7 1 SC 1.4	P 53	L 8	# 194	Cl 45	SC 45.2.1.161	P 90	L14	# 38	
lavick, Jeff	Broadcom			Bruckman, Le	eon	Nvidia			
comment Type TR Co	mment Status R		(withdrawn)	Comment Typ	pe TR	Comment Status A			(bucket)
We're heavily using round-rob	oin but have no definition	on for it		Missing n	new preset 6 that	t was added duirng D1	.3 CRG		
uggestedRemedy				SuggestedRe	emedy				
Add a definition of round-robin				In Table 4	45-129 change	"Reserved" for Initial co	ondition request = 10	1 to "preset 6"	
source/destination once and t each time."	then continuously repe	ats the iteration	using the same order	Response		Response Status C			
esponse Res	ponse Status Z			ACCEPT.					
REJECT.	,			C/ 45	SC 45.2.1.165	P 92	L10	# 39	
This commont was WITHDD.	MM/NI by the commonte	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Bruckman, Le		Nvidia			
This comment was WITHDRA	Avvin by the commente			Comment Typ		Comment Status A			(bucket)
1 SC 1.5	P 57	L 22	# 33			t was added duirng D1	.3 CRG		()
'Ambrosia, John	Futurewei, U.	S. Subsidiary of	Huawei	SuggestedRe	emedv				
	mment Status R		(bucket)	00		"Reserved" for Initial co	ndition request = 10	1 to "preset 6"	
The abbreviation FAW is not	listed			Response		Response Status C			
uggestedRemedy				ACCEPT		,			
Add to 1.5									
FAW frame alignmen	nt word			01.45			10	# 0	
FAW frame alignmen					SC 45.2.1.168	-	L8	# 2	
5	nt word Sponse Status C			Marris, Arthur	r	Cadence	L 8 Design Systems	# 2	(huslast)
esponse Res REJECT. "FAW" is a field specific to the	sponse Status C e FEC frame defined ir			Marris, Arthur Comment Typ	r De E	Cadence Comment Status A	-	# 2	(bucket)
REJECT. "FAW" is a field specific to the thus is not an acronym in the	ponse Status C e FEC frame defined ir broad sense. If we add	d one field name		Marris, Arthur Comment Typ Grammar	r be E r. Change "defir	Cadence Comment Status A	-	# 2	(bucket)
Pesponse Res REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated	ponse Status C e FEC frame defined ir broad sense. If we add I to add all (acronym) fi	d one field name ield names.	(acronym) like this we	Marris, Arthur Comment Typ Grammar SuggestedRe	r De E r. Change "defir emedy	Cadence Comment Status A nes" to "define"	Design Systems		(bucket)
Response Res REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated 7/45 SC 45.2.1	ponse Status C e FEC frame defined ir broad sense. If we add I to add all (acronym) fi	d one field name ield names. <i>L</i> 30		Marris, Arthur Comment Typ Grammar SuggestedRe Change "	r De E r. Change "defir emedy	Cadence Comment Status A nes" to "define" ine". Also correct typo R	Design Systems		(bucket)
Response Res REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated of 45 SC 45.2.1 Marris, Arthur	e FEC frame defined ir broad sense. If we add I to add all (acronym) fi P71 Cadence Des	d one field name ield names. <i>L</i> 30	# (acronym) like this we	Marris, Arthur Comment Typ Grammar SuggestedRe Change " Response	r be E r. Change "defir emedy defines" to "def	Cadence Comment Status A nes" to "define"	Design Systems		(bucket)
Response Res REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated (7 45 SC 45.2.1 Marris, Arthur comment Type T Co	e FEC frame defined ir broad sense. If we add I to add all (acronym) fi P71 Cadence Des mment Status A	d one field name ield names. <i>L</i> 30 sign Systems	# (acronym) like this we # 10 (bucket)	Marris, Arthur Comment Typ Grammar SuggestedRe Change "	r be E r. Change "defir emedy defines" to "def	Cadence Comment Status A nes" to "define" ine". Also correct typo R	Design Systems		(bucket)
Response Res REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated of 45 SC 45.2.1 Marris, Arthur	e FEC frame defined ir broad sense. If we add I to add all (acronym) fi P71 Cadence Des mment Status A veds to be reserved in T	d one field name ield names. <i>L</i> 30 sign Systems	# (acronym) like this we # 10 (bucket)	Marris, Arthur Comment Typ Grammar SuggestedRe Change " Response ACCEPT.	r be E r. Change "defir emedy defines" to "def	Cadence Comment Status A nes" to "define" ine". Also correct typo h Response Status C	Design Systems		(bucket)
Response Res REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated 1/45 SC 45.2.1 Marris, Arthur comment Type T Co An address space of 1500 ne	e FEC frame defined ir broad sense. If we add I to add all (acronym) fi P71 Cadence Des mment Status A veds to be reserved in T	d one field name ield names. <i>L</i> 30 sign Systems	# (acronym) like this we # 10 (bucket)	Marris, Arthur Comment Typ Grammar SuggestedRe Change " Response ACCEPT.	r E De E r. Change "definer emedy defines" to "def SC 45.2.1.168	Cadence Comment Status A nes" to "define" ine". Also correct typo R Response Status C	Design Systems	" to "1.1463"	(bucket)
Response Res REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated If 45 SC 45.2.1 Marris, Arthur Comment Type T Co An address space of 1500 ne training registers for the AUL or uggested Remedy Expand the address space all	e FEC frame defined ir broad sense. If we add to add all (acronym) fi P71 Cadence Des mment Status A eeds to be reserved in Tupper component	d one field name ield names. <i>L</i> 30 sign Systems Table 45-3 for the of ILT training re	e (acronym) like this we # 10 (bucket) e duplication of ILT egisters for the AUI	Marris, Arthur Comment Typ Grammar SuggestedRe Change Response ACCEPT. Cl 45 Marris, Arthur Comment Typ	r be E r. Change "define emedy defines" to "def SC 45.2.1.168 r be E	Cadence Comment Status A nes" to "define" ine". Also correct typo R Response Status C	Design Systems by changing "1.1464 <i>L</i> 35	" to "1.1463"	(bucket)
Pesponse Res REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated V 45 SC 45.2.1 Marris, Arthur Comment Type T Co An address space of 1500 ne training registers for the AUL uggestedRemedy Expand the address space all upper component" appropriate	e FEC frame defined ir broad sense. If we add I to add all (acronym) fi P71 Cadence Des mment Status A eeds to be reserved in T upper component located to "Duplication ely, suggest 1.3000 to	d one field name ield names. <i>L</i> 30 sign Systems Table 45-3 for the of ILT training re 1.4500, as the ra	# (acronym) like this we # 10 (bucket) e duplication of ILT egisters for the AUI ange of the PMA test	Marris, Arthur Comment Typ Grammar SuggestedRe Change Response ACCEPT. Cl 45 Marris, Arthur Comment Typ	r E r. Change "define emedy defines" to "def SC 45.2.1.168 r	Cadence Comment Status A nes" to "define" ine". Also correct typo R Response Status C P95 Cadence	Design Systems by changing "1.1464 <i>L</i> 35	" to "1.1463"	
Response Res REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated If 45 SC 45.2.1 Marris, Arthur Comment Type T Co An address space of 1500 ne training registers for the AUL or uggested Remedy Expand the address space all	e FEC frame defined ir broad sense. If we add I to add all (acronym) fi P71 Cadence Des mment Status A eeds to be reserved in T upper component located to "Duplication ely, suggest 1.3000 to ely to be reduced. Add	d one field name ield names. <i>L</i> 30 sign Systems Table 45-3 for the of ILT training re 1.4500, as the ra a new subclause	# (acronym) like this we # 10 (bucket) e duplication of ILT egisters for the AUI ange of the PMA test	Marris, Arthur Comment Typ Grammar SuggestedRe Change " Response ACCEPT. CI 45 Marris, Arthur Comment Typ Correct ta SuggestedRe	r E c. Change "definer emedy defines" to "def SC 45.2.1.168 r se E able reference emedy	Cadence Comment Status A nes" to "define" ine". Also correct typo R Response Status C c P95 Cadence Comment Status A	Design Systems by changing "1.1464 <i>L</i> 35 Design Systems	" to "1.1463" # <u>3</u>	(bucket)
Response Response REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated # 45 SC 45.2.1 Marris, Arthur T comment Type T Co An address space of 1500 ne training registers for the AUI or uggestedRemedy Expand the address space all upper component" appropriated block error bin counters is like PMA/PMD register subsection	e FEC frame defined ir broad sense. If we add I to add all (acronym) fi P71 Cadence Des mment Status A eeds to be reserved in T upper component located to "Duplication ely, suggest 1.3000 to ely to be reduced. Add	d one field name ield names. <i>L</i> 30 sign Systems Table 45-3 for the of ILT training re 1.4500, as the ra a new subclause	# (acronym) like this we # 10 (bucket) e duplication of ILT egisters for the AUI ange of the PMA test	Marris, Arthur Comment Typ Grammar SuggestedRe Change " Response ACCEPT. CI 45 Marris, Arthur Comment Typ Correct ta SuggestedRe Correct ta	r be E r. Change "defin emedy defines" to "def SC 45.2.1.168 r be E able reference emedy able reference c	Cadence Comment Status A nes" to "define" ine". Also correct typo R Response Status C P95 Cadence	Design Systems by changing "1.1464 <i>L</i> 35 Design Systems	" to "1.1463" # <u>3</u>	(bucket)
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Persponse Response REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated If 45 SC 45.2.1 Marris, Arthur Sc 45.2.1 Marris, Arthur T comment Type T Co An address space of 1500 ne training registers for the AUI of uggestedRemedy Expand the address space all upper component" appropriate block error bin counters is like PMA/PMD register subsection Persponse Response	e FEC frame defined ir broad sense. If we add I to add all (acronym) fi P71 Cadence Des mment Status A eeds to be reserved in T upper component located to "Duplication ely, suggest 1.3000 to ely to be reduced. Add in to describe these reg	d one field name ield names. <i>L</i> 30 sign Systems Table 45-3 for the of ILT training re 1.4500, as the ra a new subclause	# (acronym) like this we # 10 (bucket) e duplication of ILT egisters for the AUI ange of the PMA test	Marris, Arthur Comment Typ Grammar SuggestedRe Change " Response ACCEPT. CI 45 Marris, Arthur Comment Typ Correct ta SuggestedRe Correct ta	r be E r. Change "define emedy defines" to "defines" SC 45.2.1.168 r be E able reference emedy able reference cone 0"	Cadence Comment Status A nes" to "define" ine". Also correct typo R Response Status C c P95 Cadence Comment Status A	Design Systems by changing "1.1464 <i>L</i> 35 Design Systems	" to "1.1463" # <u>3</u>	(bucket)
Persponse Response REJECT. "FAW" is a field specific to the thus is not an acronym in the would effectively be obligated If 45 SC 45.2.1 Marris, Arthur Sc 45.2.1 Marris, Arthur T comment Type T Co An address space of 1500 ne training registers for the AUI of uggestedRemedy Expand the address space all upper component" appropriate block error bin counters is like PMA/PMD register subsection Persponse Response	e FEC frame defined ir broad sense. If we add I to add all (acronym) fi P71 Cadence Des mment Status A eeds to be reserved in T upper component located to "Duplication ely, suggest 1.3000 to ely to be reduced. Add in to describe these reg	d one field name ield names. <i>L</i> 30 sign Systems Table 45-3 for the of ILT training re 1.4500, as the ra a new subclause	# (acronym) like this we # 10 (bucket) e duplication of ILT egisters for the AUI ange of the PMA test	Marris, Arthur Comment Typ Grammar SuggestedRe Change " Response ACCEPT. Cl 45 Marris, Arthur Comment Typ Correct ta SuggestedRe Correct ta delete "lau	r be E r. Change "define emedy defines" to "defines" SC 45.2.1.168 r be E able reference emedy able reference cone 0"	Cadence Comment Status A nes" to "define" ine". Also correct typo R Response Status C c P95 Cadence Comment Status A	Design Systems by changing "1.1464 <i>L</i> 35 Design Systems	" to "1.1463" # <u>3</u>	(bucket)

SORT ORDER: Clause, Subclause, page, line

SC 45.2.1	168d	P 96	L12	# 4	C/ 45	SC	45.2.1.21	3b	P101	L15	# 40
ur		Cadence Des	ign Systems		Bruckmar	n, Leon			Nvidia		
/pe E	Comme	ent Status A		(bucket)	Comment	Туре	TR	Comme	ent Status A		(bucket)
inor tweaks	to bit descript	tions in Table 45-13	33d								
emedy								8 bits for t	his function that w	ill be defined in a	clause 45.2.1.213e
							•				
78.10 chan			ut lanes are"								e the references in
	Respon	se Status C						•			
Т.								,			
SC 45.2.1	177b	P 99	L1	# 5			-		ed"		
ur		Cadence Des	ign Systems		C/ 45	SC	45.2.1.21	3e	P103	L 6	# 7
/pe E	Comme	ent Status A		(bucket)	Marris, Ar	rthur			Cadence Des	sign Systems	
register nun	ber in the title	e			Comment	Туре	т	Comme	ent Status A		(bucket)
emedy					Editor	's note	needs to l	oe remove	d		. ,
"1.1816" to	"1.1819"				Suggeste	dRemed	dy				
	Respon	se Status C			Repla	ce edito	or's note w	ith suitable	e content		
Т.					Response)		Respon	se Status C		
SC 45 2 1	1780	P100	12	# 6	ACCE	EPT IN I	PRINCIPL	,			
	1700		-	# <u>0</u>						4.9.1 and are lis	ted in Table 177-7. Add
	Comm		ign Systems	(buckot)	neces	sary la	bie and le	XUIN 45.2.1	.213e.		
,				(DUCKEI)	C/ 45	SC	45.2.1.21	3n	P107	L 23	# 8
					Marris, Ar	rthur			Cadence Des	sign Systems	
•	"45 141c" in	two places and c	hango subelaus	number from	Comment	Туре	Е	Comme	ent Status A		(bucket)
		i two places, and c	mange subciause		Corre	ct regist	ter range a	and add ta	ble to define these	error bin counte	er registers
	Respon	se Status C			Suggeste	dRemed	dy				
T IN PRINC	PLE.										Add table to indicate
the subclau	se and table r	numbering with edit	orial license.		Response)		Respon	se Status C		
ion column		om:	e in CL 186, char	ge the text in the	ACCE	EPT.					
	ur pe E inor tweaks emedy 78.13 chang 78.13 chang 78.13 chang 78.10 chang T. SC 45.2.1. ur pe E register num emedy "1.1816" to T. SC 45.2.1. ur /pe E table numbe emedy "45-142c" to 178c" to "45. T IN PRINCI the subclaus on, to match	ur ype E Commu- inor tweaks to bit descript emedy 78.13 change "It indicate 78.10 change "each inpu Respon T. SC 45.2.1.177b ur ype E Commu- register number in the title emedy "1.1816" to "1.1819" Respon T. SC 45.2.1.178c ur ype E Commu- table number emedy "45-142c" to "45-141c" in 178c" to "45.2.1.177c" Respon T IN PRINCIPLE. the subclause and table r on, to match the change of the subclause and table r	urCadence DesignerupeEComment StatusupeEComment StatusupeEComment StatusupeIt indicates" to "This bit indicates" to "This bit indicates" to "all input lane is"	ur Cadence Design Systems ype E Comment Status A inor tweaks to bit descriptions in Table 45-133d emedy 78.13 change "It indicates" to "This bit indicates" 78.10 change "each input lane is" to "all input lanes are" Response Status C T. SC 45.2.1.177b P99 L1 ur Cadence Design Systems ype E Comment Status A register number in the title emedy "1.1816" to "1.1819" Response Status C T. SC 45.2.1.178c P100 L3 ur Cadence Design Systems ype E Comment Status A table number emedy "45-142c" to "45-141c" in two places, and change subclause 178c" to "45.2.1.177c" Response Status C T IN PRINCIPLE. the subclause and table numbering with editorial license. on, to match the change of the feature name in CL 186, chan	ur Cadence Design Systems rpe E Comment Status A (bucket) inor tweaks to bit descriptions in Table 45-133d emedy 78.13 change "It indicates" to "This bit indicates" 78.10 change "each input lane is" to "all input lanes are" Response Status C r. SC 45.2.1.177b P99 L1 # 5 ur Cadence Design Systems rpe E Comment Status A (bucket) register number in the title emedy "1.1816" to "1.1819" Response Status C r. SC 45.2.1.178c P100 L3 # 6 ur Cadence Design Systems rpe E Comment Status A (bucket) register number in the title emedy "1.1816" to "1.1819" Response Status C r. SC 45.2.1.178c P100 L3 # 6 ur Cadence Design Systems rpe E Comment Status A (bucket) table number emedy "45-142c" to "45-141c" in two places, and change subclause number from 178c" to "45.2.1.177c" Response Status C T IN PRINCIPLE. the subclause and table numbering with editorial license. on, to match the change of the feature name in CL 186, change the text in the	ur Cadence Design Systems Bruckman the period Comment Status A (bucket) inor tweaks to bit descriptions in Table 45-133d In table draft. emedy 78.13 change "It indicates" to "This bit indicates" Suggeste 78.13 change "It indicates" to "all input lanes are" Response Status C Suggeste r. Response Status C Comment SC 45.2.1.177b P99 L1 # 5 ype E Comment Status A (bucket) Marris, Ai register number in the title Comment Status A (bucket) "1.1816" to "1.1819" Suggestems Ci 45 sur Cadence Design Systems Ci 45 ur Cadence Design Systems Ci 45 ur Cadence Design Systems Ci 45 sur Cadence Design Systems ACCE rur Cadence Design Systems Ci 45 ur C	ur Cadence Design Systems Bruckman, Leon uppe E Comment Status A (bucket) inor tweaks to bit descriptions in Table 45-133d (bucket) In table 45-14 ermedy 78.13 change "It indicates" to "This bit indicates" (bucket) In table 45-14 78.13 change "It indicates" to "This bit indicates" Comment Type In table 45-14 78.13 change "It indicates" to "This bit indicates" Comment Type In table 45-14 78.13 change "It indicates" to "This bit indicates" Comment Type In table 45-14 78.10 change "each input lane is" to "all input lanes are" Response Status C Response r. Cadence Design Systems (bucket) Change bit 1 or Cadence Design Systems (bucket) Change bit 1 register number in the title (bucket) Change bit 1 Cl 45 SC r. SC 45.2.1.178c P100 L3 # Image: Comment Type Editor's note SuggestedRemee Cleared tit r. Cadence Design Systems (bucket) Cl 45 SC r. Sc 45.2.1.178c P100 L3 # Image: Comment Type Corec	ur Cadence Design Systems ppe E Comment Status A (bucket) inor tweaks to bit descriptions in Table 45-133d (bucket) In table 45-142c new 1 emedy 78.13 change "It indicates" to "This bit indicates" This bit indicates" 78.10 change "each input lane is" to "all input lanes are" SuggestedRemedy T. Response Status C Either change the definit section 177.9 to becom SC 45.2.1.177b P99 L1 # 5 yr Cadence Design Systems (bucket) register number in the title (bucket) Marris, Arthur emedy "1.1816" to "1.1819" Editor's note needs to I SuggestedRemedy r. Cadence Design Systems C SuggestedRemedy register number Cadence Design Systems C SuggestedRemedy ref. Cadence Design Systems C SuggestedRemedy ref. Cadence Design Systems C SuggestedRemedy ref. Cadence Design Systems Correct register range i ref. Cadence Design Systems Correct register range i ref. Cadence Design Systems Correct registe	ur Cadence Design Systems upe E Comment Status A (bucket) inor tweaks to bit descriptions in Table 45-133d In table 45-142c new 1.2402.15 b draft. Clause 177 uses 8 bits for t armedy 78.10 change "tai indicates" to "all input lanes are" Response Status C SuggestedRemedy r. Cadence Design Systems C Ether change the definition of bit section 177.9 to become a single gree E Comment Status A (bucket) ar Cadence Design Systems C/ 45 SC 45.2.1.213e gree E Comment Status A (bucket) r. Cadence Design Systems C/ 45 SC 45.2.1.213e register number in the title Gadence Design Systems C/ 45 SC 45.2.1.213e r. Response Status C C The bits for this register are definencessary table and text in 45.2.1 r. Cadence Design Systems (bucket) C/ 45 SC 45.2.1.213a r. Cadence Design Systems (bucket) C/ 45 SC 45.2.1.213a r. Cadence Design Systems (bucket) C/ 45 SC 45.2.1.213a r. Cadence Design Systems	yr Cadence Design Systems ype E Comment Status A (bucket) inch treaks to bit descriptions in Table 45-133d (bucket) emedy 78.13 change "It indicates" to "This bit indicates" TR Comment Type TR Comment Status A r. Response Status C F. SC 45.2.1.177b P39 L1 # SuggestedRemedy yr Cadence Design Systems (bucket) Cl 45 SC 45.2.1.178c P100 L3 # Cl 45 SC 45.2.1.178c P100 L3 # Enditor's note needs to be removed yr Cadence Design Systems Cl 45 SC 45.2.1.178c P100 L3 # Enditor's note needs to be removed yr Cadence Design Systems Comment Type T Comment Status A Celtor's note with suitable content r Cadence Design Systems Comment Status A (bucket) Cl 45 SC 45.2.1.178c P100 L3 # Enditor's note welds to be removed SuggestedRemedy Replace editor's note with suitable content run Cadence Design Systems C Comment Type T Comment Type Comment Type<	yr Cadence Design Systems yre E Comment Status A (bucket) inor tweaks to bit descriptions in Table 45-133d (bucket) 78.10 change "It indicates" to "This bit indicates" The sponse Status C In table 45-142c new 1.2402.15 bit defined as "PRES31 is FEC enc dath. Clause 177 uses 8 bits tor this function that will be defined in or dath. Clause 177 uses 8 bits tor this function that will be defined in or dath. Clause 177 uses 8 bits tor this function that will be defined in or dath. Clause 177 uses 8 bits tor this function that will be defined in or social to Times 7 bits tor this function that will be defined in or SuggestedRemedy r. Cadence Design Systems C yre Comment Status A (bucket) ril. 1816" to "1.1819" Cadence Design Systems gre Comment Status A (bucket) ril. 1816" to '1.1819" Cadence Design Systems gre Comment Status A (bucket) ril. 1816" to '1.1819" Response Status C SC 45.2.1.1776 P100 13 ril. '1820' to '45.2.1.178c P100 13 ril. '1820' to '45.2.1.177c' Cadence Design Systems Cadence Design Systems gree E Comment Status A (bucket) ril. 19 PRINCIPLE. The bits for this register are

CI 45	SC 45.2.1.213	ו <i>P</i> 107	L 25	# 196	CI 73 S	C 73.4	P 121	L19	# 231
Slavick, Jef	f	Broadcom			Ran, Adee		Cisco		
Comment T	ype TR	Comment Status A		(bucketp)	Comment Type	э Т	Comment Status A		(bucket
have a o	one way referenc	ncing clauses from Clause 4 e from those using the regis	ster storage loca	ation.	expression	s like "link	ord" appears many times in the codeword Base page" here, an ink codeword Unformatted".		
	8	a given lane should latch wh	ien din 0 dits 15	:0 are read.	The usual	Enalish wo	d order suggests that "link coo	deword" is a cor	mpound adjective.
SuggestedF							pe of "Base page", specific typ		
Have th	e clause read as	follows:			of "Unform	atted"		-	
from a F by the n Three re for a giv	PRBS data strear nanagement func egisters are used /en PMAL are late	bin counter registers provid n. These registers are rese- tion or upon reset, and held to read the value of each 4 ched when the first register registers for eight PMALs.	et to all zeros wh I at all ones in th 8-bit counter, th of bin 0 is read.	hen the register is read he case of overflow. e values of all registers	code" is or three can b The termin original Cla	e kind of N be referred ology in D [*] ause 73 (de	ent: "Base Page" is one thing, ext Page, and "Unformatted" is to together as "link codeword". .4 makes the text difficult to fo spite the good intent to clean i	s another kind c ollow, worse thar it), and would m	of Next Page. These In what it was in the ake readers familiar
blocks v symbol	with 1 test symbo errors, and so or	l error, the bin 2 register kee up to 15 test symbol errors	eps a count of te	est blocks with 2 test	code Next	Page" (whi	ed. It is especially difficult in c ch is a link codeword of type N		
blocks v symbol	with 1 test symbo errors, and so or	l error, the bin 2 register kee	eps a count of te	est blocks with 2 test	code Next SuggestedRen	Page" (whi nedy	ch is a link codeword of type N		
blocks v symbol blocks v <i>Response</i> ACCEP	with 1 test symbo errors, and so or with 16 or more te PT IN PRINCIPLE	l error, the bin 2 register kee up to 15 test symbol errors est symbol errors. <i>Response Status</i> C	eps a count of te . The bin 16p re	est blocks with 2 test	code Next SuggestedRen Use the fo "Base pag "Next page code or Ur	Page" (whi nedy lowing term e link code e link codev formatted)	ch is a link codeword of type N ns: vord" (one type of link codewor vord" (another type of link code	lext page of sub rd) eword; with two s	otype message code). subtypes, Message
blocks v symbol blocks v <i>Response</i> ACCEP	with 1 test symbo errors, and so or with 16 or more te PT IN PRINCIPLE	l error, the bin 2 register kee up to 15 test symbol errors est symbol errors. <i>Response Status</i> C d remedy with editorial licen	eps a count of te . The bin 16p re	est blocks with 2 test	code Next SuggestedRen "Base pag "Next page code or Ur "Message	Page" (whi nedy lowing term e link code link codev formatted) code Next	ch is a link codeword of type N ns: vord" (one type of link codewor vord" (another type of link code page link codeword" (a subtype	lext page of sub rd) eword; with two s e of Next page li	otype message code). subtypes, Message ink codeword)
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blocks v symbol blocks v Response ACCEP Implement Cl 45 Slavick, Jef Comment T	with 1 test symbo errors, and so or with 16 or more te PT IN PRINCIPLE ent the suggester SC 45.2.1.213 f f ype TR	l error, the bin 2 register kee oup to 15 test symbol errors est symbol errors. <i>Response Status</i> C d remedy with editorial licen P107 Broadcom <i>Comment Status</i> A	eps a count of te a. The bin 16p re se.	est blocks with 2 test egister counts test	code Next SuggestedRen Use the fo "Base pag "Next page code or Ur "Message "Unformatt	Page" (whi nedy lowing term e link code link codev formatted) code Next ed Next Pa ses, the ter	ch is a link codeword of type N ns: vord" (one type of link codewor vord" (another type of link code page link codeword" (a subtype	lext page of sub rd) eword; with two s e of Next page lin of Next page linl , "Message code	otype message code). subtypes, Message ink codeword) k codeword) e Next page" and
blocks v symbol blocks v Response ACCEP Implement Cl 45 Slavick, Jef Comment T Add Tat	with 1 test symbo errors, and so or with 16 or more te PT IN PRINCIPLE ent the suggester SC 45.2.1.213 f <i>Sype</i> T R bles to show lane	l error, the bin 2 register kee oup to 15 test symbol errors est symbol errors. <i>Response Status</i> C d remedy with editorial licen P107 Broadcom	eps a count of te a. The bin 16p re se.	# 198	code Next SuggestedRem Use the fo "Base pag "Next page code or Ur "Message "Unformatt In most ca "Unformatt	Page" (whi nedy lowing term e link codev formatted) code Next ed Next Pa ses, the ter ed Next pa	ch is a link codeword of type N ns: vord" (one type of link codewor rord" (another type of link code page link codeword" (a subtype ge link codeword" (a subtype of ms "Base Page", "Next Page",	lext page of sub rd) eword; with two s e of Next page lin of Next page linl , "Message code g "link codeword	otype message code). subtypes, Message ink codeword) k codeword) e Next page" and
blocks v symbol blocks v Response ACCEP Impleme Cl 45 Slavick, Jef Comment T Add Tat	with 1 test symbo errors, and so or with 16 or more te T IN PRINCIPLE ent the suggester SC 45.2.1.213 f SC 45.2.1.213 f gpe TR bles to show lane Remedy	l error, the bin 2 register kee oup to 15 test symbol errors est symbol errors. <i>Response Status</i> C d remedy with editorial licen P107 Broadcom <i>Comment Status</i> A	eps a count of te a. The bin 16p re se. <i>L</i> 34	# 198 (bucket)	code Next SuggestedRem Use the fo "Base pag "Next page code or Ur "Message "Unformatt In most ca "Unformatt	Page" (whi nedy lowing term e link codev formatted) code Next ed Next Pa ses, the ter ed Next pa	ch is a link codeword of type N NS: vord" (one type of link codewor vord" (another type of link code page link codeword" (a subtype ge link codeword" (a subtype of ms "Base Page", "Next Page", ge" can be used without adding	lext page of sub rd) eword; with two s e of Next page lin of Next page linl , "Message code g "link codeword	otype message code). subtypes, Message ink codeword) k codeword) e Next page" and

CI 73 SC 73.4

CI 73	SC 73.5.1	P 122	L 32	# 232	C/ 73	SC 73.10.2	P 134	L15	# 224
Ran, Ade	e	Cisco			Dawe, Piers		Nvidia		
Comment	Type ER	Comment Status A		(bucket)	Comment Ty	pe TR	Comment Status R		AN/LT timers
Also a	applies to 73.6, 73	ed by 802.3ck. The editorial in 3.7, 73.8 which were amende	d by 802.3ck and				ed, this timer should be invoke as there is e.g. a bad cable.	d very rarely: the	e link should come up
(Also	73.10, but it alrea	ady includes the required note	:)		SuggestedR	emedy			
Suggestee							t. Add a counter to flag when		
		IEEE Std 802.3ck-2022)" or ' 2.3df-2024)" into the editorial				candidate ab e non-functior	ilities). Maybe at that point it s ning link.	should report to i	management and shut
Response	9	Response Status C			Response		Response Status C		
ACCE	EPT.				REJECT				
CI 73	SC 73.5.1	P 122	L 32	# 233			ly does not provide sufficient d		
Ran, Ade	e	Cisco			changes	would chang	e behaviour for PHYs already	in the base stan	iuaru.
Comment	Type ER	Comment Status A		(bucket)					
	rial instructions sh applies to 73.5.1 a	hould be within the subclause and 73.6.	they address.						
Suggestee	dRemedy								
Move	the editorial instr	uction into the subclauses.							
Response	9	Response Status C							
ACCE	EPT.								
CI 73	SC 73.6.2.7	P 127	L 31	# 220					
Dawe, Pie	ers	Nvidia							
Comment	Type TR	Comment Status R		(bucketp)					
Remo It coul mV), o	ote Fault, because Id be used by a tr or is receiving sor	ult bit" with no clear indicatior e the MACs are not yet conne ansmitter whose receiver is n mething that's not AN (such a nel signal), or a signal that's t	cted during AN. ot receiving any s a regular scra	But it could be useful. thing (Vpkpk < 200 mbled RF Ethernet					
Suggestee	dRemedy								
Add te	ext detailing the u	se(s) of this bit.							
Response	;	Response Status C							

REJECT.

The suggested remedy does not provide sufficient detail to make a change to the draft.

Cl 73 SC 73.10.2

CI 73	SC 73.10.2	P 134	L15	# 234	C/ 116	SC 116.3.	2 P149	L 4	# 235
Ran, Adee	9	Cisco			Ran, Adee		Cisco		
Comment T	Туре Т	Comment Status R		AN/LT timers	Comment 7	ype ER	Comment Status A		(bucke
to-link,	and on the dow	for link_fail_inhibit_timer doe nside it creates an unaccepta ot if at least one of the link pa	ably long time to	ecover from a failed	The ed Figure		ion says "Replace Figure 169-2	2 with the following	ng figure:", which is
The cu	Irrent value was	adopted in order to allow ILT e to recovery from failure (or	in all ISLs to cor	nplete. This should be		y in several s Figure 116-3	subsequent instructions (which s 3, etc.).	should be to inse	ert Figure 116-2a,
be shor			enable restart by	management) should	Suggestedl Change		6" in the all editorial instructions	s in clause 116.	
		v adding a third possible value s value can be derived from e			Response ACCEF	T IN PRINC	Response Status C PLE.		
	nis new value, the .3ck) or even low	e period for link_fail_inhibit_ti /er.	mer can be redu	ced to 12 seconds (as	Implem	ent the sugg	ested remedy with editorial licer	nse.	
Suggestedl	lRemedy								
A detai	iled proposal will	be submitted.							
Response REJEC	CT.	Response Status C							
		on was reviewed by the CRG g/3/dj/public/25_03/ran_3dj_(
		us to implement the proposed g on this topic are encourage		time. Further work					
		are not required to make this ged to pursue this further duri							
2/ 116	SC 116.2.9	P147	L 39	# 41					
Bruckman,	, Leon	Nvidia							
Comment T	Туре Т	Comment Status A		(bucket)					
Text is	hard to parse.								
Suggestedl	IRemedy								
states, to: "For	, such as equaliz r each ISL, ILT p	, ILT provides a mechanism f ation, modulation, and preco- provides a mechanism for a re ation, modulation, and preco-	ding states, on the control	e peer transmitter,"					
Response	DT	Response Status C							

ACCEPT.

