRemedy	. 25Gb/s per lane)" to the list i Response Status O P668 Marvell Comment Status X r's note the random BER targe need to constrain the C2C BE	n Tables 174A-1 <i>L</i> <b>43</b> et far exceeds the ER allocation in th storical BER is 0.	# 435 # 435 e sum of random BER he extender to 0.08e-4 1 e-4).

	P701	L47	# 436	C/ 176C	SC 176C.4.3	P703	L23	# 439
C/ 176C SC 176C.3 Dudek, Mike	Marvell	L#1	# 430	Dudek. Mike	50 1700.4.3	F 703 Marvell	L <b>Z</b> 3	# 439
,	nent Status X			Comment Typ	e T	Comment Status X		
It might be confusing that "any P		uxed PMA's				ommon-mode return lo	ss is TBD. It is likel	v that similar
SuggestedRemedy						Il be used for C2C as for		y that official
replace "PMA" with "SM-PMA" ju	ist in these contone	es where it is talk	ing about "any	SuggestedRe	medy			
PMA". E.g. change "The PMA a				Change T	BD to 3.25 the	e same as for KR.		
200GAUI-1, m:2 PMA for			e en esifie d'in Olevies	Proposed Res	ponse	Response Status 0		
400GAUI-2, m:4 PMA for 800GA 176." to "The PMA above the 200								
1, m:2 SM-PMA for	·	,						"
400GAUI-2, m:4 SM-PMA for 800 Clause 176.	UGAUI-4, and m:8	SM-PMA for 1.6T	AUI-8, as specified in		SC 176C.4.3.2		L <b>4</b>	# 440
	nse Status <b>O</b>			Dudek, Mike		Marvell		
Response Response				Comment Typ		Comment Status X		
						lower than the C2M targ v as that for C2M (p=-7		
C/ 176C SC 176C.4.1	P <b>702</b>	L <b>43</b>	# 437	C2C BER		v as that for Ozivi (p=-7		iequale even for life
Dudek, Mike	Marvell			SuggestedRe	nedy			
Comment Type T Comm	nent Status X			Remove t	he exception.			
		tions in 163A 3.1	and 163.4.1 which	Proposed Res	nonse	Response Status <b>O</b>		
The procedure in Annex 163A ca refer to calculations in Annex 93/				FTOPOSEU RES	poneo			
refer to calculations in Annex 93/					pence			
refer to calculations in Annex 93/	A that are different in Annex 163A but	from those for 200	DG in Annex 178A.	C/ 176C	SC 176C.4.3.	5 P705	L 51	# 441
refer to calculations in Annex 93/ SuggestedRemedy Change to "using the procedure i in Annex 93A with those of Anne	A that are different in Annex 163A but	from those for 200	DG in Annex 178A.	C/ <b>176C</b>	SC 176C.4.3.	5 P <b>705</b> Marvell	L 51	# 441
refer to calculations in Annex 93/ SuggestedRemedy Change to "using the procedure i in Annex 93A with those of Anne	A that are different in Annex 163A but x 178A"	from those for 200	DG in Annex 178A.	C/ <b>176C</b> Dudek, Mike Comment Typ	SC 176C.4.3.9	5 P <b>705</b> Marvell Comment Status <b>X</b>		
refer to calculations in Annex 93/ SuggestedRemedy Change to "using the procedure i in Annex 93A with those of Anne Proposed Response Respon	A that are different in Annex 163A but ex 178A" nse Status <b>O</b>	from those for 200	0G in Annex 178A. M related calculations	Cl <b>176C</b> Dudek, Mike Comment Typ The lengti	SC 176C.4.3.9 e TR n of the reflect	5 P <b>705</b> Marvell	BD. It should be long	g enough to include
refer to calculations in Annex 93/ SuggestedRemedy Change to "using the procedure i in Annex 93A with those of Anne Proposed Response Respon	A that are different in Annex 163A but x 178A"	from those for 200	DG in Annex 178A.	Cl <b>176C</b> Dudek, Mike Comment Typ The lengtl reflections	SC 176C.4.3.4 e TR n of the reflect	5 P705 Marvell Comment Status X ion signal is listed as T	BD. It should be lone	g enough to include onent and, as similar
refer to calculations in Annex 93/ SuggestedRemedy Change to "using the procedure i in Annex 93A with those of Anne Proposed Response Respon C/ 176C SC 176C.4.3 Dudek, Mike	A that are different in Annex 163A but ex 178A" nse Status O P703 Marvell	from those for 200	0G in Annex 178A. M related calculations	Cl <b>176C</b> Dudek, Mike Comment Typ The lengtl reflections	EC <b>176C.4.3</b> . <b>E TR</b> an of the reflect a from the end ants are expected	5 P705 Marvell Comment Status X ion signal is listed as T of the longest path exp	BD. It should be lone	g enough to include onent and, as similar
refer to calculations in Annex 93/ SuggestedRemedy Change to "using the procedure i in Annex 93A with those of Anne Proposed Response Respon Cl 176C SC 176C.4.3 Dudek, Mike Comment Type T Comm	A that are different in Annex 163A but ex 178A" nse Status O P703 Marvell nent Status X	from those for 200 replacing the COI	0G in Annex 178A. M related calculations # [438	Cl 176C Dudek, Mike Comment Typ The length reflections componer SuggestedRet	EC <b>176C.4.3.</b> The <b>TR</b> The of the reflect from the end the are expected medy	5 P705 Marvell Comment Status X ion signal is listed as T of the longest path exp	BD. It should be long ected within a comp R, the same value as	g enough to include onent and, as similar
refer to calculations in Annex 93/ SuggestedRemedy Change to "using the procedure i in Annex 93A with those of Anne Proposed Response Respon C/ 176C SC 176C.4.3 Dudek, Mike	A that are different in Annex 163A but ex 178A" nse Status O P703 Marvell nent Status X	from those for 200 replacing the COI	0G in Annex 178A. M related calculations # [438	Cl 176C Dudek, Mike Comment Typ The length reflections componer SuggestedRet	SC 176C.4.3.4 e TR n of the reflect from the end nts are expect medy BD to 400. R	5 P705 Marvell Comment Status X ion signal is listed as T of the longest path exp ed to be used as for KR	BD. It should be long ected within a comp R, the same value as	g enough to include onent and, as simila
refer to calculations in Annex 93/ SuggestedRemedy Change to "using the procedure i in Annex 93A with those of Anne Proposed Response Respon Cl 176C SC 176C.4.3 Dudek, Mike Comment Type T Comm The Signal to AC common-mode will be used for C2C as for KR	A that are different in Annex 163A but ex 178A" nse Status O P703 Marvell nent Status X	from those for 200 replacing the COI	0G in Annex 178A. M related calculations # [438	Cl <b>176C</b> Dudek, Mike Comment Typ The lengtl reflections componer SuggestedRet Change T	SC 176C.4.3.4 e TR n of the reflect from the end nts are expect medy BD to 400. R	5 P705 Marvell Comment Status X ion signal is listed as T of the longest path exp ed to be used as for KR	BD. It should be long ected within a comp R, the same value as	g enough to include onent and, as similar
refer to calculations in Annex 93/ SuggestedRemedy Change to "using the procedure i in Annex 93A with those of Anne Proposed Response Respon Cl 176C SC 176C.4.3 Dudek, Mike Comment Type T Comm The Signal to AC common-mode	A that are different in Annex 163A but ex 178A" nse Status O P703 Marvell nent Status X e ratio is TBD. It is	from those for 200 replacing the COI <i>L</i> 23 likely that similar	DG in Annex 178A. M related calculations # 438 performance devices	Cl <b>176C</b> Dudek, Mike Comment Typ The lengtl reflections componer SuggestedRet Change T	SC 176C.4.3.4 e TR n of the reflect from the end nts are expect medy BD to 400. R	5 P705 Marvell Comment Status X ion signal is listed as T of the longest path exp ed to be used as for KR	BD. It should be long ected within a comp R, the same value as	g enough to include onent and, as similar

CI 176C SC 176C.4.3.5 P705	L <b>43</b>	# 442	CI 176C SC 176C.4	.4.4.2 P708	L 33	# 445
Dudek, Mike Marvell			Dudek, Mike	Marvell		
Comment Type T Comment Status X			Comment Type T	Comment Status	ζ.	
The procedure in 163A.3.2.2 refer to calculations in An for 200G in Annex 178A.	nnex 93A that a	re different from those	The target BER is ap now used for KR.	pprox 1e-5 so a lower prol	bability than 1e-3 sho	uld be used. J4u03 is
SuggestedRemedy			SuggestedRemedy			
Change to "using the procedure in Annex 163A.3.2.2 I	1 0		Use J4u03 and equa	tions 178-2 and 178-3.		
calculations in Annex 93A with those of Annex 178A" 706 line 35	Make the same	e change on page	Proposed Response	Response Status	)	
Proposed Response Response Status O						
			C/ 176C SC 176C.4	.4.4.2 P708	L <b>31</b>	# 446
C/ 176C SC 176C.4.4.3 P706	L <b>47</b>	# 443	Dudek, Mike	Marvell		
Dudek, Mike Marvell			Comment Type T	Comment Status	(	
Comment Type T Comment Status X				BD. This should be relate ve to 50 make Np=50	ed to the reference eq	qualizer length. As the
The differential-mode to common-mode return loss is		mportant parameter				
for system performance, but proceeding to working an	roup ballot will b	e delaved if values	SuggestedRemedy			
for system performance, but proceeding to working grant are not available. Without further evidence that it cou			SuggestedRemedy Change Np to 50			
are not available. Without further evidence that it coufrom 100G.			,	Response Status <b>(</b>	)	
are not available. Without further evidence that it cou from 100G. SuggestedRemedy	uld be relaxed it	should be scaled	Change Np to 50	Response Status (	)	
are not available. Without further evidence that it cou from 100G. SuggestedRemedy Use 25-0.36f from 0.05 to 27.8GHz and 15 from 27.80	uld be relaxed it GHz to 60GHz.	should be scaled	Change Np to 50 Proposed Response			# 117
are not available. Without further evidence that it cou from 100G. SuggestedRemedy Use 25-0.36f from 0.05 to 27.8GHz and 15 from 27.80 note on page 707 line 26 to still encourage further wor	uld be relaxed it GHz to 60GHz.	should be scaled	Change Np to 50 Proposed Response Cl 178 SC 178.9.3	3.3.3 P347		# 447
are not available. Without further evidence that it cou from 100G. SuggestedRemedy Use 25-0.36f from 0.05 to 27.8GHz and 15 from 27.80	uld be relaxed it GHz to 60GHz.	should be scaled	Change Np to 50 Proposed Response Cl 178 SC 178.9.3 Dudek, Mike	3.3.3 P347 Marvell	L 14	# 447
are not available. Without further evidence that it cou from 100G. SuggestedRemedy Use 25-0.36f from 0.05 to 27.8GHz and 15 from 27.80 note on page 707 line 26 to still encourage further wor	uld be relaxed it GHz to 60GHz.	should be scaled	Change Np to 50 Proposed Response Cl 178 SC 178.9.3 Dudek, Mike Comment Type T	3.3.3 P 347 Marvell Comment Status >	L 14	
are not available. Without further evidence that it cou from 100G. SuggestedRemedy Use 25-0.36f from 0.05 to 27.8GHz and 15 from 27.80 note on page 707 line 26 to still encourage further wor	uld be relaxed it GHz to 60GHz.	should be scaled	Change Np to 50 Proposed Response Cl 178 SC 178.9.3 Dudek, Mike Comment Type T Scrambled idle cann	3.3.3 P347 Marvell	L 14	
are not available. Without further evidence that it cou from 100G. SuggestedRemedy Use 25-0.36f from 0.05 to 27.8GHz and 15 from 27.8C note on page 707 line 26 to still encourage further wor Proposed Response Response Status <b>O</b>	uld be relaxed it GHz to 60GHz. rk.	should be scaled Modify the editor's	Change Np to 50 Proposed Response Cl 178 SC 178.9.3 Dudek, Mike Comment Type T Scrambled idle cann SuggestedRemedy	3.3.3 P 347 Marvell <i>Comment Status</i> ) ot be used with the test m	L 14 Chethod defined in 174.	A.6.1
are not available. Without further evidence that it cou from 100G. SuggestedRemedy Use 25-0.36f from 0.05 to 27.8GHz and 15 from 27.80 note on page 707 line 26 to still encourage further wor Proposed Response Response Status O CI 176C SC 176C.4.4.1 P707 Dudek, Mike Marvell	uld be relaxed it GHz to 60GHz. rk.	should be scaled Modify the editor's	Change Np to 50 Proposed Response Cl 178 SC 178.9.3 Dudek, Mike Comment Type T Scrambled idle cann SuggestedRemedy Change to "method of	3.3.3 P 347 Marvell Comment Status >	L 14 Chethod defined in 174.	A.6.1
are not available. Without further evidence that it cou from 100G. SuggestedRemedy Use 25-0.36f from 0.05 to 27.8GHz and 15 from 27.80 note on page 707 line 26 to still encourage further wor Proposed Response Response Status O C/ 176C SC 176C.4.4.1 P707 Dudek, Mike Marvell	uld be relaxed it GHz to 60GHz. rk.	should be scaled Modify the editor's # 444	Change Np to 50 Proposed Response Cl 178 SC 178.9.3 Dudek, Mike Comment Type T Scrambled idle cann SuggestedRemedy Change to "method of page 709 line 21	6.3.3 P347 Marvell <i>Comment Status</i> ) ot be used with the test m defined in 174A.6.1 or a7	L14 A hethod defined in 174, 4A7.1. Make the san	A.6.1
are not available. Without further evidence that it cour from 100G. SuggestedRemedy Use 25-0.36f from 0.05 to 27.8GHz and 15 from 27.8C note on page 707 line 26 to still encourage further wor Proposed Response Response Status O Cl 176C SC 176C.4.4.1 P707 Dudek, Mike Marvell Comment Type T Comment Status X The noise source emulates non-equalizable distortions	uld be relaxed it GHz to 60GHz. rk.	should be scaled Modify the editor's # 444	Change Np to 50 Proposed Response Cl 178 SC 178.9.3 Dudek, Mike Comment Type T Scrambled idle cann SuggestedRemedy Change to "method of	3.3.3 P 347 Marvell <i>Comment Status</i> ) ot be used with the test m	L14 A hethod defined in 174, 4A7.1. Make the san	A.6.1
are not available. Without further evidence that it cou from 100G. SuggestedRemedy Use 25-0.36f from 0.05 to 27.8GHz and 15 from 27.80 note on page 707 line 26 to still encourage further wor Proposed Response Response Status O C/ 176C SC 176C.4.4.1 P707 Dudek, Mike Marvell Comment Type T Comment Status X	uld be relaxed it GHz to 60GHz. rk.	should be scaled Modify the editor's # 444	Change Np to 50 Proposed Response Cl 178 SC 178.9.3 Dudek, Mike Comment Type T Scrambled idle cann SuggestedRemedy Change to "method of page 709 line 21	6.3.3 P347 Marvell <i>Comment Status</i> ) ot be used with the test m defined in 174A.6.1 or a7	L14 A hethod defined in 174, 4A7.1. Make the san	A.6.1

