C/ 1	SC	1.4	P53	L 8	# 194	C/ 45	SC 4	45.2.1.161	P 90		L14	# 38	
Slavick, Je	eff		Broadcom			Bruckman,	Leon		Nvidia				
Comment We're	<i>Type</i> heavily	TR y using rou	<i>Comment Status</i> R nd-robin but have no definitio	n for it	(withdrawn)	Comment T Missing	<i>ype</i> new p	TR preset 6 that	Comment Status t was added duirng	A D1.3 CR0	3		(bucket)
Suggested Add a source each t Response REJE	dReme definiti e/destir ime." CT.	dy ion of round nation once	d-robin "A process that iterate and then continuously repea Response Status Z	es through eac ts the iteration	n possible using the same order	SuggestedF In Table Response ACCEP	Remed 45-12 T.	y 29 change '	Reserved" for Initial Response Status	conditior C	101 request = 101	to "preset 6"	
This s	-					Bruckman	leon	+5.2.1.105	, 32 Nvidia		210	# 33	
C/ 1	SC	1.5	P57 Futurewei U.S	L22	# <u>33</u>	Comment T Missing	<i>ype</i> new p	TR preset 6 tha	Comment Status t was added duirng	A D1.3 CR0	3		(bucket)
Comment The al	<i>Type</i> bbrevia	E Ition FAW i	Comment Status R s not listed		(bucket)	SuggestedF In Table Response	emed 45-13	y 31 change '	'Reserved" for Initial	condition	request = 101	to "preset 6"	
Suggested Add t FAW	dReme o 1.5	dy frame alic	inment word			ACCEP	T.	45 2 4 469			1.9	# 0	
Response			Response Status C			C/40	304	40.2.1.1008	1 794			# 2	
REJE "FAW thus is would	CT. " is a fires not ar effective	eld specific acronym vely be obli	to the FEC frame defined in in the broad sense. If we add gated to add all (acronym) fie	Clause 186, lil one field name Id names.	e PS, TS, etc., and e (acronym) like this we	Comment T Gramm SuggestedF	ype ar. Cha Remed	E ange "defin y	Comment Status	A			(bucket)
C/ 45	SC	45.2.1	P 71	L 30	# 10	Change	aetin	ies" to "def	ne". Also correct typ	o by chai	nging "1.1464"	to "1.1463"	
Marris, Ar	thur		Cadence Desi	gn Systems		Response	-		Response Status	С			
Comment	Туре Плава	Τ	Comment Status A		(bucket)	AUCEP	١.						
An ad trainin	dress s g regis	ters for the	AUI upper component	able 45-3 for th	e duplication of IL I	C/ 45 Marris, Arth	SC 4	45.2.1.1680	: P95 Caden	ce Desia	L 35 h Systems	# 3	
Suggested Expan upper block PMA/F	id the a compo error bi PMD re	address spa onent" appr in counters	ace allocated to "Duplication of opriately, suggest 1.3000 to 7 is likely to be reduced. Add a section to describe these regi	of ILT training i 1.4500, as the a new subclaus sters	egisters for the AUI range of the PMA test e at the end of	Comment T Correct SuggestedF	ype table i Remed	E reference y	Comment Status	A	,		(bucket)
Response	Response Response Status C					Correct delete "	table i ane 0	reference o "	n line 39 to be to 45	-133c. Als	so in bit descri	otion for 1.147	7.8
ACCE	PT.					Response ACCEP	Т.		Response Status	С			
TYPE: TR	/technie T STA	cal required TUS: D/dis	d ER/editorial required GR/g patched A/accepted R/rejec	eneral required	d T/technical E/editorial G/g NSE STATUS: O/open W/wr	jeneral itten C/closed	Z/with	drawn		CI 45 SC 45.2 .	1.168c	Page 1 3/11/20	of 49)25 10:45:27 PN