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

C/ 116 SC 116.3.2

should be provided by all sublayers using it. It is indeed shown for all other sublayers, but not here. detection of severe error conditions (e.g., no valid signal being received by the sublayer c.s* Atthough there is no explicit instruction in the PCS sublayers on generation of this primitive, it is definition in 116.3.3.4 should be sufficient. The parenthetic phrase is misleading; it is naturally interpreted as if there is no sign received direction. Indeed, the semantics of the IS_SIGNAL.indication primitive in 11 uess the exact same phrase. SuggestedRemedy Add a downward arrow with label "PMA:IS_SIGNAL.request" from the PCS to the PMA in gray 116-3.2, Figure 116-3.2, Figure 116-3.2, Figure 116-3.2, Figure 116-3.2, Figure 116-3.2, Figure 116-3.3, How 116.3.3, How 116.3, H	comment Status A PCS SI below hown is missing an arrow for PMA:IS_SIGNAL.request. Comment Type T Comment Status A (bucketp) hewn is missing an arrow for PMA:IS_SIGNAL.request. The description of IS_SIGNAL.REQUEST says: The description of IS_SIGNAL.Request primitive is generated by the transmit process to propagate the detection of severe error conditions (e.g., no valid signal being received by the sublayer) to the next lower sublayer <->* interface diagrams and in some block diagrams, as listed in the frequest "from the PCS to the PMA in S_SIGNAL.request" from the PCS to the PMA in S_Figure 116-3. Figure 116-3.	C/ 116	SC 11	6.3.2	P 149	L13		# 236	C/ 116	SC	116.3.3.4		P 153	L 42	# 237
The PMÅ service interface shown is missing an arrow for PMA:IS_SIGNAL.request. This primitive is part of the inter-sublayer sorvice interface (as defined in 116.3.3.4) and should be provided by all sublayers using it. It is indeed shown for all other sublayers, but not here. Although there is no explicit instruction in the PCS sublayers on generation of this primitive, its definition in 116.3.3.4 should be sufficient. Also in several other service interface diagrams and in some block diagrams, as listed in the suggested remedy. Suggested/Remedy Add a downward arrow with label "PMA:IS_SIGNAL.request" from the PCS to the PMA in each of the following figure 116-2. Figure 116-23, Figure 116-33, Figure 116-33, Figure 116-32, Figure 116-32, Figure 116-32, Figure 116-32, Figure 116-33, Figure 116-34, F	hown is missing an arrow for PMA:IS_SIGNAL.request. The description of IS_SIGNAL.REQUEST says: ther-sublayer service interface (as defined in 116.3.3.4) and bayers using it. It is indeed shown for all other sublayers, but instruction in the PCS sublayers on generation of this primitive, tables the sublayer is and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and in some block diagrams, as listed in interface diagrams and be approvide the sublayer is and the distribution. The performance diagram disthe diagram diagram dinterface diagram diagram diagram dinterface	Ran, Adee	9		Cisco				Ran, Adee				Cisco		
This primitive is part of the inter-sublayer service interface (as defined in 116.3.3.4) and should be provided by all sublayers using it. It is indeed shown for all other sublayers, but not here. Although there is no explicit instruction in the PCS sublayers on generation of this primitive, its definition in 116.3.3.4 should be sufficient. Also in several orber service interface diagrams and in some block diagrams, as listed in the suggested remedy. <i>SuggestedRemedy</i> Add a downward arrow with label "PMA:IS_SIGNAL:request" from the PCS to the PMA in each of the following figures: Figure 116-2, Figure 116-3, Figure 116-3	http://wildlayer.service interface (as defined in 116.33.4) and blayers using it. It is indeed shown for all other sublayers, but blayers using it. It is indeed shown for all other sublayers, but here is no signal in the receive direction of severe error conditions (e.g., no valid signal being received by the sublayer) to the next lower sublayer <->* instruction in the PCS sublayers on generation of this primitive, puld be sufficient. The IS_SIGNAL.request instructions (e.g., no valid signal being received by the sublayer) to the next lower sublayer <->* interface diagrams and in some block diagrams, as listed in . Figure 116.33, Figure 116.34, Figure 116.33, Figure 116.34, Figure 116.33, Figu	Comment	Туре Е	Ξ	Comment Status A	L .		PCS SI below	Comment	Туре	Т	Comment	Status A		(bucketp
 is definition in 116.3.3.4 should be sufficient. Also in several other service interface diagrams and in some block diagrams, as listed in the suggested remedy. Suggested Remedy Add a downward arrow with label "PMA:IS_SIGNAL.request" from the PCS to the PMA in each of the following figures: Figure 162, Figure 116-2a, Figure 116-2a, Figure 116-3a, Fi	Juld be sufficient. receive direction. Indeed, the semantics of the IS_SIGNAL.indication primitive in 116.3.3.3 interface diagrams and in some block diagrams, as listed in In fact the "request" primitive is all about the transmit direction; it is used to indicate that no valid signal is transmitted by the sublayer. label "PMA:IS_SIGNAL.request" from the PCS to the PMA in Egren 16-3.3. (wice) In fact the "request" primitive is all about the transmit direction; it is used to indicate that no valid signal is transmitted by the sublayer. SuggestedRemedy Change to "(e.g., no valid signal is transmitted)". label "FEC:IS_SIGNAL.request" into the Inner FEC sublayer in apporting 180.3.3 (PHYs. Response Status C sponse Status C sponse Status C sponse Status C off (e.g., no valid signal being received by the sublayer) To "(e.g., no valid signal being received by the sublayer)" To "(e.g., no valid signal being received by the sublayer on IS_UNITDATA.request in the transmit direction)" mater #248, the singal IS_SIGNAL.request is being added to service interface below the PCS (or DTE XS) add C/ 116 SC 116.3.3.4.1 P154 L5 # [238] receive differencely In IS_SIGNAL.request, the sublayer." This value of FAIL indicates the sublayer is not functional for some reason (e.g., it is reset). This is a possible situation even when IN_PROGRESS and READY are supopreted. <td>This p should</td> <td>rimitive is I be provic</td> <td>part of th</td> <td>ne inter-sublayer servi</td> <td>ice interface (as</td> <td>defined in 1</td> <td>16.3.3.4) and</td> <td>"The IS detecti</td> <td>S_SİG on of s</td> <td>NAL.reques</td> <td>st primitive is r conditions (</td> <td>s generated by</td> <td></td> <td></td>	This p should	rimitive is I be provic	part of th	ne inter-sublayer servi	ice interface (as	defined in 1	16.3.3.4) and	"The IS detecti	S_SİG on of s	NAL.reques	st primitive is r conditions (s generated by		
the suggested remedy. Suggested Remedy Add a downward arrow with label "PMA:IS_SIGNAL.request" from the PCS to the PMA in each of the following figures: Figure 116-2a, Figure 116-3a, Figure 116-3a Figure 12-2a, Figure 169-3 (twice) Figure 174-2, Figure 169-3 (twice) Figure 174-2, Figure 169-3 (twice) Figure 174-3, (twice), Figure 174-4 Figure 185-3 Add a downward arrow with label "FEC:IS_SIGNAL.request" into the Inner FEC sublayer in Figure 185-3. Response Response Status C ACCEPT IN PRINCIPLE. Based on the response to comment #248, the singal IS_SIGNAL.request is being added to the TX interface of the PCS supporting 802.3dj. PHYs. The figures listed in the suggested remedy must all add the "inst:PMA.JS_SIGNAL.request" signal to the service interface below the PCS (or DTE XS) for the PHYs defined in 802.3dj. Implement the suggested remedy, except that Figure 185-3 is removed based on the response to comment #21. Also add the IS_SIGNAL.request signal out of the PCS sublayer in any additional figures that might be missing from this list. Implement with editorial license. Extinct enter CC 169 174 1851	In fact the "request" primitive is all about the transmit direction; it is used to indicate that no valid signal is transmitted by the sublayer.Iabel "PMA:IS_SIGNAL.request" from the PCS to the PMA in Figure 116-3, Figure 116-36, Figure 116-3, Figure 116-36, Figure 174-4SuggestedRemedy Change to "(e.g., no valid signal is transmitted)".Iabel "FEC:IS_SIGNAL.request" into the Inner FEC sublayer in sponse Status CCACCEPT IN PRINCIPLE. It is ambiguous as to where the "received" is pointing to. The suggested remedy changes the context as the intent is to point out a valid signal is not being received from the sublayer above. Change "(e.g., no valid signal being received by the sublayer)" To "(e.g., no valid signal being received by the sublayer)" To "(e.g., no valid signal being received by the sublayer)" Make a similar change in 116.3.3.3.C/ 116SC 116.3.3.4.1P154L5# [238]gested remedy must all add the set' signal to the service interface below the PCS (or DTE XS) 3dj.TComment TypeTComment Status A(bucketp) In IS_SIGNAL_request, the SIGNAL_OK can take the value FAIL. "A value of FAIL indicates the sublayer has not established communication with the next higher sublayer." This value is also the appropriate value with the sublayer is not functional for some reason (e.g., it is reset). This is a possible situation even when IN_PROGRESS and READY are supported.SG]ResponseResponse Status C	its defi	inition in 1	16.3.3.4	should be sufficient.		Ū		receive	e direc	tion. Indee	d, the seman			
Juggested/Remedy Add a downward arrow with label "PMA:IS_SIGNAL.request" from the PCS to the PMA in each of the following figures: Figure 116-2, Figure 116-3, Figure 116-3a Figure 174-2, Figure 169-3, (twice) Figure 174-2, Figure 174-3 (twice), Figure 174-4 Figure 185-3 Add a downward arrow with label "FEC:IS_SIGNAL.request" into the Inner FEC sublayer in Figure 185-3 Response Response Status C ACCEPT IN PRINCIPLE. Based on the response to comment #248, the singal IS_SIGNAL.request is being added to the TX interface of the PCS supporting 802.3dj PHYs. The figures listed in the suggested remedy, except that Figure 185-3 is removed based on the response to comment #248. Implement the suggested remedy, except that Figure 185-3 is removed based on the response to comment #21. Also add the IS_SIGNAL.request signal out of the PCS sublayer in any additional figures that might be missing from this list. Implement with editorial license. Implement with editorial license. Ectivity or pre- C 166 174 1851	label "PMA:IS_SIGNAL:request" from the PCS to the PMA in SuggestedRemedy Figure 116-3, Figure 116-3a Response Status C Figure 174-4 Response Status C label "FEC:IS_SIGNAL:request" into the Inner FEC sublayer in Response Status C sponse Status C ACCEPT IN PRINCIPLE. mment #248, the singal IS_SIGNAL:request is being added to Change "(e.g., no valid signal being received by the sublayer on IS_UNITDATA.request in the transmit direction)" Make a similar change in 116.3.3.3. C1 116 SC 116.3.3.4.1 P154 L5 # [238 C1 116 SC 116.3.3.4.1 P154 L5 # [238 C Ran, Adee Cisco Comment Type T Comment Status A (bucketp) In IS_SIGNAL:request in any additional figures Nalue of FAIL indicates the sublayer is not functional for some reason (e.g. it is reset). This is a possible situation even when IN_PROGRESS and READY are supported. SuggestedRemedy Change to FAIL indicates the sublayer is not functional or has not established communication with the next higher sublayer." Response Response Status C SuggestedRemedy Signal out of the PCS sublayer in any additional figures SuggestedRemedy Signal out of the PCS sublayer in any additional figures SuggestedRemedy Signal out of the PCS sublayer in any additional figures SuggestedRemedy	the su	ggested re		nce interface diagram	is and in some b	DIOCK DIAGTAT	ns, as insted in	In fact valid si	the "re	equest" prir s transmitte	nitive is all al d by the sub	bout the transm	nit direction; it is	used to indicate that no
Production functionChange to "(e.g., no valid signal is transmitted)".Figure 116-2, Figure 116-2, Figure 116-3, F	Change to "(e.g., no valid signal is transmitted)".Figure 116-3, Figure 116-3aFigure 116-3, Figure 116-3aFigure 116-3, Stukice)twice), Figure 174-4label "FEC:IS_SIGNAL.request" into the Inner FEC sublayer insponse StatusComment #248, the singal IS_SIGNAL.request is being added tosupporting 802.3dj PHYs.gested remedy must all add theset' signal to the service interface below the PCS (or DTE XS)3dj.addi.medy, except that Figure 185-3 is removed based on thesupest signal out of the PCS sublayer in any additional figuresis list.set.85]BSIBSIBSIBSIBSIBSIBaber To Mark StatusChange to "A value of FAIL indicates the sublayer is not functional for some reason (e.g. it is reset). This is a possible situation even when IN_PROGRESS and READY are supported.SUggestedRemedy Change to "A value of FAIL indicates the sublayer is not functional or has not established communication with the next higher sublayer."ResponseResponseResponseResponseResponseResponse StatusCChange to "A value of FAIL indicates the sublayer."ResponseResponseResponseResponseResponseResponseResponseResponse StatusChange to "A value of FAIL indicates the sublayer."ResponseResponseResponse <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>		-							-					
Figure 116-2, Figure 116-3, Figure 116-3a Figure 169-2, Figure 169-2a, Figure 169-3 (twice) Figure 132-2, Figure 169-2a, Figure 169-3 (twice) Figure 135-3 Add a downward arrow with label "FEC:IS_SIGNAL.request" into the Inner FEC sublayer in Figure 185-3. Response Response Status C ACCEPT IN PRINCIPLE. Based on the response to comment #248, the singal IS_SIGNAL.request is being added to the TX interface of the PCS supporting 802.3dj PHYs. The figures listed in the suggested remedy must all add the "inst:PMA_IS_SIGNAL.request signal to the service interface below the PCS (or DTE XS) for the PHYs defined in 802.3dj. Implement the suggested remedy, except that Figure 185-3 is removed based on the response to communit #21. Also add the IS_SIGNAL-request signal out of the PCS sublayer in any additional figures that might be missing from this list. Implement with editorial license. Implement with editorial license. If stircle prote: CC 189 174 1851	Figure 116-3, Figure 116-3a Figure 169-3 (twice) Wrice), Figure 174-4 Iabel "FEC:IS_SIGNAL.request" into the Inner FEC sublayer in sponse Status C mment #248, the singal IS_SIGNAL_request is being added to supporting 802.3dj PHYs. C I116 gested remedy must all add the est' signal to the service interface below the PCS (or DTE XS) 3dj. medy, except that Figure 185-3 is removed based on the quest signal out of the PCS sublayer in any additional figures his list. ses 85]					GNAL.request" fi	from the PCS	5 to the PMA In	•••		-	id signal is tr	ansmitted)"		
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Editor's pote: CC 169 174 1851	communication with the next higher sublayer."85]ResponseResponse StatusC			-					••		•				
	85] Response Response Status C	Impler	nent with	editorial	icense.									s not functional	or has not established
	Response Response Status C	[Editor	r's note: C	C 169 17	' 4 185]					unicali		Ū			
Response Response Status C	AUGEMI.	•			-				•	т		Response	Status C		

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

C/ 116	Page 6 of 68
SC 116.3.3.4.1	3/12/2025 6:02:53 PM

C/ 119	SC 119.2.5.8	2 <i>P</i> 166	L15	# 020	C/ 119	SC 119.3.	la P167	L 33	# 040
Ran, Ade		Cisco	L 13	# 239	Ran, Adee	30 119.3.	Cisco	L33	# 240
Commen		Comment Status R		PCS encode/decode	Comment 7	ype TR	Comment Status	l l	FEC counters (bucket)
does This	s not check it for va should be emphas	assumes that the received d lid frame structure, unlike th ized for readers familiar with s. For example, validation su	e State-diagran	n decoder. coder defined in Clause	What if	it is used in	er is optional if the PCS is other PHY types? is it not	optional? or not all	
		d expect it to reject it.	ines may check				and includes this counter		
		applies to this subclause (1 2, but it is currently not in th					nake it mandatory for the ases. The suggested rem		nandatory in 175.2.5.3) and that path.
Suggeste	edRemedy				Also ap	plies to the c	ounters in 119.3.4b.		
	a NOTE at the end FThe stateless d	l of 119.2.5.8.2: ecoder relies on the Reed-S	olomon decode	er for error correction and	Suggestedl	•			
	king, and unlike the	state-diagram decoder, it de			types".		the PCS is used in any of ta and 119.3.4b with edito	0	types" and the lists of PHY
Add	a similar note at th	e end of 175.2.5.9.			•				
Add	a similar note at th	e end of 172.2.5.9.2 if it is c	onsidered in sc	ope.	Response	PT IN PRINC	Response Status (,	
Respons REJE		Response Status C					PLE. sponse to comment #157		
119 a defin	and CL 175. The b hition itself. Since it	oder is defined in 172.2.5.9. est place for this note would would apply to all PHYs, no add this note through mainte	be in 172.2.5.9 t just those def	0.2 with the decoder					

There is no consensus to make this proposed change.

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

C/ 119 SC 119.3.4a Page 7 of 68 3/12/2025 6:02:53 PM

C/ 119	SC 119.3.4a	P167	L 33	# 157
Opsasnick,	Eugene	Broadcom		
Comment T	ype T	Comment Status A		FEC counters (bucket)

119.3.4a and 119.3.4b add optional FEC counters, FEC_cw_counter and FEC_codeword_error_bin_i. In each subclause, the register definition is preceeded by a statement that the defined counter is optional for the 200G/lane PHY types. While it is intended to add these registers as optional for the new PHY types in 802.3dj, this seems to imply that these new registers are "required" for all other PHYs (for example, previously specified PHYs over 50G and 100G lanes). It was likely the intent to not add these registers (as either required or optional) for other, older PHY types. However, there should be nothing wrong with just adding these registers as "optional" for all 200GE/400GE PHYs -- being optional would not affect the conformance of any previous implementations. Suggest removing the woring about being optional for specific PHY types and just make them optional for any implementation of the 200G/400G PCS.

SuggestedRemedy

In 119.3.4a and 119.3.4b remove the text:

"The following counter(s) is(are) optional if the PCS is used in any of the following PHY types:

- 200GBASE-KR1
- 200GBASE-CR1
- 200GBASE-DR1
- 200GBASE-DR1-2
- 400GBASE-KR2
- 400GBASE-CR2 - 400GBASE-DR2
- 400GDASE-DR2
- 400GBASE-DR2-2".

and modify the register definitions to say they are optional. Something like:

In 119.3.4a, change: "A 48-bit counter that counts" to: "An optional 48-bit counter that counts"

In 119.3.4b, change: "A set of fifteen 32-bit counters" to "An optional set of fifteen 32-bit counters"

Response Response Status C

ACCEPT IN PRINCIPLE.

It is out of scope to specify new (even optional) counters for existing 200G/400G PHYs not defined in 802.3dj. These optional counters should be defined only for use in the new PHYs specified in 802.3dj. However, the text needs to be updated to make this clear.

On page/line 167/33,

Change:

"The following counter is optional if the PCS is used in any of the following PHY types:"

To:

"The following optional counters may be implemented for these PHY types:"

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

On page/line 167/50,

Change:

"The following counters are optional if the PCS is used in any of the following PHY types:" To:

"The following optional counters may be implemented for these PHY types:"

Implement with editorial license.

C/ 119	SC	119.3.4b	P 168	L 8	# 42
Bruckman	, Leon		Nvidia		
Comment	Туре	TR	Comment Status R		(withdrawn)
			his secondary and O to dE mot d to	45	

For Annex 174A BLER, bin counters are 0 to 15, not 1 to 15

SuggestedRemedy

Change: "A set of fifteen 32-bit counters where counter i counts once for each codeword received with exactly i correctable 10-bit symbols when align_status is true, i = 1 to 15" to: "A set of sixteen 32-bit counters where counter i counts once for each codeword received with exactly i correctable 10-bit symbols when align_status is true, i = 0 to 15"

Response	Response Status	Z	
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REJECT.

This comment was WITHDRAWN by the commenter.

C/ 119	SC	119.6	P168	L14	# 241
Ran, Ade	е		Cisco		
Comment	Туре	TR	Comment Status A		(bucket)
In the	base s	tandard,	119.6 lists the 200G/400G PMI	Os that need A	N support from the

PCS. The list should be expanded to include the new PMDs in this project.

SuggestedRemedy

Bring in subclause 119.6 (as modified by 802.3ck) and add 200GBASE-CR1, 200GBASE-KR1, 400GBASE-CR2, and 400GBASE-KR2, with editorial license.

Response Response Status C

ACCEPT IN PRINCIPLE.

Implement the suggested remedy with editorial license.

CI	119
SC	119.6

Page 8 of 68 3/12/2025 6:02:53 PM

C/ 169 SC 169.2.4	b <i>P</i> 179	L11	# 158	C/ 169	SC 169.2.4c	P179	L13	# 159
Opsasnick, Eugene	Broadcom			Opsasnick	, Eugene	Broadcom		
Comment Type E	Comment Status R		(bucketp)	Comment	Туре т	Comment Status A		segmented FE
the repeating 800GB SuggestedRemedy	ASE-LR1 the 800GBASE-LR1 ASE-LR1 is confusing. ASE-LR1 the 800GBASE-LR1			186. H does h term "\$	However, CL 18 however describ Segmented FEC	Segmented FEC sublayer" wi 6 has no reference to and new e a portion of the 800G-ER1 F " is usually associated with a	er uses the term EC sublayer as	"Segemented FEC". It an "Inverse FEC". The
Change For 600GB/	ASE-LKT THE OUUGDASE-LKTT	Tiller FEC is spe	cilled in Clause 164.	•	ılar sublayer.			
to either:				Suggested	,			
or:	LR1 PHY, the Inner FEC is spe 1 Inner FEC is specified in Clau		184."	"Seger		escribe the "800GBASE-ER1 ublayer or else add something layer" is.		
Response REJECT. Though it is compared	Response Status C	ciotopt with more	u other cimiler			FEC" also appears in 169.3.2 to "800GBASE-ER1 FEC".	2 on page 180, lii	ne 17. It should
sentences in 169.2.	at awkward, the wording is con This is just a rare case where th			Response		Response Status C		
qualifier as the PHY	type.			ACCE	PT IN PRINCIP	LE.		
				Replac	ce 169.2.4b and	169.2.4c with the following		
				"169.2	.4b FEC sublay	er		
				additio For 80 FEC is	n to that provide 0GBASE-DR4-2 s specified in Cla	d 800GBASE-LR1 Inner FEC ed by the 800GBASE-R PCS, 2, 800GBASE-FR4, and 800G ause 177. the 800GBASE-LR1 Inner FE	for the PMD. BASE-LR4, the	800GBASE-R Inner
				and re 20 PM	places it with a Ds.	FEC sublayer terminates the separate FEC for use with the	800GBASE-EŔ	

The 800GBASE-ER1 FEC is specified in Clause 186."

Implement with editorial license.

C/ 169 SC 169.2.4c

C/ 169	SC 169.2.4c	P179	L15	# 119	C/ 169	SC 169.3.2	P180	L 27	# 242
udek, Mił	ke	Marvell			Ran, Adee		Cisco		
Comment T	Туре Е	Comment Status A		(bucket)	Comment T	ype ER	Comment Status A		(bucket)
Poor E	English (missing a	bject)			Figure 7	169-2 and Figu	re 169-3 exist in this ame	ndment.	
Suggested	IRemedy				Suggested	Remedy			
	e " and replaces		/		Make th	e cross-refere	nces active.		
	ate FEC " to "and	replaces it with a separate F	EC"		Response		Response Status C		
Response ACCEF	PT.	Response Status C			ACCEP				
C/ 169	SC 169.2.10	P179	L38	# 43	C/ 170	SC 170.1	P 190	L 34	# 162
Bruckman,		Nvidia	200	# 1 3	Opsasnick,	0	Broadcor	n	
Comment		Comment Status A		(bucket)	Comment T		Comment Status A		(bucket)
	hard to parse.			(DUCKEI)	be com		es for 800GMII and 1.6TM ngle list. This would match		
Suggested	lRemedy								
Chang	e: "For each ISL.	ILT provides a mechanism for	or a receiver to	control transmitter	Suggested	Remedy			
					<u> </u>				
states,	, such as equaliza	ation, modulation, and precoc rovides a mechanism for a re	ling states, on th	ne peer transmitter,"	Change "The 80		following characteristics:		
states, to: "Fo	, such as equaliza or each ISL, ILT p	ation, modulation, and precod	ling states, on the ceiver to contro	ne peer transmitter,"	"The 80 - It supp	OGMII has the orts a speed o			
states, to: "Fo	, such as equaliza r each ISL, ILT p , such as equaliza	ation, modulation, and precoo rovides a mechanism for a re	ling states, on the ceiver to contro	ne peer transmitter,"	"The 80 - It supp - Data a	OGMII has the ports a speed c and delimiters a	of 800 Gb/s. are synchronous to a cloc		20
states, to: "For states,	, such as equaliza or each ISL, ILT p , such as equaliza	ation, modulation, and precoo rovides a mechanism for a re ation, modulation, and precoo	ling states, on the ceiver to contro	ne peer transmitter,"	"The 80 - It supp - Data a - It prov	OGMII has the ports a speed of and delimiters a ides independe	of 800 Gb/s.		15.
states, to: "For states, Response ACCEF	, such as equaliza or each ISL, ILT p , such as equaliza	ation, modulation, and precoo rovides a mechanism for a re ation, modulation, and precoo	ling states, on the ceiver to contro	ne peer transmitter,"	"The 8C - It supp - Data a - It prov - It supp	OGMII has the ports a speed c and delimiters a ides independe ports full duples	of 800 Gb/s. are synchronous to a clocl ent 64-bit wide transmit ar		ns.
states, to: "Fo states, Response ACCEF C/ 169	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10	ation, modulation, and precod rovides a mechanism for a re ation, modulation, and precod <i>Response Status</i> C	ling states, on the contro ling,"	he peer transmitter," I peer transmitter	"The 8C - It supp - Data a - It prov - It supp The 1.6 - It supp	OGMII has the ports a speed c and delimiters a ides independe ports full duples TMII has the fo ports a speed c	of 800 Gb/s. are synchronous to a cloc ent 64-bit wide transmit ar x operation only. ollowing characteristics: of 1.6 Tb/s.	nd receive data path	ns.
states, to: "Foi states, <i>Response</i> ACCEF C/ 169 Opsasnick	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10 s, Eugene	ation, modulation, and precod rovides a mechanism for a re ation, modulation, and precod <i>Response Status</i> C <i>P</i> 179	ling states, on the contro ling,"	# 161	"The 8C - It supp - Data a - It prov - It supp The 1.6 - It supp - Data a	0GMII has the ports a speed c ind delimiters a ides independe ports full duples TMII has the fo ports a speed c and delimiters a	of 800 Gb/s. are synchronous to a cloc ent 64-bit wide transmit ar c operation only. ollowing characteristics: of 1.6 Tb/s. are synchronous to a cloc	nd receive data path k reference.	
states, to: "For states, Response ACCEF CI 169 Opsasnick Comment T	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10 c, Eugene <i>Type</i> E	ation, modulation, and precod rovides a mechanism for a re ation, modulation, and precod <i>Response Status</i> C <i>P</i> 179 Broadcom	ling states, on the ceiver to control ling,"	he peer transmitter," I peer transmitter	"The 8C - It supp - Data a - It prov - It supp The 1.6 - It supp - Data a - It prov	0GMII has the ports a speed c ind delimiters a ides independe ports full duples TMII has the fo ports a speed c ind delimiters a ides independe	of 800 Gb/s. are synchronous to a cloc ent 64-bit wide transmit ar x operation only. ollowing characteristics: of 1.6 Tb/s.	nd receive data path k reference.	
states, to: "For states, Response ACCEF C/ 169 Opsasnick Comment	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10 c, Eugene <i>Type</i> E o coordinate trans	ation, modulation, and precod rovides a mechanism for a re ation, modulation, and precod <i>Response Status</i> C <i>P</i> 179 Broadcom <i>Comment Status</i> A	ling states, on the ceiver to control ling,"	# 161	"The 8C - It supp - Data a - It prov - It supp The 1.6 - It supp - Data a - It prov - It supp	0GMII has the ports a speed c ind delimiters a ides independe ports full duples TMII has the fo ports a speed c ind delimiters a ides independe	of 800 Gb/s. are synchronous to a clock ent 64-bit wide transmit ar a operation only. ollowing characteristics: of 1.6 Tb/s. are synchronous to a clock ent 64-bit wide transmit ar	nd receive data path k reference.	
states, to: "For states, Response ACCEF C/ 169 Opsasnick Comment T "and to Suggested. Change	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10 S, Eugene <i>Type</i> E o coordinate trans <i>IRemedy</i> Je:	ation, modulation, and precod rovides a mechanism for a re ation, modulation, and precod <i>Response Status</i> C <i>P</i> 179 Broadcom <i>Comment Status</i> A sition to DATA mode" is missi	ling states, on the ceiver to control ling,"	# 161	"The 8C - It supp - Data a - It prov - It supp The 1.6 - It supp - Data a - It prov - It supp to:	0GMII has the ports a speed of ind delimiters a ides independe ports full duples TMII has the for ports a speed of und delimiters a ides independe ports full duples	of 800 Gb/s. are synchronous to a clock ent 64-bit wide transmit ar & operation only. of 1.6 Tb/s. are synchronous to a clock ent 64-bit wide transmit ar & operation only."	nd receive data path k reference. nd receive data path	
states, to: "For states, Response ACCEF Cl 169 Opsasnick Comment T "and to Suggested. Chang "and to	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10 S, Eugene <i>Type</i> E o coordinate trans <i>IRemedy</i> Je:	ation, modulation, and precod rovides a mechanism for a re ation, modulation, and precod <i>Response Status</i> C <i>P</i> 179 Broadcom <i>Comment Status</i> A	ling states, on the ceiver to control ling,"	# 161	"The 80 - It supp - Data a - It prov - It supp The 1.6 - It supp - Data a - It prov - It supp to: The 800	0GMII has the ports a speed of ind delimiters a ides independe ports full duples TMII has the for ports a speed of ind delimiters a ides independe ports full duples	of 800 Gb/s. are synchronous to a clock ent 64-bit wide transmit ar a operation only. bollowing characteristics: of 1.6 Tb/s. are synchronous to a clock ent 64-bit wide transmit ar a operation only."	nd receive data path k reference. nd receive data path	
states, to: "For states, Response ACCEF Cl 169 Opsasnick Comment T "and to Suggested, Chang, "and to To:	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10 c, Eugene <i>Type</i> E o coordinate trans <i>IRemedy</i> Je: o coordinate trans	ation, modulation, and precod rovides a mechanism for a re ation, modulation, and precod <i>Response Status</i> C <i>P</i> 179 Broadcom <i>Comment Status</i> A sition to DATA mode" is missi	ling states, on the ceiver to control ling,"	# 161	"The 80 - It supp - Data a - It prov - It supp The 1.6 - It supp - Data a - It prov - It supp to: The 800 - The 800 - The 800	OGMII has the ports a speed of ind delimiters a ides independe ports full duples TMII has the for ports a speed of and delimiters a ides independe ports full duples OGMII/1.6TMII DOGMII suppor	of 800 Gb/s. are synchronous to a clock ent 64-bit wide transmit ar k operation only. bllowing characteristics: of 1.6 Tb/s. are synchronous to a clock ent 64-bit wide transmit ar k operation only." have the following charac ts a speed of 800 Gb/s.	nd receive data path k reference. nd receive data path	
states, to: "For states, Response ACCEF C/ 169 Opsasnick Comment T "and to Suggested, Chang "and to To: "and to	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10 c, Eugene <i>Type</i> E co coordinate trans <i>IRemedy</i> ge: co coordinate trans	ation, modulation, and precod rovides a mechanism for a re- ation, modulation, and precod <i>Response Status</i> C <i>P</i> 179 Broadcom <i>Comment Status</i> A sition to DATA mode" is missi sition to DATA mode"	ling states, on the ceiver to control ling,"	# 161	"The 80 - It supp - Data a - It prov - It supp - Data a - It supp - Data a - It prov - It supp to: The 800 - The 80 - The 80	OGMII has the ports a speed of ind delimiters a ides independe ports full duples TMII has the for ports a speed of and delimiters a ides independe ports full duples OGMII/1.6TMII DOGMII support 6TMII support	of 800 Gb/s. are synchronous to a clock ent 64-bit wide transmit ar coperation only. blowing characteristics: of 1.6 Tb/s. are synchronous to a clock ent 64-bit wide transmit ar coperation only." have the following charact ts a speed of 800 Gb/s. are synchronous to a clock	nd receive data path k reference. nd receive data path teristics: k reference.	15.
states, to: "For states, Response ACCEF Dpsasnick Comment T "and to Suggested Change "and to To: "and to Response	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10 c, Eugene Type E to coordinate trans IRemedy ge: to coordinate trans to coordinate trans	ation, modulation, and precod rovides a mechanism for a re- ation, modulation, and precod <i>Response Status</i> C <i>P</i> 179 Broadcom <i>Comment Status</i> A sition to DATA mode" is missi sition to DATA mode" <i>Response Status</i> C	ling states, on the ceiver to control ling,"	# 161	"The 80 - It supp - Data a - It prov - It supp The 1.6 - It supp - Data a - It prov - It supp to: The 800 - The 80 - The 80 - The 80 - The 1 - Data a - The 90 - The 1 - Data a - The 90	OGMII has the ports a speed c and delimiters a ides independe ports full duples TMII has the fo ports a speed c and delimiters a ides independe ports full duples OGMII/1.6TMII DOGMII support 6TMII supports provide independent	of 800 Gb/s. are synchronous to a clock ent 64-bit wide transmit ar coperation only. bllowing characteristics: of 1.6 Tb/s. are synchronous to a clock ent 64-bit wide transmit ar coperation only." have the following charact ts a speed of 800 Gb/s. as a speed of 1.6 Tb/s. are synchronous to a clock ndent 64-bit wide transmit	nd receive data path k reference. nd receive data path teristics: k reference.	15.
states, to: "For states, Response ACCEF Dpsasnick Comment T "and to Suggested Change "and to To: "and to Response ACCEF	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10 s, Eugene Type E to coordinate trans <i>IRemedy</i> ge: to coordinate trans to coordinate the trans to coordinate the trans	ation, modulation, and precod rovides a mechanism for a re- ation, modulation, and precod <i>Response Status</i> C <i>P</i> 179 Broadcom <i>Comment Status</i> A sition to DATA mode" is missi sition to DATA mode" ransition to DATA mode" <i>Response Status</i> C	ling states, on the ceiver to control ling,"	# 161	"The 80 - It supp - Data a - It prov - It supp The 1.6 - It supp - Data a - It prov - It supp to: The 80 - The 90 - The 90	OGMII has the ports a speed c and delimiters a ides independe ports full duples TMII has the fo ports a speed c and delimiters a ides independe ports full duples OGMII/1.6TMII DOGMII support 6TMII supports provide independent	of 800 Gb/s. are synchronous to a clock ent 64-bit wide transmit ar coperation only. bllowing characteristics: of 1.6 Tb/s. are synchronous to a clock ent 64-bit wide transmit ar coperation only." have the following charact ts a speed of 800 Gb/s. is a speed of 1.6 Tb/s. are synchronous to a clock and synchronous to a clock ndent 64-bit wide transmit blex operation only.	nd receive data path k reference. nd receive data path teristics: k reference.	15.
states, to: "For states, Response ACCEF C/ 169 Opsasnick Comment T "and to Suggested, Chang "and to To: "and to To: "and to Response ACCEF Similar Implem	, such as equaliza or each ISL, ILT p , such as equaliza PT. SC 169.2.10 c, Eugene <i>Type</i> E co coordinate trans <i>IRemedy</i> ge: co coordinate trans co coordinate trans co coordinate the trans co coordinate the trans p Coordinate the trans	ation, modulation, and precod rovides a mechanism for a re- ation, modulation, and precod <i>Response Status</i> C <i>P</i> 179 Broadcom <i>Comment Status</i> A sition to DATA mode" is missi sition to DATA mode" <i>Response Status</i> C E. everal other clauses. ed remedy with editorial licent	ling states, on the eceiver to contro ling," <i>L</i> 42 ing a "the".	# 161 (bucket)	"The 80 - It supp - Data a - It prov - It supp The 1.6 - It supp - Data a - It prov - It supp to: The 800 - The 80 - The 80 - The 80 - The 1 - Data a - The 90 - The 1 - Data a - The 90	OGMII has the ports a speed of ind delimiters a ides independent ports full duples TMII has the for ports a speed of and delimiters a ides independent ports full duples OGMII/1.6TMII DOGMII support 6TMII support and delimiters a porvide independent support full dup	of 800 Gb/s. are synchronous to a clock ent 64-bit wide transmit ar coperation only. bllowing characteristics: of 1.6 Tb/s. are synchronous to a clock ent 64-bit wide transmit ar coperation only." have the following charact ts a speed of 800 Gb/s. as a speed of 1.6 Tb/s. are synchronous to a clock ndent 64-bit wide transmit	nd receive data path k reference. nd receive data path teristics: k reference.	15.

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

C/ 170 SC 170.1 Page 10 of 68 3/12/2025 6:02:53 PM

C/ 171 SC 171.1								
	P197	L17	# 120	C/ 171 S	SC 171.8	P 209	L 4	# 244
Dudek, Mike	Marvell			Ran, Adee		Cisco		
Comment Type E	Comment Status A		(bucket)	Comment Type	e E	Comment Status A		(bucke
In table 171-1 Footnot and 176D as well as 1	te c should have been changed 20F	d to footnote d on	clauses 120G, 176C			olumn heading mentions C through 171-5c refer to Cl		
SuggestedRemedy				It is upplace		e 171 should have tables o	fucrichles defined	in other alouada
change footnote c to f	ootnote d on these clauses					n error, it should be clarifie		
Response	Response Status C					n, but the replacement text		
, ACCEPT.				SuggestedRen	nedy			
C/ 171 SC 171.1	P198	L16	# 121			the references to clauses ? n editorial license.	172 and 175, simila	ar to what was included
Dudek, Mike	Marvell			Response		Response Status C		
Comment Type E	Comment Status A		(bucket)	ACCEPT I	N PRINCIP	_E.		
In table 171-1a Footno 176C and 176D as we	ote a should have been change ell as 120F	ed to footnote b o	n clauses 120G,	Implement	suggested	remedy with editorial licens	se.	
SuggestedRemedy				C/ 171 S	SC 171.8	P 209	L16	# 44
change footnote a to f	ootnote b on these clauses			Bruckman, Le	on	Nvidia		
Response	Response Status C			Comment Type	e E	Comment Status A		(bucke
							<i>с</i> , , , ,	
ACCEPT.				In Tables 7	171-3, 171-5	i, 171.5b and 171-5d in the	first column the na	ames wrap around oddly
				In Tables SuggestedRen	-	i, 171.5b and 171-5d in the	first column the na	ames wrap around oddly
C/ 171 SC 171.2	P200	L 24	# 243	SuggestedRen	nedy			
C/ 171 SC 171.2 Ran, Adee	Cisco	L 24		SuggestedRen	nedy iable names	, 171.5b and 171-5d in the		
Cl 171 SC 171.2 Ran, Adee Comment Type ER	Cisco Comment Status A	L 24	# 243 (bucket)	SuggestedRen Fix the var	nedy iable names			
C/ 171 SC 171.2 Ran, Adee	Cisco Comment Status A	L24		SuggestedRen Fix the var in one line Response	nedy iable names	in the first column of Table Response Status C		
Cl 171 SC 171.2 Ran, Adee Comment Type ER Figure 172-2 exists in	Cisco Comment Status A this amendment.	L 24		SuggestedRen Fix the var in one line Response ACCEPT I	nedy iable names N PRINCIP	in the first column of Table Response Status C	es 171-3, 171-5, 17	•
Cl 171 SC 171.2 Ran, Adee Comment Type ER Figure 172-2 exists in SuggestedRemedy	Cisco Comment Status A this amendment.	L 24		SuggestedRen Fix the var in one line Response ACCEPT I	nedy iable names N PRINCIP	in the first column of Table <i>Response Status</i> C .E.	es 171-3, 171-5, 17	

C/ 171 SC 171.8

C/ 171	SC 171.8	P 209	L 20	# 245	C/ 172
Ran, Ade	Э	Cisco			Ran, Adee
Comment	Туре Т	Comment Status A		(bucket)	Comment 7
The re	egister names in	ed and is not helpful for the rea Clause 45 (added by 802.3cx	(, ,	In the t list sho
slightl	y better.				Suggested
Based	d on clause 30, th	nese registers are in units of 2	^-16 ns.		Bring ir KR4, w
Multip	le instances in th	ne draft.			Response
Suggestee	dRemedy				ACCEF
	ge all instances o sub-ns".	of "in subns" preferably to "in u	inits of 2^-16 ns'	, or if not within scope,	Implem
Response	,	Response Status C			C/ 173
	PT IN PRINCIPI				Huber, Tho
		e terms "sub-ns" as a quasi-ur e Table 45-314 register definit			Comment
PHY 3 definit	KS register refere	ence (registers 4.1809 to 4.18 1-3 of subclause 171.8 should	12). The TimeS be consistent w	ync registers ith the register	Since 8 PMA c
descri	ptions in Table 4	5-314 and use the "sub-ns" te	erm as a unit of t	ime.	Suggested
In Tak	le 171-3 on nag	209 in the second column ti	tled "PHY XS re	aister name" change	Change

In Table 171-3 on page 209, in the second column titled "PHY XS register name", change the units named "subns" to "sub-ns" in 4 places. Note "_subns_" is used in several variable names in the first and fourth columns of table 171-3 and should not be changed.