C/ 176C SC 176C.4.4	.4.3 P709	L <b>31</b>	# 448	CI 176 SC 176.8	P 299	L <b>4</b>	# 451
Dudek, Mike	Marvell			Shrikhande, Kapil	Marvell		
Comment Type T	Comment Status X			Comment Type TR	Comment Status X		
	many TBDs. The minimum			In Table 176-7, compl	ete the TBD delay values for	the SM-PMAs.	
	and classB (as it is for KR). xpect. The Maximum should			SuggestedRemedy			
minus the package los	s. 32dB has been adopted for	or C2M with a mo		A presentation will be	provided for the TBD values i	n Table 176-7.	
requirement, so sugges	st 30dB as a reasonable valu	ie for C2C		Proposed Response	Response Status 0		
SuggestedRemedy							
	s 9.5 min 10.5max as they we smax and class B values 19.5			C/ 176 SC 176.9	Daga	1.00	# 450
Table 176-5 clarify that	t the Maximum channel inser				P 299	L23	# 452
make the value 30dB.				Shrikhande, Kapil	Marvell		
Proposed Response	Response Status 0			Comment Type TR	Comment Status X	of the CNA DNAA	1
					se 176.9 on Skew Constraints		۱.
C/ 176C SC 176C.5.2	P <b>713</b>	L33	# 449	SuggestedRemedy	provided to undete the Olivery	oonotrointo cuba	
Dudek, Mike	Marvell			·	provided to update the Skew	constraints subc	lause
,				Proposed Response	Response Status O		
Comment Type T	Comment Status X	ed by a frequency	v domain limit line and	Proposed Response	Response Status O		
Comment Type <b>T</b> The Channel performa the equivalent equatior	Comment Status X nce cannot easily be describe ns and figure have been remo	oved from Clause		Proposed ResponseCl 179B SC 179B.2.		L 39	# 453
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t	Comment Status X nce cannot easily be describe	oved from Clause		C/ 179B SC 179B.2. Sekel, Steve			# [453
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t	Comment Status X nce cannot easily be describ as and figure have been remo the critical requirement for the	oved from Clause		Cl <b>179B</b> SC <b>179B.2</b> . Sekel, Steve Comment Type <b>T</b>	I P803		# 453
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t SuggestedRemedy Delete equation 176C-	Comment Status X nce cannot easily be describe and figure have been remo the critical requirement for the 4 and figure 176C-6.	oved from Clause		C/ 179B SC 179B.2. Sekel, Steve	I P803 Wilder Techn		# 453
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t SuggestedRemedy	Comment Status X nce cannot easily be describ as and figure have been remo the critical requirement for the	oved from Clause		Cl <b>179B</b> SC <b>179B.2.</b> Sekel, Steve Comment Type <b>T</b> ILdd is listed as TBD SuggestedRemedy	I P803 Wilder Techn Comment Status X	ologies	
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t SuggestedRemedy Delete equation 176C- Proposed Response	Comment Status X nce cannot easily be describe as and figure have been remo the critical requirement for the 4 and figure 176C-6. Response Status O	oved from Clause e channel.	178. The COM	Cl <b>179B</b> SC <b>179B.2.</b> Sekel, Steve Comment Type <b>T</b> ILdd is listed as TBD SuggestedRemedy	I P803 Wilder Techn Comment Status X	ologies	
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t SuggestedRemedy Delete equation 176C- Proposed Response Cl 176C SC 176C.5.3	Comment Status X nce cannot easily be describ as and figure have been remo the critical requirement for the 4 and figure 176C-6. Response Status O P714	oved from Clause		Cl <b>179B</b> SC <b>179B.2.</b> Sekel, Steve Comment Type <b>T</b> ILdd is listed as TBD SuggestedRemedy Proposed values and	I P803 Wilder Techn Comment Status X	ologies	
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t SuggestedRemedy Delete equation 176C Proposed Response Cl <b>176C</b> SC <b>176C.5.3</b> Dudek, Mike	Comment Status X nce cannot easily be describe as and figure have been remo- the critical requirement for the 4 and figure 176C-6. Response Status O P714 Marvell	oved from Clause e channel.	178. The COM	Cl <b>179B</b> SC <b>179B.2.</b> Sekel, Steve Comment Type <b>T</b> ILdd is listed as TBD SuggestedRemedy Proposed values and during January 802.3	I P803 Wilder Techn <i>Comment Status</i> X equations will be presented w Interim meeting.	ologies	
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t SuggestedRemedy Delete equation 176C- Proposed Response Cl <b>176C</b> SC <b>176C.5.3</b> Dudek, Mike Comment Type <b>T</b>	Comment Status X nce cannot easily be describe as and figure have been remo the critical requirement for the 4 and figure 176C-6. Response Status O P714 Marvell Comment Status X	byed from Clause e channel.	# 450	Cl <b>179B</b> SC <b>179B.2.</b> Sekel, Steve Comment Type <b>T</b> ILdd is listed as TBD SuggestedRemedy Proposed values and during January 802.3	I P803 Wilder Techn <i>Comment Status</i> X equations will be presented w Interim meeting.	ologies	
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t SuggestedRemedy Delete equation 176C Proposed Response Cl <b>176C</b> SC <b>176C.5.3</b> Dudek, Mike Comment Type <b>T</b> The ERL requirement i for C2C with its more s	Comment Status X nce cannot easily be describe as and figure have been remo- the critical requirement for the 4 and figure 176C-6. Response Status O P714 Marvell	L 34	# 450 # 450	Cl <b>179B</b> SC <b>179B.2.</b> Sekel, Steve Comment Type <b>T</b> ILdd is listed as TBD SuggestedRemedy Proposed values and during January 802.3	I P803 Wilder Techn <i>Comment Status</i> X equations will be presented w Interim meeting.	ologies	
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t SuggestedRemedy Delete equation 176C- Proposed Response Cl <b>176C</b> SC <b>176C.5.3</b> Dudek, Mike Comment Type <b>T</b> The ERL requirement i for C2C with its more s should be more stringe	Comment Status X nce cannot easily be describ as and figure have been remo the critical requirement for the 4 and figure 176C-6. Response Status O P714 Marvell Comment Status X s TBD. Reflections from the tringent BER requirement that	L 34	# 450 # 450	Cl <b>179B</b> SC <b>179B.2.</b> Sekel, Steve Comment Type <b>T</b> ILdd is listed as TBD SuggestedRemedy Proposed values and during January 802.3	I P803 Wilder Techn <i>Comment Status</i> X equations will be presented w Interim meeting.	ologies	
Comment Type <b>T</b> The Channel performa the equivalent equatior specification provides t SuggestedRemedy Delete equation 176C Proposed Response Cl <b>176C</b> SC <b>176C.5.3</b> Dudek, Mike Comment Type <b>T</b> The ERL requirement i for C2C with its more s	Comment Status X nce cannot easily be describ as and figure have been remo the critical requirement for the 4 and figure 176C-6. Response Status O P714 Marvell Comment Status X s TBD. Reflections from the tringent BER requirement that ent than the KR value of 11dE	L 34	# 450 # 450	Cl <b>179B</b> SC <b>179B.2.</b> Sekel, Steve Comment Type <b>T</b> ILdd is listed as TBD SuggestedRemedy Proposed values and during January 802.3	I P803 Wilder Techn <i>Comment Status</i> X equations will be presented w Interim meeting.	ologies	