SORT ORDER: Clause, Subclause, page, line

C/ 45	SC 45.2.1.168	d	P 96	L12	# 4	CI 45	SC 45.2.1.2	213b	P101	L15	# 40
Marris, Ar	thur	(Cadence Des	sign Systems		Bruckma	in, Leon		Nvidia		
Comment Make	Type E minor tweaks to bi	Comment States to Comment Stat	atus A n Table 45-1	33d	(bucke) Commer In ta draft	<i>t Type</i> TR ble 45-142c new Clause 177 use	<i>Comment</i> 1.2402.15 bit de es 8 bits for this f	Status A efined as "PRE function that w	3S31 is FEC enc vill be defined in c	<i>(bucket)</i> oded" is not used in the clause 45.2.1.213e
Suggestee For 1. For 1.	For 1.1478.13 change "It indicates" to "This bit indicates" For 1.1478.10 change "each input lane is" to "all input lanes are" Response Response Status C						edRemedy er change the de on 177.9 to becc	finition of bit 1.24	402.15 to "Res pointing to this	served", or chang s bit	ge the references in
ACCE	, EPT.	Response Sta				Respons	e EPT IN PRINCI	Response S PLE.	Status C		
C/ 45	SC 45.2.1.177	b	P 99	L1	# 5	Cha	nge bit 1.2402.15	5 to "Reserved"			
Marris, Ar	thur	(Cadence Des	sign Systems		C/ 45	SC 45.2.1.2	213e	P103	L 6	# 7
Comment Corre Suggestee	Type E ct register number dRemedy	Comment St	atus A		(bucke	^{;)} Marris, A Commer Edito	rthur <i>t Type</i> T or's note needs to	Comment S	Cadence De Status A	sign Systems	(bucket)
Chang	ge "1.1816" to "1.1	819"				Suggest	edRemedy				
Response	; :рт	Response Sta	atus C			Repl	ace editor's note	e with suitable co	ntent		
<i>Cl</i> 45 Marris, Ar	SC 45.2.1.178	c (P 100 Cadence Des	L 3 sign Systems	# 6	ACC ACC The nece	e EPT IN PRINCIF bits for this regis ssary table and	Response S PLE. ster are defined a text in 45.2.1.213	Status C Ilready in 177 3e.	.4.9.1 and are lis	ted in Table 177-7. Add
Comment	Type E	Comment St	atus A		(bucke	⁽⁾	SC 45.2.1.2	213n	P107	/ 23	# 8
Corre	ct table number					Marris. A	arthur		Cadence De	sian Systems	<i>"</i> 0
Suggestee Chane "45.2.	dRemedy ge "45-142c" to "45 1.178c" to "45.2.1.	i-141c" in two p 177c"	places, and	change subclause	e number from	Commer Corr	<i>t Type</i> E ect register range	<i>Comment</i> and add table t	Status A	e error bin counte	<i>(bucket)</i> er registers
Response ACCE	PT IN PRINCIPLE	Response Sta	atus C			Suggest 51 re how	SuggestedRemedy 51 registers are required so make the range 1.2600 through 1.2650. Add table to indicate how the 48-bit values man to three register locations				
Corre	Correct the subclause and table numbering with editorial license.						e	Response S	- Status C		
In add Descr "align to: "align in 45.	lition, to match the iption column of th ment marker locati ment marker locati 2.1.178c and 45.2.	change of the is table from: on transparenc on" 1.178c.1.	feature nam	e in CL 186, char	nge the text in the	ACC	EPT.				