In addition, in 171.8, just prior to table 171-3 add the definiton of "sub-ns" as taken from 45.2.4.29:

"The maximum and minimum PHY XS transmit and receive path data delay values in table 171-3 are provided in two components. The first component (registers 4.1801 and 4.1802, 4.1803 and 4.1804, 4.1805 and 4.1806, 4.1807 and 4.1808) provides the integer nanoseconds portion of the PHY XS path data delays, in units of nanoseconds. The second component (registers 4.1809, 4.1810, 4.1811, and 4.1812) provides the fractional nanoseconds portion of the PHY XS path data delays, in units of 2⁽⁻¹⁶⁾ ns."

In addition, fix the typo in Table 171-3 in the line for MDIO status register PHY XS delay ns RX min, in the third column, from "4.1807, 4.1809" to "4.1807, 4.1808".

Implement the above changes with editorial license.

C/ 172 S	SC 172.6	P 230	L 30	# 246
Ran, Adee		Cisco		
Comment Type	F TR	Comment Status A		(bucket)

base standard, 172.6 lists the 800G PMDs that need AN support from the PCS. The hould be expanded to include the new PMDs in this project.

dRemedy

in subclause 172.6 (added by 802.3df) and add 800GBASE-CR4 and 800GBASEwith editorial license.

Response	Response Status	С
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EPT IN PRINCIPLE.

ement suggested remedy with editorial license.

C/ 173	SC 173	.4.2	P 231	L 45	# 98	
Huber, Th	omas		Nokia			
Comment	Туре Т	Com	ment Status A		(buck	cet)

800GBASE-ER1 is now described as a FEC sublayer, the interface below an 8:32 can also be 800GBASE-ER1 FEC sublayer.

dRemedv

Change

"The interface below the PMA (32 lanes) connects with a PHY 800GXS or 800GBASE-LR1 Inner FFC."

to "The interface below the PMA (32 lanes) connects with a PHY 800GXS, 800GBASE-ER1 FEC, or 800GBASE-LR1 Inner FEC.",

and update Figure 173-3 to include 800GBASE-ER1 as well.

Response ACCEPT.		Response Status C		
C/ 174	SC 174.1.4	P 234	L 35	# 75
Huang, Ke	echao	Huawei		
In "Ta		Comment Status A ole 174-3 specifies d "specifies" should be cha	nged to "specify"	(bucket)
Suggested Chang	<i>dRemedy</i> ge it as suggested	I		
Response ACCE		Response Status C		

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

C/ 174 SC 174.1.4

CI 174 SC	174.2.12	P 237	L 39	# 45	C/ 174	SC	174.5	P 243	L 23	# 122
Bruckman, Leon	l	Nvidia			Dudek, Mi	ke		Marvell		
Comment Type	т	Comment Status A		(bucket)	Comment	Туре	Е	Comment Status A		(bucke
Text is hard	to parse.				Better	wordin	g			
SuggestedReme	edy				Suggested	Remed	dy			
states, such to: "For each	as equalizat ISL, ILT pro	ILT provides a mechanism t tion, modulation, and preco ovides a mechanism for a r	ding states, on the contro	ne peer transmitter,"	specifi		"No phys	instantiated interfaces a ically instantiated interfa		
	as equalizat	tion, modulation, and preco	ding,"		Response			Response Status C		
Response		Response Status C			ACCE	PT IN F	PRINCIPL	.E.		
ACCEPT IN Implement w	-				The ge	eneral v	wording cl	nange is a good suggest	on. However, SP3 s	should be SP5.
C/ 174 SC	174.3.3	P 242	L 4	# 247	Chang	ie:				
Ran, Adee		Cisco					ly instanti	ated interfaces at SP2 a	nd SP3 (PMD servic	e interface) are
Comment Type	ER	Comment Status A		(bucket)	specifi To:	ed."				
174.3.3 says "The semantics of the inter-sublayer service interface primitives for the 800GBASE-R sublayers are described in 116.3.3.1 through 116.3.3.3".				3".	"No physically instantiated interfaces are specified at SP2 and SP5 (PMD service interface)."					
This project a	adds 116.3.3	3.4 with the semantics of IS	SIGNAL.reque	st.	C/ 174	SC	174.5	P 245	L12	# 173
The same se	entence app	ears also in 169.3.3 (not cu	rrently included i	n the amendment).	Opsasnick	k, Euge	ne	Broadco	n	
In both cases	s, the refere	nce can be to the parent su	bclause which w	vill cover everything.	Comment	Туре	т	Comment Status R		Skew valu
SuggestedReme							should ha m 177.4.1	ve a max skew of 25ns li .2.)	sted for SP2. (This i	s required as a
		ough 116.3.3.3" to "in 116.3			Suggested			,		
	to the draft a	and apply the same change	e mere.		00			alues for SP2 in table 174	I-5.	
Response		Response Status C			Response			Response Status C		
ACCEPT IN Implement w	-				REJEC SP2 an service	CT. nd SP5 e interfa	ace. Ther	applicable if there is a pl e are no physically instar this time, nor any other F	tiated PMD service	interfaces defined for
					Theref	fore, the	e values f	or SP2 and SP5 should	not be added to Tab	le 174-5.
					The re	ference	e from 17	7.4.1.2 is addressed by o	omment #77.	

C/ 174 SC 174.5

C/ 174A	SC 174A.6	P66	2 L31	#	16	With a compliant inpu specifications in 174A
Brown, Ma	tt	Alphav	vave Semi			Add new subclause 1
Comment		Comment Status			Error ratio	change "see 174A.9"
pair of (a) disa (b) stat	AUIs in the PHY allow extender that either externation	on 6E-11. However, th ′. Options: ender or AUIs in PHY, SS-to-PCS to 5.8E-11.	but not both	unt for an Exten	der plus a	Implement all with edi
Suggested	Remedy					
A cont	ibution will be p	rovided.				
Response		Response Status	с			
The CI		E. t 2 of the following cor g/3/dj/public/25_03/bro		3.pdf		
Straw	ooll TF-3 and TF	-4 showed consensus	for adopting optio	n 2 in brown_3c	lj_04a_2503.	
Implen	nent option #2 as	s shown in slides 18 a	nd 24 with editoria	l license.		
For ad	dressing 800GB d in brown_3dj_t on 1 on 2 on 3 on 4 on 5	ne) and TF-4 (chicago ASE-ER1 frame loss r 04a_2503:	,	ort the following	option as	
-	A: 2 B: 27 C: 1 D A: 2 B: 31 C: 3 D	-				
followir - align - to acc the 800 - to acc - to fix	ng: with similar subo count for the new OGBASE-R PCS dress the concer reference to 174 tA.6 there is a re	nt the text in 187.2 and clauses in other PMD of v CRC error ratio mean rn raised in D1.4 Comm A.5 instead of 174A.4 eference to 174A.9 wh	clauses sured at the FEC o ment #155, if adop	decoder output n	rather than at	
Chang	e the text in 187	.2 as follows:				
	a compliant input cations in 174A.	t signal, a PHY receive 5.	er is expected to m	neet the frame lo	oss ratio	
COMMENT	STATUS: D/dis	ed ER/editorial require spatched A/accepted abclause, page, line				eneral itten C/closed Z/withdrawn

a compliant input signal, a PMD receiver is expected to meet the CRC error ratio ications in 174A.6, measured at the FEC decoder output."

ew subclause 174A.x after 174A.9 which define CRC error ratio, and in 174A.6 ge "see 174A.9" to "see 174A.x".

ment all with editorial license.

C/ 174A SC 174A.6 Page 14 of 68 3/12/2025 6:02:53 PM

C/ 175	SC 175.1.4.2	P 248	L 53	# 248
Ran, Adee		Cisco		
Comment Ty	pe T	Comment Status A		PCS SI below

As stated in another comment, the last two rows of Table 176-6 (and the footnote they point to) are equivalent to an assumption that a PCS or DTE XS always generates IS_SIGNAL.request with the value OK.

However, an implementation of a PCS or DTE XS can sometimes not generate a valid signal for the purpose of IS_SIGNALrequest - for example, when it is reset or disabled. It should be allowed (if not required) to indicate such a state by a value FAIL for this primitive.

This behavior above is already included in the definition of IS_SIGNAL.request in 116.3.3.4 (a PCS not generating a signal as specified falls under "severe error conditions"). If it is considered necessary, it can be included explicitly in the PCS clauses too.

The suggested remedy intends to make using the FAIL value required only for new implementations, to avoid adding new requirements to existing implementations.

SuggestedRemedy

In the "Service interface below the PCS" subclause (175.1.4.2), add the following paragraph:

The PCS provides signal status information to the sublayer below it using the inst:IS_SIGNAL.request primitive. The SIGNAL_OK parameter of this primitive has the value OK when the PCS is functional. A value of FAIL indicates that the PCS is not functional. Generating this primitive with the value FAIL when the PCS is not functional is required when the sublayer below the PCS is an SM-PMA or Inner FEC, and is otherwise optional.

Implement the same change in 172.1.5.2.

Add 119.1.4.2 to the draft and implement the same change there.

Response Status C

Response

ACCEPT IN PRINCIPLE.

IS_SIGNAL.request has already been added to the service interfaces of the PMA, FEC and PMD sublayers in all relevant 802.3dj clauses to support ILT.

Adding IS_SIGNAL.request(SIGNAL_OK) to all relatated PCSs, for

200G/400G/800G/1.6TE (Clauses 119, 172, and 175) will not change the functional behavior of the PCS sublayer, but will create a cleaner service interface definition for ILT functionality and possibly other features. In addition, the specifications for SIGNAL_OK generation in the PMA and FEC sublayers becomes cleaner. The value of SIGNAL_OK sent by the PCS is always OK when out of reset, or FAIL during reset. This change is limited to the PHYs defined in 802.3dj.

Implement the suggested remedy in 175.1.4.2, 172.1.5.2, and 119.1.4.2 with editorial license.

Also add the IS_SIGNAL.request output to the service interface below the PCS in figures 119-2, 172-2, and 175-2.

Remove the last two rows and footnote (e) from Table 176-6 (which are there to account for an attached PCS not having the IS_SIGNAL.request present) and remove footnote (f) from Figure 176-2.

[Editor's note: CC 119 172 176]

C/ 175	SC 175.2.4.7	P 258	L 5	# 249
Ran, Adee		Cisco		
Comment Ty	pe E	Comment Status A		(bucket)

"to form two 514 10-bit symbol FEC messages mA and mB from tx_scrambled_am_f0 in flow 0 and mC and mD from tx_scrambled_am_f1 in flow 1"

This is not quite clear...

"two 514 10-bit" has too many numbers in a row, and the initial "two" seems to refers to m_A and m_B - but then there are m_C and m_D, so should it be "four"?

SuggestedRemedy

Change to "to form two FEC messages, mA and mB, from tx_scrambled_am_f0, and two FEC messages, mC and mD, from tx_scrambled_am_f1, where each FEC message contains 514 10-bit symbols".

Or reword in some other way (175.2.4.8 seems to repeat the same statements in a different way).

Response Response Status C

ACCEPT IN PRINCIPLE.

Update the text based on the suggested remedy with editorial license.

C/ 175	SC 175.2.5.3	P 261	L10	# 46
Bruckman,	Leon	Nvidia		
Comment T	ype TR	Comment Status R		(withdrawn)
For Anr	nex 174A BLER.	bin counters are 0 to 15. not ²	1 to 15	

SuggestedRemedv

Change: "A set of fifteen 32-bit counters where counter i counts once for each codeword received with exactly i correctable 10-bit symbols when align_status is true (i=1 to 15)." to: "A set of sixteen 32-bit counters where counter i counts once for each codeword received with exactly i correctable 10-bit symbols when align_status is true (i=0 to 15)." Update also corresponding MDIO Table 175-4 entry

Response Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

TYPE: TR/technical required ER/editorial required GR/general	required T/technical E/editorial G/general	C/ 175	Page 15 of 68
COMMENT STATUS: D/dispatched A/accepted R/rejected R	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 175.2.5.3	3/12/2025 6:02:53 PM

SORT ORDER: Clause, Subclause, page, line

C/ 175	SC 175.2.6.2	2 P2	63	L 38	# 15	C/ 175	SC 17	5.2.6.3	P 264	L 53	# 250	
Brown, M	latt	Alpha	awave Sei	mi		Ran, Adee	•		Cisco			
Commen	t Type T	Comment Status	R		(withdrawn)	Comment	Туре	т	Comment Status A		(bucketp)	
and is PCS_ FEC_	s false otherwise." _reset, so why not _reset in clauses	s "Boolean variable to But it is intended to say that. There is a 177, 184, and 186.	reflect the	e state of mana		"Note t RX_LI But in	are not u 175.2.4.1	ised" and 175	power idle are not support 5.2.5.9 there are references ithout this note.		_	
00	dRemedy					40004	51, 100pot	Suvery, w				
PCS_	_management var	S_reset to "Boolean able (see Table 175 n clauses 176, 177,	-3) is 1 or	0, respectively	to true or false when /." or similar		oid duplici er definiti		oparent contradiction, this	note should appea	ar in the encoder and	
Response REJE		Response Status	Z				tate diagi de shorte		es" subclause includes a lo r ways.	ot of descriptive te	ext and should perhaps	
KLJL	.01.					Suggested	Remedy					
This	comment was WI	HDRAWN by the co	HDRAWN by the commenter.					Delete the last paragraph of 175.2.6.2 (from "The transmit state diagram" to "172.2.4.1.2 and 172.2.5.9.2, respectively"). Add the required statements about EEE/LPI in 175.2.4.1 and 175.2.5.9 instead.				
						Response			Response Status C			
						ACCE	PT IN PR					
							iggested		mentions to delete text fror 6.3.	n 175.2.6.2, but a	ppears that this should	
						unders those s	, standing o	of the fun	out EEE/LPI to 175.2.4.1 a ctions since the reference quired to support EEE and	d figures already o	contain a note that	
							the last p 2.2.5.9.2	0.1	h of 175.2.6.3 from "The tr ively".	ansmit state diag	ram" to "172.2.4.1.2	

C/ 175 SC 175.2.6.3

C/ 176 SC 176.1.5	P278	L 25	# 192	C/ 176	SC 176.2	P 280	L 40	# 163
Slavick, Jeff	Broadcom			Opsasnick	, Eugene	Broadcom		
Comment Type T	Comment Status A		(bucketp)	Comment	Туре Е	Comment Status A		(bucke
Are these foonotes re	eally necessary? The only on	e that seems nee	eded is footnote d.			ame line "In addition to the pri	mitives noted ab	ove, an associated
SuggestedRemedy						om input to output along with mitives in the transmit and rec	eive direction " i	s repeated at the end
	s from Table 176-1 and 176-2				subclause 176			
and k:m before the B	BM-PMA. Remove all footnot	tes from Tables 1	76-3 and 176-4.	Suggested	Remedy			
Response	Response Status C			Both o	f these lines ca	n probably be omitted since th	ne same informat	tion is given at the end
ACCEPT IN PRINCI	PLE.			of the i	intro section 17	6.1.4.		
footnotes are already 176.1.3. For Table 176-1, rem for BM-PMA.	remove footnotes which are no captured in Annex 176B as w nove all footnotes except footno	vell as the conver	ntions and definitions in	genera interfac change "In ado output	ation of the inte ce below the Pl e the last sente dition to the prir along with	make sense to modify each o rface signals at PMA service ir MA. For example, nse of 176.2 to be: nitives noted above, an associ mitives in the receive directior	nterface (176.2) a	and the service
For Table 176-2, rem for BM-PMA.	nove all footnotes except footno	ote (d), and remo	we the "m:k" modifier			entence of 176.3 to be: nitives noted above, an associ	iated clock is tra	nsferred from input to
For Table 176-3, rem 1.6TBASE-R 16:16.	nove footnotes (b) and (c), and	change footnote	(a) to exclude		along with _UNITDATA pri	mitives in the transmit directio	n."	
For Table 176-4, rem	nove all footnotes.			Response		Response Status C		
Implement with edito				The se "The P in the t	MA transmit cl	PLE. and of 176.1.4 states the follow ock is passed from the interfact on, and the PMA receive clock above in the receive direction.	ce above the PM is passed from	
						s, this captures the same infor		

Delete the last sentence in 176.2 and in 176.3.

C/ 176 SC 176.2

and 176.3. Additionally, the lines in 176.2 and 176.3 are redundant with each other.

C/ 176	SC 176.3	P 281	L 45	# 251
Ran, Adee		Cisco		
Comment 7	Type TR	Comment Status A		PCS SI below
The las	t two rows of Ta	ble 176-6 include the value "no	nrimitive"	This is not a valid value

The last two rows of Table 176-6 include the value "no primitive". This is not a valid value for SIGNAL_OK, and it is somewhat unclean to define the logic this way.

The footnote says "When PMA:IS_SIGNAL.request input is not present", assuming that a PCS does not generate this primitive. But this primitive is not defined as optional, nor excluded from the PCS. The PCS clauses state that the service interface below the PCS "... is an instance of the inter-sublayer service interface defined in ...", and that means it includes the IS_SIGNAL.request primitive.

(Noting that "the service interface definitions are abstract and do not imply a particular implementation", having that primitive in the service interface below the PCS does not imply a particular implementation).

Since the two "no primitive" rows are identical to the two "OK" rows, this is equivalent to assuming that a PCS or DTE XS always generates OK. However, an implementation of a PCS or DTE XS can sometimes not generate a valid signal for the purpose of IS_SIGNALrequest - for example, when it is reset or disabled. It should be allowed (if not required) to indicate such a state by a value FAIL for this primitive, which would create the desired effect in this table. This is addressed by another comment. The suggested remedy here is independent of the resolution of the other comment.

SuggestedRemedy

In Table 176-6, delete the bottom two rows and footnote e.

C/ 176	SC	176.4.2.3.2	P 2	85	L14	# 76
Huang, Ke	chao		Huaw	/ei		
Comment	Туре	Е	Comment Status	R		(bucket
also "a	ú 40-bit	• •	RS-FEC symbols ge 285 line 25	s)" shoul	ld be changed to	"a 40-bit (4 RS-FEC
symbo also "a symbo	ι 40-bit Is) bou	boundary (4 Indary" in pa	,	;)" shoul	ld be changed to	"a 40-bit (4 RS-FEC
symbo also "a symbo S <i>uggesteo</i>	i 40-bit Is) bou IReme	boundary (4 Indary" in pa	,	;)" shoul	ld be changed to	"a 40-bit (4 RS-FEC
symbo also "a symbo Suggesteo Chang	i 40-bit Is) bou IReme	boundary (4 indary" in pa dy suggested	,	,	ld be changed to	"a 40-bit (4 RS-FEC
symbo also "a symbo Suggesteo	i 40-bit Is) bou <i>Reme</i> e e it as	boundary (4 indary" in pa dy suggested	ge 285 line 25	,	ld be changed to	"a 40-bit (4 RS-FEC

C/ 176	SC 176.4.2.4	P 285	L 41	# 164
Opsasnick,	Eugene	Broadcom		
Comment T	<i>уре</i> т	Comment Status A		(bucket)
Cross-r	reference to 176.4	1.3.4.1 should be 176.4.2.4.	1.	
SuggestedF	Remedy			
Fix the	cross reference a	nd make it active.		
Response		Response Status C		
ACCEP	РТ.			
C/ 176	SC 176.4.2.4	P 285	L 43	# 165
Opsasnick,	Eugene	Broadcom		
Comment T	<i>уре</i> т	Comment Status A		(bucket)
Cross-r	reference to 176.4	1.3.4.2 should be 176.4.2.4.	2.	
SuggestedF	Remedy			
Fix the	cross reference a	nd make it active.		
Response		Response Status C		
ACCEP	РТ.			
C/ 176	SC 176.4.3.2	P 292	L14	# 166
Opsasnick,	Eugene	Broadcom		
Comment T	<i>уре</i> Т	Comment Status A		(bucket)
The syr	nbol demultiplexin	g function must achieve sy	mbol lock on all	l input PMALs.
SuggestedF	Remedy			
"The sy achieve lock on To:	es symbol a given input lane	ng function locates the corr " ng function locates the corr		
achieve	es symbol each input PMAL	0	,,	
And on		t to change "After all input l ne page, maybe change "inp		
Response ACCEP	T IN PRINCIPLE.	Response Status C		
Implem	ent suggested ren	nedy with editorial license.		
eral		C/ 17	6	Page 18 of 68

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 176
 Page 18 of 68

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
 SC 176.4.3.2
 3/12/2025 6:02:53 PM

 SORT ORDER: Clause, Subclause, page, line
 SC
 176
 Page 18 of 68

loviak loff								# 167
Slavick, Jeff	Broadcom			Opsasnick	, Eugene	Broadcom		
Comment Type ER	Comment Status A		(bucke) Comment	Туре Т	Comment Status A		(bucket
and comprises of seems v uggestedRemedy Change "and comprises o	Ū			corresp well as	oond to how "n" i "n:m PMA" How	s used in the definition of se is is used in Figure 172-3, an vever I would still be usful to mlar way that "x" is defined i	nd the generic us define "n" at the	sage for "m:n PMA" as
Response I	Response Status C			Suggested		····, ······	-	
diagram is not "composed Fix use of "comprise" and on page 292 line 24 chang	s to use "is composed of" ra l of" anything, rather the "2 "comprises" here and else ge to "A functional block dia mposed of a 20-bit demulti	0-bit demultiple: where in the dra agram of a 1:8 s	king function" is. aft. symbol-pair	numbe <i>Response</i> ACCEF	r of PMAL input	Response Status C	ke: "The index v	ariable n represents the
marker lock function (see	176.4.3.2.3), is shown in F ge "comprises" to "is comp	igure 176-9."	J.	C/ 176	SC 176.4.4.3	P 297	L 9	# 168
on page 433 line 34, page	457 line 3, page 483 line 3		e 1 change	Opsasnick	, Eugene	Broadcom		
"comprised of" to "compos	sed of" ige "comprise" to "are com	posod of"		Comment	Type E	Comment Status A		(bucket
			ad of"	Fix sin	glular tense verb	to plural for the subject cont	taining two name	ed variables in this
on page 773 line 44 (twice	e), change "is comprised of	to is compose		senten	ce.			
on page 773 line 44 (twice Implement with editorial lic		to is compose						
	cense.	to is compose		senten <i>Suggested</i> Chang	Remedy e:	ux and the pcs_lanes_identii	fied_demux vari	able is true, then."
Implement with editorial lic [Editor's note: CC 179 180 7 176 SC 176.4.4.2.1 Opsasnick, Eugene	cense. 0 181 182 183 186 178B] P294 Broadcom	L 48	# <u>156</u>	senten Suggested Chang "When To: "When then."	Remedy e: all_locked_dem the all_locked_c	nux and the pcs_lanes_identii	_	·
Implement with editorial lic [Editor's note: CC 179 180 7 176 SC 176.4.4.2.1 Opsasnick, Eugene Comment Type E	cense. D 181 182 183 186 178B] P 294	L 48	# <u>156</u> (bucke	senten Suggested Chang "When To: "When then."	Remedy e: all_locked_dem the all_locked_c litorial license.		_	·
Implement with editorial lic [Editor's note: CC 179 180 7 176 SC 176.4.4.2.1 Opsasnick, Eugene Comment Type E It appears that a second v	cense. 0 181 182 183 186 178B] P294 Broadcom Comment Status A	L 48	# <u>156</u> (bucke	senten Suggested Chang "When To: "When then.") with ec Response ACCER	Remedy e: all_locked_dem the all_locked_c litorial license. PT.	demux and pcs_lanes_identii	fied_demux vari	ables are both true,
Implement with editorial lic [Editor's note: CC 179 180 7 176 SC 176.4.4.2.1 Dpsasnick, Eugene Comment Type E It appears that a second v be updated.	cense. 0 181 182 183 186 178B] P294 Broadcom <i>Comment Status</i> A variable was added to this li ariable is common"	L 48	# <u>156</u> (bucke	senten Suggested Chang "When To: "When then." with ec Response	Remedy e: all_locked_dem the all_locked_c litorial license. PT. SC 176.7.4.1	demux and pcs_lanes_identii	_	·
Implement with editorial lic [Editor's note: CC 179 180 7 176 SC 176.4.4.2.1 Dpsasnick, Eugene Comment Type E It appears that a second v be updated. CuggestedRemedy Change: "The following variable	cense. 0 181 182 183 186 178B] P294 Broadcom <i>Comment Status</i> A variable was added to this li ariable is common"	L 48	# <u>156</u> (bucke	senten Suggested Chang "When To: "When then." with ec Response ACCEF C/ 176 Slavick, Je Comment	Remedy e: all_locked_dem the all_locked_c litorial license. PT. SC 176.7.4.1 ff Type E	demux and pcs_lanes_identii Response Status C P304	fied_demux vari	ables are both true,
Implement with editorial lic [Editor's note: CC 179 180 77 176 SC 176.4.4.2.1 Dpsasnick, Eugene Comment Type E It appears that a second v be updated. SuggestedRemedy Change: "The following variable Response	cense. D 181 182 183 186 178B] P294 Broadcom <i>Comment Status</i> A variable was added to this li ariable is common"	L 48	# <u>156</u> (bucke	senten Suggested Chang "When To: "When then." with ec Response ACCEF CI 176 Slavick, Je Comment Is it "A Suggested	Remedy e: all_locked_dem the all_locked_c litorial license. PT. SC 176.7.4.1 Iff Type E " PMA or "The Pl Remedy	demux and pcs_lanes_identif Response Status C P304 Broadcom Comment Status A	fied_demux vari	ables are both true, # 195

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/176Page 19 of 68COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 176.7.4.13/12/2025 6:02:53 PMSORT ORDER: Clause, Subclause, page, line

C/ 176 S	SC 176.7.4.7	P 304	L 31	# 197	C/ 176	SC 176.11	P 308	L 9	# 199	
Slavick, Jeff		Broadcom			Slavick, Jeff		Broadcom			
Comment Type	ə TR	Comment Status A		(bucketp)	Comment Ty	be TR	Comment Status R			(bucket)
	ASE-16 PMA nterfaces per	does not require these regis 174A.7	sters as they're o	only associated with			5 register expandable. Chan then lane rather than lane the		of the register	
SuggestedRen	nedy				SuggestedR	emedy				
Add "(exce	ept in a 1.6TB	ASE-16 PMA)" after "patterr	n checker".		Change	Table 176-9 to	be:			
	N PRINCIPLE	Response Status C	unters are limite	d to PMALs	test_bloc test_bloc test_bloc	k_error_bin_< k_error_bin_< k_error_bin_<	:0:7>_0 for 1.2600 to 12623 :0:7>_1 for 1.2624 to 12647 :0:7>_3 for 1.2648 to 12671 :0:7>_3 for 1.2672 to 12695 :0:7>_4 for 1.2696 to 12719			
Change: "Each PRE	3S31Q test pa	attern checker shall include t	block error detec	tion and 17 related	test_bloc test_bloc test_bloc	k_error_bin_< k_error_bin_< k_error_bin_<	:0:7>_5 for 1.2720 to 12743 :0:7>_6 for 1.2744 to 12767 :0:7>_7 for 1.2768 to 12791			
The followi number of To:	ing counters s PMALs."	tection and behavior of the o	/AL i, where i = () to n-1 and n is the	test_bloc test_bloc test_bloc test_bloc test_bloc test_bloc	k_error_bin_< k_error_bin_< k_error_bin_< k_error_bin_< k_error_bin_<	:0:7>_8 for 1.2792 to 12815 :0:7>_9 for 1.2816 to 12839 :0:7>_10 for 1.2840 to 12863 :0:7>_11 for 1.2864 to 12887 :0:7>_12 for 1.2888 to 12911 :0:7>_13 for 1.2912 to 12935			
		tern checker in each PMAL ck error detection and behav			test_bloc	k_error_bin_<	:0:7>_14 for 1.2936 to 12959 :0:7>_15 for 1.2960 to 12983 :0:7>_16p for 1.2984 to 1230			
The followi of PMALs.'		are implemented per PMAL i	i, where i = 0 to r	n-1 and n is the number	Response		Response Status C			

REJECT.

The current allocation nicely groups sets of registers by lane. The changes proposed would mean that registers for a single lane would not be adjacent.

C/ 176 SC 176.11

C/ 176B SC 176B.	6.1 <i>P</i> 694	L 39	# 31	C/ 176C	SC 176C.2.1	P 702	L 7	# 72
D'Ambrosia, John	Futurewei, U.	S. Subsidiary of	Huawei	Bruckman,	Leon	Nvidia		
Comment Type TR	Comment Status A		(bucket)	Comment 7	ype TR	Comment Status A		(bucket
	nissable within 800GBASE-LR1,		1 and 800GBASE-ER1-	Not cle	ar why is the Fur	nctional specification a sub-	section of Error	Ratio Allocation
0	delines in 176B.6.1 do not reflect	this.		Suggested	Remedy			
SuggestedRemedy	d of last paragraph on 694:					ional specification" to 176C	.3 to make it cor	sistent with a similar
	s are also relevant to the 800GB/	ASE-R PHY typ	es listed in Table 169-4.		in Annex 176D			
Response	Response Status C			Response	PT IN PRINCIPLI	Response Status C		
ACCEPT IN PRINC						onse to comment #267.		
	d of the first paragraph in 176B.6 is are also relevant to the 800GB		hes listed in Table 169-	C/ 176C	SC 176C.2.1	P 702	L13	# 73
4."		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Bruckman,		Nvidia	213	# <u>1</u> 5
Also update diagran	ns and text to be inclusive of the	800GBASE-EF	R1/ER1-20 PHY types.	Comment 7		Comment Status A		Functional specification
•					51	lar section (176D.3) include	es text describing	•
CI 176C SC 176C.	1 P 70 1	L 24	# 85	Suggested		(, ,		
Huang, Kechao	Huawei			00	,	n in the section add adjuste	d text from the th	nird and fourth
Comment Type E	Comment Status A		(bucketp)		aphs in 176D.3			
	artitioning options", the word "lay	er" should be cl	nanged to "Layer"	Response		Response Status C		
SuggestedRemedy					T IN PRINCIPL			
Change it as sugges 176D.1.	sted, and make the same change	e in page 722 li	ne 25, sub-clause	Resolv	e using the respo	onse to comment #268.		
Response	Response Status C							
ACCEPT.								
	2.1 <i>P</i> 702	L 6	# 267					
Ran, Adee	Cisco							
Comment Type ER	Comment Status A		(bucket)					
•	ation" is 176C.2.1, below 176C.2 e in the hierarchy (and it is differe		ratio allocation". This is					
SuggestedRemedy								
Promote "Functiona subclauses.	al specification" to become 176C.	3, renumbering	the subsequent					
Response	Response Status C							
100FDT								

ACCEPT.

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

C/ 176C SC 176C.2.1

CI 176C	SC 176C.2.1	P 702	L18	# 268	C/ 176C	SC 176C.5.	3 P 705	L 47	# 270
Ran, Adee		Cisco			Ran, Adee		Cisco		
Comment Ty	vpe TR	Comment Status A		Functional specification	Comment 7	Type TR	Comment Status A		Steady-state voltage
the ILT f Also, the The suge	function. e coefficients an gested remedy i	ne functional specifications t d presets supported by a C2 s based on the correspondin '6D-9, which are the same a	C transmitter a	are not listed.	dv_f of no max With th about N	0 V. This corre timum. e current spec NEXT (A_ne=0	transmitter steady-state voltagesponds to a minimum v_f spe s v_f can be above 0.5 V. This .481 V). cifications in Table 176D-2 wh	ec (0.4 V with A s would contrac	_v=0.385 V) but there is lict the COM assumption
SuggestedR	Remedy				Suggested	Remedy			
Change	the 3rd paragra	ph and insert a paragraph at	ter it, as follow	/S:		e the dv_f spec n 0.4 and 0.5 '	ification from min to range, fro	om 0 to 0.1 V, o	corresponding to v_f
specified 106.25 C compone interface function pattern, receiver A C2C c the initia Response ACCEPT	d in Clause 178 GBd on each lan ent shall provide e, specified in Ar is used to reque and precoder st state, and coord component trans al conditions pres	ent is functionally equivalen (see 178.8) using PAM4 sig e. The service interfaces are the inter-sublayer link training set changes to the C2C peer ate), control the transmitter dinate transition to DATA mo mitter supports the coefficie set 1 through preset 6 and ir <i>Response Status</i> C dinate dinate transition C	haling at a non e defined in 17 ng (ILT) functi- le mr_training_ transmitter stroutput on each output on each ode. ht indexes k_li itialize (see Ta	hinal signaling rate of 6C.3. Specifically, a C2C on for a Type E1 enable is true, the ILT ate (modulation, training I lane, indicate the st = {-3, -2 -1, 0, 1} and	The co gap an	d is consistent	Response Status C PLE. ses a gap in the specification. with the adopted transmitter s sted remedy with editorial lice	specification.	change addresses the
C/ 176C	SC 176C.4.3	P 705	L 38	# 269					
Ran, Adee		Cisco							
176D it i	176C-2, Comm is a range, which	Comment Status A on-mode voltage has max a n is more readable. uld be called DC common-m	·						
SuggestedR	Remedy	n-mode voltage", with range	0,						
Response		Response Status C	in a single row						
Response		Response status							

ACCEPT.