C/ 179B SC 179B.4.6	P811	L43	# 454	C/ 179 SC 179	9.9.4.1.3	P 377	L 20	# 457
Sekel, Steve	Wilder Techno	ologies		Simms, William		NVIDIA		
Comment Type T C	Comment Status X	5		Comment Type T	R Comment S	Status X		
Values for MDFEXT, MDNE	EXT and Total ICN are lis	ted as TBD		Table 179-8 - Co	efficient initial conditi	ons contains a	a larger jump bet	ween preset 1 and 2
SuggestedRemedy					from 1 to 0.5. Prese may not be desirable	t3 uses C(0) of	f 0.75 but also a	dds additional
Proposed values along with	n measuremnt data will be	e presented in co	ontribuion during 802.3	SuggestedRemedy	may not be desirable			
Interim meeting				,	preset with C(0)set to	0.75 and all o	other tans set to	0 (+/-0 025)
Proposed Response Re	esponse Status O			Proposed Response				0 (17-0.020)
				Proposed Response	Response S	tatus <b>O</b>		
C/ 179B SC 179B.(new)	P <b>811</b>	L <b>54</b>	# 455					
Sekel, Steve	Wilder Techno	ologies		C/ 179A SC 179		P <b>799</b>	L16	# 458
Comment Type T C	Comment Status X			Kocsis, Sam		Amphenol		
Reference impedance is 92			being 100 ohm	Comment Type T				
differential (E0 ohm single c								
			the test environment	ILddCA,min is gr	eater than ILddCH,m	in		
which does not exist in appl	lication environment. Lal	b measurements	suggest the location	ILddCA,min is gr SuggestedRemedy	eater than ILddCH,m	in		
	lication environment. Lal ntinunity will change som	o measurements e compliance me	suggest the location easurement results.	SuggestedRemedy	eater than ILddCH,m		hat testing the IL	_ddCH,min condition
which does not exist in appl (in time delay) of this discor The location within the test	lication environment. Lal ntinunity will change som	o measurements e compliance me	suggest the location easurement results.	SuggestedRemedy Add an Editor's r	note to provide contex	t and explain t	hat testing the IL	_ddCH,min condition
which does not exist in appl (in time delay) of this discor The location within the test 179B.4	lication environment. Lal ntinunity will change som fixtures should be specifi with proposed location of	b measurements e compliance me ied in a new sub- 92.5 to 100 ohm	suggest the location easurement results. clause in section discontinunity within	SuggestedRemedy Add an Editor's r not possible.	note to provide contex	t and explain t	hat testing the IL	_ddCH,min condition
which does not exist in appl (in time delay) of this discor The location within the test 179B.4 SuggestedRemedy Problem will be presented v the compliance test fixtures	lication environment. Lal ntinunity will change som fixtures should be specifi with proposed location of	b measurements e compliance me ied in a new sub- 92.5 to 100 ohm	suggest the location easurement results. clause in section discontinunity within	SuggestedRemedy Add an Editor's r not possible.	note to provide contex Response S	t and explain t	hat testing the IL	_ddCH,min condition
which does not exist in appl (in time delay) of this discor The location within the test 179B.4 SuggestedRemedy Problem will be presented v the compliance test fixtures	lication environment. Lal ntinunity will change som fixtures should be specifi with proposed location of s will be presented in cont	b measurements e compliance me ied in a new sub- 92.5 to 100 ohm	suggest the location easurement results. clause in section discontinunity within	SuggestedRemedy Add an Editor's r not possible. Proposed Response	note to provide contex Response S 9B.4.1	t and explain t tatus <b>O</b>	Ĵ	
which does not exist in appl (in time delay) of this discor The location within the test 179B.4 SuggestedRemedy Problem will be presented v the compliance test fixtures Proposed Response Re	lication environment. Lal ntinunity will change som fixtures should be specifi with proposed location of s will be presented in cont sesponse Status <b>O</b>	b measurements e compliance me ied in a new sub- 92.5 to 100 ohm tribuion during 80	suggest the location easurement results. clause in section discontinunity within 02.3 interim meeting	SuggestedRemedy Add an Editor's r not possible. Proposed Response	note to provide contex Response S 98.4.1	t and explain t tatus <b>O</b> P <b>805</b> Amphenol	Ĵ	
which does not exist in appl (in time delay) of this discor The location within the test 179B.4 SuggestedRemedy Problem will be presented v the compliance test fixtures Proposed Response Re Cl 179 SC 179.11.7.1	lication environment. Lal ntinunity will change som fixtures should be specifi with proposed location of s will be presented in cont response Status <b>O</b> P396	b measurements e compliance me ied in a new sub- 92.5 to 100 ohm	suggest the location easurement results. clause in section discontinunity within	SuggestedRemedy Add an Editor's r not possible. Proposed Response Cl 179B SC 179 Kocsis, Sam Comment Type T	note to provide contex Response S 9B.4.1	t and explain t tatus <b>O</b> P <b>805</b> Amphenol	Ĵ	
which does not exist in appl (in time delay) of this discor The location within the test 179B.4 SuggestedRemedy Problem will be presented v the compliance test fixtures Proposed Response Respo	lication environment. Lal ntinunity will change som fixtures should be specifi with proposed location of s will be presented in cont response Status <b>O</b> <b>P396</b> NVIDIA	b measurements e compliance me ied in a new sub- 92.5 to 100 ohm tribuion during 80	suggest the location easurement results. clause in section discontinunity within 02.3 interim meeting	SuggestedRemedy Add an Editor's r not possible. Proposed Response Cl 179B SC 179 Kocsis, Sam Comment Type T	note to provide contex Response S 9B.4.1 Comment S	t and explain t tatus <b>O</b> P805 Amphenol	Ĵ	
which does not exist in appl (in time delay) of this discor The location within the test 179B.4 SuggestedRemedy Problem will be presented v the compliance test fixtures Proposed Response Re Cl 179 SC 179.11.7.1 Simms, William Comment Type T C	lication environment. Lal ntinunity will change som fixtures should be specifi with proposed location of s will be presented in cont esponse Status <b>O</b> <b>P396</b> NVIDIA Comment Status <b>X</b>	b measurements e compliance me ied in a new sub- 92.5 to 100 ohm tribuion during 80	suggest the location easurement results. clause in section discontinunity within 02.3 interim meeting # 456	SuggestedRemedy Add an Editor's r not possible. Proposed Response Cl 179B SC 179 Kocsis, Sam Comment Type T The value for the SuggestedRemedy	note to provide contex Response S 9B.4.1 Comment S	t and explain t tatus <b>O</b> P805 Amphenol Status <b>X</b>	L48	
which does not exist in appl (in time delay) of this discor The location within the test 179B.4 SuggestedRemedy Problem will be presented v the compliance test fixtures Proposed Response Respo	lication environment. Lal ntinunity will change som fixtures should be specifi with proposed location of s will be presented in cont response Status <b>O</b> <b>P396</b> NVIDIA Comment Status <b>X</b> neter values uses a value	b measurements e compliance me ied in a new sub- 92.5 to 100 ohm tribuion during 80 <i>L</i> 44 of 0.54 for the m	suggest the location easurement results. clause in section discontinunity within 02.3 interim meeting # 456	SuggestedRemedy Add an Editor's r not possible. Proposed Response Cl 179B SC 179 Kocsis, Sam Comment Type T The value for the SuggestedRemedy	PB.4.1 Comment S FOM_ILD is TBD th value as proposed	tt and explain t tatus <b>O</b> P <b>805</b> Amphenol Status <b>X</b> in kocsis_3dj_t	L48	
which does not exist in appl (in time delay) of this discor The location within the test 179B.4 SuggestedRemedy Problem will be presented w the compliance test fixtures Proposed Response Re Cl 179 SC 179.11.7.1 Simms, William Comment Type T C Table 179-18 - COM param versus the preset2 which has	lication environment. Lal ntinunity will change som fixtures should be specifi with proposed location of s will be presented in cont response Status <b>O</b> <b>P396</b> NVIDIA Comment Status <b>X</b> neter values uses a value	b measurements e compliance me ied in a new sub- 92.5 to 100 ohm tribuion during 80 <i>L</i> 44 of 0.54 for the m	suggest the location easurement results. clause in section discontinunity within 02.3 interim meeting # 456	SuggestedRemedy Add an Editor's r not possible. Proposed Response Cl 179B SC 179 Kocsis, Sam Comment Type T The value for the SuggestedRemedy Replace TBD wit	note to provide contex <i>Response S</i> <b>9B.4.1</b> Comment S ₽ FOM_ILD is TBD th value as proposed	tt and explain t tatus <b>O</b> P <b>805</b> Amphenol Status <b>X</b> in kocsis_3dj_t	L48	·
which does not exist in appl (in time delay) of this discor The location within the test 179B.4 SuggestedRemedy Problem will be presented w the compliance test fixtures Proposed Response Re C/ 179 SC 179.11.7.1 Simms, William Comment Type T C Table 179-18 - COM param versus the preset2 which has presets?	lication environment. Lal ntinunity will change som fixtures should be specifi with proposed location of s will be presented in cont response Status <b>O</b> P <b>396</b> NVIDIA Comment Status <b>X</b> neter values uses a value as 0.50 (-0.025) from tabl	b measurements e compliance me ied in a new sub- 92.5 to 100 ohm tribuion during 80 <i>L</i> 44 of 0.54 for the m	suggest the location easurement results. clause in section discontinunity within 02.3 interim meeting # 456	SuggestedRemedy Add an Editor's r not possible. Proposed Response Cl 179B SC 179 Kocsis, Sam Comment Type T The value for the SuggestedRemedy Replace TBD wit	note to provide contex <i>Response S</i> <b>9B.4.1</b> Comment S ₽ FOM_ILD is TBD th value as proposed	tt and explain t tatus <b>O</b> P <b>805</b> Amphenol Status <b>X</b> in kocsis_3dj_t	L48	

C/ 179B SC 179B.4.2	P <b>807</b>	L <b>4</b>	# 460	C/ 179B SC 179B.4.2	P807	L10	# 463
Kocsis, Sam	Amphenol			Kocsis, Sam	Amphenol		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
The table reference for SuggestedRemedy	unspecifiied MTF ERL param	neters is TBD.		The value for Z_t, the sing reference is not listed	gled-ended source termina	tion resistiance f	or TDR and ERL
Replace TBD with "Tat	le 179-18"			SuggestedRemedy			
Proposed Response	Response Status <b>O</b>			Add Z_t to Table179B-1, with the second seco	with a proposed value of 46	6.25ohm, to aligr	n with ERL reference
				Proposed Response	Response Status <b>O</b>		
CI 179B SC 179B.4.6	P <b>811</b>	L <b>8</b>	# 461				
Kocsis, Sam	Amphenol			C/ 179B SC 179B.4.4	P809	L 33	# 464
Comment Type T	Comment Status X			Kocsis, Sam	Amphenol		
The value for SFP224	MTF ICN is TBD			Comment Type T	Comment Status X		
SuggestedRemedy				71	ncorrect (for the range 12.8)	9GHz to 35GHz)	
Replace TBD with valu	e as proposed in kocsis_3dj_	01_2501		SuggestedRemedy			
Proposed Response	Response Status <b>O</b>			Replace equation with "17	7 95 0 225*f"		
				Proposed Response	Response Status O		
C/ 179B SC 179B.4.6	P <b>811</b>	L <b>43</b>	# 462				
Kocsis, Sam	Amphenol			C/ 179B SC 179B.4.6	P810	L <b>45</b>	# 465
Comment Type T	Comment Status X			Kocsis, Sam	Amphenol		
The value(s) for Multi-la	ane MTF ICN is TBD.			Comment Type T	Comment Status X		
SuggestedRemedy				<i>,</i>	Table 179B-2 is inconsister	nt with Table 179	B-4.
Replace TBD with valu	e as proposed in kocsis_3dj_	01_2501		SuggestedRemedy			
Proposed Response	Response Status 0			Update Tht to 4.25ps			
	-						

Comment ID 465

	-								
C/ 179 SC 179.11.7	7.1 P394	L <b>27</b>	# 466	C/ 174A	SC 174A.5	P668	L14	# 469	
Kocsis, Sam	Amphenol			Maki, Jeffery		Juniper Networl	ks		
Comment Type T	Comment Status X			Comment Ty	pe T	Comment Status X			
the same value as the	nel model parameters unneces previous specification general		COM perofmance. C0 is		ficant digit co	ntire PHY" is wrong or at least h mpared to other cases in the dr			
SuggestedRemedy	20 and C1 noromators			SuggestedRe	emedv				
	C0 and C1 parameters			Change "Frame loss ratio for entire PHY" to 6.2x10^-11.					
Proposed Response	Response Status O			Proposed Re	sponse	Response Status <b>O</b>			
C/ 174A SC 174A.9	P668	L12	# 467						
laki, Jeffery	Juniper Netwo	rks			SC 174A.5	P668	L17	# 470	
Comment Type T	Comment Status X			Maki, Jeffery		Juniper Network	ks		
	entire PHY" is wrong or at least	has been unne	ecessarily truncated to	Comment Ty		Comment Status X			
ratio for entire PHY" is	n turn, the "Codeword error s wrong and the "BER for entire	PHY (BERtota	al)" is wrong.	one signi		ntire PHY" is wrong or at least h turn, the "Codeword error	has been unne	ecessarily truncated to	
SuggestedRemedy						wiong.			
	atio for entire PHY" to 6.2x10^ o 1.50x10^-11, and change "BE			0	Codeword er	ror ratio for entire PHY" to 1.50	x10^-11.		
Proposed Response	Response Status <b>O</b>			Proposed Re	sponse	Response Status O			
	Daaa	1.00	// 100	C/ 174A	SC 174A.5	P 668	L 19	# 471	
/ 174A SC 174A.9	P 668	L <b>29</b>	# 468	Maki, Jeffery		Juniper Networl	ks		
laki, Jeffery	Juniper Netwo	rks		Comment Ty	pe T	Comment Status X			
Comment Type <b>T</b>	Comment Status X			"Frame lo	oss ratio for e	ntire PHY" is wrong or at least h	has been unne	ecessarily truncated to	
	entire PHY" is wrong or at least turn, the "Codeword error	has been unne	ecessarily truncated to	one signi	ficant digit. In	turn, the "BER for entire PHY (	(BERtotal)" is v	wrong.	
	wrong and the "BER for entire	PHY (BERtota	al)" is wrong.	SuggestedRe	emedy				
uggestedRemedy	<b>3</b>	(	,	Change '	BER for entir	e PHY (BERtotal)" to 2.93x10^-	-4.		
Change "Frame loss r	atio for entire PHY" to 6.2x10^ o 1.50x10^-11, and change "BE			Proposed Re	sponse	Response Status <b>O</b>			
Proposed Response	Response Status O								

C/ 184	SC 184.4.1	P <b>519</b>	L <b>5</b>	# 472	C/ 185	SC 185.6.1	P 551
Kota, Kishor	re	Marvell Semicon	ductor		Kota, Kish	ore	Marvell Semicon

#### Comment Type TR Comment Status X

Lane deskew has been changed from the adopted baseline requirement of RS(544,514) symbol alignment to a full RS(544,514) codeword alignment without any supporting data. Symbol alignment (instead of codeword alignment) for 800GBASE-LR1 has been studied in the past and determined to have a burst tolerance which exceeds the 400ZR burst tolerance of 1024b which is considered acceptable for this interface. Specifically, lane alignment lock in D1.3 refers to 172.2.5.1 for deskew. However, 172.2.5.1 specifies a complete de-skew of all the PCS lanes. The permutation function only requires a partial deskew of 20-bits (i.e. dual 10-bit RS symbol boundaries). A full deskew places an unreasonable burden on implementations which are targeted at low-power applications

#### SuggestedRemedy

Change the text to reflect the intention from the baseline adopted at Berlin meeting and ensure consistency with the 20-bit alignment adopted in the OIF 800LR IA. Supporting presentation to be provided.

Proposed Response	Response Status	0
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Cl 184	SC 184.5.7.2	P <b>528</b>	L <b>20</b>	# 473
Kota, Kisho	ore	Marvell Semic	onductor	

Comment Type TR Comment Status X

This section defines an uncorrected codeword as "An uncorrected FEC codeword is a codeword that contains errors that were not corrected, including FEC codewords that may have been miscorrected or not completely corrected". However, codewords which are miscorrected are not detectable as uncorrected codewords.

#### SuggestedRemedy

Update the definition to something similar to: "An uncorrected FEC codeword is a codeword with errors which are detectable at the decoder, but the decoder is unable to correct."

Proposed Response

Response Status 0

C/ 185	SC 185.6.1		P 551	L <b>5</b>	# 474
Kota, Kisł	nore		Marvell Semi	conductor	
-	_	_			

### Comment Type **TR** Comment Status **X**

"Tx clock phase noise: phase noise mask frequency (max)" is an ill-defined spec in table 185.5. Unlike previous coherent interfaces 800GBASE-LR1 clocking on the line interface is derived from the upper layers. Without a clear spec on the phase noise of those layers, it is not possible to design to the specified phase noise mask at the 800GBASE-LR1 interface. Section 185.5.13 is also related to this spec.

#### SuggestedRemedy

No equivalent transmit clock phase noise mask specification is present in any of the prior IMDD clauses such as Clause 124. Recommendation is to delete this spec. Presentation to be provided.

Proposed Response Response Status **O** 

C/ 185A	SC 185A.2.3	P <b>842</b>	L <b>22</b>	# 475
Kota, Kishore	9	Marvell S	Semiconductor	
Comment Ty	pe TR	Comment Status X		

The offline digital signal processing described in this section is missing a post-equalizer after the "carrier phase recovery" block which is required to allow relaxation of the TX I-Q skew to the 0.75ps spec in Table 185-5.

### SuggestedRemedy

Add post-equalizer stage to the digital signal processing. Presentation to be provided.

Proposed Response Response Status **O** 

C/ 175	SC 175.2.4.	6.2 P 266	L <b>2</b>	# 476
Opsasnick	k, Eugene	Broadcom		
Comment	Type E	Comment Status X		
Туро і	in variable name	e tx_acrambled_f1_i<256:0>.		
_				

SuggestedRemedy

Change tx\_acrambled\_f1\_i<256:0> to be tx\_scrambled\_f1\_i<256:0>.