C/ 45	SC 45.2.1.213n	P107	L 34	# 198	C/ 73 S
Slavick, Je	ff	Broadcom			Ran, Adee
Comment 7 Add Ta	<i>Type</i> TR Co bles to show lane 0 bi	n 0 registers.		(bucket)	<i>Comment Type</i> 73.5 has b Also applie
Suggested	Remedy	2 registers a given "Pir	acuntar in con	anagad of	(Also 73.1)
Response ACCEF	Res Res	sponse Status C	r counter is con	iposed or.	<i>SuggestedRen</i> Insert "(as 2022 and I
CI 73	SC 73.4	P 121	L19	# 231	Response ACCEPT.
Ran, Adee		Cisco			
Comment 7	Гуре т Сс	mment Status A		(bucket)	CI 73 S
The ter express Messag The us making of "Unfe	m "link codeword" app sions like "link codewo ge code" and "link cod ual English word orde i t a specific type of "E ormatted"	pears many times in the rd Base page" here, an eword Unformatted". suggests that "link co Base page", specific typ	e updated Claus nd similar expres deword" is a cor be of "Message	e 73 as an initial part of ssions "link codeword npound adjective, code", or specific type	Ran, Adee Comment Type Editorial in This applie SuggestedRen Move the e
I think i code" is three c	t is quite different: "Ba s one kind of Next Pag an be referred to toge	se Page" is one thing, ge, and "Unformatted" i her as "link codeword"	"Next Page" is a is another kind c	another thing; "Message f Next Page. These	Response ACCEPT.
The ter original with Cla code N	minology in D1.4 mak Clause 73 (despite th ause 73 confused. It is ext Page" (which is a	es the text difficult to for e good intent to clean s especially difficult in of ink codeword of type N	bllow, worse that it), and would m constructs like "li Next page of sub	n what it was in the ake readers familiar nk codeword Message type message code).	
Suggestedl	Remedy				
Use the "Base p "Next p code of "Messa "Unforr	e following terms: page link codeword" (o age link codeword" (a r Unformatted) ige code Next page lin natted Next Page link	one type of link codewo nother type of link code k codeword" (a subtype codeword" (a subtype	ord) eword; with two e of Next page I of Next page linl	subtypes, Message ink codeword) < codeword)	
In most "Unforr	t cases, the terms "Ba natted Next page" car	se Page", "Next Page" be used without addir	, "Message code ng "link codewore	e Next page" and d".	
Change	e across clause 73 an	d Annex 73A with edito	rial license.		
Response	Res	sponse Status C			
ACCEF Implem	PT IN PRINCIPLE. Ient the suggested rer	nedy with editorial licer	ise.		

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

73	SC 73.5.	1	P 12	22	L 32	# 232	
Ran, Ade	e		Cisco				
Comment	Type ER	Comme	nt Status	Α			(bucket)
73.5 h Also a (Also	nas been amo applies to 73. 73.10, but it a	ended by 802.30 6, 73.7, 73.8 wh already includes	k. The ed ich were a the requir	itori ame red	al instruction shoul inded by 802.3ck an note)	d include this note nd/or 802.3df.) .
Suggeste	dRemedy						
Insert 2022	"(as modifie and IEEE Ste	d by IEEE Std 8 d 802.3df-2024)	02.3ck-202 ' into the e	22)' edito	or "(as modified by orial instructions, as	y IEEE Std 802.30 appropriate.	ck-
Response)	Respons	e Status	С			
ACCE	PT.						
73	SC 73.5.	1	P 12	22	L 32	# 233	
Ran, Ade	e		Cisco				
Comment	Type ER	Comme	nt Status	Α			(bucket)
Editor This a	rial instruction applies to 73.	ns should be wit 5.1 and 73.6.	hin the sub	ocla	use they address.		
Suggeste	dRemedy						
Move	the editorial	instruction into t	he subcla	use	S.		

Response Status C

C/ 73 SC 73.5.1

CI 73	SC 73.10.2	P 134	L15	# 234
Ran, Adee		Cisco		
Comment Typ	pe T	Comment Status R		AN/LT timers

A value of 60 seconds for link fail inhibit timer does not guarantee a reasonably short timeto-link, and on the downside it creates an unacceptably long time to recover from a failed auto-negotiation attempt if at least one of the link partners adheres to it.

The current value was adopted in order to allow ILT in all ISLs to complete. This should be maintained, but the time to recovery from failure (or enable restart by management) should be shorter.

This can be enabled by adding a third possible value IN_PROGRESS to pcs_status. The rules for generating this value can be derived from existing PCS variables.