C/ 176C SC 176C.5.3

01.4700 00	A700 E 4	BZOC	1.40	# 400	CL 470D	SC 47	CD C C	BZOZ	140	# 074
	C 176C.5.4	P 708	L 48	# 126	C/ 176D	SC 17	6D.6.3	P 727	L13	# 271
Dudek, Mike		Marvell			Ran, Adee	_		Cisco		
Comment Type	TR	Comment Status A		Steady-state voltage	Comment 7		-	Comment Status A		DC common-moa
asks for a hi should be al SuggestedReme Change Am	igher voltage ble to choose edy plitude tolerar	age for ILT is 0.5 * (0.75+0 than this during training wi not to do this. nce from 0.5V to 0.39V. Ac the same change in Tabl	Il it ever excee	ed this and the receiver	178 an Similar The rar To facil	d Annex ly for hos nges shou itate desi	176C it i t input ir uld be al ign with	utput DC common mode vol s 0.2 to 1 V (which follows p n 176D.6.5, Table 176D-4. ligned. no AC coupling caps, the Do tive single-ended voltages.	precedence in 8	02.3ck).
		6	es 170D-4 and	J 170D-5.	Suggestedl	Remedy				
	PRINCIPLE.	Response Status C			Also, cl	nange the	e module	n-mode voltage range to "0.2 e DC common-mode voltage 5 to 1.05 V.		
	ng value is co	fined in terms of steady-sta prect	ate voltage wh	hich is defined at preset 1,	Response			Response Status C		
					ACCEF	PT IN PR	INCIPLE			
However, ar	n informative r	note would be helpful to cla	arify the requir	ement.						
Add the fele	wing noto off	er Table 176C-4:						was taken. one) (decision)		
		age is defined with preset	1 It is not initi	ally generated by a				suggested remedy with edito	orial license	
transmitter,	due to the init	specifically requests it."				l: 6 A: 10		suggested formedy with earle		
		able 176D-4 and Table 176	6D-5.		Implem	ent the s	uggeste	d remedy with editorial licen	ISE.	
allowed stea to "When a PM	ID receiver is ady-state volta ID receiver is	connected to a compliant age (see Table 178-9)" connected to a compliant 0.9.4.1.2) equal to the Amp	transmitter that	at has a steady-state						
Implement v	with editorial li	cense.								
[CC: 176C,	176D]									

C/ 176D SC 176D.6.3

C/ 176D	SC 176D.6.3	P 727	L14	# 272	C/ 176D	SC	176D.6.4	P 728	L13	# 273
Ran, Adee		Cisco			Ran, Adee			Cisco		
Comment Ty	pe T	Comment Status R		DC common-mode	Comment 7	Гуре	т	Comment Status R		DC common-mode
tolerance Although	e specifications. the module is a	-2) and input (Table 176D-4 assumed to include AC caps e inrush current that the ho	s, difference bet	ween host and module	specific Althoug	cations gh the	module is	76D-3) and input (Table 17 assumed to include AC ca se inrush current that the h	os, difference be	tween host and module
	lules that do not	nmon mode tolerance spec include AC coupling caps,			Having module	a defines that	ned DC co	mmon mode specification lude AC coupling caps, wh	would also facilita	ate operation with
SuggestedRe	emedy				per lan	e.				
		C common mode tolerance s nodified by another commer		ligned with those of the				hen a module includes AC neasure as it is for DC-cou		
Response		Response Status C			do it.					
REJECT					Suggested	Remec	dy			
(possibly	internal to its ch	not required, since the mod hip) and have high DC impe	dance.					it DC common mode speci by another comment).	ications, aligned	with those of the host
	at their output.	cification may be required to	o enable module	es without external AC	Response			Response Status C		
coupling		cification could be considere However, this module featur mpleteness.			coupled Module their ou	e input d (poss e outpu utput.	sibly intern it specifica	on is not required, since th al to its chip) and have hig tion could be considered to this module feature has nor	n DC impedance enable modules	s without AC coupling at
					C/ 176D	SC	176D.7.2	P 730	L 5 1	# 180
					Swenson, I	Norma	in	Point2; Infin	era	
					Comment 7	Гуре	Е	Comment Status A		(bucket)
					"The pa module			le 176D-7" is ambiguous, t	ecause the table	e includes host and
					Suggested	Remed	dy			
					Change	e "The	parameter	rs in Table 176D-7" to "The	host parameters	s in Table 176D-7"
					Response			Response Status C		
					It is as	sumed		E. omment refers to the third an Table 176D-7).	paragraph of 176	D.7.2 (which points to
					Change	e "The	parameter	rs in Table 176D-6" to "The	host parameters	s in Table 176D-6".

C/ 176D SC 176D.7.2

C/ 176D SC 176D.7.2	2 P 731	L18	# 181	C/ 176D	SC 176D.7.2	P 731	L 46	# 184
Swenson, Norman	Point2; Infine	ra		Swenson, No	orman	Point2; Infiner	ra	
Comment Type E	Comment Status A		(bucket)	Comment Ty	pe E	Comment Status A		(bucketp)
178A.1.4, the blocks of	e table should align with the te comprising the Tx and Rx S-pa Partial host channel (optional).	arameter model			e 178A.1.4 and 1	le should align with the ter 78A1.4.2, C_p is part of th		
SuggestedRemedy Change "Device mode	el" to "Device termination mod	el for Host and I	Module"	There sh		for C_p, one under Device odel for Module	e package mode	I for Host, and one
Response	Response Status C			Response		Response Status C		
ACCEPT IN PRINCIP	LE.			ACCEPT	IN PRINCIPLE.			
	nge "Device model" to "Device Table 178-12, Table 179-16,			Impleme	nt the suggested	remedy with editorial licen	se.	
Apply the correspondi	ng changes in all references t	o these tables, v	with editorial license.	C/ 176D	SC 176D.7.2	P 731	L 51	# 151
[CC 178, 179, 176C, 1	176D]			Ghiasi, Ali		Ghiasi Qunati	um/Marvell	
C/ 176D SC 176D.7.2	2 P 7 31	L 25	# 182	Comment Ty	be TR	Comment Status R		(bucketp)
Swenson, Norman	Point2; Infine	ra				v needed for cable assemb	ly CR and not fo	or C2M which has the
Comment Type E	Comment Status A		(bucket)		S-Parameters			
	e table should align with the te	rminology in 178	. ,	SuggestedRe	-			
SuggestedRemedy	Ŭ	0,	,	Partial ch	annel not need f	or C2M COM and should b	be removed	
	e model" to "Device package	model for Host"		Response		Response Status C		
Response	Response Status C			REJECT			7) and in bast in	
ACCEPT IN PRINCIP The comment identifie Change all instances where necessary, to "	LE. ss an inconsistency that shoul of "package" referring to the d device package".	evice package r		test calib commen The parti	ration (176D.8.12 t) and physical M	s used in dSNDR (176D.8. 2.2). This channel includes CB and HCB, see, e.g., Fi onstitutes most of the 32 c	the partial chan gure 176D-7b).	nel (subject of this
Implement throughout [CC 178, 179, 176C, 1	t the draft with editorial license	9.		C/ 176D	SC 176D.8.12	P 738	L12	# 153
		107	# 400	Ghiasi, Ali		Ghiasi Qunati	um/Marvell	
C/ 176D SC 176D.7.2		L 37	# 183	Comment Ty	be TR	Comment Status A		ITOL
Swenson, Norman	Point2; Infine	ra	<i>.</i>			t parameters in table only a	applicable at TP	1 module input and not
Comment Type E	Comment Status A		(bucket)	for host i				
	e table should align with the te	rminology in 178	BA for clarity.	SuggestedRe	-			
SuggestedRemedy						hould be labled TP1 Modu		
Change "Module pack	age model" to "Device packag	ge model for Mo	dule"			rance at TP4 host input tes	st channel insen	ion ioss will be zero.
Response	Response Status C			Response		Response Status C		
ACCEPT IN PRINCIP Resolve using the res	LE. ponse to comment #182.				IN PRINCIPLE.	se to #134.		
VDE: TP/technical requir	ed ER/editorial required GR/	annoral require		reneral		CL 17	~	Page 25 of 68

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/176DPage 25 of 68COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 176D.8.123/12/2025 6:02:53 PMSORT ORDER: Clause, Subclause, page, lineSC 176D.8.12SC 176D.8.123/12/2025 6:02:53 PM

C/ 176D

Response

C/ 176D

Swenson, Norman

SuggestedRemedy

REJECT.

Comment Type E

SC 176D.8.12.2

Change to "approximate solution"

SC 176D.8.12.2

"approximated solution" is awkward or typo.

This comment was WITHDRAWN by the commenter.

P741

P741

Point2: Infinera

Comment Status R

Response Status Z

Point2; Infinera

L18

L19

185

186

(withdrawn)

(bucketp)

C/ 176D	SC 176D.8.1	12 P738	L13	# 134
Dudek, Mik	е	Marvell		
Comment T	⁻ уре т	Comment Status A		ITOI
frequen equival attenua	ncy dependent a ent to the minir tion have only	the footnote a says that this i attenuator which should be th num loss the host will see. I 1dB variation which is less th ated compliance boards.	e correct set up, However the valu	approximately les for min and max
Suggested	Remedy			
		hax values to match the adopted at the March meeting).	ed values for the	e mated test fixture
Response		Response Status C		
The CR https://v	www.ieee802.o	LE. des 18-20 of the editorial pre rg/3/dj/public/25_03/ran_3dj_ es shown on slide 20 of ran_3 inges to the ILdd ranges base	01_2503.pdf. dj_01_2503 with	
C/ 176D	SC 176D.8.1	5	L 41	# 274
Ran, Adee		Cisco		
Comment T	ype TR	Comment Status A		(bucketp
editoria Specific 179.9.5	lly and technic cally, item f) ref 5.3.3 uses a se	procedure in Annex 176D is r ally. fers to calibrating the noise us parate parameter sigma_ns, nd notes are identical to those	sing SNR_TX, wh which is preferab	nile the procedure in
		be aligned to that of 179.9.5 les (items a and b). The equa		
Suggested	Remedy			
	ems c through ns with referen	f with the corresponding item	s in 179.9.5.3.3,	and replace duplicate
	ent with editori			

Swenson, Norman Comment Type E Comment Status A "pose a negative discriminant" is obscure. SuggestedRemedy Change to "lead to a negative argument of the square root function" Response Response Status C ACCEPT IN PRINCIPLE. "pose a negative discriminant" appears 2 times in the draft, and is consistent with similar instances in existing 802.3 text, in 162.9.5.3.3 and 163.9.3.5. The current text is not incorrect. However, there are other places in the base standard where a different phrasing is used, which would improve the clarity of this requirement. Align the text with the first sentence of NOTE 2 in 136.9.4.2.3. Implement with editorial license. C/ 176D

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

SC 176D.8.12.2

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C/ 177	SC 177.3	P315	L43	# 204
Slavick, J	eff	Broadcom		
Comment	Type TR	Comment Status R		(withdrawn)
	ehavior of the tx AL_OK is define	_symbol and rx_symbol is sp d 177.3.	becified in 182.3 b	ut the behavior of
Suggestee	dRemedy			
add th behav Make	ne following to th rior is defined in a new sub-head	raphs a sub-section "PMD s e end of the first sentence "v 177.3.1. ing named PMD service inte t the first paragraph.	vith the exception	that the SIGNAL_OK
Response	0	Response Status Z		
REJE				
		ITHDRAWN by the commen		
C/ 177	SC 177.4.1	P 316	L 30	# 189
Slavick, J	eff	Broadcom		
Comment	Туре Т	Comment Status R		Skew (bucket)
		at 200/400G don't alter the date of the date is needed.	ata stream? That	is also possible for
Suggeste	dRemedy			
	ge ", the data str lary is necessary	eam is not altered" to "only t	he identification o	f the RS-symbol
Response	,	Response Status C		
REJE	CT.	ata stream is not altered unc	ler anv circumsta	

For 200G/400G, the data stream is not altered under any circumstances.

Cl 177	SC 177.4.1	P 316	L 35	# 172
Opsasnick,	Eugene	Broadcom		
Comment 7	Гуре т	Comment Status A		(bucket)

177.4.1 text refers to the figure 177-3 as an illustration and has a short introduction for the the first few blocks in theis figure but does not say anthing abou the "Symbol multiplexing" sub-bock.

SuggestedRemedy

Add a short description of the Symbol multiplexing block at the end of the last paragraph in 177.4.1. Something ilke: "After deskew, the PCS lanes are recombined by the symbol multiplexing function.

Response	Response Status	С
ACCEPT.		

C/ 177	SC	177.4.1.2	P 317	L 31	# 124
Dudek, Mik	æ		Marvell		
Comment 7	Гуре	Е	Comment Status A		Skew Value
T 1 (1					

The thought is "as defined in 175.2.5.1 except that ..."

uggestedRemedy

Move the comma's so that "For 800GBASE-R PHYs, after alignment marker lock is achieved on each of the eight PCSLs in an input stream, Skew between PCSLs is removed as defined in 172.2.5.1, except that a maximum Skew of 25 ns is supported between PCS lanes" becomes "For 800GBASE-R PHYs, after alignment marker lock is achieved on each of the eight PCSLs in an input stream Skew between PCSLs is removed, as defined in 172.2.5.1 except that a maximum Skew of 25 ns is supported between PCS lanes. Make an equivalent change for 1.6T in the following paragraph.

Response Response Status C

ACCEPT IN PRINCIPLE. Resolve using the response to comment #77.

C/ 177 SC 177.4.1.2

/ 177	SC 177.4.1.	.2 F	^D 317	L 36	# 77	C/ 177	SC 177.4.1	1.4	P 317	L 53	# 174
uang, Ke	chao	Hu	awei			Opsasnick	Eugene	Br	oadcom		
omment	Туре Т	Comment State	us A		Skew value	Comment	Гуре Т	Comment Stat	tus A		(bucke
	o sub-clause "1				Table 174-5, should 2 and 1.6TBASE-DR8-	the 80	G and 1.6T F		r FEC also	output lanes wit	uired for 200G/400G h 4-way interleaving. skew between PCS
00		74-5" to "see 182.4.	2 2"			Suggested	Remedy				
esponse		Response Statu									77.4.1.2 that mentions
	PT IN PRINCIP	•						quired for the 200/400 eskews the PCS land			the SM-PMA above the odeword boundary.
SP2 ar	nd SP5 are only	y applicable if there	is a physically	v instantiated in	terface at the PMD	Response		Response Stat	us C		
service	e interface. The	t this time, nor any c	instantiated l	PMD service int	terfaces defined for		PT IN PRINCI	PLE. ested remedy with ed	ditorial licer	se.	
Theref	ore, the values	for SP2 and SP5 a	re undefined f	for both 800GB	ASE-R and	C/ 177	SC 177.4.2	2	P 318	L 6	# 78
		The 25ns skew limit			as a conservative	Huang, Ke	chao	Hu	lawei		
value,	but is not appli	cable to PHYs using	g the inner FE	C sublayer.		Comment	Гуре Т	Comment Stat	tus A		(bucke
Chang	e the first parag	graph of 177.4.2.1 a	s follows:			The tit	e of subclause	e 177.4.1 has been o	changed to	"Symbol demult	iplexing and deskew"
From:						Suggested	Remedy				
"For 8		PHYs, after alignmen eam, Skew betweer					e "alignment lo / process (see		cess (see 1	77.4.1)" to "sym	bol demultiplexing and
except	that a maximu	Im Skew of 25 ns is	supported be	tween PCS land	es (see Table 169-5)."	Response		Response State	us C		
To:		IV. ofter eligenment	t marker leak	is achieved an	anab of the sight	ACCE	2 1.				
PCSLs	s in an input str	HYs, after alignment eam, Skew betweer	n PCSLs is re	moved as defin	ed in 172.2.5.1, with	C/ 177	SC 177.4.2	2	P 318	L 7	# 203
		e maximum Skew to		is the Skew at S	SP1 plus the Skew	Slavick, Je	ff	Br	oadcom		
added	by the PMA ab	oove the Inner FEC.				Comment	ype TR	Comment Stat	us A		(bucke
Ũ	e the second p	earagraph of 177.4.2	.1 as follows:					PRBS31 payload mo ver is chosen by imp			ndary fed into the
From:		IYs, after alignment	marker lock is	s achieved on e	ach of the two	Suggested	Remedy				
PCSLs	s in an input str	eam, Skew betweer	n PCSLs is re	moved as defin			see 177.4.9.1	t paragraph add "Wh), the selection of th			d by the Inner FEC test boundary position is
To:			manlanda (b. 1		ach af the true	Response		Response Stat	us C		
PCSLs the exc	s in an input str	e maximum Skew to	PCSLs is re be removed i	moved as defin	ed in 175.2.5.1, with		PT IN PRINCI	PLE. ested remedy with ec	ditorial licer	ISE.	
/PE: TR/		red ER/editorial req	uired GR/ge		T/technical E/editorial SE STATUS: O/open W				C/ 17 SC 17		Page 28 of 68 3/12/2025 6:02

CI 177 SC 177.4.2	P318	L9	# 191	C/ 177	SC 177.4.4	P319	L 4	# 79
Slavick, Jeff	Broadcom	23	# 131	Huang, Ke		Huawei	-7	# 13
Comment Type T	Comment Status A		(bucketp)	Comment		Comment Status A		(bucket)
21	e equation runs in to the RS-FI	EC symbols so	(//			d be changed to "shift"		(Buokot)
talking about a Q RS-F	EC potentially. Plus then it's			Suggested		<u>.</u>		
or 1 or 0				00	ge it as suggeste	ed		
SuggestedRemedy				Response	,	Response Status C		
Make Q the second op symbols	erand in the equations so it's 4	1 x Q x 2 and 4	x Q x 1 RS-FEC	ACCE		Response Status C		
Response	Response Status C			C/ 177	SC 177.4.7	P 321	L29	# 48
ACCEPT IN PRINCIPL	.E.			Bruckmar		Nvidia	225	<i>n</i> +0
The number '3' should	be spelled out and the sugges	ted remedv al	so makes the	Comment		Comment Status A		(bucket)
description more clear.		···· , ··· ,				st pad insertion will happen ri	aht at the begins	(/
Change:				codew	vords" is not clea	ar, which "Inner FEC codewor	ds" ? Which is "t	he first pad insertion" ?
	rleaver is composed of 3 delay	/ lines. The firs	st line (Delay Line 0)	Suggested	dRemedy			
	2 × Q RS-FEC symbols, the s		elay Line 1) by 4 × 1 × Q			l insertion" means and which	"Inner FEC code	words" you are
RS-FEC symbols, and	the last line (Delay Line 2) add	as no delay."		referri	ng to.			
To:		-		Response		Response Status C		
the data by 2 x Q x 4 F	rleaver contains three delay lir RS-FEC symbols, the second I last line (Delay Line 2) adds n	ine (Delay Lin		The re		LE. nce is not necessary to accura entence: "The first pad insertio		
CI 177 SC 177.4.2	P318	L 34	# 47		FEC codewords			
Bruckman, Leon	Nvidia							
Comment Type TR	Comment Status A		convolutional interleaver					
The relationship betwe not defined.	en the position of the input and	d output switch	nes in Figure 177-4 is					
SuggestedRemedy								
Add the following senter always aligned to the s	ence at the end of the paragra ame row."	oh: "The input	and output switches are					
Response	Response Status C							
, ACCEPT IN PRINCIPL	,							
Implement the suggest	ed remedy with editorial licens	se.						

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

C/ 177 SC 177.4.7

C/ 177	SC 177.4.7	P 321	L 32	# 252	C/ 177	SC 177.4.9.4	P 324	L 8	# 253
Ran, Adee		Cisco			Ran, Adee		Cisco		
Comment 7	Туре Т	Comment Status A		(bucket)	Comment 7	Гуре Т	Comment Status A		PRBS requirement
inner F for the Comme bit rates	EC encoding (exa actual rate. ent #285 against s at the input and	between the line rate (includi cluding pad). The ratio holds D1.3 requested to add a ration d output (in the transmit direct trance for implementations.	io, but the intent	nominal rates but also was the ratio between	Due to externa Current other o	the inner FEC er al generator. tly, per Table 183 ption. Since this	efined as optional. ncoder, there is no way to 3-13, several optical parar pattern can only be gener implementation that does	neters require SS ated by the inner	PRQ generation with no FEC, its implementation
	ies this ratio by 10	of parity bits results in a ratio 089/1088. The total ratio is t		•	power e a lot of	excursion could b work and is not	tests for TDECQ, TECQ, be redefined with other test a low-hanging fruit.		
Suggestedl	Remedv				Suggested	-			
Append "The bi	d the following se	sertion is 363/340 of the bit	rate of the tx_sy	mbol stream at the			tionally include a short str	ess pattern rando	om quaternary (SSPRQ)
Response		Response Status C					clude a short stress patter	n random quater	nary (SSPRQ) test-
ACCEF	PT IN PRINCIPLE	Ξ.			Response	generator".	Response Status C		
	ggested remedy i al rate".	is an improvement. But the p	orevious senten	ce should not refer to		PT IN PRINCIPLI	ed remedy with editorial lic	ense.	
"nomin Change To: "Th after pa service	al rate". e: "The ratio betw ne ratio between t	veen the nominal rate before the rate before and after pad 3/340 of the bit rate of the tx	and after pad in insertion is 108	nsertion is 1088/1089." 88/1089. The bit rate	Implem CI 177 Slavick, Jet Comment 7 Test pa	SC 177.5.2 ff fype T		L 49 L 1	# 202 77 structure - test pattern cess after all the mission
"nomin Change To: "Th after pa service Implem	al rate". e: "The ratio betw e ratio between t ad insertion is 363 interface." nent with editorial	veen the nominal rate before the rate before and after pad 3/340 of the bit rate of the tx license.	and after pad ir l insertion is 108 _symbol stream	nsertion is 1088/1089." 8/1089. The bit rate at the Inner FEC	Implem CI 177 Slavick, Jet Comment 7 Test pa	SC 177.5.2 ff Fype T attern functions a operations.	ed remedy with editorial lic P 324 Broadcom <i>Comment Status</i> A	L 49 L 1	77 structure - test pattern
"nomina Change To: "Th after pa service Implem	al rate". e: "The ratio betw ne ratio between t ad insertion is 363 interface." nent with editorial SC 177.4.9.2	veen the nominal rate before the rate before and after pad 3/340 of the bit rate of the tx license. P323	and after pad in insertion is 108	nsertion is 1088/1089." 88/1089. The bit rate	Implem CI 177 Slavick, Jel Comment 7 Test pa mode c Suggested	SC 177.5.2 ff Fype T attern functions a operations. Remedy	ed remedy with editorial lic P 324 Broadcom <i>Comment Status</i> A	L49 L 1 ne end of the prod	77 structure - test pattern cess after all the mission
"nomina Change To: "Th after pa service Implem C/ 177 Bruckman,	al rate". e: "The ratio betw ne ratio between t ad insertion is 363 interface." nent with editorial SC 177.4.9.2 Leon	veen the nominal rate before the rate before and after pad 3/340 of the bit rate of the tx license. P323 Nvidia	and after pad ir l insertion is 108 _symbol stream	hsertion is 1088/1089." 18/1089. The bit rate 1 at the Inner FEC # 49	Implem CI 177 Slavick, Jel Comment 7 Test pa mode c Suggested	SC 177.5.2 ff Fype T attern functions a operations. Remedy	ed remedy with editorial lid P324 Broadcom <i>Comment Status</i> A re traditionally placed at th	L49 L 1 ne end of the prod	77 structure - test pattern cess after all the mission
"nomina Change To: "Th after pa service Implem Cl 177 Bruckman, Comment 7	al rate". e: "The ratio betw e ratio between t ad insertion is 363 e interface." nent with editorial SC 177.4.9.2 Leon Type TR	veen the nominal rate before the rate before and after pad 3/340 of the bit rate of the tx license. P323 Nvidia Comment Status R	and after pad ir l insertion is 108 _symbol stream	nsertion is 1088/1089." 8/1089. The bit rate at the Inner FEC	Implem CI 177 Slavick, Jet Comment 7 Test pa mode co Suggested Move T Response	SC 177.5.2 ff Fype T attern functions a operations. Remedy	ed remedy with editorial lic P324 Broadcom Comment Status A re traditionally placed at th ker setion to last sub-clau Response Status C	L49 L 1 ne end of the prod	77 structure - test pattern
"nomina Change To: "Th after pa service Implem 2 177 Bruckman, Comment 7 Text sh Suggested/ Add the pattern	al rate". e: "The ratio betwen ratio between t ad insertion is 363 interface." nent with editorial SC 177.4.9.2 Leon Type TR nall indicate how t Remedy e following senter generator is ena	veen the nominal rate before the rate before and after pad 3/340 of the bit rate of the tx license. P323 Nvidia	and after pad ir l insertion is 108 _symbol stream <i>L</i> 50 : "If supported therm_enable i con	hsertion is 1088/1089." 18/1089. The bit rate 18/1089. The bit rat	Implem CI 177 Slavick, Jel Comment 7 Test pa mode of Suggested/ Move T Response ACCEF The col be mov	SC 177.5.2 ff Fype T attern functions a operations. Remedy Test pattern chec PT IN PRINCIPLI insensus of the C yed to a separate the test pattern get	ed remedy with editorial lid P324 Broadcom Comment Status A re traditionally placed at th ker setion to last sub-clau Response Status C E. RG is that the test pattern subclause out of the func- enerator and checker dese	L49 L 1 ne end of the pro- se of receive path generator/check tional Tx and Rx	77 structure - test patterr cess after all the mission h. ker descriptions should descriptions.
"nomina Change To: "Th after pa service Implem C/ 177 Bruckman, Comment 7 Text sh Suggested/ Add the pattern Add sin	al rate". e: "The ratio betwen ratio between t ad insertion is 363 interface." nent with editorial SC 177.4.9.2 Leon Type TR nall indicate how t Remedy e following senter generator is ena	veen the nominal rate before the rate before and after pad 3/340 of the bit rate of the tx license. P323 Nvidia Comment Status R the test pattern is enabled. Ince to the end of the section bled by the PRBS13Q_patte	and after pad ir l insertion is 108 _symbol stream <i>L</i> 50 : "If supported therm_enable i con	hsertion is 1088/1089." 18/1089. The bit rate 18/1089. The bit rat	Implem CI 177 Slavick, Jel Comment 7 Test pa mode of Suggested/ Move T Response ACCEF The col be mov	SC 177.5.2 ff Fype T attern functions a operations. Remedy Test pattern chec PT IN PRINCIPLI nsensus of the C red to a separate	ed remedy with editorial lid P324 Broadcom Comment Status A re traditionally placed at th ker setion to last sub-clau Response Status C E. RG is that the test pattern subclause out of the func- enerator and checker dese	L49 L 1 ne end of the pro- se of receive path generator/check tional Tx and Rx	77 structure - test pattern cess after all the mission h. ker descriptions should descriptions.
"nomina Change To: "Th after pa service Implem Cl 177 Bruckman, Comment 7 Text sh Suggested/ Add the pattern Add sin Response REJEC	al rate". e: "The ratio between t ad insertion is 363 e interface." ment with editorial SC 177.4.9.2 Leon Type TR mall indicate how t Remedy e following senter o generator is ena milar sentences to	veen the nominal rate before the rate before and after pad 3/340 of the bit rate of the tx license. P323 Nvidia Comment Status R the test pattern is enabled. the test pattern is enabled.	and after pad ir l insertion is 108 _symbol stream <i>L</i> 50 : "If supported therm_enable i con	hsertion is 1088/1089." 18/1089. The bit rate 18/1089. The bit rat	Implem CI 177 Slavick, Jel Comment 7 Test pa mode of Suggested/ Move T Response ACCEF The col be mov Move th	SC 177.5.2 ff Fype T attern functions a operations. Remedy Test pattern chec PT IN PRINCIPLI insensus of the C yed to a separate the test pattern get	ed remedy with editorial lid P324 Broadcom Comment Status A re traditionally placed at th ker setion to last sub-clau Response Status C E. RG is that the test pattern subclause out of the func- enerator and checker dese scription.	L49 L 1 ne end of the pro- se of receive path generator/check tional Tx and Rx	77 structure - test pattern cess after all the mission h. ker descriptions should descriptions.

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
 SC 177.5.2
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 SORT ORDER: Clause, Subclause, page, line
 SC
 177
 SC

	P 325	L 35	# 50	C/ 177 SC 177.5.6	6 P 327	L 7	# 24
Bruckman, Leon	Nvidia			Brown, Matt	Alphawave S	emi	
Comment Type ER	Comment Status A		(bucket)	Comment Type T	Comment Status A		(bucket)
Wrong singular in senter	nce				odewords with no corrected erro	ors is required s	ince there is no other
SuggestedRemedy				way to derive this bir	n.		
	C codeword boundaries four			SuggestedRemedy			
To: "The Inner FEC code	eword boundaries found by	synchronization a	ire used"	-	to "k = 0 to 3" and update Table	e 177-8 and Cla	use 45 accordingly.
Response	Response Status C			Response	Response Status C		
ACCEPT.				ACCEPT IN PRINCI	IPLE. I be derived from the other bins	and Inner FEC	total bits counter the
C/ 177 SC 177.5.6	P 326	L 34	# 125	suggested approach			
Dudek, Mike	Marvell			Implement the sugge			
Comment Type E	Comment Status A		(bucket)	Also, change "A set	of three 32-bit counters" to "A s	set of four 32-bit	counters on line 5.
one bit errors" should be	e "one bit error"			C/ 177 SC 177.5.6	6 P 327	L 9	# 25
uggestedRemedy				Brown, Matt	Alphawave S	iemi	
Correct it.				Comment Type T	Comment Status A		(bucke
Response	Response Status C				eword_error_bin_k and Inner_F	_	·
ACCEPT.					re accounted and only once eacher ne of these bins is incremented		int for each codeword
				SuggestedRemedy			
2/ 177 SC 177.5.6	P 327	L 6	# 51				
				Add a new sentence	For each codeword processe	d, exactly one co	ounter in
Bruckman, Leon	Nvidia			Inner_FEC_codewor	"For each codeword processed rd_error_bin_k or Inner_FEC_u		
Bruckman, Leon Comment Type TR	Comment Status A		(bucket)	Inner_FEC_codewor Add a similar statem	rd_error_bin_k or Inner_FEC_u nent in 184.5.7.		
,	Comment Status A			Inner_FEC_codewor Add a similar statem <i>Response</i>	rd_error_bin_k or Inner_FEC_u		
Comment Type TR Bin counters are 0 to 3, i	Comment Status A			Inner_FEC_codewor Add a similar statem	rd_error_bin_k or Inner_FEC_u nent in 184.5.7.		
Comment Type TR Bin counters are 0 to 3, i	Comment Status A not 1 to 3			Inner_FEC_codewor Add a similar statem <i>Response</i>	rd_error_bin_k or Inner_FEC_u nent in 184.5.7. <i>Response Status</i> C		
Comment Type TR Bin counters are 0 to 3, i SuggestedRemedy Change: "(k = 1 to 3)" to	Comment Status A not 1 to 3			Inner_FEC_codewor Add a similar statem <i>Response</i> ACCEPT.	rd_error_bin_k or Inner_FEC_u nent in 184.5.7. <i>Response Status</i> C	ncorrected_cw_	counter is incremented."
omment Type TR Bin counters are 0 to 3, i uggestedRemedy Change: "(k = 1 to 3)" to esponse ACCEPT IN PRINCIPLE	Comment Status A not 1 to 3 : "(k = 0 to 3)" Response Status C			Inner_FEC_codewor Add a similar statem <i>Response</i> ACCEPT. Cl 177 SC 177.6.2	rd_error_bin_k or Inner_FEC_u nent in 184.5.7. Response Status C 2 P327	ncorrected_cw_	counter is incremented." # 190
Comment Type TR Bin counters are 0 to 3, i suggestedRemedy Change: "(k = 1 to 3)" to Response	Comment Status A not 1 to 3 : "(k = 0 to 3)" Response Status C			Inner_FEC_codewor Add a similar statem <i>Response</i> ACCEPT. <i>Cl</i> 177 SC 177.6.2 Slavick, Jeff	rd_error_bin_k or Inner_FEC_u nent in 184.5.7. <i>Response Status</i> C 2 <i>P</i> 327 Broadcom <i>Comment Status</i> R	ncorrected_cw_	counter is incremented." # 190
bomment Type TR Bin counters are 0 to 3, i uggestedRemedy Change: "(k = 1 to 3)" to besponse ACCEPT IN PRINCIPLE	Comment Status A not 1 to 3 : "(k = 0 to 3)" Response Status C			Inner_FEC_codewor Add a similar statem Response ACCEPT. Cl 177 SC 177.6.2 Slavick, Jeff Comment Type TR	rd_error_bin_k or Inner_FEC_u nent in 184.5.7. <i>Response Status</i> C 2 <i>P</i> 327 Broadcom <i>Comment Status</i> R	ncorrected_cw_	counter is incremented." # 190
Comment Type TR Bin counters are 0 to 3, I SuggestedRemedy Change: "(k = 1 to 3)" to Response ACCEPT IN PRINCIPLE	Comment Status A not 1 to 3 : "(k = 0 to 3)" Response Status C			Inner_FEC_codewor Add a similar statem Response ACCEPT. Cl 177 SC 177.6.2 Slavick, Jeff Comment Type TR Missing that ++ mea SuggestedRemedy Add the following the	rd_error_bin_k or Inner_FEC_u nent in 184.5.7. <i>Response Status</i> C 2 <i>P</i> 327 Broadcom <i>Comment Status</i> R	L34	counter is incremented." # <u>190</u> (withdrawn,
omment Type TR Bin counters are 0 to 3, i uggestedRemedy Change: "(k = 1 to 3)" to esponse ACCEPT IN PRINCIPLE	Comment Status A not 1 to 3 : "(k = 0 to 3)" Response Status C			Inner_FEC_codewor Add a similar statem Response ACCEPT. Cl 177 SC 177.6.2 Slavick, Jeff Comment Type TR Missing that ++ mea SuggestedRemedy Add the following the	rd_error_bin_k or Inner_FEC_u nent in 184.5.7. <i>Response Status</i> C 2 <i>P</i> 327 Broadcom <i>Comment Status</i> R ans increment by 1 e sentence to first paragraph "T	L34	counter is incremented." # <u>190</u> (withdrawn
bomment Type TR Bin counters are 0 to 3, i uggestedRemedy Change: "(k = 1 to 3)" to besponse ACCEPT IN PRINCIPLE	Comment Status A not 1 to 3 : "(k = 0 to 3)" Response Status C			Inner_FEC_codewor Add a similar statem Response ACCEPT. Cl 177 SC 177.6.2 Slavick, Jeff Comment Type TR Missing that ++ mea SuggestedRemedy Add the following the variable indicates the	rd_error_bin_k or Inner_FEC_u hent in 184.5.7. <i>Response Status</i> C 2 P327 Broadcom <i>Comment Status</i> R ans increment by 1 e sentence to first paragraph "T at its value is to be incremented	L34	counter is incremented." # <u>190</u> (withdrawn

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 177 SC 177.6.2 Page 31 of 68 3/12/2025 6:02:53 PM