Proposed Response Response Status O

C/ 176 SC 176.1.	4 P271	L 33	# 477	C/ 176	SC 176.3	P <b>275</b>	L6	# 479
psasnick, Eugene	Broadcom			Opsasnick	k, Eugene	Broadcom	า	
comment Type E	Comment Status X			Comment	Туре Е	Comment Status X		
	ay alternating PCSLs by two RS- by two RS-FEC codewords"	FEC codewords	s …" to be "Delay of	Verb t Suggestee	tense is not corr	ect.		
uggestedRemedy Change: "Delay alternating P To:	CSLs by two RS-FEC codeword	s"		Chang to: "	ge: ", the m:n ., the m:n PMAs	PMAs sends n parallel syr send n parallel symbol st same page 275,		
	PCSLs by two RS-FEC codewo	ords".				PMAs sends m parallel sy	mbol streams"	
Proposed Response	Response Status 0					send m parallel symbol s		
C/ 176 SC 176.1.		L <b>42</b>	# 478	Chanų to: "	ge: ", the n:n l ., the n:n PMAs	same page 275, PMAs sends n parallel syn send n parallel symbol str		
psasnick, Eugene	Broadcom			Proposed	Response	Response Status <b>O</b>		
comment Type E	Comment Status X	"//	40 about the undeted					
to "(PMALs)".	defined term, the parenthetical	(lanes) on line	43 should be updated	C/ 176	SC 176.2	P <b>273</b>	L <b>47</b>	# 480
uggestedRemedy				Opsasnick	k, Eugene	Broadcom	ı	
Replace "(lanes)"				Comment	Type E	Comment Status X		
with: (PMALs). Proposed Response	Response Status <b>O</b>			*.requ block	lest and *.indica diagrams which	e 273, at the start of four tion primitives, it would be illustrate the interface prir ent the reader to their posit	good to add a cross nitives and their pos	s-reference to the PM
				Suggestee	dRemedy			
				Sugge	est adding a sing	gle sentence paragraph pri e PMA service interfaces a		
				Proposed	Response	Response Status 0		

		-							
C/ 176	SC 176.4	P <b>276</b>	L16	# 481	C/ 176	SC 176.4.4.2	.1 P289	L 25	# 483
)psasnick,	, Eugene	Broadcom			Opsasnick	, Eugene	Broadcom		
omment	Туре Е	Comment Status X			Comment	Туре Т	Comment Status X		
lanes".		efined term, it can be used to r	eplace term "21	2.5 Gb/s interface	SYME		estart_lock_demux <y> states TART state, but is is actually 76 10</y>		
lggested	Remedy					0 0	70-10.		
lanes f With: "Note t	that m equals th for each xBASE that m equals th	ne number of PCSLs and n equ -R m:n PMA." ne number of PCSLs and n equ			restar To: "B	ge: "Boolean varia t …"	able that is set to true in the S hat is set to true in the SYMB s to restart"		_
xBASE	-R m:n PMA."				Proposed	Response	Response Status 0		
Similar	r updates can b	e made thoughout Clause 176	where there are	e referecnes to "212.5					
	nterface lanes" : Response	such as line 51 on page 292.			C/ 176	SC 176.4.4.2	.3 P290	L <b>4</b>	# 484
oposeu i	Response	Response Status <b>O</b>			Opsasnick		Broadcom		
					Comment		Comment Status X		
176	SC 176.4.1	P 276	L <b>21</b>	# 482		51	equal to 10 (ten) should be wr	itten out.	
osasnick,	, Eugene	Broadcom			Suggested	dRemedy			
omment	Type E	Comment Status X			••	•	nment marker intervals."		
Should	add "PMAL" te	erm when referring to the appro	priate PMA inte	erface lanes.			ment marker intervals."		
uggested	Remedy				Proposed	Response	Response Status 0		
Replac	ce:								
		plexing) direction, the m:n PMA ymbols from m PCSL input lan			C/ 176	SC 176.4.4.3	P 292	L17	# 485
		anes at the service interface be			Opsasnick	. Eugene	Broadcom		
		ion, the m:n PMAs perform a rent input lanes at the service in			Comment		Comment Status X		
output		e PMA service interface."			In Fig	ure 176-10, the s	tate transitions out of SLIP_C TART do not have a conditior		
With: "In the	transmit (multir	plexing) direction, the m:n PMA	s perform a trai	nsmit function which	Suggested	dRemedy			
		symbols from m PCSL input lan				-	nsitions should be labelled "U	CT".	
(demul RS-FE	Itiplexing) direct C symbols from	utput lanes at the service interf ion, the m:n PMAs perform a r n n PMAL input lanes at the ser ward the PMA service interface	eceive function vice interface b	which demultiplexes	Proposed	Response	Response Status 0		
Similar	r updates can b	e made to 176.5.1.							

Proposed Response Response Status **O** 

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

C/ 177	SC 177.2	P 307	L 47	# 486	C/ 177	SC 177.5.4	P319	L10	# 488
Opsasnick	, Eugene	Broadcom			Opsasnick	, Eugene	Broadcom		
Comment	Type E	Comment Status X			Comment	Туре Е	Comment Status X		
	indicates an opti be preferred.	ional function. In the context c	f the first parag	raph in 177.2, "might"		n tense of "PAM4	symbols".		
Chang		BASE-R Inner FEC, the client ASE-R 1:1 SM-PMA."	sublayer may l	be the 200GBASE-R		e: " for each re for each receive	ceived PAM4 symbols." ed PAM4 symbol."		
	or the 200GBAS	E-R Inner FEC, the client subl R 1·1 SM-PMA "	ayer might be a	200GBASE-R 8:1 SM-	Proposed i	Response	Response Status <b>O</b>		
And m		iges to each sentence in the fil <i>Response Status</i> <b>O</b>	st paragraph of	177.2.	Cl <b>177</b> Opsasnick Comment The plu	Туре Е	P <b>311</b> Broadcom <i>Comment Status</i> <b>X</b> uls be PCSLs, not PCSLS.	L10	# 489
/ 177	SC 177.2	P308	L <b>22</b>	# 487	Suggested	•			
•	, Eugene	Broadcom			-		CSLs" (lowercase s).		
Comment	51	Comment Status X			Proposed I	Response	Response Status O		
IN_PR unspe is OK the rx_ The sa	ROGRESS or FA cified.". This imp or READY. How _symbol paramet	r to Table 177-1 states "When IL, the corresponding rx_symb blies the rx_symbol parameters ever, the READY value is set v ter also be invalid/unspecified for the SINGNAL_OK descrip	ol parameters of s have valid valid vhen "all_synce when the SIGN.	on all lanes are ues when SINGAL_OK ed==false". Shouldn't AL_OK is READY?		<i>Type</i> <b>TR</b> ect cross-reference	P <b>311</b> Broadcom <i>Comment Status</i> <b>X</b> se.	L <b>50</b>	# 490
	dRemedy				Suggested		to "Figuro 177 4"		
Suggested		lue of SIGNAL_OK is IN_PRO	GRESS or FAII	L, the corresponding	Proposed I	0	to "Figure 177-4". <i>Response Status</i> <b>0</b>		
Chang		on all lanes are unspecified."			,	,			
rx_syn To: "W	nbol parameters			FAIL, the		·			

C/ 177	SC 177.5.1.1	P <b>317</b>	L <b>43</b>	# 491	Cl 177	SC 177.6.2.1	P320	L33	# 493
Opsasnick	, Eugene	Broadcom			Opsasnick	k, Eugene	Broadcom		
Comment	Туре Е	Comment Status X			Comment	Туре Е	Comment Status X		
		entences of the third paragrap			The w	ord AND should l	be lowercase.		
		e of "ILT" in this clause and it	should be spelle	ed out.	Suggestee	dRemedy			
Suggested	-						t flows AND the Inner FEC	n	
	est changing:	ed by the management variab	le mr. training d	anable (see 178B 15)		-	s and the Inner FEC"		
the pro	ecoding state on tabled by the mana	the link partner transmitter is agement variable mr_training_ et by management."	requested using	the ILT function. If ILT	Proposed	Response	Response Status <b>O</b>		
		st by management.			CI 177	SC 177.6.2.1	P <b>320</b>	L <b>34</b>	# 494
to: "If inte	er-sublaver link tra	aining (ILT) is enabled by the	control variable	mr training enable	Opsasnick	k, Eugene	Broadcom		
(see 1	78B.15), precodii	ng of the received data is ena	bled at the link	partner (transmitter) as	Comment	Туре Е	Comment Status X		
		rer using ILT. If ILT is disabled by a management entity."	d, then the prece	oding of data at the		ve comma used l ound sentance.	between phrases when it is no	t separating in	dependent clauses of a
roposed	Response	Response Status <b>O</b>			Suggester	dRemedy			
							d, and is set to false" I is set to false"		
C/ 177	SC 177.6.2.1	P <b>320</b>	L <b>43</b>	# 492	Proposed	Response	Response Status <b>O</b>		
Opsasnick	, Eugene	Broadcom							
Comment	Type ER	Comment Status X							
The w	ord boolean shou	Id be capitalized.			C/ 177	SC 177.6.2.1	P 321	L <b>22</b>	# 495
uggested	dRemedy				Opsasnick	k, Eugene	Broadcom		
Repla	ce "boolean" with	"Boolean" in the definition of	these variables		Comment	Type TR	Comment Status X		
	FEC_sync_status	S				araible "valid_cw" list of variable de	' is used in the state diagram i finitions.	n Figure 177-1	0 and should be added
slip_d test_c					Suggestee	dRemedy			
test_fa					Add d	efinition of "valid_	_cw" to list of variable definition	ns in 177.6.2.1	in alphabetical order.
Proposed	Response	Response Status 0			Sugar	ested definition (tr	o make CAL_SYNDROME fun	ction obsolete)	
					"A bo	olean variable tha	is zero and is set to false othe	ated syndrome	
					Proposed	Response	Response Status 0		
							-		

C/ 177 SC 177.6	5.2.2 P 321	L 26	# 496	C/ 177	SC 177.6.2.1	P 321	L13	# 497		
Opsasnick, Eugene	Broadcom			Opsasnick,	, Eugene	Broadcom				
Comment Type T	Comment Status X			Comment	Type <b>TR</b>	Comment Status X				
functions and from	SYNDROME is not necessary the state diagram in figure 177	7-10. The variable "				low <x> should be made mo o, a range of values should</x>				
0,1	e defined to make this function	not necessary.		Suggested	Remedy					
_	IDROME from the list of function ates CW_CHECK_1, CW_CHE			"A Boo	lean variable that	definition of sync_flow <x> fro tt is set to true when the rec Inner FEC, where x = 0:7"</x>		he correct boundary of		
Also remove refere counters in 177.6.2 Change the definiti	v_cnt and valid_cw_cnt	an inne		it is set to true after the inne re x=0 to 7 and represents a ow numbering."						
	er of invalid Inner FEC codewor function. A codeword is consid		•	Proposed I	Response	Response Status O				
	er of invalid inner FEC codewor	rds received within	a period of 150	C/ 177	SC 177.6.2.1	P 321	L <b>2</b>	# 498		
codewords."				Opsasnick,	Eugene	Broadcom				
"Counts the numbe CAL_SYNDROME to:	function. A codeword is consid	of valid_cw_cnt from: valid Inner FEC codewords based on the output of ction. A codeword is considered valid when its syndrome is zero." valid inner FEC codewords within a period of 50 codewords." <i>Response Status</i> <b>O</b>				Comment Type       T       Comment Status       X         The definition of the variable restart_inner_fec_sync states it is set by a process, but it now be set by two separate processes.       SuggestedRemedy         SuggestedRemedy       Replace: "A Boolean variable that is set by the Inner FEC synchronization process				
Proposed Response	Response Status O			ropiac			FEC Synchroni	zation process"		

Proposed Response Response Status **0** 

C/177 SC	C 177.6.3	P 321	L 53	# 499	C/ 177	SC 177.5.2		P <b>318</b>	L <b>4</b>	# 501
Dpsasnick, Eug	ene	Broadcom			Opsasnick	, Eugene		Broadcom		
Comment Type	TR	Comment Status X			Comment	Type ER	Comment	Status X		
		t that the 8 self-sync process			Extra "	"to" and missing	verb in second	sentence of 1	77.5.2.	
and spell ou required on		synchronization. Should also a	state that 8 such	n processes are	Suggestea	dRemedy				
	EC sublaye	er shall implement eight self-s oundaries of the Inner FEC c		as shown in Figure	and the to: "The e	eight codewords en removed bef	ore the received	d data is proces d (see 177.4.7)	ssed." are used to frai	me to the data stream me the data stream and
to:					Pronosed	Response	Response S	Status O		
Figure 177- operates ind codewords.	-10 for each dependantly "	er shall implement eight self-s input lane in the receive dire on an Inner FEC flow to ider	ction. Each synd	chronization process	C/ 177	SC 177.6.2.3	,	P <b>321</b>	L <b>45</b>	# 502
Figure 177- operates inc	-10 for each dependantly "	input lane in the receive dire	ction. Each synd	chronization process	Cl <b>177</b> Opsasnick	SC <b>177.6.2.</b> 3	3	P321 Broadcom	L <b>45</b>	# 502
Figure 177- operates ind codewords.	-10 for each dependantly "	input lane in the receive dire on an Inner FEC flow to ider	ction. Each synd	chronization process	Cl <b>177</b> Opsasnick Comment	SC <b>177.6.2.</b> , Eugene <i>Type</i> <b>TR</b>	3 Comment 5	P <b>321</b> Broadcom Status <b>X</b>	-	
Figure 177- operates ind codewords. Proposed Resp	-10 for each dependantly "	input lane in the receive dire on an Inner FEC flow to ider	ction. Each synd	chronization process	Cl <b>177</b> Opsasnick Comment The de	SC <b>177.6.2.</b> , Eugene <i>Type</i> <b>TR</b>	Comment S	P 321 Broadcom Status X he interval of In	ner FEC codew	vords between two
Figure 177- operates ind codewords. Proposed Resp	-10 for each dependantly onse	input lane in the receive dire on an Inner FEC flow to ider <i>Response Status</i> <b>O</b>	ction. Each sync ntify the boundar	bronization process ies of the Inner FEC	Cl <b>177</b> Opsasnick Comment The de	SC 177.6.2.3 c, Eugene <i>Type</i> TR efinion of "fas_ci ent pads." What	Comment S	P 321 Broadcom Status X he interval of In	ner FEC codew	vords between two
Figure 177- operates ind codewords. Proposed Resp 27 177 SC Opsasnick, Eug Comment Type	-10 for each dependantly onse C 177.6.3 ene TR	input lane in the receive dire on an Inner FEC flow to ider <i>Response Status</i> <b>O</b> <i>P</i> <b>321</b>	ction. Each sync ntify the boundar	thronization process ties of the Inner FEC # <u>500</u>	Cl 177 Opsasnick Comment The de adjace Suggested Add a	SC 177.6.2.3 c, Eugene Type TR efinion of "fas_cr ent pads." What dRemedy	<i>Comment</i> and the interval of	P321 Broadcom Status X he interval of In value? How ma	ner FEC codew ny codewords? dewrds that nee	vords between two

"An inner FEC Pad detection process as illustrated in the state diagram in Figure 177–10 shall be implemented for each input lane in the receive direction."