With this new value, the period for link_fail_inhibit_timer can be reduced to 12 seconds (as in 802.3ck) or even lower.

SugaestedRemedv

A detailed proposal will be submitted.

Response

REJECT.

The following contribution was reviewed by the CRG: https://www.ieee802.org/3/dj/public/25_03/ran_3dj_02a_2503.pdf

Response Status C

There was no consensus to implement the proposed changes at this time. Further work and consensus building on this topic are encouraged.

CI 73	SC 73.10.2	P 134	L15	# 224
Dawe, Piers		Nvidia		
Comment Ty	pe TR	Comment Status R		AN/LT timers

If ILT works as planned, this timer should be invoked very rarely: the link should come up before it expires unless there is e.g. a bad cable.

SuggestedRemedy

Increase the lime limit. Add a counter to flag when AN has tried say 10 times (possibly with different candidate abilities). Maybe at that point it should report to management and shut down the non-functioning link.

Response Response Status C

REJECT.

The suggested remedy does not provide sufficient detail to implement. Also, the proposed changes would change behaviour for PHYs already in the base standard.

C/ 116	SC 116.2.9	P147	L 39	# 41
Bruckman,	Leon	Nvidia		
Comment T	уре Т	Comment Status A		(bucket)
Text is	hard to parse.			

SuggestedRemedy

Change: "For each ISL, ILT provides a mechanism for a receiver to control transmitter states, such as equalization, modulation, and precoding states, on the peer transmitter," to: "For each ISL, ILT provides a mechanism for a receiver to control peer transmitter states, such as equalization, modulation, and precoding."

The proposed changes are not required to make this draft technically complete. The commenter is encouraged to pursue this further during Working Group ballot.	e. The Response ACCEPT.		Response Status C						
	C/ 116	SC 116.3.2	P149	L 4	# 235				
	Ran, Adee		Cisco						
	Comment T	rpe ER	Comment Status A		(bucket)				
	The edit Figure 1	orial instruction 16-2.	n says "Replace Figure 169-2 with the fo		ng figure:", which is				
	Similarly in several subsequent instructions (which should be to insert Figure 116-2a, replace Figure 116-3, etc.).								
	SuggestedR	SuggestedRemedy							
	Change	"169" to "116"	in the all editorial instructio	ns in clause 116.					
	Response		Response Status C						
	ACCEPT IN PRINCIPLE. Implement the suggested remedy with editorial license.								
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open	al G/general W/written C/closed	Z/withdrawn	Cl ·· SC ·	116 116.3.2	Page 4 of 49 3/11/2025 10:45:27				