	SC 177.9	P 333	L16	# 52	C/ 178	SC 178.2	P344	L1	# 132		
Bruckman	, Leon	Nvidia			Dudek, Mik	e	Marvell				
Comment	Type TR	Comment Status A		(bucket)	Comment 7	Гуре т	Comment Status A		error ratio		
	0	bles are missing from the MI	DIO tables		lt is ver 174A.7		t to find what the block error rat	io specification is	from the reference to		
Suggested	-				Suggested						
Add pr	recoder_tx_out_e	nable_i to Table 177-7			00	,	ceiver is expected to meet the b	lock error ratio si	pecifications in 174A 7		
Response		Response Status C			measu	red at the PM	/A adjacent to the PMD, with B	ERadded equal to	o 1.6 × 10-5." to A PMD		
	PT IN PRINCIPLI ment the suggeste	E. ed remedy with editorial licer	ise.		measu	red at the PN	d to meet the block error ratio of A adjacent to the PMD, with B	ERadded equal to	o 1.6 × 10-5." Make		
2/ 177	SC 177.9	P 333	L 40	# 53			ge in clauses 179 to 183 and a ratio is the same value of 1.45				
Bruckman	, Leon	Nvidia			Response		Response Status C				
Comment	Type TR	Comment Status A		(bucket)		PT IN PRINC					
		e 4 bin counters (0 to 3), las		Also, it is hard to	Resolve using the response to comment #155.						
		counters 0 to 3 are assigne	d.		C/ 178	SC 178.2	P 344	L 4	# 133		
Suggested	2			h	Dudek, Mik	e	Marvell				
		0 and 1.2431, update referer for each bin counter, similar			Comment 7	Гуре т	Comment Status A		error ratio		
184-5	0				It is convoluted to find what the block error ratio specification is from the reference to 174A.8						
Response	PT IN PRINCIPLI	Response Status C			Suggested	Remedy					
	-		alaa maana tha	t the MDIO register	Change		ce from 174A.8 to 174.8A.8.1.4	. Make the equ	ivalent change in		
		is a good improvement. This unters for lanes 1 to 7 in Tat			clauses	5 179 to 183					
numbe that the	ers for all FEC con e MDIO register r	unters for lanes 1 to 7 in Tab numbers for Inner_FEC_corr	ole 177-8 are shif	ted/incorrect. Note		3 179 to 183	Response Status C				
numbe that the	ers for all FEC con e MDIO register r	unters for lanes 1 to 7 in Tab	ole 177-8 are shif	ted/incorrect. Note	clauses Response	PT IN PRINC					
numbe that the 1.2434 Add re	ers for all FEC co e MDIO register r 4 and 1.2435 (not eference to 1.2430	unters for lanes 1 to 7 in Tab numbers for Inner_FEC_corr	ble 177-8 are shif ected_cw_count inces for each of t	ted/incorrect. Note er (lane1) should be he other 7 lanes. Make	clauses Response ACCEF		IPLE.				
numbe that the 1.2434 Add re a row f Fix the	ers for all FEC con e MDIO register r 4 and 1.2435 (not eference to 1.2430 for each bin coun e register reference	unters for lanes 1 to 7 in Tab numbers for Inner_FEC_corr 1.2430 and 1.2431). D and 1.2431, update referer	ble 177-8 are shif ected_cw_count nces for each of t re references in cw_counter (lane	ted/incorrect. Note er (lane1) should be he other 7 lanes. Make Table 184-5. e1) and all following	clauses Response ACCEF [Editor'	PT IN PRINC s note: CC:	IPLE.				
numbe that the 1.2434 Add re a row f Fix the MDIO	ers for all FEC con e MDIO register r 4 and 1.2435 (not eference to 1.2430 for each bin coun e register reference	unters for lanes 1 to 7 in Tab numbers for Inner_FEC_corr 1.2430 and 1.2431). O and 1.2431, update referent ter, similar to the way they a ce for Inner_FEC_corrected_ for Inner FEC counters for I	ble 177-8 are shif ected_cw_count nces for each of t re references in cw_counter (lane	ted/incorrect. Note er (lane1) should be he other 7 lanes. Make Table 184-5. e1) and all following	clauses Response ACCEF [Editor'	PT IN PRINC s note: CC:	IPLE. 178 to 183]				
numbe that the 1.2434 Add re a row f Fix the MDIO	ers for all FEC col e MDIO register r 4 and 1.2435 (not eference to 1.2430 for each bin coun e register reference register numbers	unters for lanes 1 to 7 in Tab numbers for Inner_FEC_corr 1.2430 and 1.2431). O and 1.2431, update referent ter, similar to the way they a ce for Inner_FEC_corrected_ for Inner FEC counters for I	ble 177-8 are shif ected_cw_count nces for each of t re references in cw_counter (lane	ted/incorrect. Note er (lane1) should be he other 7 lanes. Make Table 184-5. e1) and all following	clauses Response ACCEF [Editor'	PT IN PRINC s note: CC:	IPLE. 178 to 183]				
numbe that the 1.2434 Add re a row f Fix the MDIO	ers for all FEC col e MDIO register r 4 and 1.2435 (not eference to 1.2430 for each bin coun e register reference register numbers	unters for lanes 1 to 7 in Tab numbers for Inner_FEC_corr 1.2430 and 1.2431). O and 1.2431, update referent ter, similar to the way they a ce for Inner_FEC_corrected_ for Inner FEC counters for I	ble 177-8 are shif ected_cw_count nces for each of t re references in cw_counter (lane	ted/incorrect. Note er (lane1) should be he other 7 lanes. Make Table 184-5. e1) and all following	clauses Response ACCEF [Editor'	PT IN PRINC s note: CC:	IPLE. 178 to 183]				
numbe that the 1.2434 Add re a row f Fix the MDIO	ers for all FEC col e MDIO register r 4 and 1.2435 (not eference to 1.2430 for each bin coun e register reference register numbers	unters for lanes 1 to 7 in Tab numbers for Inner_FEC_corr 1.2430 and 1.2431). O and 1.2431, update referent ter, similar to the way they a ce for Inner_FEC_corrected_ for Inner FEC counters for I	ble 177-8 are shif ected_cw_count nces for each of t re references in cw_counter (lane	ted/incorrect. Note er (lane1) should be he other 7 lanes. Make Table 184-5. e1) and all following	clauses Response ACCEF [Editor'	PT IN PRINC s note: CC:	IPLE. 178 to 183]				

C/ 178 SC 178.2

C/ 178 SC 178.6	P 344	L 53	# 178	C/ 178 SC	178.8.2	P 346	L 44	# 255		
Swenson, Norman	Point2; Infiner	a		Ran, Adee		Cisco				
Comment Type E Fix typo	Comment Status A		(bucketp)			Comment Status A MDI, according to the transr ace. "according" is linked to		<i>(bucket)</i> cifications in"		
uggestedRemedy					o out of pr					
Change 1.6TGBASE	E to 1.6TBASE			Also in 178.8.	.3.					
	Response Status C PLE. in the comment appears 7 time: E-KR2 should be changed to 40			SuggestedRemed Delete the co Response	•	oth places. <i>Response Status</i> C				
Implement the sugg	ested remedy across all instance	es and change	400GBSE-KR2 to	ACCEPT.						
400GBASE-KR2.		so, and onlange		C/ 178 SC	178.8.3	P 346	L 49	# 256		
X 178 SC 178.8 Dpsasnick, Eugene	P 347 Broadcom	L 29	# 175	Ran, Adee <i>Comment Type</i>	ER	Cisco Comment Status A		(bucket)		
comment Type T	Comment Status A tion subclause is missing from tl	ne 178.8 set of I	<i>(bucket)</i> PMD funtions.	Incorrect refe SuggestedRemed Change to 17	ły	78.9.2.7				
	"PMD reset function" should be ne title and text as 179.8.10 <i>Response Status</i> C	added to descri	be the PMD reset	Response ACCEPT.		Response Status C				
, ACCEPT.					178.8.9	P387	L 40	# 129		
7 178 SC 178.8.2	2 <i>P</i> 346	L 44	# 187	Dudek, Mike Comment Type	TR	Marvell Comment Status R		ILT defaults		
wenson, Norman	Point2; Infiner						e PMD clauses a			
omment Type E	Comment Status A		(bucket)	Annex 178B has been written generically so that the PMD clauses and AUI annexes specificy the details however these clauses and annexes are not specifying the initial bring up defaults.						
	er MDI, this sentence reads like 179.8.2 are not delivered to the l			SuggestedRemed	ły					
	red to the MDI according to the 1			Add to the ILT function sub clauses for clauses 178 and 179 and annexes 176C and 176D. "The default settings used after reset or power up is free running PRBS31 with PAM2 encoding and the Initialize coefficient initial conditions" For clauses 180 to 184						
Remove the comma	after MDI.			add to the ILT	function :	subclauses "The default set	ings used after i			
Response ACCEPT IN PRINCI	Response Status C			running PRBS Response	S31 with P	AM4 encoding without prece Response Status C	oding"			
Resolve using the re		REJECT. The default state for training pattern is defined explicitly in 178B.6.3. "The training pattern selector is set to synchronous PRBS13 and the modulation to PAM2 upon entry to the QUIET state of the Training control state diagram (see Figure 178B-8)." For electrical interfaces, the transmitter FIR state is initialized in the OUT_OF_SYNC state								
				in rigule 170		fficient update state diagram	·/·			

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C/ 178 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SC 178.8.9 SORT ORDER: Clause, Subclause, page, line

C/ 178	SC 1	178.9.2	P 348	L 9	# 225		C/ 178	SC	178.9.2	I	^{>} 348	L 22	# 258
Dawe, Pier	rs		Nvidia				Ran, Adee			Cis	sco		
Comment	Туре	ER	Comment Status A		()	bucket)	Comment 7	Туре	TR	Comment Stat	us A		Steady-state voltag
Incons	istency												in terms of a minimum
Suggested	Remed	У					dv_t of no max			ponds to a minimi	um v_f spe	ec (0.4 V with A_	_v=0.385 V) but there is
Chang	e "Diffe	rential pk-	pk voltage" to "Differential p	eak-to-peak volt	age"								/e 0.5 0V, which would
Response			Response Status C							sumption about NE cations in Table 17			cation is a range.
		RINCIPL					Suggested				0 1 11101	,	
	are 3 in consiste		f "pk-pk" in the draft, but for	clarity, it is prefe	erable to use "pea	ik-to-			•	ication from min to	o range, fro	om 0 to 0.1 V. c	orresponding to v_f
Chang	e "pk-pl	k" to "pea	k-to-peak" in Table 178-6, T	able 179-12, and	Table 176D-11.		betwee	en 0.4 a	and 0.5 V.		0		
[CC 17	78, 179,	176D]					•		th editoria _f range).	il license, considei	ing respor	ises to other co	mments (which may
C/ 178	SC 1	178.9.2	P 348	L13	# 257		Response			Response Statu	ıs C		
Ran, Adee	•		Cisco					PT IN I	PRINCIPL	•	•		
Comment	Туре	Е	Comment Status A		(1	bucket)							
			imon-mode voltage has max iich is more readable.	and min in sepa	arate rows. In Tab	ble				es a gap in the spe vith the adopted tra			change addresses the
Suggested	Remed	У					Implem	nent th	e suggest	ed remedy with ec	itorial lice	nse.	
Chang	e to a ra	ange in a	single row as in Table 176D	-1.			C/ 178	SC	178.9.2.4		^{>} 350	L33	# 259
Response			Response Status C				Ran, Adee			Cis		_00	
ACCEI	PT.						Comment 7		ER	Comment Stat			Steady-state voltag
												or calculation of	the reference voltage.
							The tex Table 1	xts refe 178-13	ers to Tabl		e required	parameters (T_	v the invoking clause. r, f_r, A_v, f_b) are in lause.
							Suggested	Remed	dy			-	
							Change "with N	e from	-	er parameter value	es specifie	d in Table 178-1	2"
							to "with N Table 1			D_p=4, and other	parameter	values specifie	d in Table 178-12 and
							Response			Response Stati	ıs C		
							ACCEF	PT IN I	PRINCIPL	E.			
							Implem	nent th	e suggest	ed remedy with ec	itorial lice	nse.	

C/ 178 SC 178.9.2.4

2/178 S	C 178.9.2.7	P 351	L12	# 152	C/ 178	SC	178.9.3	P 351	L 38	# 260	
Shiasi, Ali		Ghiasi Qunatu	ım/Marvell		Ran, Adee			Cisco			
omment Type	e TR	Comment Status A		(bucketp)	Comment 7	уре	ER	Comment Status A		Steady-state voltage	
The referer	nce pacakge A	A and B SDNR are known sp	pecific value					-9 says "Specified as the s		age (as defined in	
	se are the val				 178.9.2.4) measured at the test transmitter's output" But 178.9.2.4 currently defines only the difference steady-state voltage, not the measured steady-state voltage, which is needed here. Table 176C-4 has the same issue, since it also refers to 178.9.2.4. 						
		3/dj/public/24_11/healey_3c community reference SNDI									
esponse		Response Status C			Suggestedl	Remed	dy				
The change (with example and as such Multiple val The sugges During the "initial pres the term "D equalization "dSNDR" (with Make the c	ple test fixture h are not requires would be sted remedy of discussion it wets" when refe- pifference sign n preset (and which is the met-	by the comment would be ex- es, rather than the actual tes- lired for technical completen required, depending on pac- loes not provide sufficient in was pointed out that the text erring to Table 179-8, but the al-to-noise-and-distortion ra denoted Delta SNDR), but in inimum across equalization he issues identified above, i	t fixtures used in tess. kage class and formation for the in 179.9.4.5 inc e correct term is tio" is defined pen n Table 179-7 it settings). This s	the test as required), equalization setting. e editors to implement. ludes the phrase "presets". In addition, er specific transmitter is referred to as should be corrected.	"The di procedi to The me differer In Table "Specif test tra <i>Response</i> ACCEF The co Implem	fferend ure in easure ce ste e 178- ied as nsmitte PT IN F mmen ent the	163A.3.2.1 d steady-s eady-state 9 and Tab the measu er's output PRINCIPLI t addresse e suggeste	state voltage of the transm "" voltage v_f^(meas) of voltage dv_f are computed le 176C-4, change the foot ured steady-state voltage v ". <i>Response Status</i> C	the transmitter a using the proce note text to _f^(meas) (as de	at TP0v and the dure in 163A.3.2.1".	
					[CC 17 C/ 178		^{78]} 178.9.3.4.	3 <i>P</i> 354	L 25	# 54	
					Bruckman,		170.3.3.4.	Nvidia	L Z J	# 04	
					Comment 7		ER	Comment Status A		(bucket	
					Missing						
					Suggestedl Change		•	o: "174A.7.1 or"			
					Response			Response Status C			

ACCEPT.

C/ 178 SC 178.9.3.4.3

C/ 178A SC 178A.1	I. 7 P 758	L 24	# 179	C/ 178B	SC 178B.4	P 769	L 50	# 127
Swenson, Norman	Point2; Infinera	a		Dudek, Mike		Marvell		
Comment Type T	Comment Status A		(bucket)	Comment Ty	be TR	Comment Status A		(bucket)
Formula for normalized	zed frequency is wrong			The PMA	adjacent to a	a PCS still has 2 interfaces, it	is just that only	one is exposed.
SuggestedRemedy				SuggestedRe	emedy			
Change \pi=f_b/2 to	\theta=2\pi f/f_b					terfaces" to "one or two expo		At the end of the
Response	Response Status C				h add "Only e	exposed interfaces participate	in ILT".	
ACCEPT IN PRINCI	PLE.			Response		Response Status C		
Clearly show the rela	ationship between normalized and P769	d absolute frequ L18	# 223	To: "Devi PMD or A	ces in a path UI compone	e (the interface with the PCS may include one or two phys nts. An example of the forme	ically-instantiate	d interfaces, specifically ent to a PCS or to a
Dawe, Piers	Nvidia	-		PHY XS	with a single	AUI-C2M (Annex 176D) or Al	JI-C2C (Annex 1	76C) interface (the
Comment Type TR	Comment Status R		(bucketp)			or PHY XS is never physical first paragraph in 178B.x ad		
51	mention Auto-Negotiation at all!		(2000)			sed by the AUI component or		
SuggestedRemedy	Ũ				ed interface."			
,	on between this annex and Claus	e 73 AN						
Response	Response Status C			C/ 178B	SC 178B.5.2	2 P 772	L 24	# 74
REJECT.	Response Status			Bruckman, L	eon	Nvidia		
	teraction between AN and ILT. A	N determines w	hich HCD PHY type to	Comment Ty	be ER	Comment Status A		(bucke
I here is no direct in		he PHY fails to a	achieve PCS_status =	In Figure	178B-2 miss	ing parenthesys closing in US	SE TX CLOCK	
use then manageme	ent configures the HCD PHY. If the					31		recovered
use then manageme OK before the link_f	ail_inhibit_timer expires then the	n AN restarts th		SuggestedRe		31		recovered
use then manageme OK before the link_f		n AN restarts th		00	emedy	LOCK(recovered" to: "USE_1	、	
use then manageme OK before the link_f	ail_inhibit_timer expires then the	n AN restarts th		Change :	emedy		、	

C/ 178B SC 178B.5.2

	.3.1 P776	L1	# 277	C/ 178B SC 178B.	11 P785	L 27	# 128
Ran, Adee	Cisco			Dudek, Mike	Marvell		
Comment Type T	Comment Status A		(bucketp)	Comment Type TR	Comment Status A		References
"The last two symbol	s of the training pattern are "0"	symbols"		The reference to 17 AUI's.	9.9.4.1.5 leads to a specific	set of ranges that ar	re different for different
function), so "the last going back to the trai A similar requiremen	ning pattern is not mentioned in t two symbols" are not defined ning frame structure). t is stated in the third paragrap	properly (unders	ubclause 178B.6.3. It is	SuggestedRemedy Change "(see 179.9 Response	.4.1.5)" to " see e.g. 179.9.4 <i>Response Status</i> C	.1.5"	
	ell-defined, and it makes this st	atement redunda	ant.	, ACCEPT IN PRINC	•		
SuggestedRemedy				change "(see 179.9.	,		
Delete the quoted se	ntence.			to "(see 179.9.4.1.5	as an example)"		
Response	Response Status C			C/ 178B SC 178B.	14.2.1 P786	L 43	# 276
ACCEPT.				Ran, Adee	Cisco		
C/ 178B SC 178B.6	.3.2 P776	L 6	# 278	Comment Type TR	Comment Status A		Variables
Ran, Adee	Cisco				ljacent_remote_rts and adja	cent_isl_ready refer	to "the other interface",
Comment Type TR	Comment Status A		(bucket)	which is not defined The definitions inclu	de SIGNAL_OK, but the prir	mitive from which thi	s parameter is taken
51	ng ILT" is not required.		()		he ILT is. The NOTE under		
	n, not a period or a state. It cou	ld be "during trai	ning" or "during	sufficiently clear.			
transmission of traini	ng frames".			SuggestedRemedy			
SuggestedRemedy Delete the comma, a	nd change "during ILT" to "duri	ng training" or a	nother appropriate	https://www.ieee802 pdf	ion was given in the ad hoc c.org/3/dj/public/adhoc/optics	s/0225_OPTX/ran_3	
term, with editorial lic	ense.						ditorial license
term, with editorial lic Response	Response Status C				osal in slide 8 of 3dj_adhoc_	_01a_250220, with e	ditorial license.
Response ACCEPT IN PRINCI	Response Status C			Response	Response Status C	_01a_250220, with e	ditorial license.
Response ACCEPT IN PRINCI	Response Status C	ng training", with	editorial license.	Response ACCEPT IN PRINC	Response Status C IPLE.		
Response ACCEPT IN PRINCIF Delete the comma, a	Response Status C PLE. nd change "during ILT" to "duri	ng training", with L 27	editorial license. # 275	Response ACCEPT IN PRINC Implement the prop https://www.ieee802	Response Status C	g contribution with e	ditorial license.
Response ACCEPT IN PRINCIF Delete the comma, a	Response Status C PLE. nd change "during ILT" to "duri	0 0		Response ACCEPT IN PRINC Implement the prop	Response Status C IPLE. osal in slide 8 of the followin	g contribution with e	ditorial license.
Response ACCEPT IN PRINCI Delete the comma, a Cl 178B SC 178B.7	Response Status C PLE. nd change "during ILT" to "duri P778 Cisco Comment Status A	0 0		Response ACCEPT IN PRINC Implement the prop https://www.ieee802 pdf	Response Status C IPLE. osal in slide 8 of the followin	g contribution with e	ditorial license.
Response ACCEPT IN PRINCIF Delete the comma, a Cl 178B SC 178B.7 Ran, Adee Comment Type ER Stray space in "free - 4 instances	Response Status C PLE. nd change "during ILT" to "duri P778 Cisco Comment Status A	0 0	# 275	Response ACCEPT IN PRINC Implement the prop https://www.ieee802 pdf	Response Status C IPLE. osal in slide 8 of the followin corg/3/dj/public/adhoc/optics	g contribution with e	ditorial license.
Response ACCEPT IN PRINCIF Delete the comma, a Cl 178B SC 178B.7 Ran, Adee Comment Type ER Stray space in "free - 4 instances SuggestedRemedy	Response Status C PLE. nd change "during ILT" to "duri P778 Cisco Comment Status A	0 0	# 275	Response ACCEPT IN PRINC Implement the prop https://www.ieee802 pdf	Response Status C IPLE. osal in slide 8 of the followin corg/3/dj/public/adhoc/optics	g contribution with e	ditorial license.
Response ACCEPT IN PRINCIF Delete the comma, a Cl 178B SC 178B.7 Ran, Adee Comment Type ER Stray space in "free - 4 instances SuggestedRemedy	Response Status C PLE. nd change "during ILT" to "during P778 Cisco Comment Status A erunning PRBS31"	0 0	# 275	Response ACCEPT IN PRINC Implement the prop https://www.ieee802 pdf	Response Status C IPLE. osal in slide 8 of the followin corg/3/dj/public/adhoc/optics	g contribution with e	ditorial license.

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

 C/
 178B
 Page 37 of 68

 SC
 178B.14.2.1
 3/12/2025 6:02:53 PM

/ 178B SC 178B.1	4.2.1 P787	L 8	# 222	C/ 178B	SC 178B.	14.3	P 789	L10	# 279
Dawe, Piers	Nvidia			Ran, Adee			Cisco		
Comment Type TR	Comment Status R		AN/LT timers	Comment 7	Гуре E	Comme	ent Status A		(bucket)
	to specified time limit for the IL			Missing	period at th	e end of the la	st paragraph of th	e subclause (afte	er "precoding").
	e Clause 73 link_fail_inhibit_tin	ner will override	IT.	Suggested	Remedy				
uggestedRemedy Correct the misinform	nation			Add a p	period.				
Also in 178B.5.1.	nalion.			Response		Respons	se Status C		
Response	Response Status C			ACCEF	РТ.				
REJECT.				C/ 178B	SC 178B.	14.3.1	P 789	L 53	# 280
The comment is refe	rring to the following note:			Ran, Adee			Cisco		
"NOTE - There is no	specified time limit for the ILT			Comment 7	Гуре т	Comme	ent Status A		(bucket
	estarted if there is an indication It is beyond the scope of	of an unrecove	rable fault. The definition	true wit	h the initial F	AM2 modulate			herwise it can be set to
consensus to make t	dy does not provide sufficient he proposed changes. age was changed from 783 to ⁻		ent. There is no		e from		e interface has de	termined that the	e ISL partner's
C/ 178B SC 178B.1 Brown, Matt	4.2.1 <i>P</i> 787 Alphawave S	L 22 Semi	# 18			on a lane of the hitting a PAM4	e interface has de	termined that the	e ISL partner's
Comment Type T	Comment Status R		(withdrawn)	Response		0	se Status C		
reset is defined as "E whenever a reset is r PMD_reset for PMDs when PMA_reset is t	Boolean variable that controls t necessary including when initia s and during power on." When rue? Would that be the manag MD_reset, does that mean wh	ated by PMA_res initiated by PMA gement variable	ne device. It is true set for AUI components, _reset; does that mean	ACCEF	PT IN PRINC	PLE.	n editorial license		
uggestedRemedy									
whenever a reset is r	Boolean variable that controls necessary including when PMA en PMD_reset management v	A_reset manage	ment variable is 1 for						
Response	Response Status Z								
REJECT.									
This comment was V	VITHDRAWN by the comment	er.							

C/ 178B	SC 178B.14.3.5	P 793	L 5	# 281		C/ 178B	SC 178B.1	4.3.5	P 793	L 20	# 282	
Ran, Adee		Cisco				Ran, Adee			Cisco			
Comment 7	Гуре Т	Comment Status A		(k	oucket)	Comment T	уре т	Comme	ent Status R		AN/LT	timers
"The tra upon e These these v For cor	ntry to the QUIET settings have man ariables do not ap npleteness of the	4 L26) says: ctor is set to synchronous state of the Training contro agement variables associa bear in the state diagram. liagram, It is preferable to	bl state diagram (ated with them, b	(see Figure 178B- out assignments of	8)."	be done Since a active c The tim manage	e by adding a local device only during the er period sho ement, with pe	timer that wo does not cont TRAIN_LOC uld be set by	uld be accessible trol the timing of t CAL state.	by management he link partner, th se, and should be	e timer should be a configurable by	•
Suggested	-					Suggested	-					
local_tp	QUIET state of Fig o_mode <= synchr nc_mode <= PAM2		iments:			In the T	rain Local sta	te, add "start	mer, as follows: training_timer". op training_timer'			
	PT IN PRINCIPLE.	Response Status C				training This tim TRAIN_ the mar implem Add a r training	ner is started w LOCAL state hagement vari entation depe new variable d _timer_duratio	when the train (see Figure able training ndent. efinition in 17 on	hing control state 178B-8). The tern _timer_duration. 7 78B.14.3.1:	The effect of expir	timer is controlled ation of this timer	is
						is define Add a s	ed by the PMI statement in e	D or AUI com ach PMD clai	ponent specificat use (e.g., in 179.8			ladie
						Response			se Status C			
						REJEC	т.	noopone				
						Resolve	e using the rea	sponse to cor	nment #234.			
						C/ 178B	SC 178B.1	5	P 796	L 26	# 9	
						Marris, Arth	ur		Cadence De	sign Systems		
						Comment T Preset :	ype T selction requir		ent Status A		(k	bucket)
						SuggestedF In Table	,	_req change	e "1.1120.13:12" te	o "1.1120.13:11"		
						Response		Respons	se Status C			

C/ 178B SC 178B.15

C/ 179	SC 179.9.4	P 380	L 13	# 262	C/ 179	SC 179.9.4.1.	3 P383	L 31	# 263
Ran, Adee		Cisco			Ran, Adee		Cisco		
omment	Type TR	Comment Status A		DC common-mode	Comment	Type TR	Comment Status R	Vax	swing & initial ILT setting
This is for more Clause	higher than all dern processes.	common-mode voltage for C other interfaces, without justif Also, there is no minimum. < 176C define a range of 0.2 t and C2C.	ication, and thes	e values are irrelevant	This re the rec cable is	quires different in eiver, depending s plugged). Thes	dopted in D1.4 are diffe nitialization in the transmost on the mode chosen for e create an unnecessan e and development/deb	mitter and, very likely or the port (whether a ry burden for firmware	, a different algorithm in module or a copper
uggested	Remedy				The m	otivation for choo	sing preset 6 for the ini	itial setting was to lim	it the initial swing
Chang	e to DC commo	n-mode voltage (range), 0.2 t	to 1 V.				put. The maximum tran		
esponse		Response Status C			compa	rison, CR initial s	setting is preset 1, which	h has a maximum tra	nsmitter swing of 1 V.
During		LE. there was general agreemen e one) #E5 (Chicago rules) (c	0	maximum to 1 V.	(which		d by the channel, assur		swing of the transmitter able loss at frequencies
For col A: Cha B: Cha C: No #E4: A #E5: A	mment #262 I p inge DC commo inge DC commo change : 12, B: 9, C: 16 : 15, B: 13, C: 2	refer on mode range to min: 0.2 V, on mode range to min: 0 V, m c	max: 1 V ax: 1 V		transm has v_ than th	itter with preset of at this maximur e 1 V currently a		be allowed to be as hi et 6, the transmitter sv v_f of 0.5 (the maxim	igh as 0.6 V; If a device wing will be 0.9 V, lower um in D1.4) its
		s to add a minimum specificat	tion for DC comm	non mode.			higher output swing for and using the same ad		asing their reach (if the the receiver.
I suppo Y: 26 N	ort changing the N: 5 A: 12	e one) (decision) value of "DC common-mode e the value of "DC common-n			maxim and ca	um on one end c	om cable compliance as	ninimum on the other	smitter swing at the is not a likely situation should work with cables
						0			
						0	be made for KR vs. C2	.0.	
						e 179-7, change 0.6", and change	the Transmitter steady e "differential peak-to-pe		ge from "0.4 to 0.5" to ansmitter enabled" from
						e 179-8, change ootnote.	the "initialize" setting to	o match preset 6, and	I delete "and initialize"
					In Tabl	le 179-10, chang	e the "Amplitude tolerar	nce" value from "0.5"	to "0.6".
					"NOTE genera	The steady-sta ted by a transmi	ormative note as follows te voltage in Table 179 tter, due to the initialize set 1 unless it specifical	-10 corresponds to pr setting in Table 179-	reset 1. It is not initially 8. The receiver is not
OMMENT	Г STATUS: Ď/di	ed ER/editorial required GR/ spatched A/accepted R/reje			0	Z/withdrawn		C/ 179 SC 179.9.4.1.3	Page 40 of 68 3/12/2025 6:02:

SORT ORDER: Clause, Subclause, page, line

Optionally, apply the corresponding changes in clause 178.

Response

Response Status C

REJECT.

Т.

The CRG reviewed presentation https://www.ieee802.org/3/dj/public/25_03/ran_3dj_03_2503.pdf.

The proposed changes in the presentation are not required for technical completeness of the draft, and can therefore be deferred to a future draft. The commenter is encouraged to work on a complete proposal and build consensus.

There is no consensus to make the changes at this time.

C/ 179	SC 179.9.4.1.3	P 383	L 31	# 218	
Dawe, Pie	ers	Nvidia			

Comment Type TR Comment Status R

Vax swing & initial ILT setting

Transmitters are supposed to start Training at medium amplitude (preset 6) now, not the loudest, to avoid possible crosstalk and linearity issues. A receiver that prefers a louder signal on a particular channel can ask for it.

SuggestedRemedy

In Table 179-8, for "initialize", change 1 to 0.75, add the tolerances, and delete "and initialize" in the table footnotes. As in Table 176D-9 (which applies to 176C).

Response

REJECT.

The suggeted change in this comment is not required for technical completeness of the draft, and can therefore be deferred to a future draft.

There is no consensus to implement the suggested change at this time.

Response Status C

C/ 179	SC 179.9.4.6.	1 P388	L12	# 136
Calvin, John	I	Keysight Tecl	nnologies	
Comment Ty	vpe E	Comment Status A		(bucket)

The text at the end of this sentence "(e.g., it is preferable to measure jitter around points with high slope)." is missleading. The building of the jrms -vs- slewrate model depends on all edges to build an accurate model.

SuggestedRemedy

remove the example text "(e.g., it is preferable to measure jitter around points with high slope)."

Response Response Status C

ACCEPT IN PRINCIPLE.

The comment states that the transitions selected should include multiple transitions; while the text that emphasizes the 03 and 30 transitions.

The suggested remedy addresses this claim only partly. The recommended choice of transitions should be changed.

The parenthesized text was meant to recommend that per transition, the threshold should be set to have the highest slope. However, this is not necessarily the right choice, and it was not included in the original proposal, so it should be removed.

Change from: "The set A should include multiple transitions from the symbol 0 to the symbol 3 and multiple transitions from the symbol 3 to the symbol 0. Other transitions may also be included"

To: "The set A should include multiple transitions between different PAM4 levels".

Delete "(e.g., it is preferable to measure jitter around points with high slope)".

Implement with editorial license.

C/ 179 SC 179.9.4.6.1

C/ 179 SC 179.9.4.6.2	P388	L 50	# 135	C/ 179	SC 179.11.2	P 398	L 52	# 226
Calvin, John	Keysight Tech	nologies		Dawe, Pier	6	Nvidia		
Comment Type TR	Comment Status A		(bucket)	Comment 7	ype TR	Comment Status R		(bucketp)
5 of : https://www.ieee802	ended to track the concensu .org/3/dj/public/25_01/calvi	/in_3dj_01b_250	01.pdf which cites the			ptable at 53.125 GHz it's eve 10 MHz steps; don't want to		
179-17. it needs to read Ji	would be used. We are $nu03 = sqrt(1/2(inu1^2 + inu1))$		an" from the equation	Suggestedl	Remedy			
SuggestedRemedy				Change clauses		z" to "from 50 GHz to 53.13	GHz". Make sim	ilar changes in other
edit the radicand to include The concept of RMS is bro	e a sqrt(1/2 (jnu1^2 + jnu2/ oadly understood in the fiel			Response		Response Status C		
need an IEEE definition.				REJEC		e siste at with a super lawistic a	aabla aaaambhu	end ether ll
Response I	Response Status C					nsistent with several existing defined at the (possibly not for		
	o prevent confusion betwe			Às exa GHz in	nples, the cable Table 54-6, at ²	e assembly ILdd is specified 12.8906 GHz in Table 92-10,	at 25.65 GHz in	Table 162-18, at 1.5625
However, the comment ide	entifies an error that needs	to be be correc	ted.		Table 85-9.	y was never an issue. Comp	liance testing ma	av be performed in
Add the missing 1/2 factor	r inside the square root.			differen	t ways, e.g., me	easurements at a 10 MHz fre		
X 179 SC 179.9.5.3	P 392	L 40	# 264	frequer	су.			
Ran, Adee	Cisco	-		There is	s no consensus	to make the suggested char	nge.	
Comment Type TR	Comment Status A		(bucket)	[Editor's	s note: Change	d page from 399 to 398]		
Footnote c of Table 179-1	1 states that				0			
"The COM value is the tar g). The SNRTX value	get value for the SNRTX ca	alibration define	d in 179.9.5.3.3 item	C/ 179A	SC 179A.2	P 801	L 23	# 283
0/	eference should be as close	e as practical to	the value needed to	Ran, Adee		Cisco		
produce the target COM."	etc.			Comment 7	51	Comment Status A		(bucket)
This statement is technica to calibrate COM.	ally incorrect - the value me	asured is SNDF	R, and it is not changed	Incorre	ct reference to	178.8.2		
	ded to state that passing th	ne test with lowe	r COM demonstrates	Suggestedl Change	Remedy to 178.9.2			
				Response		Response Status C		
SuggestedRemedy				ACCEF	Τ.			
Change the footnote text t		in the test requir	rements with a lower			Deed	L 23	# 188
Change the footnote text t "COM is calculated as def	to: fined in 179.9.5.3.3. Meetin es margin to the specificati			C/ 179A	SC 179A.2	P 801	-20	
Change the footnote text t "COM is calculated as def value of COM demonstrate	fined in 179.9.5.3.3. Meetin			C/ 179A Swenson, I		P 801 Point2; Infine	-	
Change the footnote text t "COM is calculated as def value of COM demonstrate esponse / ACCEPT IN PRINCIPLE.	fined in 179.9.5.3.3. Meetin es margin to the specificati <i>Response Status</i> C	ion but is not red		-	lorman		-	(bucket)
Change the footnote text t "COM is calculated as def value of COM demonstrate Response / ACCEPT IN PRINCIPLE. The comment identifies ar	fined in 179.9.5.3.3. Meetin es margin to the specificati <i>Response Status</i> C n error that needs to be cor	ion but is not rec rrected.		Swenson, M Comment 7	Norman Type E	Point2; Infine	-	(bucket)
Change the footnote text t "COM is calculated as def value of COM demonstrate Response / ACCEPT IN PRINCIPLE. The comment identifies ar	fined in 179.9.5.3.3. Meetin es margin to the specificati <i>Response Status</i> C	ion but is not rec rrected.		Swenson, M Comment 7	Norman Type E is, I believe, a	Point2; Infine Comment Status A	-	(bucket)
Change the footnote text t "COM is calculated as def value of COM demonstrate Response / ACCEPT IN PRINCIPLE. The comment identifies ar	fined in 179.9.5.3.3. Meetin es margin to the specificati <i>Response Status</i> C n error that needs to be cor	ion but is not rec rrected.		Swenson, f Comment 7 178.8.2 Suggested	Norman Type E is, I believe, a	Point2; Infine <i>Comment Status</i> A typo. It should be 178.9.2.	-	(bucket)
"COM is calculated as def value of COM demonstrate Response / ACCEPT IN PRINCIPLE. The comment identifies ar	fined in 179.9.5.3.3. Meetin es margin to the specificati <i>Response Status</i> C n error that needs to be cor	ion but is not rec rrected.		Swenson, f Comment 7 178.8.2 Suggested	Norman Type E is, I believe, a Remedy 178.8.2 to 178	Point2; Infine <i>Comment Status</i> A typo. It should be 178.9.2.	-	(bucket)

SORT ORDER: Clause, Subclause, page, line

CI 179A	SC 179A.3	P 801	L 29	# 284	C/ 179B	SC 179B.2	2.1	P806	L 41	# 130
Ran, Adee		Cisco			Dudek, Mik	е		Marvell		
Comment Ty	ype ER	Comment Status A		(bucket)	Comment T	ype TR	Comme	ent Status A		Test fixtures ILdd
Incorrec	ct reference to	178.8.3						test fixture inserti		
SuggestedR	Remedy									icularly as it has been
00	e to 178.9.3						s above 6/Gi	Hz can affect perf	formance)	
Response		Response Status C			Suggested			<i>.</i>		
ACCEP ⁻	т	Response Status			Remov	e the frequer	cy range. Als	so for equations 1	179B-2 and 179E	3-5
ACCEP	1.				Response		Respons	se Status C		
C/ 179A	SC 179A-1	P 804	L 23	# 140	ACCEF	T IN PRINC	PLE.			
Sekel, Steve	e	Wilder Techno	ologies		The foll	owing straw	oolls were tak	en:		
Comment Ty	уре Т	Comment Status A		Test fixtures ILdd	_					
		CB now includes the module of	connector, and l	PCB only losses are no		oll #E-1 (cho nment #130 l		#E-2 (Chicago ru	les) (direction)	
longer re	eferenced							from equations 1	79B-1 (reference	e HCB), 179B-2
SuggestedR	Remedy				(referer	ice MCB), an	d 179B-5 (refe	erence MTF)	·	
		d test fixture, remove loss dim			B: Rem C: No c		quency range	from equation 17	'9B-5 (reference	MTF)
	0	de of the 3.5 dB dimension line the value to 5.95 dB	e to the inner e	dge of the MCB		: 11 B: 7 C: 1	0			
Response					#E-2: A	: 15 B: 13 C:	15			
-	T IN PRINCIPL	Response Status C			Strown	all #E 2 (aba	ose one) (dec	vicion)		
	G reviewed the					nment #130 l		(151011)		
		rg/3/dj/public/25_03/sekel_3dj	_01_2503.pdf.		A: Rem	oving the fre	, quency range	from equations 1	79B-1 (reference	e HCB), 179B-2
			en elide d'efect	hal 04: 04: 05:00	(referer B: No c		d 179B-5 (refe	erence MTF)		
		s to Figure 179A-1 as shown of deleting the note, change it to		kel_3dj_01_2503,		nange : 17 B: 15				
		HCB ILdd allocations include		ctor (up to the RF	-	-				
connect	tor reference pl	ane)".			Remov	e the frequer	cy range from	n equations 179B-	-1, 179B-2, and	179B-5.
					C/ 179B	SC 179B.3	6.1	P 807	L 21	# 141
					Sekel, Stev	е		Wilder Techr	nologies	
					Comment T	уре т	Comme	ent Status A		(bucket)
					the cab	le assemble	test fixture (M		ne loss include th	es", however the text for ne PCB, connector and t valid

SuggestedRemedy

Delete the word "PCB" from Figure 179B-1 caption

Response Response Status C

ACCEPT.