Proposed Response

Response Status 0

CI 177 SC 177.6.3	P 322	L23	# 503	CI 177	SC 177.6.3	P <b>322</b>	L <b>21</b>	# 506
Opsasnick, Eugene	Broadcom			Opsasnick	, Eugene	Broadcom		
Comment Type TR	Comment Status X			Comment	Туре Е	Comment Status X		
	tate CW_CHECK_1, the condit			In figu	re 176-10, the n	ew state UNSYNC could use	a better name.	
in 1.2.1.	ition in parentheses on the sam	ie line as the inci	ement. See ligure 1-1	Suggested	lRemedy			
SuggestedRemedy				Renan	ne state "UNSYI	NC" to be "RESTART_SYNC'		
Change: "if valid_cw valid_cw_cnt++"				Proposed	Response	Response Status O		
to:				C/ 177	SC 177.6.3	P <b>322</b>	L <b>4</b>	# 507
"valid_cw_cnt++ (if v	alid_cw)"			Opsasnick	, Eugene	Broadcom		
in three places: in CV	N_CHECK1, CW_CHECK_2 ar	nd CW_CHECK3	3 states.	Comment	Type E	Comment Status X		
Proposed Response	Response Status 0			In figu	re 176-10, a spa	ce is needed between the log	ical-OR (+) oper	rator and variable name
				Suggestea	lRemedy			
C/ 177 SC 177.6.3	P322	L10	# 504	Replac	ce "+restart_inne	er_fec_sync" with "+ restart_ir	nner_fec_sync".	
Opsasnick, Eugene	Broadcom			And m	ake the same cl	nange in Figure 177-11 on pa	ae 323. line 4.	
Comment Type TR	Comment Status X			Proposed		Response Status <b>O</b>	<b>3</b> ,	
<i><i>y</i>,</i>	condition to transition out of stt	e INNER_FEC_S	SYNC_INIT is incorrect.	,	,			
SuggestedRemedy				01 477	00 477 0 0	Daga	10	# 500
Change the condition	n from:"all_synced" to "UCT"			C/ 177	SC 177.6.3	P323	L <b>6</b>	# 508
Proposed Response	Response Status <b>O</b>			Opsasnick		Broadcom		
				Comment		Comment Status X are three separate states wit	h tha nama COI	INT NEXT Thou
	Daaa	1.10	//		have different r		in the name, CO	UNI_NEXT. They
7 177 SC 177.6.3		L12	# 505	Suggested	Remedy			
Opsasnick, Eugene	Broadcom				COUNT_NEXT			
Comment Type ER	Comment Status X W_CHECK_3 state, the extra s		ariable names and			OUNT_NEXT" to "COUNT_21 OUNT_NEXT" to COUNT_3R		
	+ should be removed.	space between v		Proposed	•	Response Status <b>0</b>	υ.	
SuggestedRemedy				i ioposeu i				
Replace "cw_cnt ++"	with "cw_cnt++"							
	:++" with "bad_cw_cnt++"							
Proposed Response	Response Status 0							

	P 323	L <b>9</b>	# 509	C/ 178B SC 178B	.11.2	P <b>780</b>	L <b>5</b> # <u>512</u>
Dpsasnick, Eugene	Broadcom			Dawe, Piers	N	<i>v</i> idia	
Comment Type TR	Comment Status X			Comment Type TR	Comment Sta	tus X	
In figure 177-11, there comment #389.	is an incomplete change to F	AS_LOCK_INIT	state from D1.2	crosstalk, and the	voltage can exceed th		o start a lane at maximum r 50G/lane and 100G/lane
SuggestedRemedy				which may be conr	lected.		
In FAS_LOCK_INIT sta "fas_lock <= false"	ate, add:				he association betwe		
Proposed Response	Response Status 0			Change the definiti	on of preset 1 and Ol	JT_OF_SYNC fror	m 0 0 0 1 0 to 0 0 0 0.75 0
				Proposed Response	Response Star	tus <b>O</b>	
C/ 177 SC 177.6.3	P <b>323</b>	L13	# 510	C/ 179 SC 179.9		P376 I	L <b>2</b> # 513
psasnick, Eugene	Broadcom						LZ # 013
Comment Type ER	Comment Status X			Dawe, Piers		/idia	
	D_FAS state, the extra space	between variab	le names and	Comment Type TR			
increment operator ++	snoula de removea.						pecial measurement condi a large signal, it is bad pra
SuggestedRemedy							
					,		000 mV limit for 50G/lane a
Replace "bad_fas_cnt	++" with "bad_fas_cnt++"			100G/lane AUIs wi	nich may be connecte		000 mV limit for 50G/lane a C2C, C2M, CR and KR ca
	++" with "bad_fas_cnt++" Response Status <b>O</b>			100G/lane AUIs wh aligned for conveni	nich may be connecte		
Replace "bad_fas_cnt				100G/lane AUIs wh aligned for conveni SuggestedRemedy	nich may be connecte ence.	d to a 200G AUI.	C2C, C2M, CR and KR ca
Replace "bad_fas_cnt Proposed Response	Response Status O	L12	# 511	100G/lane AUIs wh aligned for conveni SuggestedRemedy Assuming we like t	nich may be connecte ence.	d to a 200G AUI. en 1 and default, c	
Replace "bad_fas_cnt Proposed Response	Response Status O	L12	# 511	100G/lane AUIs wi aligned for conveni SuggestedRemedy Assuming we like t 179.9.4.1.3 as 0 0 In 179.9.4.1.2, 179	hich may be connected ence. he association betwe 0 1 0. Preset 1 becon .9.5.3.3, 179.9.5.3.5 a	d to a 200G AUI. en 1 and default, c mes 0 0 0 0.75 0. and 176D.7.12.4, c	C2C, C2M, CR and KR ca change this to preset 6, de change 1 to 6.
Replace "bad_fas_cnt Proposed Response	Response Status O	L12	# 511	100G/lane AUIs wi aligned for conveni SuggestedRemedy Assuming we like t 179.9.4.1.3 as 0 0 In 179.9.4.1.2, 179	hich may be connected ence. he association betwe 0 1 0. Preset 1 becon .9.5.3.3, 179.9.5.3.5 a	d to a 200G AUI. en 1 and default, c mes 0 0 0 0.75 0. and 176D.7.12.4, c	C2C, C2M, CR and KR ca
Replace "bad_fas_cnt Proposed Response Cl 178A SC 178A.1.7 .i, Mike Comment Type TR	Response Status O .3 P756 Intel Comment Status X D EQ (178A-18) is incorrect. It			100G/lane AUIs wi aligned for conveni SuggestedRemedy Assuming we like t 179.9.4.1.3 as 0 0 In 179.9.4.1.2, 179 Similarly in and 170	hich may be connected ence. he association betwe 0 1 0. Preset 1 becon .9.5.3.3, 179.9.5.3.5 a	d to a 200G AUI. en 1 and default, c mes 0 0 0 0.75 0. and 176D.7.12.4, c D.7.11, "preset 1" (	C2C, C2M, CR and KR ca change this to preset 6, de change 1 to 6.
Replace "bad_fas_cnt Proposed Response Cl 178A SC 178A.1.7 i, Mike Comment Type TR Including sigma_x^2 in depedent which is wrou	Response Status O .3 P756 Intel Comment Status X D EQ (178A-18) is incorrect. It			100G/lane AUIs wh aligned for conveni SuggestedRemedy Assuming we like t 179.9.4.1.3 as 0 0 In 179.9.4.1.2, 179 Similarly in and 170 correct.	hich may be connected ence. he association betwe 0 1 0. Preset 1 becon .9.5.3.3, 179.9.5.3.5 6D.7.12.2, but in 176	d to a 200G AUI. en 1 and default, c mes 0 0 0 0.75 0. and 176D.7.12.4, c D.7.11, "preset 1" (	C2C, C2M, CR and KR ca change this to preset 6, de change 1 to 6.
Replace "bad_fas_cnt Proposed Response Cl 178A SC 178A.1.7 Li, Mike Comment Type TR Including sigma_x^2 in	Response Status O 7.3 P756 Intel Comment Status X n EQ (178A-18) is incorrect. It ng.			100G/lane AUIs wh aligned for conveni SuggestedRemedy Assuming we like t 179.9.4.1.3 as 0 0 In 179.9.4.1.2, 179 Similarly in and 170 correct.	hich may be connected ence. he association betwe 0 1 0. Preset 1 becon .9.5.3.3, 179.9.5.3.5 6D.7.12.2, but in 176	d to a 200G AUI. en 1 and default, c mes 0 0 0 0.75 0. and 176D.7.12.4, c D.7.11, "preset 1" (	C2C, C2M, CR and KR ca change this to preset 6, de change 1 to 6.

C/ 179 SC 179.9.4	.1.3 <i>P</i> 377	L19	# 514	C/ 179	SC 179.9.4.	1.3 P377	L 19	# 516
Dawe, Piers	Nvidia			Dawe, Pier	'S	Nvidia		
Comment Type TR	Comment Status X			Comment	Туре Т	Comment Status	(	
and the default startu to start a lane at max	preset 1, the loudest, is used f ip. While it makes sense to me imum crosstalk, which exceeds	easure a large sig s the 900 mV lim	gnal, it is bad practice it for 50G/lane and	10, Co	efficient update	76D-8 say that for OUT state diagram, shows the state diagram, shows the state of t		s N/A yet Figure 178B- SYNC state, ic_req is se
aligned for convenier	h may be connected to a 200G	aui. C2C, C2N	I, CR and KR can stay	Suggested	lRemedy			
SuggestedRemedy						the table easier to unde		
	YNC and preset 1 from 0 0 0 1	0 to 0 0 0 0 75 0	with the usual	"N/A" r 176D.7		the text just above the	table. If so, similar te	ext may be needed in
tolerances. Add a row for preset	6, values 0 0 0 1 0, without tole e "and OUT_OF_SYNC". Simi	erances. In the ta	ble footnote, change 1	Proposed I		Response Status C	0	
Proposed Response	Response Status 0			C/ 180A	SC 180A	P831	L6	# 517
				Dawe, Pier	s	Nvidia		
C/ 178B SC 178B.7	P <b>774</b>	L11	# 515	Comment	Type <b>TR</b>	Comment Status	(	
and the default startu	Nvidia <i>Comment Status</i> <b>X</b> preset 1, the loudest, is used f ip. While it makes sense to me imum crosstalk, which exceeds th may be connected.	easure a large sig	nal, it is bad practice	While to spec would Suggested	802.3 should ac cify details of co be better avoide IRemedy	" while line 18 says "Thi knowledge the reality a onnectors, and as there ed. Leave it to the MSA describes", like 179D.	nd importance of bre are so many connect	akout, it does not have
SuggestedRemedy				Proposed I	Response	Response Status	0	
Change 1 0 1 from R In 178B.11.2, add line In 178B.14.3.1, ic_se	es for preset 6;			<i>Cl</i> <b>179D</b> Dawe, Pier	SC 179D.1.			# 518
Proposed Response	Response Status O			Comment		Comment Status	,	
				This sa length'	ays "a common	set of electrical parame s) it enables is not relev	ters specified in 179.	
				Suggested	lRemedy			
				Delete	"enabling a 1 m	n length"		
				Proposed I	Response	Response Status	D	