' PM

C/ 116	SC 116.3.2	P 149	L13	# 236	C/ 116	SC 116.3.3.4	P153	L 42	# 237		
Ran, Ade	e	Cisco			Ran, Adee)	Cisco				
Comment	Туре Е	Comment Status A		PCS SI below	Comment	Туре Т	Comment Status A		(bucketp)		
The F This p shoul not he	PMA service interfa primitive is part of d be provided by a pre.	ace shown is missing an arr the inter-sublayer service in all sublayers using it. It is inc	ow for PMA:IS_S terface (as define deed shown for a	IGNAL.request. ed in 116.3.3.4) and Il other sublayers, but	The de "The I detect the ne	escription of IS_S S_SIGNAL.reque ion of severe erro xt lower sublaye	SIGNAL.REQUEST says est primitive is generated or conditions (e.g., no va r <.>"	: by the transmit pro- lid signal being rece	cess to propagate the ived by the sublayer) to		
Althorits de	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					arenthetic phrase e direction. Indee he exact same p	e is misleading; it is natur ed, the semantics of the I hrase.	ally interpreted as if S_SIGNAL.indication	there is no signal in the on primitive in 116.3.3.3		
Also i the su	n several other se uggested remedy.	rvice interface diagrams and	d in some block o	diagrams, as listed in	In fact	the "request" pri	mitive is all about the tra	nsmit direction; it is	used to indicate that no		
Suggeste	dRemedy						ed by the Sublayer.				
Add a	a downward arrow	with label "PMA:IS_SIGNAL	request" from th	ne PCS to the PMA in	Suggested	iRemedy					
each Figur	e 116-2. Figure 11	jures: 6-2a, Figure 116-3, Figure 1	116-3a		Chang	e to "(e.g., no va	alid signal is transmitted)				
Figure	e 169-2, Figure 16	9-2a, Figure 169-3 (twice)	110 04		Response		Response Status C				
Figure 174-2, Figure 174-3 (twice), Figure 174-4 Figure 185-3					ACCE It is ar the co	PT IN PRINCIPL nbiguous as to w ntext as the inter	E. here the "received" is po t is to point out a valid si	inting to. The sugge	ested remedy changes ceived from the sublaver		
Add a Figure	a downward arrow e 185-3.	with label "FEC:IS_SIGNAL	request" into the	e Inner FEC sublayer in	above Chang	e "(e.g., no valid	signal being received by	the sublayer)"			
Response	9	Response Status C			To "(e.g., no valid signal being received by the sublayer on IS_UNITDATA.request in tr transmit direction)"						
ACCE	EPT IN PRINCIPL	E.			Make a similar change in 116.3.3.3.						
Base the T	d on the response X interface of the I	to comment #248, the sing PCS supporting 802.3dj PH	al IS_SIGNAL.re Ys.	quest is being added to	C/ 116	SC 116.3.3.4	.1 <i>P</i> 154	L 5	# 238		
The fi	aures listed in the	suggested remedy must all	add the		Ran, Adee)	Cisco				
"inst:l	PMA_IS_SIGNAL.	request" signal to the service	e interface below	the PCS (or DTE XS)	Comment	Туре Т	Comment Status A		(bucketp)		
for the	e PHYs defined in	802.3dj.			In IS_	SIGNAL.request	, the SIGNAL_OK can tal	ke the value FAIL.			
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.					"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 (or a it is react). This is a possible situation even when IN_PROCRESS and READY are						
					supported.						
	5 • • • • • • • • • • • • • • • • • • •				Suggested	lRemedy					
Imple	ment with editoria	l license.			Change to "A value of FAIL indicates the sublayer is not functional or has not established communication with the next higher sublayer."						
[Edito	or's note: CC 169 1	174 185]			Response		Response Status C				
					ACCE	PT.					

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 5 of 49 SC 116.3.3.4.1

3/11/2025 10:45:27 PM

C/ 119	SC 119.2.5.8.	2 <i>P</i> 166	L15	# 239	C/ 119	SC	119.3.4a	P167	L 33	# 240
Ran, Ade	e	Cisco			Ran, Adee			Cisco		
Comment	Туре Т	Comment Status R		PCS encode/decode	Comment 7	Гуре	TR	Comment Status A		FEC counters (bucket)
The stateless decoder assumes that the received data represent valid Ethernet data and does not check it for valid frame structure, unlike the State-diagram decoder. This should be emphasized for readers familiar with the original decoder defined in Clause 119 to prevent surprises. For example, validation suites may check the PCS with data that					"The fo What if	illowing it is us	g counter is sed in othe	optional if the PCS is used r PHY types? is it not option	in any of the al? or not allo	following PHY types" owed?
119 to prevent surprises. For example, validation suites may check the PCS with data that is not valid Ethernet and expect it to reject it. The suggested remedy applies to this subclause (119.2.5.8.2) and to 175.2.5.9. It should also apply to 172.2.5.9.2, but it is currently not in the draft and may be out of scope					e.g. 40 Arguab	oly, we	could make	d includes this counter should be optional for d includes this counter should be the state of the suggested remedy do	Id not be con PHYs (it is m	andatory in 175.2.5.3) and
also apply to 172.2.5.9.2, but it is currently not in the draft and may be out of scope. SuggestedRemedy Add a NOTE at the end of 119.2.5.8.2: NOTEThe stateless decoder relies on the Reed-Solomon decoder for error correction and				Also applies to the counters in 119.3.4b. SuggestedRemedy						
marki frame	ng, and unlike the s.	state-diagram decoder, it do	bes not check th	ne validity of Ethernet	Delete the words "if the PCS is used in any of the following PHY types" and the lists of PHY types". types". Implement in 119.3.4a and 119.3.4b with editorial license.					
Add a Add a	similar note at the similar note at the	e end of 175.2.5.9. e end of 172.2.5.9.2 if it is co	onsidered in sco	ppe.	Response			Response Status C		
Response REJE	CT.	Response Status C			Resolv	e using	the respo	nse to comment #157.		
The s 119 a definit be mo	tateless PCS deco nd CL 175. The be tion itself. Since it ore appropriate to a	der is defined in 172.2.5.9.2 est place for this note would would apply to all PHYs, not add this note through mainte	2 and there are be in 172.2.5.9 just those define enance.	references to it from CL 2 with the decoder ned by 802.3dj, it would						