C/ 179B	SC 179B.4.1	P808	L 9	# 1	C/ 179B	SC 179B.4.1	I P808	L 27	# 142
Lusted, Ke	nt	Synopsys			Sekel, Stev	/e	Wilder Tec	hnologies	
Comment 7	Type TR	Comment Status R		(withdrawn)	Comment 7	Гуре Т	Comment Status R		Test fixtures ILdd
The ma	ated test fixture i	nsertion loss is TBD					minal ILdd reference line ar		sed on early prototype
Suggestedl	Remedy					•	e of fixutres built with updat	ed connectors	
	the proposal in				Suggested	-			
https://v 6.pdf	www.ieee802.org	g/3/dj/public/adhoc/optics/022	5_OPTX/kocsi	s_3dj_adhoc_01_25020			e line for MTF in figure 197 ion to be presented during N		197B-5 with values
Response		Response Status Z			Response		Response Status C		
REJEC	CT.				REJEC	CT.			
This co	omment was WIT	HDRAWN by the commenter			This co	omment was W	ITHDRAWN by the comme	nter.	
C/ 179B	SC 179B.4.1	P808	L15	# 139	C/ 179B	SC 179B.4.6	6 P 812	L 37	# 154
Sekel, Stev	ve	Wilder Techno	logies		Ghiasi, Ali		Ghiasi Qur	atum/Marvell	
Comment 7	Туре т	Comment Status A		Test fixtures ILdd	Comment 7	Type ER	Comment Status A		(bucket)
MTF IL	dd max and min	limit lines are TBD			Remov	e extra space a	after 58.x		
Suggestedl	Remedy				Suggested	Remedy			
		MTF ILdd limit lines in figure 1			Remov	e extra space a	after 58.x		
	using values pro	esented in contribuion given ir	n March plenar	у	Response		Response Status C		
Response		Response Status C			ACCEF	PT.			
	PT IN PRINCIPL RG reviewed the								
		g/3/dj/public/25_03/sekel_3dj_	_01_2503.pdf(which refers to					
	uted MTF data ir			(a) and all date of the states					
		g/3/dj/public/tools/MTF/sekel_ tps://www.ieee802.org/3/dj/pu							
	•		_						
		to equations 179B-3 and 179 cept that the free term in equa							
00101_0	00j_01_2000, 0X								

Implement with editorial license.

C/ 179B SC 179B.4.6

C/ 180	SC 180	.2	P 418	L 37	# 155	C/ 180
Mi, Guan	gcan		Huawei Tech	nologies Co., Lto	1	Bruckr
Commen	t Type 🛛 🕇	ર C	Comment Status A		Block error ratio	Comm
			ror ratio spec is said to o second thought about th		eceiver or the PHY	No vai
a trar	nsmitter or re	eceiver inp	PMD/PHY is not met or ut signal. It seems odd t	o say " a PMD re	eceiver is expected to	Sugge: Ch
meet	the block er	ror ratio	, without specifying the	PMD/PHY transi	mitter condition.	Respo
		s to all othe	er optical PMD clauses.			AC Im
00	dRemedy			the test is a set of	e and de Califa a la	C/ 180
			eems meant to relate to ay to make the text more			Dawe,
		ondition. F	or example,"under optic	al transmitter sig	nal compliant to this	Comm
•	ification".					18
Response			esponse Status C			Th
ACCI	EPT IN PRIN	ICIPLE.				sig
The (CRG reviewe	nd slides 3	to 7 of the following con	tribution:		PŇ
			to 7 of the following con lj/public/25_03/brown_30			PŇ Se
https:	://www.ieee8	802.org/3/c	lj/public/25_03/brown_30	dj_03_2503.pdf		PÑ Se ve
https:	://www.ieee8	802.org/3/c		dj_03_2503.pdf		PN Se ve of rat
https: Imple	://www.ieee8	802.org/3/c anges on s	lj/public/25_03/brown_30	dj_03_2503.pdf		PN Se ver of rat sig
https: Imple	://www.ieee8 ement the ch	302.org/3/c anges on a ditorial.	lj/public/25_03/brown_30	dj_03_2503.pdf	# 55	PN Se ve of rat
https: Imple Imple C/ 180	://www.ieee8 ement the ch ement with e SC 180	302.org/3/c anges on a ditorial.	lj/public/25_03/brown_36 slide 7 of brown_3dj_03_	dj_03_2503.pdf _2503.	# 55	PN Se ve of rat sig to <i>Sugge</i> In
https: Imple Imple C/ 180 Bruckma	://www.ieee8 ement the ch ement with e SC 180 n, Leon	302.org/3/c anges on a ditorial. . 4.2	lj/public/25_03/brown_3d slide 7 of brown_3dj_03_ P 419 Nvidia	dj_03_2503.pdf _2503.		PN Se ve of rat sig to <i>Sugge</i> In In
https: Imple Imple C/ 180 Bruckma Comment	://www.ieee8 ement the ch ement with e SC 180 n, Leon <i>t Type</i> E I	302.org/3/c anges on a ditorial. .4.2	lj/public/25_03/brown_36 slide 7 of brown_3dj_03_ P 419 Nvidia Comment Status A	dj_03_2503.pdf _2503. _240	(bucket)	PN Se ve of rat sig to <i>Sugge</i> In In po
https: Imple Imple C/ 180 Bruckma Comment "Skev	://www.ieee8 ement the ch ement with e SC 180 n, Leon t Type El w constraints	302.org/3/c anges on a ditorial. .4.2 R C s for 200G	lj/public/25_03/brown_3d slide 7 of brown_3dj_03 P 419 Nvidia Comment Status A BASE-DR1 and 400GBA	dj_03_2503.pdf _2503. _240	(bucket)	PN Se ve of rat sig to Sugge In In po cro
https: Imple Imple C/ 180 Bruckma Comment Skew sectio	://www.ieee8 ement the ch ement with e SC 180 n, Leon t Type El w constraints on, but it is n	302.org/3/c anges on a ditorial. .4.2 R C s for 200G	lj/public/25_03/brown_3d slide 7 of brown_3dj_03 P 419 Nvidia Comment Status A BASE-DR1 and 400GBA	dj_03_2503.pdf _2503. _240	(bucket)	PN Se ve of rat sig to Sugge In In po cro
https: Imple Imple C/ 180 Bruckma Commen "Skew sectio Suggeste	://www.ieee8 ement the ch ement with e SC 180 n, Leon t Type El w constraints on, but it is n edRemedy	302.org/3/c anges on a ditorial. .4.2 R C s for 200G ot formatte	lj/public/25_03/brown_36 slide 7 of brown_3dj_03_ P 419 Nvidia <i>Comment Status</i> A BASE-DR1 and 400GBA ed as that	dj_03_2503.pdf _2503. 	<i>(bucket)</i> s to be the header of a	PN Se ve of rat sig to Sugge In In po cro Ho the ne
https: Imple Imple C/ 180 Bruckma Commen: "Skew sectio Suggeste Make	://www.ieee8 ement the ch ement with e SC 180 n, Leon t Type El w constraints on, but it is n edRemedy e: "Skew con	302.org/3/c anges on a ditorial. .4.2 R C as for 200G soft formatte straints for	lj/public/25_03/brown_36 slide 7 of brown_3dj_03 P419 Nvidia Comment Status A BASE-DR1 and 400GBA ed as that	dj_03_2503.pdf _2503. 	<i>(bucket)</i> s to be the header of a a subsection of	PN Se ve of rat sig to Sugge In In po crr the the ne In
https: Imple Imple Cl 180 Bruckma Commen: "Skew sectio Suggeste Make 180.4	://www.ieee8 ement the ch ement with e SC 180 n, Leon t Type El w constraints on, but it is n edRemedy e: "Skew con t.2. Same fo	302.org/3/c anges on a ditorial. .4.2 R C s for 200Gi sot formatte straints for r "Skew cc	lj/public/25_03/brown_36 slide 7 of brown_3dj_03 P419 Nvidia Comment Status A BASE-DR1 and 400GBA ed as that r 200GBASE-DR1 and 4 onstraints for 800GBASE	dj_03_2503.pdf _2503. 	<i>(bucket)</i> s to be the header of a a subsection of	PN Se ve of rat sig to Sugge In In po cro the the In thi
https: Imple Imple C/ 180 Bruckma Comment "Skey sectio Suggeste Make 180.4 page	://www.ieee8 ement the ch ement with e SC 180 n, Leon t Type El w constraints on, but it is n edRemedy e: "Skew con 1.2. Same fo line 6. Cons	anges on a ditorial. .4.2 R C s for 200G ot formatte straints for r "Skew cc istent with	lj/public/25_03/brown_30 slide 7 of brown_3dj_03 P419 Nvidia Comment Status A BASE-DR1 and 400GBA ed as that 200GBASE-DR1 and 4 ponstraints for 800GBASE 182.4.2	dj_03_2503.pdf _2503. 	<i>(bucket)</i> s to be the header of a a subsection of	PN Se ve of rat sig to Sugge In In po cro Ho the In thi de
https: Imple Imple C/ 180 Bruckma Comment "Sket sectio Suggeste 180.4 page Response	://www.ieee8 ement the ch ement with e SC 180 n, Leon t Type El w constraints on, but it is n edRemedy e: "Skew con line 6. Cons e	302.org/3/c anges on a ditorial. .4.2 R C s for 200G of formatte straints for r "Skew cc istent with <i>Re</i>	lj/public/25_03/brown_36 slide 7 of brown_3dj_03 P419 Nvidia Comment Status A BASE-DR1 and 400GBA ed as that r 200GBASE-DR1 and 4 onstraints for 800GBASE	dj_03_2503.pdf _2503. 	<i>(bucket)</i> s to be the header of a a subsection of	PN Se ve of rat sig to Sugge In In po cro Ho the In thi de de
https: Imple Imple Cl 180 Bruckma Comment "Sket sectio Suggeste Nake 180.4 page Response ACCI	://www.ieee8 ement the ch ement with e SC 180 n, Leon t Type El w constraints on, but it is n edRemedy e: "Skew con line 6. Cons e EPT IN PRIM	302.org/3/c anges on a ditorial. .4.2 R C s for 200G of formatte straints for r "Skew cc istent with <i>Re</i> VCIPLE.	lj/public/25_03/brown_30 slide 7 of brown_3dj_03 P419 Nvidia Comment Status A BASE-DR1 and 400GBA ed as that 200GBASE-DR1 and 4 ponstraints for 800GBASE 182.4.2	dj_03_2503.pdf _2503. 	<i>(bucket)</i> s to be the header of a a subsection of	PN Se ve of rat sig to Sugge In In po crr the the ne In

C/ 180	SC ·	180.5.1	P 420	L 47	# 56
Bruckman	, Leon		Nvidia		
Comment	Туре	TR	Comment Status A		(bucket)
Not cle variab	,	the refere	ence is to ILT section 178B.14	1.2.1 that define	es the state diagram
Suggested	Remed	y .			
Chang	e the re	eference fi	om: "178B.14.2.1" to: "Anne»	(178B".	
Response			Response Status C		
		RINCIPL	E. emedy with editorial license		

Cl 180	SC 180.5.1	P 421	L 24	# 221
Dawe, Piers	6	Nvidia		
Comment T	ype TR	Comment Status R		signal detect

180.5.4-5, like all IMDD clauses, says "180.5.4 PMD global signal detect function The variable Global_PMD_signal_detect is a global indicator of the presence of optical signals on all n lanes." and "The PMD lane-by-lane signal detect function is used by the PMD to indicate sufficient optical power is detected at the receiver input on each lane." See Figure 44A-7, Signal Detect handling across sublayers. It allows a receiver to sleep in very low power until there is an optical signal. There is no AN with "the additional objective of supporting a digital signal detect to ensure that the device is attached to a link partner rather than detecting signal due to crosstalk" (from 73.1) which is a traditional objective of signal detect too. Yet it seems that signal detect has been broken in this draft. It appears to go nowhere but management, when it should feed into ILT.

SuggestedRemedy

In the block diagram, show that global_PMD_signal_detect feeds into ILT. In 178B (ILT), show global_PMD_signal_detect as an input, so that ILT doesn't waste power and cause confusion trying to lock onto a grossly invalid "signal" (far too weak, or crosstalk).

However, once the link is up and running, there is less reason to bring it down if SD says the signal is bad but the PCS does go out of AM lock - but maybe no change to 178B is needed for this point.

In 180.5.5, give a recommendation that SD should be 1 (good) when the signal is above this receiver's sensitivity for typical signals (considering penalties) so that a usable signal is declared as too weak, but a weak signal (still enough to override crosstalk) might be declared as a candidate for ILT to try.

Apply to other optical clauses.

esponse Response Status C

REJECT.

After CRG discussion there was no consensus to make the proposed changes.

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	C/ 180
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 180.5.1
SORT ORDER: Clause, Subclause, page, line		

Page 45 of 68 3/12/2025 6:02:53 PM

	SC 180.7.3	P 427	L 46	# 143	C/ 180	SC 18	0.9.1	P 431	L 34	# 22
Ghiasi, Ali		Ghiasi Qunatu	m/Marvell		Brown, Ma	att		Alphawave Se	mi	
Comment Typ	be TR Col	mment Status A		MPI	Comment	Туре 1	т	Comment Status A		(bucket)
		ould be too small for 20 channel loss with MPI p		nless one uses				3, pattern 7 is defined as valic e defined for Clause 180 and		
SuggestedRei	medy				Suggested	IRemedy				
plus 0.18 400GBAS DGD the t	dB for DGD then to E-DR2/800GBASE- total penalty for this	BASE-DR MPI penalty a tal penalty for this PMD DR4/800GBASE-DR8 PMD is 0.3 dB. Need) is 0.58 dB MPI penalty is 0. to use method ir	12 dB with 0.18 dB n CL 140 as in tabel	1.6TB/	ASE-R sig le 181-11,	gnal" an	w pattern 7 "Valid 200GBASE d update Table 180-14 accord w pattern 7 "Valid 800GBASI	dingly.	
		discrete reflectances a R of 5 dB which is too			Response			Response Status C		
		fidence level. see ghias				PT IN PR	-			
Response	Res	ponse Status C			Implen	nent sugg	jested re	emedy with editorial license		
ACCEPT	IN PRINCIPLE.				C/ 180	SC 18	0.9.1	P 431	L 34	# 57
The CRG	reviewed the followi	ing presentations:			Bruckman	, Leon		Nvidia		
https://ww	/w.ieee802.org/3/dj/p	oublic/25_03/johnson_3		f	Comment	Туре 1	Т	Comment Status A		(bucket,
https://ww	/w.ieee802.org/3/dj/p	oublic/25_03/ghiasi_3dj	_01a_2503.pdf		Empty	row in tab	ble 180-	13		
After CRG editorial lic		Table 180-12 with the	contents of Table	e 140-13. With	Suggested Remov		row fron	n Table 180-13		
C/ 180 S	SC 180.9.1	P 431	L34	# 96	Response			Response Status C		
Johnson, Johi		Broadcom	-••		ACCE	PT IN PR	INCIPLE	Ε.		
Comment Typ		mment Status A		(bucket)	Resolv	ve using th	he respo	onse to comment #22.		
51)-13 has an extra, er			(Subility)	C/ 180	SC 18	0.9.5	P 433	L 21	# 144
SuggestedRei	-				Ghiasi, Ali			Ghiasi Qunatu	m/Marvell	
	the extra line in Tabl	e 180-13			Comment	Туре 1	TR	Comment Status R		(withdrawn)
Response		ponse Status C			Agreed	d conunte	r propag	gating crosstalk source per D	1.3 comment 1	40
•	IN PRINCIPLE.				Suggested	IRemedy				
	using the response to	o comment #22.			TDEC Counte aggres	Q measur er-propaga ssor used	rement. ating as in recei	nent 140 counter-propagating ynchronous optical signals (c ver stress tests is applied to a psstalk test pattern can be pai	rosstalk) as spe all the PMD rec	ecified for the eive inputs at TP3. For
								n be pattern 5 or 7.	uem 3, 3, 017.	For Clause 182/183,
									uem 3, 3, 017.	For Clause 182/183,
					the cro	osstalk pat		n be pattern 5 or 7.	uem 3, 3, 017.	For Clause 182/183,

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 180	Page 46 of 68
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 180.9.5	3/12/2025 6:02:53 PM
SORT ORDER: Clause, Subclause, page, line		

C/ 180	SC 180.9.5	P 433	L 26	# 97
Johnson, Jo	hn	Broadcom		
Comment Ty	/pe E	Comment Status A		TDECQ

The sentence describing the counter-propagating signal requirements is overly long and difficult to parse.

SuggestedRemedy

Replace the sentence,

"TDECQ is defined with all receive lanes in operation using test pattern 3 or 5 (see Table 180-13) with the patterns asynchronous to the pattern used to test the transmitter and the receive lanes have power levels specified for the aggressor lanes under stressed receiver sensitivity in Table 180-8."

with the following sentences:

"TDECQ is defined with all receive lanes in operation using test pattern 3 or 5 (see Table 180-13). The received test patterns shall be asynchronous to the pattern used to test the transmitter, and shall have power levels as specified in Table 180-8 for the aggressor lanes in the stressed receiver sensitivity test."

This remedy should also be applied to clauses 181.9.5, 182.9.5 and 183.9.5, with editorial license.

Response

ACCEPT IN PRINCIPLE.

Response Status C

Implement suggested remedy with editorial license

C/ 180	SC 180.9.5	P 433	L 31	# 23
Brown, Ma	att	Alphawave Se	mi	
Comment	Туре Т	Comment Status A		TDECQ
For T	DECQ, why does	AUI need to be "accessible".	The clock sho	uld be derived from the

AUI input regardless of whether it is accessible or not. This also applies to clauses 181, 182, 183.

SuggestedRemedy

Change:

"For those cases where the xAUI-n chip-to-chip (C2C) or chip-to-module (C2M) interface (see Table 180-1 through Table 180-4) is accessible,"

To:

"For those cases where there is an xAUI-n chip-to-chip (C2C) or chip-to-module (C2M) interface (see Table 180-1 through Table 180-4)," Make a similar change in 181.9.4, 182.9.5, and 183.9.4.

Response	Response Status	С
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ACCEPT IN PRINCIPLE.

Implement suggested remedy with editorial license

C/ 180	SC 180.9.5.1	P 4 :	34	L 43	# 86
Johnson, J	ohn	Broad	lcom		
Comment T	уре Т	Comment Status	Α		DGD
for 500					PMDs. Max mean DGD each, this tighter spec

SuggestedRemedy

Change Max mean DGD in Table 180-16 from 0.8ps to 0.5ps.

C/ 180	SC	180.9.5.1	P 4	34	L 45	# 87	
Johnson,	John		Broad	dcom			
Comment	Туре	Е	Comment Status	Α			(bucket
First w	ord of	Table 180-	16, footnote (a), sho	ould be cap	italized		
Suggested	Reme	dy					
Capita	lize the	e first word	of Table 180-16, for	otnote (a):	"Dispersion ."		
Response			Response Status	С			
ACCE	рт						

C/ 180A SC 180A	P 833	L	# 19	C/ 181	SC 181.1	P 442	L13	# 34
Brown, Matt	Alphawave Se	emi		D'Ambrosi	a, John	Futurewei, U.	S. Subsidiary of	Huawei
Comment Type E	Comment Status A		(bucketp)	Comment	Type E	Comment Status R		PCS name (bucket
The title of this annex is vertice the scope in a scope clause Annex 174A.				is inco	nsistent to call o	R1/ER1-20 now uses the same out the full name of the sublay		
SuggestedRemedy				Suggested	-	D DCC" with "DCC"		
Change Annex title to: "MI	DIs for optical PHYs"			•	e ouugbase-	R PCS" with "PCS"		
Change the title of 180A.1 Add the following new sub encompassing the second	clause heading after the th		oh: "180A.2 Overview"	Response REJEC Clause		Response Status C 4, 186, and 187 all specify sub	layers that can	only be used with the
	Response Status C					s such the existing "800GBAS		
ACCEPT IN PRINCIPLE. Implement suggested rem				the MII 119, 12	l being specifica 20A, 120F, 120	to remind the reader that the s ally the 800GMII. This is consis G, 121, 123, 124, 150, 151, 15	stent with other 54, 162, 163, 16	clauses (including 95, 9, 172, 175) that
C/ 180A SC 180A.1	P833	L 22	# 17			one specific rate. The generic the PCS, for example, in figure		
Brown, Matt	Alphawave Se	emi		179-1 a	and 180-2. If a f	future task force extends any o		
Comment Type E	Comment Status A		(bucket)	figures	can be made g	generic at that time.		
Big sentence. Break into t	wo. Also, should be "Claus	se 180" and "Cl	ause 182".	C/ 181	SC 181.5.1	P 443	L 53	# 58
SuggestedRemedy				Bruckman,	, Leon	Nvidia		
	r 200GBASE-DR1, 400GB			Comment	Type TR	Comment Status A		(bucket
Change to: "The PMDs for 1.6TBASE-DR8 are specif DR2-2, 800GBASE-DR4-2	ied in Clause 180. PMDs	for 200GBASE	DR1-2, 400GBASE-		ear why the refe	Comment Status A rence is to ILT section 178B.1	4.2.1 that define	
1.6TBASE-DR8 are specil DR2-2, 800GBASE-DR4-2 Response	ied in Clause 180. PMDs	for 200GBASE	DR1-2, 400GBASE-	Not cle	ear why the refe es.		4.2.1 that define	· ·
1.6TBASE-DR8 are special DR2-2, 800GBASE-DR4-2 Response A ACCEPT IN PRINCIPLE.	ied in Clause 180. PMDs 2, and 1.6TBASE-DR8-2 a Response Status C	for 200GBASE	DR1-2, 400GBASE-	Not cle variabl Suggested	ear why the refe es. <i>Remedy</i>			
1.6TBASE-DR8 are specil DR2-2, 800GBASE-DR4-2 Response	ied in Clause 180. PMDs 2, and 1.6TBASE-DR8-2 a Response Status C	for 200GBASE	DR1-2, 400GBASE-	Not cle variabl Suggested	ear why the refe es. <i>Remedy</i>	rence is to ILT section 178B.1		(,
1.6TBASE-DR8 are special DR2-2, 800GBASE-DR4-2 Response A ACCEPT IN PRINCIPLE.	ied in Clause 180. PMDs 2, and 1.6TBASE-DR8-2 a Response Status C	for 200GBASE	DR1-2, 400GBASE-	Not cle variabl Suggested Chang Response ACCEI	ear why the refe es. <i>Remedy</i> e the reference PT IN PRINCIP	rence is to ILT section 178B.1 from: "178B.14.2.1" to: "Anne <i>Response Status</i> C		<i>(bucket,</i> es the state diagram
1.6TBASE-DR8 are special DR2-2, 800GBASE-DR4-2 Response A ACCEPT IN PRINCIPLE.	ied in Clause 180. PMDs 2, and 1.6TBASE-DR8-2 a Response Status C	for 200GBASE	DR1-2, 400GBASE-	Not cle variabl Suggested Chang Response ACCEI	ear why the refe es. <i>Remedy</i> e the reference PT IN PRINCIP	rence is to ILT section 178B.1 from: "178B.14.2.1" to: "Anne <i>Response Status</i> C LE.		()
1.6TBASE-DR8 are special DR2-2, 800GBASE-DR4-2 Response A ACCEPT IN PRINCIPLE.	ied in Clause 180. PMDs 2, and 1.6TBASE-DR8-2 a Response Status C	for 200GBASE	DR1-2, 400GBASE-	Not cle variabl Suggested Chang Response ACCEI Implen	ear why the refe es. <i>Remedy</i> e the reference PT IN PRINCIP nent suggested SC 181.7.1	rence is to ILT section 178B.1 from: "178B.14.2.1" to: "Anne <i>Response Status</i> C LE. remedy with editorial license	x 178B".	es the state diagram
1.6TBASE-DR8 are special DR2-2, 800GBASE-DR4-2 Response A ACCEPT IN PRINCIPLE.	ied in Clause 180. PMDs 2, and 1.6TBASE-DR8-2 a Response Status C	for 200GBASE	DR1-2, 400GBASE-	Not cle variabl Suggested Chang Response ACCEI Implen Cl 181	ear why the refe es. <i>IRemedy</i> e the reference PT IN PRINCIP nent suggested SC 181.7.1 John	rence is to ILT section 178B.1 from: "178B.14.2.1" to: "Anne <i>Response Status</i> C LE. remedy with editorial license <i>P</i> 448	x 178B".	es the state diagram
1.6TBASE-DR8 are special DR2-2, 800GBASE-DR4-2 Response ACCEPT IN PRINCIPLE.	ied in Clause 180. PMDs 2, and 1.6TBASE-DR8-2 a Response Status C	for 200GBASE	DR1-2, 400GBASE-	Not cle variabl Suggested Chang Response ACCEI Implen Cl 181 Johnson, J Comment RIN17.	ear why the refe es. <i>Remedy</i> e the reference PT IN PRINCIP nent suggested SC 181.7.1 John <i>Type</i> E .10MA should h	rence is to ILT section 178B.1 from: "178B.14.2.1" to: "Anne <i>Response Status</i> C LE. remedy with editorial license <i>P</i> 448 Broadcom	ех 178В". 	# <u>88</u> (bucketp)
1.6TBASE-DR8 are special DR2-2, 800GBASE-DR4-2 Response ACCEPT IN PRINCIPLE.	ied in Clause 180. PMDs 2, and 1.6TBASE-DR8-2 a Response Status C	for 200GBASE	DR1-2, 400GBASE-	Not cle variabl Suggested Chang Response ACCEI Implen Cl 181 Johnson, J Comment RIN17. Suggested	ear why the refe es. <i>Remedy</i> e the reference PT IN PRINCIP nent suggested SC 181.7.1 John <i>Type</i> E .1OMA should h <i>Remedy</i>	rence is to ILT section 178B.1 from: "178B.14.2.1" to: "Anne <i>Response Status</i> C LE. remedy with editorial license <i>P</i> 448 Broadcom <i>Comment Status</i> A	L 36	# <u>88</u> (bucketp)
1.6TBASE-DR8 are special DR2-2, 800GBASE-DR4-2 Response A ACCEPT IN PRINCIPLE.	ied in Clause 180. PMDs 2, and 1.6TBASE-DR8-2 a Response Status C	for 200GBASE	DR1-2, 400GBASE-	Not cle variabl Suggested Chang Response ACCEI Implen Cl 181 Johnson, J Comment RIN17. Suggested	ear why the refe es. <i>Remedy</i> e the reference PT IN PRINCIP nent suggested SC 181.7.1 John <i>Type</i> E .1OMA should h <i>Remedy</i>	rence is to ILT section 178B.1 from: "178B.14.2.1" to: "Anne <i>Response Status</i> C LE. remedy with editorial license <i>P</i> 448 Broadcom <i>Comment Status</i> A have been changed to RINxxO	L 36	# <u>88</u> (bucketp

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C/ 181	SC 181.7.3	P448	L 48	# 145		C/ 181	SC 181.9.1		P 455	L 42	# 265
Ghiasi, Ali		Ghiasi Qunatu	m/Marvell			Ran, Adee			Cisco		
Comment	51	Comment Status R			MPI	Comment		Comment St			(bucket
S <i>uggested</i> The M fixed p 5 dB w	<i>Remedy</i> PI penalty is 0.4 penalty and ER o which is too high	5 dB maybe to small for this P 1 dB and DGD penalty is 0.18 f 3.5 dB as the origonal MPI a for 200G Si MZM. Revisiting I asi_3dj_01_2503	the total penalt nalysis in the 80	02.3bs assumed	ER of	use. Tł (and u Also in Compa	ne referenced s nfortunately ha the correspon- are with Clause	subclause 181.9.7 s "over/under-sho ding places in Cla 180 which has "	7 is titled "Tra oot" in the tex ause 183.	ansmitter overshc t).	hand we should not oot and undershoot" dershoot" consistently
Response		Response Status C				Suggested	corresponding Domodu	places.			
REJE						00	,	shoot" to "Oversh	oot and unde	archaat" across th	no droft
NEOE.	01.					0	e Over/under-				
https://	/www.ieee802.or	e following presentations: rg/3/dj/public/25_03/johnson_3 rg/3/dj/public/25_03/ghiasi_3dj					PT IN PRINCIF	Response St PLE. I remedy with edit	-		
After C	CRG discussion	there was no consensus to ma	ake a change in	this clause a at	this	C/ 181	SC 181.9.5		P 456	L 52	# 146
time.			Ū			Ghiasi, Ali		(Ghiasi Qunat	um/Marvell	
C/ 181	SC 181.8	P 452	L 43	# 89		Comment	Type TR	Comment Si	tatus R		(withdrawn
Johnson, 、	John	Broadcom				Agreed	l conunter prop	agating crosstalk	source per [D1.3 comment 14	10
Comment	Туре Т	Comment Status A		fibe	r model	Suggested	Remedy				
The de	escription of the	generic fiber cabling model sh	ould be the sam	ne for all PMDs.				mment 140 counte	er-propagatin	ig text agreed to	the condition of
Suggestea	Remedy					-	C measuremer	nt. asynchronous opt	tical signals ((crosstalk) as she	cified for the
Use th	e same descript	ion in 181.8 as in 180.8, which	was improved	in D1.4.		aggres	sor used in rec	ceiver stress tests	is applied to	all the PMD rece	eive inputs at TP3. For
Response		Response Status C						crosstalk test patt can be pattern 5 c		attern 3, 5, or 7. I	For Clause 182/183,
ACCE	PT IN PRINCIPL	.E.				Response		Response St			
Impler	ment suggested	remedy with editorial license w	vith the following	g exception.		REJEC	CT.				
"Insert		ements of installed fiber cable ference method."	s are made in a	ccordance with IE	EC	This co	omment was W	/ITHDRAWN by ti	he commente	er.	
		ements of installed fiber cable rd reference method."	s are made in a	ccordance with IE	EC						
Also m	nake this change	e in 182.8.									