B     SC 179       Piers     ent Type     TF       ent rise time for F     the same.       stedRemedy       hange 4.25 ps to       sed Response       OB     SC 179       Piers	<b>R</b> FOM_IL to 6 ps, t	P 81 Nvidia Comment Status D, SFP NEXT, and wice Response Status P 81	X I multi-lane NE≻	<b>31</b> XT and FEXT, a	# 522
ent Type TF the rise time for for the same. stedRemedy hange 4.25 ps to sed Response DB SC 179	FOM_IL	Comment Status D, SFP NEXT, and wice Response Status	X I multi-lane NE≻	XT and FEXT, ε	are expected to
e rise time for f the same. stedRemedy hange 4.25 ps to sed Response OB SC 179	FOM_IL	D, SFP NEXT, and wice <i>Response Status</i>	I multi-lane NE>	XT and FEXT, ٤	are expected to
the same. stedRemedy hange 4.25 ps to sed Response DB SC 179	- to 6 ps, t	wice Response Status		XT and FEXT, ∉	are expected to
stedRemedy hange 4.25 ps to sed Response OB SC 179		Response Status	0		
nange 4.25 ps to sed Response OB SC 179		Response Status	0		
BB SC 179		Response Status	0		
)B SC 179			0		
	9B.4.6	P81			
	<b>JB.4.6</b>	P 81			
Piers				.44	# 523
		Nvidia			
ent Type T		Comment Status			
•		value we like for A desirable, people n			
stedRemedy					
ange them fror	m 600 m	nV to 500 mV			
sed Response		Response Status	0		
B SC 179	9B.4.6	P 81	10 L	36	# 524
Piers		Nvidia	1		
ent Type E		Comment Status	х		
					he FEXT, NEX
stedRemedy	179B-2 a	nd 179B-4, using a	n additional col	lumn if needed.	Combine tabl
ombine Table 1	3-5.				
<b>79</b> e, 1 d	79B SC 179 e, Piers Inment Type E I don't know why and IXT table. A gestedRemedy	<b>79B</b> SC <b>179B.4.6</b> e, Piers <i>ment Type</i> <b>E</b> I don't know why the valu and IXT table. Also, Tabl gestedRemedy	79B       SC 179B.4.6       P81         e, Piers       Nvidia         ment Type       E       Comment Status         I don't know why the values in the NEXT table       I don't know why the values in the NEXT table         I don't know why the values in the NEXT table       Also, Table 179B, with only or gested Remedy         Combine Table 179B-2 and 179B-4, using an 179B-3 and 179B-5.	79B       SC 179B.4.6       P 810       L         e, Piers       Nvidia <i>mment Type</i> E       Comment Status       X         I don't know why the values in the NEXT table should differ and IXT table. Also, Table 179B, with only one entry, isn't in gestedRemedy       Combine Table 179B-2 and 179B-4, using an additional color	79B       SC 179B.4.6       P 810       L 36         e, Piers       Nvidia         ment Type       E       Comment Status       X         I don't know why the values in the NEXT table should differ from those in the and IXT table. Also, Table 179B, with only one entry, isn't really a table.         gestedRemedy         Combine Table 179B-2 and 179B-4, using an additional column if needed.         179B-3 and 179B-5.

Some parameters are in the parameters are in the parameters fMin fMax Move the parameters fMin fMax Proposed Response Responder Cl 179B SC 179B.4.6 Dawe, Piers Comment Type T Comment Don't put unnecessary ambiguit SuggestedRemedy Change "maximum frequency s	fStep (max) to the t onse Status O P810 Nvidia ment Status X y in a definition.	able(s)	# <u>526</u>	the whole MCB. Then, MCB reference los loss, and things are a little simpler. Proposed Response Response Status Cl 179B SC 179B.4.3 P Dawe, Piers Nvice	s X eated ertion loss, define the test fixture reference ector to the HCB side of the MCB connector, i.e. s + HCB reference loss = mated CBs reference s O 807 $L47$ # 529
Some parameters are in the parameters are in the parameters are in the parameters fMin fMax Proposed Response Response Response Cl <b>179B</b> SC <b>179B.4.6</b> Dawe, Piers Comment Type <b>T</b> Comm Don't put unnecessary ambiguit SuggestedRemedy Change "maximum frequency s	ragraphs, others are fStep (max) to the t onse Status <b>O</b> <b>P810</b> Nvidia ment Status <b>X</b> y in a definition. pacing of 10 MHz" to	able(s)		In line with how host loss for products is the SuggestedRemedy Instead of a test fixture PCB reference insinsertion loss from instrument (coax) conn the whole MCB. Then, MCB reference los loss, and things are a little simpler. Proposed Response Response Status Cl 179B SC 179B.4.3 P Dawe, Piers Nvice	eated ertion loss, define the test fixture reference ector to the HCB side of the MCB connector, i.u s + HCB reference loss = mated CBs reference s <b>O</b> 807 L47 # <u>529</u>
SuggestedRemedy Move the parameters fMin fMax Proposed Response Respo Cl 179B SC 179B.4.6 Dawe, Piers Comment Type T Comm Don't put unnecessary ambiguit SuggestedRemedy Change "maximum frequency s	fStep (max) to the t onse Status <b>O</b> P <b>810</b> Nvidia ment Status <b>X</b> y in a definition. pacing of 10 MHz" to	able(s)		SuggestedRemedy         Instead of a test fixture PCB reference instrument (coax) conn         insertion loss from instrument (coax) conn         the whole MCB. Then, MCB reference loss         loss, and things are a little simpler.         Proposed Response         Cl 179B       SC 179B.4.3         Dawe, Piers       Nvice	ertion loss, define the test fixture reference ector to the HCB side of the MCB connector, i.i. s + HCB reference loss = mated CBs reference s 0 807 L47 # 529
Move the parameters fMin fMax Proposed Response Response C/ 179B SC 179B.4.6 Dawe, Piers Comment Type T Comm Don't put unnecessary ambiguit SuggestedRemedy Change "maximum frequency s	P810 P810 Nvidia ment Status X y in a definition. pacing of 10 MHz" to	L 30		Instead of a test fixture PCB reference inst insertion loss from instrument (coax) conn the whole MCB. Then, MCB reference los loss, and things are a little simpler. Proposed Response Response Status Cl 179B SC 179B.4.3 P Dawe, Piers Nvice	ector to the HCB side of the MCB connector, i.e. s + HCB reference loss = mated CBs reference s 0 807 L47 # 529
Proposed Response Res	P810 P810 Nvidia ment Status X y in a definition. pacing of 10 MHz" to	L 30		insertion loss from instrument (coax) conn the whole MCB. Then, MCB reference los loss, and things are a little simpler. Proposed Response Response Status CI 179B SC 179B.4.3 P Dawe, Piers Nvice	ector to the HCB side of the MCB connector, i.e. s + HCB reference loss = mated CBs reference s 0 807 L47 # 529
Cl <b>179B</b> SC <b>179B.4.6</b> Dawe, Piers Comment Type <b>T</b> Comm Don't put unnecessary ambiguit SuggestedRemedy Change "maximum frequency s	P 810 Nvidia <i>ment Status</i> X y in a definition. pacing of 10 MHz" to			the whole MCB. Then, MCB reference los loss, and things are a little simpler. Proposed Response Response Status Cl 179B SC 179B.4.3 P Dawe, Piers Nvice	s + HCB reference loss = mated CBs reference s O 807 L47 # 529
Dawe, Piers Comment Type <b>T</b> Comm Don't put unnecessary ambiguit SuggestedRemedy Change "maximum frequency s	Nvidia ment Status X y in a definition. pacing of 10 MHz" to			Cl         179B         SC         179B.4.3         P           Dawe, Piers         Nvic	807 L 47 # <u>529</u>
Comment Type <b>T</b> Comm Don't put unnecessary ambiguit SuggestedRemedy Change "maximum frequency s	ment Status X y in a definition. pacing of 10 MHz" to	o " frequency spa		Dawe, Piers Nvic	
SuggestedRemedy Change "maximum frequency s	pacing of 10 MHz" to	o " frequency spa			lia
Change "maximum frequency s		o " frequency spa			
5 1 5		o " frequency spa		Comment Type TR Comment Statu	s <b>X</b>
/ 179B SC 179B.1	P803	L <b>23</b>	# 527	differential-mode specs.	ixed-mode and common-mode specs as for
		L 23	# 527	SuggestedRemedy	
awe, Piers omment Type <b>TR</b> Comi	Nvidia ment Status X			Change the 60 GHz to 67 GHz, 3 places.	
Now that we have adopted a rel address the other specs. All the	erence impedance o ese parameters are i	measured with a	a VNA which does the	Proposed Response Response Status	S 0
calculations for us, so we can u	se whatever impeda	inces are suitable	е.	Cl 179B SC 179B.4.2 P	807 L7 # 530
uggestedRemedy				Dawe, Piers Nvic	lia
Adopt consistent reference imp		items in this and	iex.	Comment Type TR Comment Statu	s X
Proposed Response Respo	onse Status <b>O</b>			The round trip loss to the MCB connector i so an ERL of 10.3 dB is very weak.	s 7.6 dB from one side, and more from the oth
				SuggestedRemedy	
				Now that we have a suitable reference diff	erential impedance, choose a suitable ERL lim
				Proposed Response Response Status	s O

Comment ID 530

C/ 179A SC 179A.5 P802 L13	# 531	C/ 178A SC 178A.1.8.1 P758 L33 # 534	
Dawe, Piers Nvidia		Dawe, Piers Nvidia	
Comment Type TR Comment Status X		Comment Type E Comment Status X	
13 dB = (16+4.45+4.45)-(2*9.75)		If Nb is the number of feedback taps, Nf is the number of feedforward taps. Obvs.	
SuggestedRemedy		Although OIF use it for something else. 10GBASE-LRM uses EqNf and EqNb. 802 has:	2.3ck
13 dB = (16+8.25+8.25)-(2*9.75)		DFE maximum span including floating taps N_f (but it doesn't have receiver FFE tap	ps so
Proposed Response Response Status O		the contradiction doesn't apply) and Number of DFE floating tap banks N_bg.	
		SuggestedRemedy	
CI 179A SC 179A.5 P801 L47	# 532	Change Number of (FFE) taps per floating tap group, from Nf to N_fg	
Dawe, Piers Nvidia		Proposed Response Response Status O	
Comment Type TR Comment Status X			
17.5		C/ 178A SC 178A.1.3 P748 L15 # 535	
SuggestedRemedy		Dawe, Piers Nvidia	
17.75, twice		Comment Type T Comment Status X	
Proposed Response Response Status O		Unnecessary ambiguity, and 802.3 is not a test spec. We define terms by procedur write methods of implementation.	es, no
C/ 179 SC 179.11.7.1 P397 L38	# 533	SuggestedRemedy	
Dawe, Piers Nvidia	# 533	Change "from a start frequency no greater than 10 MHz to a stop frequency of at lea GHz" to "from a start frequency of 10 MHz to a stop frequency of 67 GHz."	ast 67
Comment Type E Comment Status X Put COM parameters in the COM parameter table		Proposed Response Response Status O	
SuggestedRemedy Add a reference receiver method row for COM parameter table, value		C/ 178A SC 178A.1.3 P758 L35 # 536	
MLSD in this project, next to the DER_0 row		Dawe, Piers Nvidia	
Proposed Response Response Status <b>O</b>		Comment Type T Comment Status X	
		Not clear what "Highest allowed tap index" means. The reader doesn't know if tap 0 cursor, or he should count from 1, or from 0, or something else. Also, Fig 178A-9 at 178A-10 have N_w which might be the same thing. 802.3ck has "DFE maximum spa"index"	ind
		SuggestedRemedy	
		Please align and explain the terminology	
		Proposed Response Response Status <b>O</b>	

C/ 178A SC 178A.1.6.	4 P <b>75</b> 4	L <b>9</b>	# 537	C/ 176D	SC 176D.5.	3 P <b>724</b>	L <b>40</b>	# 540
Dawe, Piers	Nvidia			Dawe, Pier	S	Nvidia		
Comment Type T	Comment Status X			Comment	Type <b>TR</b>	Comment Status X		
proper receiver front-er receiver front-end filter,	pole in the CTLE, always fb, i ad filter. We need to make a coax connector and other lin _p2. At least for a BT filter, 5	careful compron nitations and the	nise between the e maximum frequency	bandw J4u03	idths, losses an seems to be be , not a separate	It, the "jitter measurement" me nd amplitudes for host output. eyond the state of the art. EO. e spec item.	This is particula	arly obvious for J3u03;
SuggestedRemedy				00	,	Jse an eye spec to control sigr	nal quality follo	ving the evolution of
Combine f_p2 and the	receiver front-end filter, take	_p2 out of the (	COM tables.	xECQ.			iai quanty, ionor	
Proposed Response	Response Status O			Proposed I	Response	Response Status O		
C/ 179 SC 179.9.4.5	.3 P380	L <b>6</b>	# 538	C/ 179	SC 179.9.4	6 <i>P</i> 381	L <b>26</b>	# 541
Dawe, Piers	Nvidia			Dawe, Pier	s	Nvidia		
Comment Type TR	Comment Status X			Comment	Type <b>TR</b>	Comment Status X		
SuggestedRemedy	e for Reference SNDR is far t ference SNDR values for the		ories and presets	bandw be bey	idths, losses an ond the state o te spec item.	it, the "jitter measurement" me ad amplitudes. This is particul f the art. EOJ should be part o	arly obvious for	J3u03; J4u03 seems to
Proposed Response	Response Status 0			•••	•	Jse an eye spec to control sigr	nal quality, follov	wing the evolution of
C/ 176D SC 176D.7.1	P731	L <b>25</b>	# 539	Proposed I	Response	Response Status O		
Dawe, Piers	Nvidia			C/ 178B	SC 178B	D <b>765</b>	/ 10	# [[40
Comment Type TR	Comment Status X	esticationally off th	o ocolo unlikoly for o	•••••		P <b>765</b>	L19	# 542
scrambled signal, so it probability of 1e-7 impli	period of at least 128 UI" is s s not relevant. Also the scop ies an expensively long time of sSPRQ wherever feasibl	e CRU is not lik collecting data.	ely to lock to it. A Signals should be	Dawe, Pier <i>Comment</i> This ar	Type <b>TR</b>	Nvidia <i>Comment Status</i> <b>X</b> introductory diagram, and the	terminology nee	eds cleaning up
SuggestedRemedy				Suggested	Remedy			
	onable and statistically releva			Per co	mment			
feasible. For module o back to PRBS13Q.	utput where the loss to the of	oservation point	is very moderate, go	Proposed I	Response	Response Status 0		
Proposed Response	Response Status 0							