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 6 of 49 3/11/2025 10:45:27 PM

C/ 119	SC 119.3.4a	P167	L 33	# 157
Opsasnick, E	lugene	Broadcom		
Comment Ty	pe 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
- 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 119.3.4t	P168 L8	# 42
Bruckman,	Leon	Nvidia	
Comment T	ype TR	Comment Status R	(withdrawn)
– •			

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	Ζ	
----------	-----------------	---	--

REJECT.

This comment was WITHDRAWN by the commenter.

C/ 119	SC 119.6	P 168	L14	# 241
Ran, Adee		Cisco		
Comment T	ype TR	Comment Status A		(bucket)
In the b	ase standa	d. 119.6 lists the 200G/4000	G PMDs that nee	ed AN 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.

Cl	119
SC	119.6

Page 7 of 49 3/11/2025 10:45:27 PM

-									
C/ 169	SC 169.2.4b	P179	L11	# 158	C/ 169	SC 169.2.4c	P1 79	L13	# 159
Opsasnic	k, Eugene	Broadcom			Opsasnick	, Eugene	Broadcom		
Comment	Type E	Comment Status R		(bucketp)	Comment	Туре Т	Comment Status A		segmented FEC
The lin	ne "For 800GBASI peating 800GBAS	E-LR1 the 800GBASE-LR1 I E-LR1 is confusing.	nner FEC is spe	ecified in Clause 184.",	169.2.4 186. H	4c describes a "S lowever, CL 186	Segmented FEC sublayer" with has no reference to and never	h a reference to ar uses the tern	o its definition in CL n "Segemented FEC". It
Suggested	lRemedy				does h	owever describe	a portion of the 800G-ER1 Fl	EC sublayer as	an "Inverse FEC". The
Chang	ge "For 800GBASE	E-LR1 the 800GBASE-LR1 I	nner FEC is spe	cified in Clause 184."	particu	lar sublayer.	is usually associated with an		
to eith	er:				Suggested	Remedy			
"For th	ne 800GBASE-LR	1 PHY, the Inner FEC is spe	cified in Clause	184."	Chang	e 169.2.4c to de	scribe the "800GBASE-ER1 F	EC" sublayer I	nstead of the
or: "The 8	300GBASE-LR1 In	ner FEC is specified in Clau	se 184."		"Seger	ented FEC suble	aver" is.	to CL 186 that	defines what a
Response REJE	CT.	Response Status C			The te probab	rm "Segmented ly be changed to	FEC" also appears in 169.3.2 800GBASE-ER1 FEC".	on page 180, I	ine 17. It should
Thoug	h it is somewhat a	awkward, the wording is cons	sistent with mar	y other similar e has the same	Response		Response Status C		
qualifi	er as the PHY type	e.			ACCE	PT IN PRINCIPL	E.		
					Replac	e 169.2.4b and	169.2.4c with the following		
					"169.2	.4b FEC sublaye	r		
					The 80 additio For 80 FEC is For 80	0GBASE-R and n to that provide 0GBASE-DR4-2 specified in Cla 0GBASE-LR1, th	800GBASE-LR1 Inner FEC s d by the 800GBASE-R PCS, t , 800GBASE-FR4, and 800GB use 177. ne 800GBASE-LR1 Inner FEC	ublayers provid for the PMD. 3ASE-LR4, the c is specified in	de error correction, in 800GBASE-R Inner Clause 184.
					The 80 and re 20 PM	00GBASE-ER1 F places it with a s Ds.	EC sublayer terminates the F eparate FEC for use with the	EC provided by 800GBASE-EF	y the 800GBASE-R PCS 1 and 800GBASE-ER1-