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

C/ 181 SC 181.9.5 Page 49 of 68 3/12/2025 6:02:54 PM

C/ 181	SC 181.9.5.1	P 458	L12	# 90	C/ 182	SC 182.5.1	P 471	L10	# 59
Johnson,	John	Broadcom			Bruckman	, Leon	Nvidia		
Comment	Туре Т	Comment Status A		DGD	Comment	Type TR	Comment Status A		(bucket)
for 500		of 0.8ps is inconsistent with p 121, 124 and 140. Because			variabl	es.	erence is to ILT section 178B	.14.2.1 that define	es the state diagram
Suggested					Suggested	-			
	-	D in Table 181-14 from 0.8ps	to 0 5pc		Chang	e the referenc	e from: "178B.14.2.1" to: "An	nex 178B".	
0		·	to 0.5ps.		Response		Response Status C		
Response ACCE	PT.	Response Status C				PT IN PRINCI	PLE. d remedy with editorial license	e	
C/ 181	SC 181.9.9	P 459	L17	# 91	C/ 182	SC 182.7.3	B P 477	L 46	# 147
Johnson, J	John	Broadcom			Ghiasi, Ali		Ghiasi Qun	atum/Marvell	
Comment	Type T	Comment Status A		(bucket)	Comment	Type TR	Comment Status R		MP
"The e receive <i>Response</i> ACCE	IRemedy e following sente xtinction ratio is r er defined in 181. PT IN PRINCIPL	nce to the end of the paragra neasured using waveforms c 9.5, before the reference equ <i>Response Status</i> C E. emedy with editorial license	aptured at the c	output of the reference	of CL1 Suggested If one plus 0. 400GE DGD t 140-12 penalty	24 to trade off <i>Remedy</i> tries to calcual 18 dB for DGE 3ASE-DR2/800 he total penalt 2 to trade off ni y were evaluat	E-DR2-2, 800GBASE-DR4-2, channel loss with MPI penalt te 200GBASE-DR-2 MPI pen 0 then total penalty for this P 0GBASE-DR4/800GBASE-DF y for this PMD is 0.28 dB. N umber of discrete reflectance ed with ER of 5 dB which is tr and confidence level. see gl	y then we can rec alty as fixed pena MD is 0.63 dB & MPI penalty is a eed to use methoo s and max channe bo high for 200G \$	Ity then it would 0.5 dB 0.1 dB with 0.18 dB d in CL 140 as in tabel el loss. The BS/CD MPI Si MZM. In addition
C/ 181	SC 181.9.11	P 459	L 36	# 92	Response		Response Status C	11231_00j_01_2000	
Johnson,	John	Broadcom			REJE	ст			
Comment Remov Suggested Chang	ve extra "the" IRemedy	Comment Status A		(bucket)	The Cl https://	RG reviewed to /www.ieee802.	he following presentations: .org/3/dj/public/25_03/johnsor .org/3/dj/public/25_03/ghiasi_		
"RINxx to	OMA of each lan	ne, with "xx" referring to the 17 ne, with "xx" referring to 17.1,			After C time.	RG discussion	n there was no consensus to	make a change in	this clause a at this
Response		Response Status C							
	PT IN PRINCIPL	E. emedy with editorial license							

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

C/ 182 SC 182.7.3 Page 50 of 68 3/12/2025 6:02:54 PM

C/ 182	SC 182.8	P 478	L 23	# 93	C/ 183	SC 183.1	P 49 2	L13	# 35
Johnson, J	lohn	Broadcom			D'Ambrosia	John	Futurev	vei, U.S. Subsidiary	of Huawei
	2.8 sub-clause	Comment Status A heading should be capitalized	I	(bucket)		00GBASE-EF	Comment Status F R1/ER1-20 now uses the put the full name of the s	same PCS as othe	PCS name (bucke er 800GBASE-R PHYs, it E-R PCS
Suggestedi Change Response	2	channel characteristics" to "1 Response Status C	82.8 Optical cha	annel characteristics"	SuggestedR Replace	emedy	R PCS" with "PCS"	·	
ACCEF	PT. SC 182.9.5	P483	L35	# 148	Response REJEC ⁻ Resolve		Response Status (,	
Ghiasi, Ali	00 102.9.9	Ghiasi Qunatu		# 140	C/ 183	SC 183.5.1	P 49 4	L5	# 60
Comment 7	51	Comment Status R agating crosstalk source per D		(withdrawn)	Bruckman, I		Nvidia	- L J	# 00
	2	nment 140 counter-propagating	g text agreed to	the condition of	variable	r why the refe s.	rence is to ILT section 1	78B.14.2.1 that def	ines the state diagram
Counte aggres Clause the cro	er-propagating a sor used in rece 180/181, the c	synchronous optical signals (eiver stress tests is applied to rosstalk test pattern can be pa an be pattern 5 or 7.	all the PMD rec	eive inputs at TP3. For	Response ACCEP	the reference		;	183.5.1.
Counte aggres Clause the cro	er-propagating a sor used in rece a 180/181, the cl sstalk pattern c	synchronous optical signals (eiver stress tests is applied to rosstalk test pattern can be pa	all the PMD rec	eive inputs at TP3. For	Change Response ACCEP	the reference	Response Status	; 1.5.1, 182.5.1, and ⁻	
Counte aggres Clause the cro Response REJEC	er-propagating a sor used in rece 180/181, the cl sstalk pattern c	synchronous optical signals (eiver stress tests is applied to rosstalk test pattern can be pa an be pattern 5 or 7.	all the PMD rec attern 3, 5, or 7.	eive inputs at TP3. For	Change Response ACCEP Change	the reference T IN PRINCIP 178B.14.2.1 t	Response Status (LE. o 178B.4 in 180.5.1, 18 P501	; 1.5.1, 182.5.1, and ⁻	183.5.1. # <u>149</u>
Counte aggres Clause the cro Response REJEC This cc	er-propagating a sor used in rece a 180/181, the cl osstalk pattern c CT. comment was WI SC 182.9.9	asynchronous optical signals (eiver stress tests is applied to rosstalk test pattern can be pa an be pattern 5 or 7. <i>Response Status</i> Z THDRAWN by the commente <i>P</i> 485	all the PMD rec attern 3, 5, or 7.	eive inputs at TP3. For	Change Response ACCEP Change Cl 183 Ghiasi, Ali Comment Ty	the reference T IN PRINCIP 178B.14.2.1 t SC 183.7.3 rpe TR	Response Status (LE. o 178B.4 in 180.5.1, 18 P501	1.5.1, 182.5.1, and ⁷ <i>L</i> 51 Qunatum/Marvell	# <u>149</u> <i>M</i> /
Counte aggres Clause the cro Response REJEC This cc Cl 182 Johnson, J Comment T A sente	er-propagating a sor used in rece a 180/181, the cl osstalk pattern c CT. CT. SC 182.9.9 John Type E ence should have	asynchronous optical signals (eiver stress tests is applied to rosstalk test pattern can be pa an be pattern 5 or 7. <i>Response Status</i> Z THDRAWN by the commente	all the PMD rec attern 3, 5, or 7. er. <i>L</i> 47	eive inputs at TP3. For For Clause 182/183, # 94 (bucket)	Change Response ACCEP Change Cl 183 Ghiasi, Ali Comment Ty MPI/DG SuggestedR MPI/DG	the reference T IN PRINCIP 178B.14.2.1 t SC 183.7.3 <i>vpe</i> TR P penalty of 0 <i>emedy</i> D can be redu	Response Status (LE. o 178B.4 in 180.5.1, 18 P501 Ghiasi Comment Status F .5 dB is larger than need	1.5.1, 182.5.1, and <i>f</i> <i>L</i> 51 Qunatum/Marvell R ded for 800GBASE-	# <u>149</u> <i>MI</i> LR4
Counte aggres Clause the cro Response REJEC This co Cl 182 Johnson, J Comment T A sente resoluti Suggested Add the	er-propagating a sor used in rece a 180/181, the cr sstalk pattern c CT. CT. SC 182.9.9 John Type E ence should hav ion. Remedy e following sent	Isynchronous optical signals (eiver stress tests is applied to rosstalk test pattern can be pa an be pattern 5 or 7. <i>Response Status</i> Z THDRAWN by the commente <i>P</i> 485 Broadcom <i>Comment Status</i> A <i>v</i> e been added to this sub-clau ence to the end of the paragra	all the PMD rec attern 3, 5, or 7. er. L47 use based on D ⁻ aph:	# 94 (bucket) 1.3 comment #333	Change Response ACCEP Change Cl 183 Ghiasi, Ali Comment Ty MPI/DG SuggestedR MPI/DG DGD. Response REJEC	the reference T IN PRINCIP 178B.14.2.1 t SC 183.7.3 Upe TR P penalty of 0 Vermedy D can be redu See Ghiasi_3	Response Status (LE. o 178B.4 in 180.5.1, 18 P501 Ghiasi Comment Status F .5 dB is larger than need iced to 0.3 dB then link l dj_01_2503 Response Status (L5.1, 182.5.1, and <i>L</i> 51 L51 Qunatum/Marvell ded for 800GBASE- budget increased by	# <u>149</u> <i>MI</i> LR4
Counte aggres Clause the cro Response REJEC This co Cl 182 Johnson, J Comment T A sente resoluti Suggested/ Add the "The ex	er-propagating a sor used in rece a 180/181, the cr osstalk pattern c CT. CT. SC 182.9.9 John Type E ence should hav ion. <i>Remedy</i> e following sent xtinction ratio is	asynchronous optical signals (eiver stress tests is applied to rosstalk test pattern can be pa an be pattern 5 or 7. <i>Response Status</i> Z THDRAWN by the commente <i>P</i> 485 Broadcom <i>Comment Status</i> A ve been added to this sub-clau	all the PMD rec attern 3, 5, or 7. er. L 47 use based on D aph: captured at the c	# 94 (bucket) 1.3 comment #333	Change Response ACCEP Change Cl 183 Ghiasi, Ali Comment Ty MPI/DG SuggestedR MPI/DG DGD. Response REJEC The CR https://w	the reference T IN PRINCIP 178B.14.2.1 t SC 183.7.3 Vpe TR P penalty of 0 emedy D can be redu See Ghiasi_3 T. G reviewed the ww.ieee802.0	Response Status (LE. o 178B.4 in 180.5.1, 18 P501 Ghiasi Comment Status F .5 dB is larger than need icced to 0.3 dB then link I dj_01_2503	L5.1, 182.5.1, and L51 Qunatum/Marvell ded for 800GBASE- budget increased by budget increased by	# 1 <u>49</u> MI LR4 7 0.1 dB or allocated to 3.pdf

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 183	Page 51 of 68
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 183.7.3	3/12/2025 6:02:54 PM
SORT ORDER: Clause, Subclause, page, line		

C/ 183 SC	C 183.8	P 503	L18	# 95	C/ 184	SC 184.1.	2 P516	L 30	# 36
Johnson, John		Broadcom			D'Ambrosi	a, John	Futurewei,	U.S. Subsidiary of	f Huawei
Comment Type	e T	Comment Status A		fiber model	Comment	Туре Е	Comment Status R		PCS name (bucket)
		generic fiber cabling model sh	ould be the sam	e for all PMDs.			ER1/ER1-20 now uses the sa Il out the full name of the sub		
SuggestedRem Use the sar	,	ion in 183.8 as in 180.8, which	n was improved i	in D1.4.	Suggested				
Response		Response Status C			•		E-R PCS" with "PCS"		
ACCEPT IN	N PRINCIPL	.E.			Response		Response Status C		
Implement	suggested r	emedy with editorial license w	vith the following	exception.	REJEC Resolv		esponse to comment #34.		
In 180-8 ch	nande				C/ 184	SC 184.2	P 518	L 3	# 99
"Insertion Ic	oss measure	ements of installed fiber cable	s are made in ac	ccordance with IEC	Huber, The	omas	Nokia		
61280-4-2 (one-cord ref	erence method."			Comment	<i>Тире</i> Т	Comment Status A		(bucket
to "Insertion Ic	oss measure	ements of installed fiber cable	s are made in ac	ccordance with IEC			annot be a client of the Inner MII, so it must connect to a F		n the PHY_XS goes all
61280-4 se	eries one-cor	rd reference method."			Suggested	Remedy			
C/ 183 SC	C 183.9.5	P 507	L 52	# 150	00	ve "PHY 8000	SXS" from the block at the top	o of Figure 184-2	
Cl 183 SC Ghiasi, Ali	C 183.9.5	P 507 Ghiasi Qunatu		# 150	00			o of Figure 184-2	
Ghiasi, Ali					Remov		SXS" from the block at the top Response Status C	o of Figure 184-2	
Ghiasi, Ali Comment Type	e TR	Ghiasi Qunatu	ım/Marvell	(withdrawn)	Remov Response ACCEI	PT.	Response Status C	-	
Ghiasi, Ali Comment Type Agreed con	e TR nunter propa	Ghiasi Qunatu Comment Status R	ım/Marvell	(withdrawn)	Remov Response ACCEI Cl 184	PT. SC 184.3		o of Figure 184-2 <i>L</i> 24	# 100
Ghiasi, Ali Comment Type Agreed con SuggestedRem	e TR nunter propa	Ghiasi Qunatu <i>Comment Status</i> R gating crosstalk source per D	im/Marvell 1.3 comment 14	(withdrawn) 0	Remov Response ACCEI	PT. SC 184.3	Response Status C	-	# <u>1</u> 00
Ghiasi, Ali Comment Type Agreed con SuggestedRem please impl	e TR nunter propa	Ghiasi Qunatu <i>Comment Status</i> R gating crosstalk source per D ment 140 counter-propagating	im/Marvell 1.3 comment 14	(withdrawn) 0	Remov Response ACCEI Cl 184	PT. SC 184.3 omas	Response Status C	-	# 100 (bucket)
Ghiasi, Ali Comment Type Agreed con SuggestedRem please impl TDECQ me Counter-pro aggressor u	e TR nunter propa <i>nedy</i> lement comi easurement. opagating as used in rece	Ghiasi Qunatu Comment Status R gating crosstalk source per D ment 140 counter-propagating synchronous optical signals (c iver stress tests is applied to a	im/Marvell 1.3 comment 14 g text agreed to t crosstalk) as spe all the PMD rece	(withdrawn) 0 the condition of cified for the sive inputs at TP3. For	Remov Response ACCEI Cl 184 Huber, Tho Comment	PT. SC 184.3 omas <i>Type</i> T HY 800GXS c	Response Status C P519 Nokia	L24	(bucket)
Ghiasi, Ali Comment Type Agreed con SuggestedRem please impl TDECQ me Counter-pro aggressor u Clause 180	e TR nunter propa <i>hedy</i> lement comp easurement. opagating as used in rece 0/181, the cro	Ghiasi Qunatu Comment Status R gating crosstalk source per D ment 140 counter-propagating synchronous optical signals (c iver stress tests is applied to a osstalk test pattern can be pa	im/Marvell 1.3 comment 14 g text agreed to t crosstalk) as spe all the PMD rece	(withdrawn) 0 the condition of cified for the sive inputs at TP3. For	Remov Response ACCEI Cl 184 Huber, Tho Comment	PT. SC 184.3 omas <i>Type</i> T HY 800GXS c ny back to the	Response Status C P519 Nokia Comment Status A annot be a client of the Inner	L24	(bucket)
Ghiasi, Ali Comment Type Agreed con SuggestedRem please impl TDECQ me Counter-pro aggressor u Clause 180 the crosstal	e TR nunter propa <i>hedy</i> lement comp easurement. opagating as used in rece 0/181, the cro	Ghiasi Qunatu Comment Status R agating crosstalk source per D ment 140 counter-propagating synchronous optical signals (c iver stress tests is applied to a osstalk test pattern can be pat an be pattern 5 or 7.	im/Marvell 1.3 comment 14 g text agreed to t crosstalk) as spe all the PMD rece	(withdrawn) 0 the condition of cified for the sive inputs at TP3. For	Remov Response ACCEI Cl 184 Huber, The Comment The Ph the wa Suggested	PT. SC 184.3 omas Type T HY 800GXS c hy back to the IRemedy	Response Status C P519 Nokia Comment Status A annot be a client of the Inner	L24 FEC. By definition PCS.	(bucket)
Ghiasi, Ali Comment Type Agreed con SuggestedRem please impl TDECQ me Counter-pro aggressor u Clause 180	e TR nunter propa <i>hedy</i> lement comp easurement. opagating as used in rece 0/181, the cro	Ghiasi Qunatu Comment Status R gating crosstalk source per D ment 140 counter-propagating synchronous optical signals (c iver stress tests is applied to a osstalk test pattern can be pa	im/Marvell 1.3 comment 14 g text agreed to t crosstalk) as spe all the PMD rece	(withdrawn) 0 the condition of cified for the sive inputs at TP3. For	Remov Response ACCEI Cl 184 Huber, The Comment The Ph the wa Suggested	PT. SC 184.3 omas Type T HY 800GXS c ny back to the IRemedy ve "PHY 800G	Response Status C P519 Nokia Comment Status A annot be a client of the Inner MII, so it must connect to a P	L24 FEC. By definition PCS.	(bucket)

C/ 184 SC 184.3

C/ 184 SC 184.3	P 519	L 25	# 176	C/ 184	SC 184.4.3	P 52	U	L 25	# 118
Opsasnick, Eugene	Broadcom			Brown, Matt		Alphaw	vave Semi		
Comment Type T	Comment Status A		(bucket)	Comment Typ	be T	Comment Status	Α		LR1 PRE
The CL 184 Inner FEC reservice interface. There 800GXS whose lower interface.	equires 32 PCS lanes (for 80 fore the client sublayer abov terface is an 800GMII.	00GE) as input a e this Inner FEC	at the Inner FEC C cannot be a PHY	However,		generator was added ern can be used for blo			
SuggestedRemedy				SuggestedRe	medy				
Remove "PHY 800GXS" Figure 184-2 on page 51	from this list of possible clie 18, line 3.	nt sublayers. A	lso remove it from			C may optionally inclu all include a PRBS31"	de a PRBS3	31"	
Response	Response Status C			Response		Response Status	с		
ACCEPT.				ACCEPT	IN PRINCIPL	.E.			
C/ 184 SC 184.3	P 519	L 38	# 101	Resolve u	using the resp	onse to comment #11	5.		
Huber, Thomas	Nokia								
Comment Type T	Comment Status A		(bucket)						
It is not clear what is me same as PMA:IS_UNITE FEC:IS_UNITDATA_i.im 32:8. PMA:IS_UNITDAT	ant by the statements that F DATA_i.indication for the PM dication is the same as PMA A_i.indication is a signal that	A 32:8, and :IS_UNITDATA_ t comes from the	TA_i.request is the _i.request for the PMA e sublayer below a						
It is not clear what is me same as PMA:IS_UNITE FEC:IS_UNITDATA_i.in 32:8. PMA:IS_UNITDAT PMA into the PMA, while	eant by the statements that F DATA_i.indication for the PM dication is the same as PMA	A 32:8, and :IS_UNITDATA_ t comes from the est is a signal th	TA_i.request is the _i.request for the PMA e sublayer below a						
It is not clear what is me same as PMA:IS_UNITE FEC:IS_UNITDATA_i.in 32:8. PMA:IS_UNITDAT PMA into the PMA, while sends to the sublayer be SuggestedRemedy	ant by the statements that F DATA_i.indication for the PM dication is the same as PMA A_i.indication is a signal that FEC:IS_UNITDATA_i.reque	A 32:8, and :IS_UNITDATA t comes from the est is a signal th same thing?	TA_i.request is the _i.request for the PMA e sublayer below a						
It is not clear what is me same as PMA:IS_UNITE FEC:IS_UNITDATA_i.in 32:8. PMA:IS_UNITDAT PMA into the PMA, while sends to the sublayer be SuggestedRemedy	ant by the statements that F DATA_i.indication for the PM dication is the same as PMA A_i.indication is a signal that FEC:IS_UNITDATA_i.reque slow it. How can those be the	A 32:8, and :IS_UNITDATA t comes from the est is a signal th same thing?	TA_i.request is the _i.request for the PMA e sublayer below a						
It is not clear what is me same as PMA:IS_UNITE FEC:IS_UNITDATA_i.in 32:8. PMA:IS_UNITDAT PMA into the PMA, while sends to the sublayer be SuggestedRemedy Rewrite these sentences	ant by the statements that F DATA_i.indication for the PM dication is the same as PMA A_i.indication is a signal that FEC:IS_UNITDATA_i.reque elow it. How can those be the s to more clearly state what w Response Status C	A 32:8, and :IS_UNITDATA t comes from the est is a signal th same thing?	TA_i.request is the _i.request for the PMA e sublayer below a						
It is not clear what is me same as PMA:IS_UNITE FEC:IS_UNITDATA_i.im 32:8. PMA:IS_UNITDAT PMA into the PMA, while sends to the sublayer be SuggestedRemedy Rewrite these sentences Response ACCEPT IN PRINCIPLE Change: "FEC:IS_UNITI the PMA 32:8 defined in	ant by the statements that F DATA_i.indication for the PM dication is the same as PMA 'A_i.indication is a signal that e FEC:IS_UNITDATA_i.reque elow it. How can those be the s to more clearly state what w <i>Response Status</i> C DATA_i.request is the same	A 32:8, and :IS_UNITDATA t comes from the est is a signal th same thing? vas intended. as PMA:IS_UNI	TA_i.request is the _i.request for the PMA e sublayer below a hat the FEC sublayer						

C/ 184 SC 184.4.3

C/ 184	SC 184.5.10	P 530	L 49	# 115	C/ 185	SC	185	P 544	L10	# 21
Brown, Matt	t	Alphawave Se	emi		Brown, Ma	tt		Alphaway	e Semi	
Comment T	<i>уре</i> т	Comment Status A		LR1 PRBS	Comment	Туре	Е	Comment Status A		(bucket)
Howeve	PMDs and AUIs i	being optional. ments as defined for	in 802. suppor extend	3cw a t an A er. The	nd in Dra UI. On th e 800GB/	led for this PHY. This figur ft 1.3 Clause 187 because e other hand, any 800GB/ ASE-LR1 PHY uses a con	an xGMII extende SE-R PHYs may catentated Inner F	er was always needed to include a 800GMII		
		may optionally include"			two AC Suggested		, ,	2 should include one AUI	to be complete.	
	e Inner FEC shall follow text: "The	PRBS31 checker includes	block error dete	ction and counters as	00			nd in Figure 185-2 add on	e 800GAUI-n.	
•	ed in 176.7.4.7."				Response			Response Status C		
esponse ACCEP	T IN PRINCIPLE	Response Status C					PRINCIP uggested	LE. remedy with editorial licer	ISE.	
		ontribution was reviewed by			C/ 185	SC	185.2	P 542	L 39	# 117
https://w	www.ieee802.org	/3/dj/public/25_03/brown_3d	lj_04a_2503.pd	f	Brown, Ma	tt		Alphaway	e Semi	
		-1 and TF-2 mandatory PRE	S31 generator	and checker is	Comment		т	Comment Status A		LR1 PRBS
		in slides 7 to 11 of brown_3 n slide 7.	dj_04a_2503, e	except change	the 80	OGBAS	SE-LR1 İı	ose that with the addition nner FEC it is now possibl iters similar to the method	e to assess the qu	ality detected signal
Impleme	ent with editorial	license.			Suggested	Reme	dy			
Straw p I prefer	oll (directional) #	TF-1 (Pick one) #TF-2 (Chin herator and checker in the 80		Inner FEC sublayer as	Provid	e test o		on for a PMD receiver in 1 tion and method in 174A. provided.	85.2 accordingly.	
B: option C: mano D: absta TF-1: A:	,	Illy İnclude) ated PCS (no AUIs betweer 1: 19	n), otherwise op	tional			PRINCIP g the res	Response Status C LE. ponse to comment #115.		

C/ 185 SC 185.2

Ran, Adee		185.3	P 544	L 20	# 266	C/ 185	30	185.6.2	P 551	L 34	# 108
			Cisco			Maniloff,	Eric		Ciena		
Comment T	уре	т	Comment Status A		(bucke	Commen	t Type	т	Comment Status A		RX sensitivity
	NAL.IN		IA above the PHY 800GXS do N primitive, which is required			Sens	itivity. A	Average Re	age Receive Power (min) ther eceive power is at TP3 includ) is defined without optical im	ing link optical im	
			d implicitly for the PHY XS, the fined in 116.3.3.3) and by the		SNAL.request primitive		an entry	/ in Table [·]	186-6 for Receiver Sensitivity specification. A supporting r		
SuggestedF	Remed	'y						mormative	1 11 81	presentation will r	be provided.
Add an	upwar	d arrow w	ith label "PCS:IS_SIGNAL.in	dication" in Figu	re 185-3.	Respons			Response Status C		
Response			Response Status C			ACC	=PT IN	PRINCIPI	LE.		
		PRINCIPL the response	E. onse to comment #21.			https https	://www.i ://www.i	ieee802.oi ieee802.oi	e following presentations: rg/3/dj/public/25_03/maniloff_ rg/3/dj/public/25_03/stassar_3 add new parameter Receiver	3dj_01_2503.pdf	i
						input	power	at TP3 wit	an optional specification defi h no link impairments at whic sensitivity is measured using	h the block error	ratio requirement in
									signal meets the requirement attenuator.	s for an 800GBA	SE-LR1 transmitter
									mitter is measured according		
						parar Rece For I	neter: iver Se ETCC =	nsitivity (m = 1 dB -18		dicating that this	is an optional
						In Ta	ble 185	i-11 add a	row for Receiver Sensitivity w	vith patterns 5, 7,	& 8.
						With	editoria	al license.			

C/ 185 SC 185.6.2

C/ 185	SC 185.8.1	P 555	L 23	# 28
Issenhuth	n, Tom	Huawei		
Comment	Туре Т	Comment Status A		(buck
	total periodic jitte	ock phase noise: total integra er" are in Table 185-5 and lis		
Suggeste	dRemedy			
Add tl	he 2 parameters t	o Table 185-11 with a patter	n of 5.	
Response)	Response Status C		
ACCE	EPT.			
C/ 185	SC 185.8.9	P556	L13	# 29
Issenhuth	n, Tom	Huawei		
Comment	Туре Т	Comment Status A		(bucke
	neters definitions	n includes "mean" in the sub should not include mean/ma		
Suggeste	dRemedy			
	ove all mean/max/ 87.8. With editor	min from the subclause title ial license.	s and paramater	descriptions in 185.8
ana i				
Response)	Response Status C		

C/ 185	SC 185.8.15	P 556	L 46	# 109
Maniloff, Eric	2	Ciena		
Comment Ty	pe T	Comment Status A		RX average power

Average receive power as specified in Table 185-6 should include optical impairments, and be specified with the minimum Transmitter OSNR.

SuggestedRemedy

Update the definition for Average receive power in 185.8.15 to specify that is specified at TP3, and includes the Optical Penalties defined in Table 185-7. A supporting presentation will be provided.

Pesponse Response Status C

ACCEPT IN PRINCIPLE.

The CRG reviewed the following presentations: https://www.ieee802.org/3/dj/public/25_03/maniloff_3dj_01_2503.pdf https://www.ieee802.org/3/dj/public/25_03/stassar_3dj_01_2503.pdf

After CRG discussion it was decided to change the parameter name from "Average receive power" to "Average receive power tolerance" across clause 185 with editorial license. The values in Table 185-6 will remain unchanged.

Change 185.8.15 to

"The average receive power tolerance defines the range of average receiver input power at TP3 over which the block error ratio requirement in 185.2 is met. Average receiver power tolerance is measured using the patterns listed in Table 185-11.

The conformance test signal meets the requirements for an 800GBASE-LR1 transmitter followed by a channel with the impairments: polarization dependent loss and polarization rotation speed as specified in Table 185-6 and differential group delay and dispersion as specified in Table 185-8.

The ETCC of the transmitter is measured according to Clause 185.9. The ETCC is then used to calculate the minimum average receive power tolerance specified in Table 185-6.

The average receive power tolerance shall meet the limits given in Table 185-6."

In Table 185-11 add a row for average receive power tolerance with patterns 5, 7, & 8.

C/ 185 SC 185.8.15

C/ 185 SC 185.	8.15 P556	L 47	# 13	C/ 186	SC 186.1.2	P 564	L 31	# 32
Brown, Matt	Alphawave	Semi		D'Ambrosia,	John	Futurewei, U	.S. Subsidiary of	fHuawei
Comment Type T	Comment Status A		(bucketp)	Comment Ty	vpe E	Comment Status R		PCS name (bucket)
Should refer to "b	lock error ratio" rather than "code	eword error ratio".				1/ER1-20 now uses the same		
SuggestedRemedy						ut the full name of the sublay	er 800GBASE-F	R PC5
Change "codewor	d error ratio" to "block error ratio"	".		SuggestedR	2			
Response	Response Status C			•	800GBASE-I	R PCS" with "PCS"		
ACCEPT IN PRIN	ICIPLE.			Response	_	Response Status C		
[Editor's note: Cha	anged page from 557 to 556.]			REJECT Resolve		oonse to comment #34.		
Resolve using the	response to comment #109.			C/ 186	SC 186.1.3	P564	L 53	# 62
C/ 185 SC 185.	8.x P556	L 50	# 110	Bruckman, L	eon	Nvidia		
Maniloff. Eric	Ciena	_00		Comment Ty	vpe TR	Comment Status A		(bucketp)
Comment Type T	Comment Status A		RX sensitivity		າ "ER1 FEC" is d just as "FEC	s used only in thi paragraph a "	ind in one or two	more places. Usually it
	ceiver Sensitivity should be prov	rided. Receiver Se			•			
	enalties, and is an informative sp			SuggestedR		f "ER1 FEC" or just "FEC" th	roughout the ele	1100
SuggestedRemedy							loughout the cla	use
Add a definition fo provided.	or receiver sensitivity in Clause 1	85.8. A supporting	presentation will be					
Response	Response Status C			186.1.3	uses ER1 FEC	to distinguish from RS FEC		
ACCEPT IN PRIN	ICIPLE.			Align late	er subclauses	to this as appropriate.		
Resolve using the	e response to comment #108.							
C/ 186 SC 186.	1.1 <i>P</i> 564	L10	# 61					
Bruckman, Leon	Nvidia							
Comment Type E 800GBASE-ER1 i	Comment Status A is separated into two lines		(bucket)					
SuggestedRemedy								
	"800GBASE-ER1" a non braking or the whole clause	g dash.						
Response	Response Status C							

ACCEPT.

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

C/ 186 SC 186.1.3

Very mior! The rate of each PCS lane should be 26.5625 Gb/s, not 26.5624 Gb/s 25Gb/s *(257/256)*(544/514) = 26.5625 Gb/s This seems to be a typo, since the correct value is used later on the same page in section 186.2.2 SuggestedRemedy replace "26.5624 Gb/s" with "26.5625 Gb/s" Response Response Status C ACCEPT. C/ 186 SC 186.2.1 P567 L15 # 200 Slavick, Jeff Broadcom Comment Type ER Comment Status A (but early . In the first sentence SuggestedRemedy Remove the . After flows Response Response Status C						
Comment Type T Comment Status A erse RS FEC function ne In Figure 186-3, the two upper parts of the transmit flow and receive flow both have a dashed box labeled "Inverse RS FEC.". However, each of these alone as currently grouped is really an RS-FEC Decoder and RS-FEC Encoder. Together they make up w could be called an "Inverse RS FEC" SuggestedRemedy Change the current two dashed line boxes for the two Inverse FEC blocks and enclose I the transmit and receive portions together in a single dashed box called "Inverse RS-FEC Response Response Status C ACCEPT IN PRINCIPLE. Modify Figures 186-2 and 186-3 to replace the transmit direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction "Inverse RS FEC" with "Inverse RS FEC Rx" Modify headings of 186.2.3.1 and 186.2.4.9 accordingly, as well as related text. Implement with editorial license C/ 186 SC 186.2.1 P567 L8 # 227 de Koos, Andras Microchip Technology Comment Type E Comment Status A (bu Very minor! The rate of each PCS lane should be 26.5625 Gb/s, not 26.5624 Gb/s 25Gb/s "(257/256)"(544/514) = 26.5625 Gb/s This seems to be a typo, since the correct value is used later on the same page in section 186.2.2 SuggestedRemedy replace "26.5624 Gb/s" with "26.5625 Gb/s" Response Response Status C ACCEPT. C/ 186 SC 186.2.1 P567 L15 # 200 Slavick, Jeff Broadcom Comment Type ER Comment Status A (bu early . In the first sentence SuggestedRemedy Remove the . After flows Response Response Status C	C/ 186	SC 186.2.1	P56	56 L9	# 160	
In Figure 186-3, the two upper parts of the transmit flow and receive flow both have a dashed box labeled "Inverse RS FEC.". However, each of these alone as currently grouped is really an RS-FEC Decoder and RS-FEC Encoder. Together they make up w could be called an "Inverse RS FEC" SuggestedRemedy Change the current two dashed line boxes for the two Inverse FEC blocks and enclose H the transmit and receive portions together in a single dashed box called "Inverse RS-FEC Response Response Status C ACCEPT IN PRINCIPLE. Modify Figures 186-2 and 186-3 to replace the transmit direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction be control to the same page in section the same page in the transmit direction the same page in section 186.2.1 P567 L8 Kesponse Response Status C ACCEPT. C/ 186 SC 186.2.1 P567 L15 # 200 Slavick, Jeff Broadcom Comment Type ER Comment Status A (bu early . In the first sentence SuggestedRemedy Remove the . After flows Response Response Response Status C Kesponse Response Status C Kesponse Response Response Status A (bu early . In the first sentence SuggestedRemedy Remove the . After flows Response Response Status C Kesponse Response Response Status C Kesponse Response Response Status C Kesponse Response Response Response Status C Kesponse Response Res	Opsasnick,	Eugene	Broad	lcom		
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the transmit and receive portions together in a single dashed box called "Inverse RS-FE Response Response Status C ACCEPT IN PRINCIPLE. Modify Figures 186-2 and 186-3 to replace the transmit direction "Inverse RS FEC" with "Inverse RS FEC Tx", and the receive direction "Inverse RS FEC" with "Inverse RS FEC Rx" Modify headings of 186.2.3.1 and 186.2.4.9 accordingly, as well as related text. Implement with editorial license C/ 186 SC 186.2.1 P567 L8 # 227 de Koos, Andras Microchip Technology Comment Type E Comment Status A (bu Very minor! The rate of each PCS lane should be 26.5625 Gb/s, not 26.5624 Gb/s 25Gb/s *(257/256)*(544/514) = 26.5625 Gb/s This seems to be a typo, since the correct value is used later on the same page in section 186.2.2 SuggestedRemedy replace "26.5624 Gb/s" with "26.5625 Gb/s" Response Response Status C ACCEPT. C/ 186 SC 186.2.1 P567 L15 # 200 Slavick, Jeff Broadcom Comment Type ER Comment Status A (bu early . In the first sentence SuggestedRemedy Remove the . After flows Response Response Status C	SuggestedF	Remedy				
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Comment Type E Comment Status A (but Very minor! The rate of each PCS lane should be 26.5625 Gb/s, not 26.5624 Gb/s 25Gb/s *(257/256)*(544/514) = 26.5625 Gb/s This seems to be a typo, since the correct value is used later on the same page in section 186.2.2 SuggestedRemedy replace "26.5624 Gb/s" with "26.5625 Gb/s" SuggestedRemedy replace "26.5624 Gb/s" with "26.5625 Gb/s" C ACCEPT. C C/ 186 SC 186.2.1 P567 L15 # 200 Slavick, Jeff Broadcom C Comment Type ER Comment Status A (but early . In the first sentence SuggestedRemedy Remove the . After flows Response Status C C	C/ 186	SC 186.2.1	P56	67 L8	# 227	
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ACCEPT. Cl 186 SC 186.2.1 P567 L15 # 200 Slavick, Jeff Broadcom Comment Type ER Comment Status A (but early . In the first sentence SuggestedRemedy Remove the . After flows Response Response Status C	00		" with "26.5625 Gb/s"			
Slavick, Jeff Broadcom Comment Type ER Comment Status A (but early . In the first sentence SuggestedRemedy Remove the . After flows Response Response Status C		۲.	Response Status	С		
Comment Type ER Comment Status A (but early . In the first sentence SuggestedRemedy Remove the . After flows Response Response Status C	C/ 186	SC 186.2.1	P56	67 L15	# 200	
early . In the first sentence SuggestedRemedy Remove the . After flows Response Response Status C	Slavick, Jef	f	Broad	lcom		
Remove the . After flows Response Response C				Α		(bucket)
	00	,	ws			
AUGEFT.	Response ACCEP	РТ.	Response Status	С		

	SC 186.	.2.1	P 567	L15	# 63
Bruckman,	Leon	N	lvidia		
Comment T Strange	<i>ype</i> EF location o		atus A		(bucket)
SuggestedF	Remedy				
Remove	e the dot a	fter "two flows"			
Response ACCEP	'T.	Response Sta	tus C		
C/ 186	SC 186.	.2.1	P 567	L18	# 201
Slavick, Jef	f	В	roadcom		
Comment T	<i>уре</i> т	Comment Sta	atus A		(bucketp)
Extra se	entence th	at is not needed as the	e previous se	entence already s	tates this.
Response		two flows are then me Response Sta ICIPLE.	0		51 2070 DIOCKS.
are two	separate i	s not very clear. The ap interleavings that need he two flows.			
	the text in	186.2.1 to make the p	process clea	r.	
•		ditorial license.			
•	ent with ea				
Implem	ent with eo		P 567	L 34	# 205
•	SC 186.	2.1	P567 roadcom	L 34	# 205
Implem <i>Cl</i> 186	SC 186 . if jype E F	2.1 B	roadcom	L34	# 205 (bucket)

Response Response Status C ACCEPT.

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

Cl	186	Pa
SC	186.2.1	3/1

	2.1	P 567	L34	# 228	C/ 186	SC	186.2.3.1.2	P568	L20	# 208	
Koos, Andras		Microchip Tech	• •	" 220	Slavick, J			Broadcom	-20	" 200	
omment Type E	Comment	•		(bucket)	Comment		TR	Comment Status A			(bucket)
misplaced period			e CRC checki	ng is performed. before		been u	•	al to that specified" instead	d of "shall be as		(
SuggestedRemedy remove the perio	d, or replace with a c	comma.			Chang	ge "shall	l be as spec	ified" to "is identical to that	specifid"		
Response ACCEPT IN PRI Delete the period	-	Status C				PT IN F	RINCIPLE.	Response Status C	specified".		
C/ 186 SC 186		P 567	L 36	# 206	<i>Cl</i> 186 Slavick, J		186.2.3.1.3	P 568 Broadcom	L 24	# 209	
31	R Comment S	Broadcom Status A		(bucket)	Comment	Туре	TR sing "identic	Comment Status A al to that specified" instead	d of "shall be as		(bucket)
SuggestedRemedy	ore than a comma cks, distributed" to "b	locks and then	listributod"		Suggested Chang		-	ified" to "is identical to that	specifid"		
Response ACCEPT.	Response S		listributed			PT IN F	RINCIPLE.	Response Status C	specified".		
C/ 186 SC 186	5.2.3.1.1	P 568	L16	# 207	C/ 186	SC	186.2.3.1.4	P 568	L 28	# 210	
Slavick, Jeff		Broadcom			Slavick, J	eff		Broadcom			
	R Comment S g "identical to that sp		of "shall be as	(bucket) specified".	Comment We've		TR sing "identic	Comment Status A al to that specified" instead	d of "shall be as		(bucket)
SuggestedRemedy Change "shall be	as specified" to "is i	identical to that s	specifid"		Suggested Chang		-	ified" to "is identical to that	specifid"		
Response ACCEPT IN PRI Change "shall be	Response S NCIPLE. as specified" to "is i		specified".		Chang	PT IN F ge "shall	PRINCIPLE. I be as spec	Response Status C ified" to "is identical to that me patterns are required a		tional.	

C/ 186 SC 186.2.3.1.4

C/ 186 SC 186	6.2.3.1.5	P 568	L32	# 211	C/ 186	SC 186.2.3	.5.5	P 573	L10	# 103
Slavick, Jeff		Broadcom			Huber, The	omas	٠	lokia		
Comment Type T	R Comme	ent Status A		(bucket)	Comment	Туре Т	Comment St	atus A		(bucket)
	g "identical to tha	t specified" instead	d of "shall be as	specified".		rte numbers for er than 7-10.	the MAP field are	incorrect -	per figure 186-6, I	MAP occupies bytes 6-
SuggestedRemedy Change "shall be	as specified" to	"is identical to that	specifid"		Suggested	Remedy				
0	•		opeonia		Correc	t the byte num	bering.			
Response ACCEPT IN PRI Change "shall be	, NCIPLE.	se Status C	specified".		Response ACCE	PT.	Response Sta	atus C		
C/ 186 SC 186	6.2.3.1.6	P 568	L 43	# 212	C/ 186	SC 186.2.3	.5.10	P 574	L 8	# 65
Slavick, Jeff		Broadcom			Bruckman	, Leon	١	lvidia		
		ent Status A It specified" instead	d of "shall be as	<i>(bucket)</i> specified".	Comment 257-bit	<i>Type</i> E t breaks into tw	Comment Sta o lines	atus A		(bucket)
SuggestedRemedy Change "shall be	e as specified" to	"is identical to that	specifid"		S <i>uggested</i> Make t		7-bit" a non brakin	g dash. Sa	me for section 186	6.2.4.6.5 first paragraph
Response ACCEPT IN PRI	, NCIPLE.	se Status C n editorial license.			Response ACCE	PT.	Response Sta	atus C		
		erns are required a	nd some are op	tional.	C/ 186	SC 186.2.3	.5.10	P 574	L 8	# 64
C/ 186 SC 186	6.2.3.5.2	P 572	L 49	# 102	Bruckman	, Leon	١	lvidia		
luber, Thomas		Nokia			Comment	Type ER	Comment St	atus A		(bucket)
Comment Type T	Comme	ent Status R		(withdrawn)	Missin	g "the"				
		ld named MNT tha	at is used when t	he frame is in test	Suggested	Remedy				
pattern mode.							ved by Inverse RS			
SuggestedRemedy					To: "w	ere removed by	the Inverse RS F	EC function	n"	
		d, aligned with wha is always set to ze		R. If 800GBASE-ER1	Response ACCE	PT IN PRINCIF	Response Sta PLE.	atus C		
Response REJECT.	Respons	se Status Z			Chang	e to "were rem	oved by the Invers	e RS FEC	Tx function"	
This comment w	as WITHDRAWN	l by the commente	r.							