C/ 178B SC 178B.14	4.2.1 <i>P</i> 783	L <b>22</b>	# 543	CI 73	SC 73.10.2	P130	L14	# 546
Dawe, Piers	Nvidia			Dawe, Piers		Nvidia		
Comment Type TR	Comment Status X			Comment Ty	pe E	Comment Status X		
	o specified time limit for the IL			This is co	ontrary to the	standard order (slow to fast).		
	e Clause 73 link_fail_inhibit_tim	ier will override it		SuggestedRe	emedy			
50GBASE-CR and 10	tion is that there should be no DOGBASE-CR1, refer to Table does not apply at 200G/lane. to infinite.	73-7 in 73.10.2 a	and say that	order and	d this project and the other two	ediately below the 100G/lane amendment cannot deliver a p to link_fail_inhibit_timer rows i	roperly ordered t	table without cleaning
Proposed Response	Response Status O			Floposed Re	sponse	Response Status O		
	D=	1.00	"	CI 73	SC 73.5.1	P118	L 38	# 547
7 178B SC 178B	P <b>765</b>	L <b>22</b>	# 544	Dawe, Piers		Nvidia		
awe, Piers	Nvidia			Comment Ty	pe TR	Comment Status X		
Comment Type TR	Comment Status X					ctrical characteristics" table ne		
·	n between this annex and Clau	ise 73 AN				raining: 800 to 1000 *0.75 +/-( 00 mV_and the XI PPI max_8		80 to 775 mV, the
SuggestedRemedy	n between this annex and Clau	ise 73 AN		traditiona	ll C2M max, 9	raining: 800 to 1000 °0.75 +/-0 00 mV, and the XLPPI max, 8		80 to 775 mV, the
SuggestedRemedy Per comment		ise 73 AN		traditiona SuggestedRe	II C2M max, 9 emedy	00 mV, and the XLPPI max, 8	50 mV.	
SuggestedRemedy Per comment	n between this annex and Clau Response Status <b>O</b>	ise 73 AN		traditiona SuggestedRe Bring Tal Transmit Receive	I C2M max, 9 emedy ble 73-1, DME differential pe differential pe		50 mV. • the draft. It cor • to 1200 mV • to 1200 mV.	
SuggestedRemedy Per comment Proposed Response	Response Status <b>O</b>	L15	# 545	traditiona SuggestedRe Bring Tal Transmit Receive Add two Transmit	I C2M max, 9 emedy ble 73-1, DME differential pe differential pe more rows, fo differential pe	00 mV, and the XLPPI max, 8 electrical characteristics, into eak-to-peak output voltage 600 ak-to-peak input voltage 200 r anything capable of 200G/lar eak-to-peak output voltage 600	50 mV. the draft. It cor to 1200 mV to 1200 mV. ne: to 900 mV	
SuggestedRemedy Per comment Proposed Response	Response Status <b>O</b>		# 545	traditiona SuggestedRe Bring Tal Transmit Receive Add two Transmit Receive	al C2M max, 9 emedy oble 73-1, DME differential pe differential pe more rows, fo differential pe differential pe	00 mV, and the XLPPI max, 8 electrical characteristics, into eak-to-peak output voltage 600 ak-to-peak input voltage 200 r anything capable of 200G/lar	50 mV. the draft. It cor to 1200 mV to 1200 mV. ne: to 900 mV to 1000 mV.	ntains:
SuggestedRemedy Per comment Proposed Response Cl 73 SC 73.10.2 Dawe, Piers Comment Type TR	Response Status 0 P130	L15	# <u>545</u>	traditiona SuggestedRe Bring Tal Transmit Receive Add two Transmit Receive Recomm does 100 they don	Il C2M max, 9 emedy ole 73-1, DME differential pe more rows, fo differential pe differential pe end that new 0BASE-KX au t have to char	00 mV, and the XLPPI max, 8 electrical characteristics, into eak-to-peak output voltage 600 ak-to-peak input voltage 2007/lar eak-to-peak output voltage 600 ak-to-peak input voltage 2000 product should comply to the nd/or 10GBASE-KX4 whose o nge voltage swing when going	50 mV. the draft. It cor to 1200 mV to 1200 mV. he: to 900 mV to 1000 mV. newer limits, exc utput should be from AN to regu	ntains: cept product that only 600 to 1000 mV (so ular mode - their min i
SuggestedRemedy Per comment Proposed Response Cl 73 SC 73.10.2 Dawe, Piers Comment Type TR According to 178B.14	Response Status <b>0</b> P <b>130</b> Nvidia Comment Status <b>X</b>	L15	# <u>545</u>	traditiona SuggestedRe Bring Tal Transmit Receive Add two Transmit Receive Recomm does 100 they don' 800 mV).	Il C2M max, 9 emedy oble 73-1, DME differential pe more rows, fo differential pe end that new 0BASE-KX au t have to char lf the recom	00 mV, and the XLPPI max, 8 electrical characteristics, into eak-to-peak output voltage 600 ak-to-peak input voltage 2007/lar eak-to-peak output voltage 600 ak-to-peak input voltage 2000 product should comply to the nd/or 10GBASE-KX4 whose o	50 mV. the draft. It cor to 1200 mV to 1200 mV. to 1200 mV. to 1000 mV. to 1000 mV. newer limits, exc utput should be from AN to regu maintenance, ad	ntains: cept product that only 600 to 1000 mV (so ular mode - their min
SuggestedRemedy Per comment Proposed Response Cl 73 SC 73.10.2 Dawe, Piers Comment Type TR	Response Status O P130 Nvidia Comment Status X 4.2.1, there should be no time I	L15	# 545	traditiona SuggestedRe Bring Tal Transmit Receive Add two Transmit Receive Recomm does 100 they don' 800 mV).	al C2M max, 9 emedy oble 73-1, DME differential pe more rows, fo differential pe end that new 10BASE-KX al t have to char . If the recom	00 mV, and the XLPPI max, 8 electrical characteristics, into eak-to-peak output voltage 600 ak-to-peak input voltage 2007/lar eak-to-peak output voltage 600 ak-to-peak input voltage 2000 product should comply to the nd/or 10GBASE-KX4 whose o nge voltage swing when going mendation has to go through r	50 mV. the draft. It cor to 1200 mV to 1200 mV. to 1200 mV. to 1000 mV. to 1000 mV. newer limits, exc utput should be from AN to regu maintenance, ad	ntains: cept product that only 600 to 1000 mV (so ular mode - their min

Comment ID 547

C/ 176C SC 176C.4.3	P703	L23	# 548	C/ 176C SC 176C.4	4.3.5	P <b>705</b>	L 50	# 551
leck, Howard	TE Connectivit	у		Heck, Howard		TE Connectivi	ty	
Comment Type T	Comment Status X			Comment Type T	Comment	t Status X		
Minimum signal to AC	common-mode noise ratio (SC	CMR) is TBD in	D1.3.	The length of the ref	flection signal, N	l, for ERL calcula	ation is TBD.	
SuggestedRemedy				SuggestedRemedy				
the suggested remedy.	taken from KR Table 178-6.	A presentation is	s planned to support	(.cd, .ck) wherein the	e values for KR	and C2C identic	al. The proposed	
Proposed Response	Response Status O			account for the redu suggested remedy.	ction in unit inte	rval. A presentat	tion is planned to	o support the
				Proposed Response	Response	Status O		
176C SC 176C.4.3	P <b>703</b>	L <b>26</b>	# 549					
eck, Howard	TE Connectivit	У		C/ 176C SC 176C.	4.4.4.2	P <b>708</b>	L31	# 552
omment Type <b>T</b>	Comment Status X			Heck, Howard		TE Connectivi	tv	
	de to common-mode return lo	e (PLcc) is TRI					-)	
winimum common-moo			D IN D1.3.	Comment Type T	Comment	t Status X		
			U IN U1.3.	Comment Type <b>T</b> The linear fit pulse li		t Status <b>X</b> T noise calibratio	on is TBD in D1.	3.
SuggestedRemedy Change TBD to 3.25 dl	B, taken from KR Table 178-6			The linear fit pulse le			on is TBD in D1.	3.
SuggestedRemedy	B, taken from KR Table 178-6			The linear fit pulse lo SuggestedRemedy	ength, Np, for IT	T noise calibration		
SuggestedRemedy Change TBD to 3.25 dl	B, taken from KR Table 178-6			The linear fit pulse lo SuggestedRemedy Change TBD to 22 U	ength, Np, for IT JI. This is scaled	T noise calibration	802.3ck to acco	unt for the reduction ir
SuggestedRemedy Change TBD to 3.25 dl the suggested remedy.	B, taken from KR Table 178-6			The linear fit pulse lo SuggestedRemedy Change TBD to 22 to unit interval. A prese	ength, Np, for IT JI. This is scaled entation is plann	T noise calibration d from N=11 in p ed to support the	802.3ck to acco	unt for the reduction in
uggestedRemedy Change TBD to 3.25 dl the suggested remedy. roposed Response	B, taken from KR Table 178-6 <i>Response Status</i> <b>O</b>			The linear fit pulse lo SuggestedRemedy Change TBD to 22 U	ength, Np, for IT JI. This is scaled	T noise calibration d from N=11 in p ed to support the	802.3ck to acco	unt for the reduction ir
uggestedRemedy Change TBD to 3.25 dl the suggested remedy. roposed Response	B, taken from KR Table 178-6 <i>Response Status</i> <b>O</b>	. A presentation	n is planned to support	The linear fit pulse lo SuggestedRemedy Change TBD to 22 to unit interval. A prese	ength, Np, for IT JI. This is scaled entation is plann <i>Response</i>	T noise calibration d from N=11 in p ed to support the	802.3ck to acco e suggested rem	unt for the reduction ir redy.
uggestedRemedy Change TBD to 3.25 dl the suggested remedy. roposed Response / 176C SC 176C.4.3. eck, Howard	B, taken from KR Table 178-6 <i>Response Status</i> <b>O</b> .4 P705	. A presentation	n is planned to support	The linear fit pulse le SuggestedRemedy Change TBD to 22 U unit interval. A prese Proposed Response	ength, Np, for IT JI. This is scaled entation is plann <i>Response</i>	T noise calibration d from N=11 in p ed to support the <i>Status</i> <b>O</b> <i>P</i> <b>709</b>	802.3ck to acco e suggested rem	unt for the reduction i
uggestedRemedy Change TBD to 3.25 dl the suggested remedy. roposed Response // 176C SC 176C.4.3. eck, Howard omment Type T The method specified f	B, taken from KR Table 178-6 <i>Response Status</i> O .4 P705 TE Connectivit <i>Comment Status</i> X for signal-to-residual-intersyml	L <b>25</b>	a is planned to support	The linear fit pulse le SuggestedRemedy Change TBD to 22 U unit interval. A prese Proposed Response Cl 176C SC 176C.4 Heck, Howard	ength, Np, for IT JI. This is scaled entation is plann <i>Response</i> 4.4.4.3	T noise calibration d from N=11 in p ed to support the <i>Status</i> <b>O</b> <i>P</i> <b>709</b> TE Connectivi	802.3ck to acco e suggested rem	unt for the reduction i ledy.
uggestedRemedy Change TBD to 3.25 dl the suggested remedy. roposed Response / 176C SC 176C.4.3. eck, Howard omment Type T The method specified f defined in 179.9.4.3 wit	B, taken from KR Table 178-6 <i>Response Status</i> O .4 P705 TE Connectivit <i>Comment Status</i> X for signal-to-residual-intersyml	L <b>25</b>	a is planned to support	The linear fit pulse le SuggestedRemedy Change TBD to 22 U unit interval. A prese Proposed Response Cl 176C SC 176C. Heck, Howard Comment Type T	ength, Np, for IT JI. This is scaled entation is plann <i>Response</i> 4.4.4.3 <i>Comment</i>	T noise calibration of from N=11 in p ed to support the <i>Status</i> <b>O</b> P709 TE Connectivit <i>t Status</i> <b>X</b>	802.3ck to acco e suggested rem <i>L</i> 31 ty	unt for the reduction i ledy. # <u>553</u>
uggestedRemedy Change TBD to 3.25 dl the suggested remedy. roposed Response / 176C SC 176C.4.3. eck, Howard omment Type T The method specified f defined in 179.9.4.3 wit uggestedRemedy	B, taken from KR Table 178-6 Response Status O .4 P705 TE Connectivit Comment Status X for signal-to-residual-intersyml th exceptions TBD.	. A presentation <i>L</i> <b>25</b> y pol-interference	th is planned to support # <u>550</u> ratio (SNR_ISI) is	The linear fit pulse le SuggestedRemedy Change TBD to 22 U unit interval. A prese Proposed Response Cl 176C SC 176C. Heck, Howard Comment Type T	ength, Np, for IT JI. This is scaled entation is plann <i>Response</i> 4.4.4.3 <i>Comment</i> ss, Ildd, for Rx I	T noise calibration of from N=11 in p ed to support the <i>Status</i> <b>O</b> P709 TE Connectivit <i>t Status</i> <b>X</b>	802.3ck to acco e suggested rem <i>L</i> 31 ty	unt for the reduction i ledy.
uggestedRemedy Change TBD to 3.25 dl the suggested remedy. roposed Response 7 176C SC 176C.4.3. eck, Howard comment Type T The method specified f defined in 179.9.4.3 wit uggestedRemedy Remove "with exceptio	B, taken from KR Table 178-6 <i>Response Status</i> O .4 P705 TE Connectivit <i>Comment Status</i> X for signal-to-residual-intersyml	. A presentation <i>L</i> <b>25</b> y pol-interference	th is planned to support # <u>550</u> ratio (SNR_ISI) is	The linear fit pulse le SuggestedRemedy Change TBD to 22 U unit interval. A prese Proposed Response Cl 176C SC 176C.4 Heck, Howard Comment Type T Min/max insertion lo	ength, Np, for IT JI. This is scaled entation is plann <i>Response</i> 4.4.4.3 <i>Comment</i> ss, Ildd, for Rx I	T noise calibration of from N=11 in p ed to support the <i>Status</i> <b>O</b> P709 TE Connectivit <i>t Status</i> <b>X</b>	802.3ck to acco e suggested rem <i>L</i> 31 ty	unt for the reduction i ledy. # <u>553</u>
Change TBD to 3.25 dl the suggested remedy. Proposed Response 7 176C SC 176C.4.3. eck, Howard Comment Type T The method specified f defined in 179.9.4.3 with SuggestedRemedy Remove "with exceptio remedy.	B, taken from KR Table 178-6 <i>Response Status</i> O .4 P705 TE Connectivit <i>Comment Status</i> X for signal-to-residual-intersyml th exceptions TBD. Ins TBD." A presentation is pla	. A presentation <i>L</i> <b>25</b> y pol-interference	th is planned to support # <u>550</u> ratio (SNR_ISI) is	The linear fit pulse le SuggestedRemedy Change TBD to 22 U unit interval. A prese Proposed Response Cl 176C SC 176C.4 Heck, Howard Comment Type T Min/max insertion lo and class A/B packa SuggestedRemedy	ength, Np, for IT JI. This is scaled entation is plann <i>Response</i> 4.4.4.3 <i>Comment</i> ss, Ildd, for Rx I age.	T noise calibration of from N=11 in p ed to support the <i>Status</i> <b>O</b> <i>P</i> <b>709</b> TE Connectivit <i>Status</i> <b>X</b> TT is TBD for all	802.3ck to acco e suggested rem <i>L</i> 31 ty combinations o	unt for the reduction i ledy. # <u>553</u>
SuggestedRemedy Change TBD to 3.25 dl the suggested remedy. Proposed Response Cl 176C SC 176C.4.3. Heck, Howard Comment Type T The method specified f defined in 179.9.4.3 wit SuggestedRemedy Remove "with exceptio	B, taken from KR Table 178-6 Response Status O .4 P705 TE Connectivit Comment Status X for signal-to-residual-intersyml th exceptions TBD.	. A presentation <i>L</i> <b>25</b> y pol-interference	th is planned to support # <u>550</u> ratio (SNR_ISI) is	The linear fit pulse le SuggestedRemedy Change TBD to 22 L unit interval. A prese Proposed Response Cl 176C SC 176C.4 Heck, Howard Comment Type T Min/max insertion lo and class A/B packa	ength, Np, for IT JI. This is scaled entation is plann <i>Response</i> 4.4.4.3 <i>Comment</i> ss, Ildd, for Rx I age.	T noise calibration d from N=11 in p ed to support the <i>Status</i> <b>O</b> <i>P</i> <b>709</b> TE Connectivit <i>t Status</i> <b>X</b> TT is TBD for all e specific values	802.3ck to acco e suggested rem <i>L</i> 31 ty combinations o	unt for the reduction i ledy. # <u>553</u>

C/ 176C SC 176C.5	P <b>710</b>	L25	# 554	C/ 178 SC 178.9	.3.3.2	P <b>346</b>	L <b>25</b>	# 557
Heck, Howard	TE Connectivity	,		Heck, Howard		TE Connectivi	ty	
Comment Type T	Comment Status X			Comment Type T	Comment	Status X		
	num insertion loss at 53.125 GH	lz in Table 176	C-5 is TBD in D1.3.	D1.3 has N_p = 40 with values used in		libration. This is	inconsistent wi	th the value in 179 and
SuggestedRemedy				SuggestedRemedy				
https://ieee802.org/3/o	3, based upon results presented dj/public/24_07/heck_3dj_01a_2			Change N_p from 4 planned to support			ue in 179.9.4.5.1	<ol> <li>A presentation is</li> </ol>
Proposed Response	Response Status O			Proposed Response	Response			
				r roposed Response	Responses			
C/ 176C SC 176C.5.2	2 P713	L <b>37</b>	# 555			<b>D</b> - <b>-</b> -		
Heck, Howard	TE Connectivity	,		C/ 178 SC 178.1	0.1	P350	L 38	# 558
Comment Type T	Comment Status X			Heck, Howard		TE Connectivi	ty	
Recommended maxin	num insertion loss at 53.125 GH	Iz and its defini	ing equation is TBD in	Comment Type E	Comment			
D1.3.				The value for COM	single-ended reco	eiver terminatio	n resistance is h	nighlighted in
D1.0.								0 0
-				orange.This value i				0 0
SuggestedRemedy Change the sub-claus	se to be consistent with the appro			orange.This value i SuggestedRemedy	s consistent with			
SuggestedRemedy Change the sub-claus equation and plot, and	d set the maximum insertion loss	s to be consiste		orange.This value i SuggestedRemedy Remove the orang	s consistent with t	those in 179 and		
SuggestedRemedy Change the sub-claus equation and plot, and adopted in Table 1760	d set the maximum insertion loss C-5 (subject of another commen	s to be consiste		orange.This value i SuggestedRemedy	s consistent with	those in 179 and		
SuggestedRemedy Change the sub-claus equation and plot, and	d set the maximum insertion loss	s to be consiste		orange.This value i SuggestedRemedy Remove the orang	s consistent with t	those in 179 and		
SuggestedRemedy Change the sub-claus equation and plot, and adopted in Table 1760 Proposed Response	d set the maximum insertion loss C-5 (subject of another commen <i>Response Status</i> <b>O</b>	s to be consiste t).	ent with the value	orange.This value i SuggestedRemedy Remove the orang	s consistent with the highlighting.	those in 179 and		# 559
SuggestedRemedy Change the sub-claus equation and plot, and adopted in Table 1760 Proposed Response	d set the maximum insertion loss C-5 (subject of another commen <i>Response Status</i> <b>O</b>	s to be consiste		orange.This value i SuggestedRemedy Remove the orango Proposed Response	s consistent with the highlighting.	those in 179 and S <i>tatus</i> <b>O</b>	d 176C.	
SuggestedRemedy Change the sub-claus equation and plot, and adopted in Table 1760 Proposed Response	d set the maximum insertion loss C-5 (subject of another commen <i>Response Status</i> <b>O</b>	s to be consiste t). L 34	ent with the value	orange.This value i SuggestedRemedy Remove the orange Proposed Response Cl 176C SC 176C	s consistent with the highlighting.	those in 179 and S <i>tatus</i> <b>O</b> <i>P</i> <b>711</b> TE Connectivi	d 176C.	
SuggestedRemedy Change the sub-claus equation and plot, and adopted in Table 1760 Proposed Response Cl 176C SC 176C.5.3 Heck, Howard	d set the maximum insertion loss C-5 (subject of another commen <i>Response Status</i> <b>O</b> <b>3 P714</b>	s to be consiste t). L 34	ent with the value	orange.This value i SuggestedRemedy Remove the orange Proposed Response Cl 176C SC 176C Heck, Howard Comment Type E	s consistent with the highlighting. Response of <b>5.1</b> Comment	those in 179 and Status <b>O</b> P <b>711</b> TE Connectivi Status <b>X</b>	d 176C. <i>L</i> <b>37</b> ty	
SuggestedRemedy Change the sub-claus equation and plot, and adopted in Table 1760 Proposed Response Cl 176C SC 176C.5.3 Heck, Howard Comment Type T In D1.3, sub-annex 17	d set the maximum insertion loss C-5 (subject of another commen <i>Response Status</i> <b>O</b> <b>3</b> <i>P</i> <b>714</b> TE Connectivity <i>Comment Status</i> <b>X</b> 76C.5.3 lists the channel ERL as	s to be consiste t). <i>L</i> <b>34</b> , S TBD, while Ta	ent with the value # <u>556</u> able 176C-5 specifies a	orange.This value i SuggestedRemedy Remove the orange Proposed Response Cl 176C SC 176C Heck, Howard Comment Type E	s consistent with the highlighting. Response of the sponse	those in 179 and Status <b>O</b> <b>P711</b> TE Connectivi Status <b>X</b> eiver transmitter	d 176C. <i>L</i> 37 ty r termination res	# <u>559</u> sistance in Table 176C-
SuggestedRemedy Change the sub-claus equation and plot, and adopted in Table 1760 Proposed Response Cl 176C SC 176C.5.3 Heck, Howard Comment Type T In D1.3, sub-annex 17 value of 9.7 dB (minin	d set the maximum insertion loss C-5 (subject of another commen <i>Response Status</i> <b>O</b> <b>3</b> <i>P</i> <b>714</b> TE Connectivity <i>Comment Status</i> <b>X</b>	s to be consiste t). <i>L</i> <b>34</b> , S TBD, while Ta	ent with the value # <u>556</u> able 176C-5 specifies a	orange.This value i SuggestedRemedy Remove the orange Proposed Response Cl 176C SC 176C Heck, Howard Comment Type E The value for COM	s consistent with the highlighting. Response of the sponse	those in 179 and Status <b>O</b> <b>P711</b> TE Connectivi Status <b>X</b> eiver transmitter	d 176C. <i>L</i> 37 ty r termination res	# <u>559</u> sistance in Table 176C-
SuggestedRemedy Change the sub-claus equation and plot, and adopted in Table 1760 Proposed Response Cl 176C SC 176C.5.3 Heck, Howard Comment Type T In D1.3, sub-annex 17 value of 9.7 dB (minin against D1.2.	d set the maximum insertion loss C-5 (subject of another commen <i>Response Status</i> <b>O</b> <b>3</b> <i>P</i> <b>714</b> TE Connectivity <i>Comment Status</i> <b>X</b> 76C.5.3 lists the channel ERL as	s to be consiste t). <i>L</i> <b>34</b> , S TBD, while Ta	ent with the value # <u>556</u> able 176C-5 specifies a	orange.This value i SuggestedRemedy Remove the orange Proposed Response Cl 176C SC 176C Heck, Howard Comment Type E The value for COM 6 is highlighted in c	s consistent with the highlighting. <i>Response</i> and <b>5.1</b> Comment single-ended recorrange. This value	those in 179 and Status <b>O</b> <b>P711</b> TE Connectivi Status <b>X</b> eiver transmitter	d 176C. <i>L</i> 37 ty r termination res	# <u>559</u> sistance in Table 176C-
SuggestedRemedy Change the sub-claus equation and plot, and adopted in Table 1760 Proposed Response Cl 176C SC 176C.5.3 Heck, Howard Comment Type T In D1.3, sub-annex 17 value of 9.7 dB (minin against D1.2. SuggestedRemedy	d set the maximum insertion loss C-5 (subject of another commen <i>Response Status</i> <b>O</b> <b>3</b> <i>P</i> <b>714</b> TE Connectivity <i>Comment Status</i> <b>X</b> 76C.5.3 lists the channel ERL as num), which was the value adop	s to be consistent). <i>L</i> 34 s TBD, while Ta ted in the resol	# <u>556</u> # <u>556</u> able 176C-5 specifies a lution of comment #66	orange.This value i SuggestedRemedy Remove the orange Proposed Response Cl 176C SC 176C Heck, Howard Comment Type E The value for COM 6 is highlighted in c SuggestedRemedy	s consistent with the highlighting. <i>Response</i> <b>.</b> <b>.5.1</b> <i>Comment</i> single-ended recorrange. This value e highlighting.	those in 179 and Status <b>O</b> <b>P711</b> TE Connectivi Status <b>X</b> eiver transmitter is consistent w	d 176C. <i>L</i> 37 ty r termination res	# <u>559</u> sistance in Table 176C-
SuggestedRemedy Change the sub-claus equation and plot, and adopted in Table 1760 Proposed Response Cl 176C SC 176C.5.3 Heck, Howard Comment Type T In D1.3, sub-annex 17 value of 9.7 dB (minin against D1.2. SuggestedRemedy Set the minimum ERL	d set the maximum insertion loss C-5 (subject of another commen <i>Response Status</i> <b>O</b> <b>3</b> <i>P</i> <b>714</b> TE Connectivity <i>Comment Status</i> <b>X</b> 76C.5.3 lists the channel ERL as	s to be consistent). <i>L</i> <b>34</b> , s TBD, while Ta ted in the resol B, consistent w	# <u>556</u> # <u>556</u> able 176C-5 specifies a lution of comment #66	orange.This value i SuggestedRemedy Remove the orange Proposed Response Cl 176C SC 176C Heck, Howard Comment Type E The value for COM 6 is highlighted in c SuggestedRemedy Remove the orange	s consistent with the highlighting. <i>Response</i> and the second sec	those in 179 and Status <b>O</b> <b>P711</b> TE Connectivi Status <b>X</b> eiver transmitter is consistent w	d 176C. <i>L</i> 37 ty r termination res	# <u>559</u> sistance in Table 176C-

C/ 179A	SC 179A.5	P802	L12	# 560
Heck, How	ard	TE Connectiv	ity	
Comment 7	Туре Т	Comment Status X		
that 13 (16+8.2	dB @ 53.125 G	alculation in Figure 179A-3 c Hz = (16+4.45+4.45)-(2*9.75 5). The 8.25 dB is taken fron 5 GHz)	5). The correct ed	quationis 13 dB =
Suggested	Remedy			
0	e the equation in (16+8.25+8.25)-	Figure 179A-3 to "Channel (2*9.75)	Min (TP0d-TP5d	l) = 13 dB @ 53.125
Proposed H	Response	Response Status 0		