C/ 186 SC 186.2.3.5.10

C/ 186	SC 186.2.3.5.10	P 574	L18	# 214	C/ 186	SC 186.2.3.8	P 57 7	L10	# 104
Slavick, Je	ff	Broadcom			Huber, Th	iomas	Nokia		
Comment	Type ER Co.	mment Status A		(bucket)	Comment	Туре Т	Comment Status	4	(bucket)
The va	lue corresponds to the	block.							ndicating the number of
Suggested	Remedy						d area (minus the CRC	52 and 64bit pau, i.e.	., 110x10200).
Chang	e alue of this counter cor	responding to the first	non-stuff 257-hi	t block that is manned	Suggested Shade	-	PAD areas differently	from the main part of	the frame. Make the 1
				encoded into the AML	192 48 shared	80 bits larger and d area, not the blo	put it on an angle so it ock of 105 rows that ar ndicate the larger block	t is more clear that it i e not shown. Add rov	refers to the entire w numbers for the
that is	ML field is encoded wit mapped into the payloa					PT IN PRINCIPL	Response Status (E. ed remedy with editoria		
Response		ponse Status C			C/ 186	SC 186.2.4.6	•		# 105
ACCE	-1.				Huber, Th		Nokia	,	100
C/ 186	SC 186.2.3.5.10	P 575	L 47	# 213	Comment		Comment Status	2	(withdrawn)
Slavick, Je	ff	Broadcom					cludes a field named M		()
Comment	Type TR Co.	mment Status A		(bucket)	patter	n mode.			
When	the feature is not suppo	orted or disabled the A	ML is 0.		Suggested	dRemedy			
Suggested	Remedy				Add d	escription of the I	MNT field.		
Add "o	r not supported" after d	lisabled.			Response	•	Response Status	2	
Response		ponse Status C			REJE	CT.			
	PT IN PRINCIPLE.	uluan la antian fantuma in	die etate d. "		This c	omment was WI	THDRAWN by the com	menter.	
	e: "If the alignment ma the alignment marker lo			enabled,"	C/ 186	SC 186.2.4.6	•		# 215
C/ 186	SC 186.2.3.5.11	P 576	L1	# 229	Slavick, Je		.5 - 58		# 215
de Koos, A		Microchip Teo		" 223	Comment		Comment Status		(bucket)
Comment		mment Status R	, mology	(bucketp)			t supported or disabled		(buoket)
	e a reason why the ord		its are not prese	(//	Suggested	dRemedv		-	
	<8:6>? Looks strange			ersight?		or not supported"	after disabled.		
	comment for the receiv	e direction in section 1	86.2.4.6.6		Response		Response Status	2	
Suggested	Remedy				•	PT IN PRINCIPL			
D	_						gnment marker location		
Response		ponse Status C			Io: "V	When the alignme	nt marker location feat	ure is not supported of	or not enabled,"
REJE0 The or	der is intentional, to alig	on with the specificatio	ns in ITU-T G.7	09.1 and OIF 800ZR.	[Edito	r's note: changed	page/line from 575/47	to 581/26]	
TYPE: TR/	echnical required ER/	editorial required GR/	general required	T/technical E/editorial G/g	general			C/ 186	Page 61 of 68
	STATUS: D/dispatche		cted RESPON	ISE STATUS: O/open W/wr	itten C/closed	d ∠/withdrawn		SC 186.2.4.6.5	3/12/2025 6:02:54

SORT ORDER: Clause, Subclause, page, line

3/12/2025 6:02:54 PM

Nvidia <i>Comment Status</i> A me and missing text. gnment marker location featur rker_enable (set to 1)," ent marker location feature is rker_location_ability (set to 1 <i>Response Status</i> C CIPLE. alignment marker location feat narker_location_ability is set imment_marker_location_enable	enabled by and enabled by the I)," ture is supported		have a Suggested It migh The A remov unexp until 8 update	<i>Type</i> xplanation a written <i>dRemed</i> nt be he Ms are i yed by fa ected R 3 consect	n synopsis o ly lpful to add inserted at ar-end trans AML value	Comment Status tate machine in Figu of their function.	ure 186-20 is very li : on (matching the po licated by the RAM	<i>AM locat</i> light. Most state machines psition from before AMs wer IL value. When an M is maintained (flywheel)	
me and missing text. gnment marker location featu rker_enable (set to 1)," ent marker location feature is rker_location_ability (set to 1 rker_location_enable (set to 1 <i>Response Status</i> C CIPLE. alignment marker location feat narker_location_ability is set	enabled by and enabled by the I)," ture is supported	FEC control variable	The ex have a Suggestee It migh The A remov unexp until 8 update	xplanation a written <i>dRemed</i> nt be he Ms are if red by fa ected R 3 consect	on of the st a synopsis of ly lpful to add inserted at ar-end trans AML value	tate machine in Figu of their function. I in 186.2.4.9.3 that: their original positic smit function) as inc	ure 186-20 is very li : on (matching the po licated by the RAM	light. Most state machines osition from before AMs wer IL value. When an	
gnment marker location featu rker_enable (set to 1)," ent marker location feature is rker_location_ability (set to 1 rker_location_enable (set to 7 <i>Response Status</i> C CIPLE. alignment marker location feat narker_location_ability is set	enabled by and enabled by the I)," ture is supported		have a Suggested It migh The A remov unexp until 8 update	a written dRemed nt be he Ms are i ved by fa ected R 3 consed	n synopsis o ly lpful to add inserted at ar-end trans AML value	of their function. I in 186.2.4.9.3 that: their original positic smit function) as inc	: on (matching the po licated by the RAM	osition from before AMs wer IL value. When an	
rker_enable (set to 1)," ent marker location feature is Irker_location_ability (set to 1 Irker_location_enable (set to 1 Response Status C CIPLE. alignment marker location feat narker_location_ability is set	enabled by and enabled by the I)," ture is supported		It migh The A remov unexp until 8 update	nt be he Ms are i red by fa ected R 3 consec	Ipful to add inserted at ar-end trans	their original positions mit function) as inc	on (matching the po licated by the RAM	1L value. When an	
rker_enable (set to 1)," ent marker location feature is Irker_location_ability (set to 1 Irker_location_enable (set to 1 Response Status C CIPLE. alignment marker location feat narker_location_ability is set	enabled by and enabled by the I)," ture is supported		The A remov unexp until 8 update	Ms are i red by fa ected R 3 consed	inserted at ar-end trans AML value	their original positions the structure of the second second second second second second second second second se	on (matching the po licated by the RAM	1L value. When an	
alignment marker location feation feation feation feation_ability is set			Da a a a a a a		e new posit	pected RAML value ion indicated by the		er which the AM position is	
narker_location_ability is set			Response			Response Status	с		
	,	by the FEC control	Impler	ment the	PRINCIPLE e suggested es are introd	d remedy In addition	n, add similar text to	to 186.4.3 where the other	
86.2.3.1.5 to introduce the two	•		Impler	ment wit	th editorial I	license.			
nally provide the ability to rec OH field as described in 186.			C/ 186	SC	186.3.1.3	P58	83 L18	# 80	
_ 0		ability status variable.	Huang, Ke	echao		Huaw	vei		
			Comment	Туре	т	Comment Status	Α	(buck	
ause, capitalize FEC in the na	mes of MDIO variab	bles.	In the transmit direction of 800GBASE-ER1 PMA functions, "interleaving" after Gray mapping is not required, as shown in Figure 186-12 (also see OIF 800ZR IA).						
itorial license			Suggested	dRemed	ly				
								Is for transmission" to "Gra	
			Response			Response Status	С		
			ACCE	PT.					
			C/ 186	SC	186.3.1.3	P58	83 L39	# 81	
			Huang, Ke	echao					
					T direction, s			(buck	
						mbining and symbo	l deinterleaving " to	Polarization combining "	
						0 ,	Ŭ		
						Nesponse Status	U		
	ssertion of the FEC_alignmen s provided, it is enabled by the narker_location_enable contro	ssertion of the FEC_alignment_marker_location_a s provided, it is enabled by the assertion of the marker_location_enable control variable. ause, capitalize FEC in the names of MDIO variab	narker_location_enable control variable.	Huang, Ke Sertion of the FEC_alignment_marker_location of the option of arker_location_enable control variable. ause, capitalize FEC in the names of MDIO variables. litorial license.	Huang, Kechao Sertion of the FEC_alignment_marker_location_ability status variable. arker_location_enable control variable. ause, capitalize FEC in the names of MDIO variables. litorial license. SuggestedRemed Change "Gray mapping and Response ACCEPT. C/ 186 SC Huang, Kechao Comment Type In the transmi mapping and Response ACCEPT. C/ 186 SC Huang, Kechao Comment Type In the receive SuggestedRemed	 Huang, Kechao Huang, Kechao Comment Type T In the transmit direction approximation of the transmit direction approximation of the transmit direction approximation. Huang, Kechao Comment Type T In the transmit direction approximation of the transmit direction approximation. SuggestedRemedy Change "Gray mapping, mapping and distribution Response ACCEPT. C/ 186 SC 186.3.1.3 Huang, Kechao Comment Type T In the receive direction of the transmit direction of the tra	 Huang, Kechao Huang, K	 Huang, Kechao Huawei Huawei Comment Type T Comment Status A In the transmit direction of 800GBASE-ER1 PMA functions, "in mapping is not required, as shown in Figure 186-12 (also see C SuggestedRemedy Change "Gray mapping, interleaving, and distribution of symbols for transmission" Response Response Status C ACCEPT. It 186 SC 186.3.1.3 P583 L39 Huang, Kechao Huawei Comment Type T Comment Status A In the receive direction, symbol deinterleaving is not required. SuggestedRemedy Change "Polarization combining and symbol deinterleaving." to Response Response Response Status C ACCEPT. In the receive direction, symbol deinterleaving is not required. SuggestedRemedy Change "Polarization combining and symbol deinterleaving." to Response Status C 	

	SC 186.3.1.3	P 584	L11	# 82	C/ 186 SC 186.3.4	.2 P593	L 42	# 14
Huang, Ke	echao	Huawei			Brown, Matt	Alphawave Se	emi	
Comment	Туре Т	Comment Status A		(bucket)	Comment Type T	Comment Status A		(bucketp)
In the	receive direction of	of Figure 186-12, symbol dei	interleaving is no	t required.	Should refer to "CRC	error ratio" rather than "frame	loss ratio".	
Suggested	Remedy				SuggestedRemedy			
Chang	ge "Polarization co	ombining and symbol deinter	leaving" to "Pola	rization combining"	Change "codeword e	rror ratio" to "CRC error ratio".		
Response ACCE		Response Status C			Response ACCEPT IN PRINCIF	Response Status C		
C/ 186	SC 186.3.3.1	P 586	L 39	# 83	Change:			
Huang, Ke	echao	Huawei			"A PHY is required to To:	meet the frame loss ratio spec	cifications in 187	.2."
Comment	Туре Т	Comment Status A		(bucket)		on with the PMA and FEC is red	quired to meet t	he CRC error ratio
		Is are not the same as the a			specifications in 187.	2."		
		_8i+1,c_8i+2,c_8i+3,c_8i+4, n and odd bits should be ma			C/ 186 SC 186.4.1	P 594	L 30	# 216
		g/3/dj/public/23_07/nicholl_3			Slavick, Jeff	Broadcom		
IA)					Comment Type TR	Comment Status R		(withdrawn
Suggested	lRemedy				Missing that ++ mear	ns increment by 1		
<u> </u>								
		c "(c_8i,c_8i+2)" in line 39; ' to "(c_8i+4_c_8i+6)" in line 4	40.		SuggestedRemedy			
chang chang	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)"	D "(c_8i,c_8i+2)" in line 39; ' to "(c_8i+4,c_8i+6)" in line 4 ' to "(c_8i+1,c_8i+3)" in line 4 ' to "(c_8i+5,c_8i+7)" in line 4	41;		SuggestedRemedy Add the following the	sentence to first paragraph "Th t its value is to be incremented		fter a counter or integer
chang chang chang	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)"	' to "(c_8i+4,c_8i+6)" in line 4 ' to "(c_8i+1,c_8i+3)" in line 4	41;		SuggestedRemedy Add the following the	sentence to first paragraph "Th		fter a counter or integer
chang chang	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)"	' to "(c_8i+4,c_8i+6)" in line 4 ' to "(c_8i+1,c_8i+3)" in line 4 ' to "(c_8i+5,c_8i+7)" in line 4	41;		SuggestedRemedy Add the following the variable indicates tha	sentence to first paragraph "Th t its value is to be incremented		fter a counter or integer
chang chang chang Response ACCE	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)"	' to "(c_8i+4,c_8i+6)" in line 4 ' to "(c_8i+1,c_8i+3)" in line 4 ' to "(c_8i+5,c_8i+7)" in line 4	41;	# 84	SuggestedRemedy Add the following the variable indicates tha Response REJECT.	sentence to first paragraph "Th t its value is to be incremented	by 1."	fter a counter or integer
chang chang chang Response ACCE	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)" PT. SC 186.3.3.1	" to "(c_8i+4,c_8i+6)" in line " to "(c_8i+1,c_8i+3)" in line " to "(c_8i+5,c_8i+7)" in line Response Status C	41; 42	# 84	SuggestedRemedy Add the following the variable indicates tha Response REJECT.	sentence to first paragraph "Th t its value is to be incremented <i>Response Status</i> Z /ITHDRAWN by the commente	by 1."	fter a counter or integer
chang chang chang Response ACCE C/ 186 Huang, Ke Comment	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)" PT. SC 186.3.3.1 echao <i>Type</i> T	' to "(c_8i+4,c_8i+6)" in line 4 ' to "(c_8i+1,c_8i+3)" in line 4 ' to "(c_8i+5,c_8i+7)" in line 4 Response Status C P587 Huawei Comment Status A	41; 42 <i>L</i> 7	(bucket)	SuggestedRemedy Add the following the variable indicates tha Response REJECT. This comment was W	sentence to first paragraph "Th t its value is to be incremented <i>Response Status</i> Z /ITHDRAWN by the commente	by 1." er.	
chang chang chang Response ACCE C/ 186 Huang, Ke Comment Even b	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)" PT. SC 186.3.3.1 echao <i>Type</i> T bits should be ma	' to "(c_8i+4,c_8i+6)" in line 4 ' to "(c_8i+1,c_8i+3)" in line 4 ' to "(c_8i+5,c_8i+7)" in line 4 <i>Response Status</i> C <i>P</i> 587 Huawei	41; 42 <i>L</i> 7	(bucket)	SuggestedRemedy Add the following the variable indicates tha Response REJECT. This comment was W Cl 186 SC 186.4.2	sentence to first paragraph "Th t its value is to be incremented <i>Response Status</i> Z /ITHDRAWN by the commente .1 <i>P</i> 595	by 1." er.	
chang chang chang Response ACCE C/ 186 Huang, Ke Comment Even b polariz	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)" PT. SC 186.3.3.1 echao <i>Type</i> T bits should be maj zation	' to "(c_8i+4,c_8i+6)" in line 4 ' to "(c_8i+1,c_8i+3)" in line 4 ' to "(c_8i+5,c_8i+7)" in line 4 Response Status C P587 Huawei Comment Status A	41; 42 <i>L</i> 7	(bucket)	SuggestedRemedy Add the following the variable indicates tha Response REJECT. This comment was W Cl 186 SC 186.4.2 Bruckman, Leon Comment Type TR	sentence to first paragraph "Th t its value is to be incremented <i>Response Status</i> Z /ITHDRAWN by the commente .1 <i>P</i> 595 Nvidia	by 1." er. <i>L</i> 27	# <u>67</u>
chang chang chang Response ACCEI CI 186 Huang, Ke Comment Even b polariz Suggested	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)" PT. SC 186.3.3.1 echao <i>Type</i> T pits should be map zation <i>IRemedy</i>	" to "(c_8i+4,c_8i+6)" in line 4 " to "(c_8i+1,c_8i+3)" in line 4 " to "(c_8i+5,c_8i+7)" in line 4 <i>Response Status</i> C	41; 42 <i>L</i> 7 dd bits should be	<i>(bucket)</i> mapped to Y	SuggestedRemedy Add the following the variable indicates tha Response REJECT. This comment was W Cl 186 SC 186.4.2 Bruckman, Leon Comment Type TR	sentence to first paragraph "Th t its value is to be incremented <i>Response Status</i> Z /ITHDRAWN by the commente .1 <i>P</i> 595 Nvidia <i>Comment Status</i> A	by 1." er. <i>L</i> 27	# <u>67</u>
chang chang chang Response ACCEI Cl 186 Huang, Ke Comment Even b polariz Suggested Chang	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)" PT. SC 186.3.3.1 echao <i>Type</i> T bits should be map zation <i>IRemedy</i> ge "X: (c_8i,c_8i+1	' to "(c_8i+4,c_8i+6)" in line 4 ' to "(c_8i+1,c_8i+3)" in line 4 ' to "(c_8i+5,c_8i+7)" in line 4 Response Status C P587 Huawei Comment Status A	41; 42 <i>L</i> 7 dd bits should be i,c_8i+2,c_8i+4,c	<i>(bucket)</i> mapped to Y =_8i+6)" in line7,	SuggestedRemedy Add the following the variable indicates tha Response REJECT. This comment was W Cl 186 SC 186.4.2 Bruckman, Leon Comment Type TR Range of varaible use	sentence to first paragraph "Th t its value is to be incremented <i>Response Status</i> Z /ITHDRAWN by the commente .1 <i>P</i> 595 Nvidia <i>Comment Status</i> A ually indicated using "to" not a c	by 1." er. <i>L</i> 27	# <u>67</u>
chang chang chang Response ACCEI C/ 186 Huang, Ke Comment Even b polariz Suggested Chang	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)" PT. SC 186.3.3.1 echao <i>Type</i> T bits should be map zation <i>IRemedy</i> ge "X: (c_8i,c_8i+1	' to "(c_8i+4,c_8i+6)" in line 4 ' to "(c_8i+1,c_8i+3)" in line 4 ' to "(c_8i+5,c_8i+7)" in line 4 <i>Response Status</i> C <i>P</i> 587 Huawei <i>Comment Status</i> A pped to X polarization and o 1,c_8i+2,c_8i+3)" to "X: (c_8	41; 42 <i>L</i> 7 dd bits should be i,c_8i+2,c_8i+4,c	<i>(bucket)</i> mapped to Y =_8i+6)" in line7,	SuggestedRemedy Add the following the variable indicates tha Response REJECT. This comment was W C/ 186 SC 186.4.2 Bruckman, Leon Comment Type TR Range of varaible use SuggestedRemedy	sentence to first paragraph "Th t its value is to be incremented <i>Response Status</i> Z /ITHDRAWN by the commente .1 <i>P</i> 595 Nvidia <i>Comment Status</i> A ually indicated using "to" not a c	by 1." er. <i>L</i> 27	# <u>67</u>
chang chang chang Response ACCEI Cl 186 Huang, Ke Comment Even b polariz Suggested Chang and ch	"(c_8i+2,c_8i+3)" "(c_8i+4,c_8i+5)" "(c_8i+6,c_8i+7)" PT. SC 186.3.3.1 echao <i>Type</i> T bits should be map zation <i>IRemedy</i> ge "X: (c_8i,c_8i+1) hange "Y: (c_8i+4)	' to "(c_8i+4,c_8i+6)" in line 4 ' to "(c_8i+1,c_8i+3)" in line 4 ' to "(c_8i+5,c_8i+7)" in line 4 <i>Response Status</i> C <i>P</i> 587 Huawei <i>Comment Status</i> A pped to X polarization and o 1,c_8i+2,c_8i+3)" to "X: (c_8	41; 42 <i>L</i> 7 dd bits should be i,c_8i+2,c_8i+4,c	<i>(bucket)</i> mapped to Y =_8i+6)" in line7,	SuggestedRemedy Add the following the variable indicates that Response REJECT. This comment was W Cl 186 SC 186.4.2 Bruckman, Leon Comment Type TR Range of varaible use SuggestedRemedy Change: "0-7" To: "0	sentence to first paragraph "Th t its value is to be incremented <i>Response Status</i> Z /ITHDRAWN by the commente .1 <i>P</i> 595 Nvidia <i>Comment Status</i> A ually indicated using "to" not a context	by 1." er. <i>L</i> 27	# <u>67</u>

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

C/ 186 SC 186.4.2.1

C/ 186	SC 18	6.4.2.3	P 599	L 36	# 68	C/ 186	SC	186.4.3	P605	L 3	# 217
Bruckman	, Leon		Nvidia			Slavick, J	eff		Broadcom		
Comment	Type I	ER	Comment Status A		(bucket)	Comment	Туре	TR	Comment Status A		AM location
	definitions score inste		_bad_cnt and zero_aml_cnt dash	800GBASE-E	R1 includes an			_	in variable list for SMs		
Suggested	Remedy					Suggeste		<i>ay</i> nition of bl	ook ry		
	definitions BASE-ER		_bad_cnt and zero_aml_cnt	change: "8000	GBASE_ER1" to:	Response			Response Status C		
Response			Response Status C					PRINCIPL			
ACCE	PT.								indicate a 257b block was re etween what the rx thinks is		
C/ 186	SC 18	642	P601	L 42	# 69	part o	f the fig	jure proces	sses the AML overhead and		
	-	0.4.3		L 42	# 09	be mo	odified).				
Bruckman	-	-	Nvidia Comment Status A	,				ion in 186.			
Comment		TR			ER1 PMA frame alignment				able that is set to true when the demonstration	the next non-stu	ff 257b block is
is also	not clear	why we	lear when and where does need this variable	the pss_pma	variable get its value. It	dema	ppea by	y the GiviP	demapper function.		
Suggested		,				Imple	ment wi	ith editoria	l license.		
			_pma and in state 2_GOOL _mapping <x> <= first_pma_</x>		a_pss_mapping <x> <=</x>	C/ 186 Bruckmar		186.4.3	P 605 Nvidia	L10	# 70
Response			Response Status C			Comment	,	TR	Comment Status A		AM Location
	PT IN PR		-				,,		ads in Figure 186-20		AN LOCATION
			16 of the Logic editorial slic 3/dj/public/25_03/nicholl_3		df	Suggeste		0			
Delete	the varia	ble defini	tion for pma_pss.						line that goes right from the RAML_INVALID state	RAML_CNT_IN	C state and to the line
In state	e 2_GOO	D of Figu	ıre 186-16,			Response	9		Response Status C		
			ping <x> <= pma_pss"</x>					PRINCIPL			
to: "pr	na_pss_m	napping<	x> <= current_pma_pss".					viewed slid eee802.or	e 14 of: g/3/dj/public/25_03/nicholl_3	dj_01a_2503.pc	lf
						Imple	ment th	ie suggest	ed remedy.		
						the "L	JCT" lat	oel to be n	ng transition from RAML_CN ext to the transition from RA choll_3dj_01a_2503.	NT_ALIGN to RAML_VALID to W	ML_CNT_0, and move AIT_FOR_FRAME as
						Imple	ment wi	ith editoria	l license.		

C/ 186 SC 186.4.3

C/ 186	SC 186.7.1	P 607	L 25	# 106	C/ 187	SC 187.1		P 615	L 20	# 30	
Huber, Th	omas	Nokia			D'Ambrosi	a, John	F	uturewei, U.S	S. Subsidiary of	Huawei	
Comment	Туре Т	Comment Status A		ER1 MDIO	Comment	Type TR	Comment Sta	atus A		(buckei	
refere		6-8, there are a number of rov II variables that are related to to clause 172.			In the ER / ER-1 PHYs the 800GBASE-R PCS is now used. This means that an AUI can be used optionally between the PCS and FEC sublayers. This is called out in this manner in Table 169-3a. Table 187-1 does not reflect this.						
Suggested	dRemedy				Suggested	Remedy					
	nine if all these v at are not neede	ariables are needed, add refe d.	erences for the c	ones that are and delete	120F-8		Optional (note c)				
The C	PT IN PRINCIPL	Response Status C E. les 19-22 of the Logic editoria g/3/dj/public/25_03/nicholl_30			173-80 176-80 176C-8	0GBASE-R BM 0GBASE-R SM 300GAUI-4 C2C	1 Optional (note c I-PMA Conditiona I-PMA Conditiona Coptional (Note c 1 Optional (Note c	Í (Note d) I (Note d))			
Update Table 186-7 and Table 186-8 as outlined in nicholl_3dj_01a_2503, slides 20-22 with editorial license. [Editor's note: CC 45]						 If a 800GAUI ublayers are re 				BASE-R BM-PMA or SM-	
					Response	,	Response Sta	U	ies in 170b.0.1		
C/ 186	SC 186.7.1	P 607	L 25	# 107	Response ACCE	PT IN PRINCIP	Response Sta	itus C	les III 1706.0.1		
<i>Cl</i> 186 Huber, Th	SC 186.7.1 omas	Nokia	L 25		Response ACCE	PT IN PRINCIP	Response Sta	itus C			
Cl 186 Huber, Th Comment	SC 186.7.1 omas <i>Type</i> T	Nokia Comment Status A		ER1 MDIO	Response ACCE	PT IN PRINCIP	Response Sta	itus C	L13	# <u>37</u>	
Cl 186 Huber, Th Comment In tabl	SC 186.7.1 omas <i>Type</i> T les 186-7 and 18	Nokia <i>Comment Status</i> A 6-8, there are a number of row		ER1 MDIO	Response ACCEI Implen	PT IN PRINCIP nent suggested SC 187.1	Response Sta LE. remedy with edito	orial license.		# 37	
Cl 186 Huber, Th Comment In tabl numbe Suggestee	SC 186.7.1 omas <i>Type</i> T les 186-7 and 18 ers and pointers dRemedy	Nokia <i>Comment Status</i> A 6-8, there are a number of row	ws that are miss	ER1 MDIO	Response ACCE Implen Cl 187 D'Ambrosi Comment As the	PT IN PRINCIP nent suggested SC 187.1 a, John Type E 800GBASE-EF	Response Sta LE. remedy with editor F Comment Sta	rial license. P616 ruturewei, U.S atus R ses the same	L13 5. Subsidiary of PCS as other 8	# <u>37</u> [;] Huawei <i>PCS name (bucket</i> 800GBASE-R PHYs, it	
Cl 186 Huber, Th Comment In tabl numbe Suggested Add th Response ACCE	SC 186.7.1 omas Type T les 186-7 and 18 ers and pointers dRemedy ne missing registo PT IN PRINCIPL	Nokia <i>Comment Status</i> A 6-8, there are a number of row to clause 45. er/bit numbers and pointers to <i>Response Status</i> C .E.	ws that are miss	ER1 MDIO	Response ACCE Implem Cl 187 D'Ambrosi Comment As the is inco Suggested	PT IN PRINCIP nent suggested SC 187.1 a, John Type E 800GBASE-EF nsistent to call of Remedy	Response Sta LE. remedy with editor F Comment Sta 1/ER1-20 now us	ntus C prial license. P616 iuturewei, U.S atus R ses the same of the sublaye	L13 5. Subsidiary of PCS as other 8	# <u>37</u> [;] Huawei <i>PCS name (bucker</i> 800GBASE-R PHYs, it	
Cl 186 Huber, Th Comment In tabl numbe Suggested Add th Response ACCE	SC 186.7.1 omas Type T les 186-7 and 18 ers and pointers dRemedy ne missing registo PT IN PRINCIPL	Nokia Comment Status A 6-8, there are a number of row to clause 45. er/bit numbers and pointers to Response Status C	ws that are miss	ER1 MDIO	Response ACCE Implem Cl 187 D'Ambrosi Comment As the is inco Suggested	PT IN PRINCIP nent suggested SC 187.1 a, John Type E 800GBASE-EF nsistent to call of Remedy	Response Sta LE. remedy with edito F <i>Comment Sta</i> 1/ER1-20 now us but the full name of	tus C P616 ruturewei, U.S atus R the same of the sublaye	L13 5. Subsidiary of PCS as other 8	# <u>37</u> [;] Huawei <i>PCS name (bucket</i> 800GBASE-R PHYs, it	

C/ 187 SC 187.1

SC 187.6.2

C/ 187	SC 187.3	P617	L 39	# 177	C/ 187 S
Opsasnic	k, Eugene	Broadcom			Maniloff, Eric
Comment	Type E	Comment Status A		(bucket)	Comment Type
	800GXS can be r nt in the diagram	emoved from the legend in Fig	gure 187-2 since	e that sublayer is not	In addition Sensitivity.
Suggeste	2				sensitivity (will be prov
		GXS definiton from the figure less are not present in the diagra		d XS can also be	SuggestedRem
Response)	Response Status C			Add an enti dBm as an
	PT IN PRINCIPL	remedy with editorial license.			Response
C/ 187	SC 187.6.1	P623	L51	# 71	ACCEPT IN
Bruckmar		Nvidia	-01	" "	The CRG re
Comment		Comment Status R		(bucket)	https://www https://www
	ole 187-5 it is not frequency (max)	clear which rows correspond	to "Tx clock pha	se noise: phase noise	After CRG
Suggestee	dRemedy				"Receiver s
Merge (max)		correspond to "Tx clock phas	e noise: phase	noise mask frequency	receiver inp requiremen
Response	;	Response Status C			Table 187-
(max)	are 4 rows asso	ciated with "Tx clock phase no re different frequencies and as a single row. The use of a sir	sociated values	s in dBc/Hz so they	The conform with ETCC attenuator."
name	and indented row	vs following with different valu 121-7 and 140-7, and this dra	es is consistent	with similar Tables in	In Table 18
					Add a new

Maniloff, Eric	С	Ciena	
Comment Type	T Comment Sta	atus A	RX sensitivity
Sensitivity. Ave	erage Receive power is a prmative) is defined witho	rer (min) there should be an entry for t TP3 including link optical impairme ut optical impairments. A supporting	ents, while
SuggestedRemedy	/		
		er Sensitivity (Average Power, max) v supporting presentation will be provid	
Response	Response Sta	ntus C	
ACCEPT IN P	RINCIPLE.		
https://www.iee https://www.iee After CRG diso "Receiver sens receiver input j requirement in Table 187-10. The conformar	ee802.org/3/dj/public/25_ cussion it was decided to sitivity is an optional spec power at TP3 without link 187.2 is met . Receiver s nce test signal meets the	tations: 03/maniloff_3dj_01_2503.pdf 03/stassar_3dj_01_2503.pdf add a new parameter receiver sensi ification defined as follows: the lowe: impairments at which the CRC error sensitivity is measured using the patt requirements for an 800GBASE-ER e specified in Table 187-5, followed b	st average r ratio terns listed in 1 transmitter,
attenuator."		sensitivity with patterns 5, 7, & 8.	y an oplical
Add a new row an optional par		ver Sensitivity and a footnote indicat	ing that this is

P**624**

L**33**

111

Receiver Sensitivity (max) 800GBASE-ER1-20: -18.5dBm | 800GBASE-ER1: -19 dBm

With editorial license.

C/ 187 SC 187.6.2

C/ 187 SC 187.6.3	P625	L18	# 112	C/ 187 S	C 187.8.16	P629	L 45	# 113		
Maniloff, Eric	Ciena			Maniloff, Eric		Ciena				
Comment Type T	Comment Status A		RX average power	Comment Type	e T	Comment Status A		RX average power		
	power defined in Table 187-6 s isn't included in Table 187-7	includes 1dB o	f unallocated loss for	Average receive power as specified in Table 187-6 includes optical impairments, and is specified with the minimum Transmitter OSNR.						
SuggestedRemedy				SuggestedRen	nedy					
Update the value for A	Addition insertion loss allowed	fir 800GBASE-	ER1 to 1dB	Update the definition for Average receive power in 187.8.16 to specify that is specified at						
Response	Response Status C			TP3, and i will be prov		Optical Penalties defined in T	Гаble 187-7. А s	upporting presentation		
ACCEPT.				Response		Response Status C				
C/ 187 SC 187.8.13	B P 629	L 47	# 12	ACCEPT I	N PRINCIPL	E.				
Brown, Matt	Alphawave S	emi		The CRG I	eviewed the	following presentations:				
Comment Type T	Comment Status A		RX average power			g/3/dj/public/25_03/maniloff_ g/3/dj/public/25_03/stassar_:				
more definitive? Same issue in 185.8. ² SuggestedRemedy	Does this mean that any other			After CRG discussion it was decided to change the parameter name from "Average receiv power" to "Average receive power tolerance" across clause 187 with editorial license. The values in Table 187-6 will remain unchanged.						
Change to: "Average	receive optical power is measu	ured per IEC 61	280-1-3."	Change 18			,			
Response ACCEPT IN PRINCIP	Response Status C LE.			TP3 over v	which the CR	ower tolerance defines the ra C ratio requirement in 187.2 using the patterns listed in T	is met. Average			
Resolve using the res	ponse to comment #113.			with ETCC with the fo	equal to the lowing impa	signal meets the requiremen maximum value specified ir rments: polarization depend 37-6 and differential group de	n Table 187-5, fo ent loss, and pol	llowed by a channel arization rotation speed		
				The average	ge receive po	ower tolerance shall meet the	e limits given in ⁻	Table 187-6."		
				In Table 18	37-10 add a	row for average receive powe	er tolerance with	patterns 5, 7, & 8.		
				With editor	ial license.					

C/ 187 SC 187.8.16

C/ 187	SC 187.8.16	P 629	L 46	# 20	C/ 187	SC	187.8.17	P 629	L 49	# 114
Brown, M	att	Alphawave S	emi		Maniloff, E	ric		Ciena		
Comment	Туре Т	Comment Status A		(bucketp)	Comment	Туре	т	Comment Status A		RX sensitivity
possi	bility for AUIs with	ASE-ER1 PCS was converte in a PHY between the segm isured at the receive decode	ented FEC and t	he PCS. Also, a target	include	e Optica	al Penaltie	r Sensitivity should be provi s, and is an informative spe		ensitivity does not
may b	e used to define	acceptable receiver performa	ance.		Suggested		•	the second the first state of a	77 .	
Suggeste	dRemedy				Add a provide		on for rece	eiver sensitivity in clause 18	7-7. Α supporting	g presentation will be
Chan	ge "frame loss rat	io requirement in 187.2" to "	CRC error ratio i	า 187.2".	Response			Response Status C		
Response		Response Status C					PRINCIPL			
ACCE	PT IN PRINCIPL	E.			Resolv	e using	g the respo	onse to comment #113.		
Reso	ve using the resp	onse to comment #113.				-				
C/ 187	SC 187.8.16	P 629	L 46	# 11						
Brown, M	att	Alphawave S	emi							
Comment	Туре Т	Comment Status A		RX average power						
define requir 6." W Table there	es the range of av ement in 187.2 ha hat does "has to r 187-6; is this inte	ecification (tolerance) is as for erage receiver input power of as to be met at the values of meet" mean? Is this a require ended to be the transmitter O in that table. The frame loss 5.	ver which the fra minimum OSNF ement or not? OS SNR defined in	me loss ratio defined in Table 187- SNR is not defined in Tablle 187-6? If so,						
Suggeste	dRemedy									
187.2 transr	with average rec	g or similar: "The receiver sha eive optical power in the rang ified in Table 187-5." 5 as well.								
Response	9	Response Status C								
ACCE	PT IN PRINCIPL	E.								
Reso	ve using the resp	onse to comment #113.								

C/ 187 SC 187.8.17