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	
Dudek, Mił	(e	Marvell			Ran, Adee	•	Cisco			
Comment T Poor E	<i>Type</i> E nglish (missing ol	Comment Status A bject)		(bucket)	<i>Comment</i> Figure	<i>Type</i> ER 169-2 and Figui	Comment Status A re 169-3 exist in this ame	ndment.	(bucket)	
Suggested Change separa	Remedy e " and replaces v te FEC " to "and i	with a replaces it with a separate FE	EC"		Suggested Make t	Remedy the cross-referer	nces active.			
Response ACCEF	PT.	Response Status C			ACCE	PT.	Response Status C			
C/ 169	SC 169.2.10	P179	/ 38	# 43	C/ 170	SC 170.1	P 190	L34	# 162	
Bruckman.	Leon	Nvidia	200		Opsasnick	, Eugene	Broadcor	m		
Comment T Text is	<i>Type</i> T hard to parse.	Comment Status A		(bucket)	Comment The tw be con for 200	<i>Type</i> E to lists of feature nbined into a sin 0GMII/400GMII.	Comment Status A s for 800GMII and 1.6TM gle list. This would matcl	III in lines 34-46 ar n what is written in	<i>(bucket)</i> e so similar, they should the based spec in 117.1	
Change: "For each ISL, ILT provides a mechanism for a receiver to control transmitter states, such as equalization, modulation, and precoding states, on the peer transmitter," to: "For each ISL, ILT provides a mechanism for a receiver to control peer transmitter states, such as equalization, modulation, and precoding,"				ontrol transmitter e peer transmitter," peer transmitter	SuggestedRemedy Change: "The 800GMII has the following characteristics: - It supports a speed of 800 Gb/s.					
Response ACCEF	PT.	Response Status C			- Data - It pro - It sup	and delimiters a vides independe ports full duplex	re synchronous to a cloc ent 64-bit wide transmit a coperation only.	k reference. nd receive data pat	ths.	
C/ 169	SC 169.2.10	P179	L 42	# 161	The 1.	6TMII has the fo	llowing characteristics:			
Opsasnick <i>Comment T</i> "and to	, Eugene <i>Type E</i> coordinate trans	Broadcom <i>Comment Status</i> A ition to DATA mode" is missi	ng a "the".	(bucket)	- It sup - Data - It pro - It sup	oports a speed o and delimiters a vides independe oports full duplex	f 1.6 Tb/s. re synchronous to a cloc ent 64-bit wide transmit a coperation only."	k reference. nd receive data pat	ths.	
Suggested	Remedy				to:					
Change: "and to coordinate transition to DATA mode" The 800GMII/1.6TMII have the following characteristics: To: - The 800GMII supports a speed of 800 Gb/s. "and to coordinate the transition to DATA mode" - The 1.6TMII supports a speed of 1.6 Tb/s. Response Response Status C ACCEPT IN PRINCIPLE. - They provide independent 64-bit wide transmit and receive data participation only. Similar text occurs in several other clauses. Response Response							paths.			
Impler where	ent the suggeste similar text is use	d remedy with editorial licens d.	se in 169.2.10 ar	nd other locations	ACCE	PT.				

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 9 of 49 3/11/2025 10:45:27 PM

C/ 171	SC 171.1	P197	L17	# 120	C/ 171	SC 171.8	P 209	L 4	# 244
Dudek, M	ike	Marvell			Ran, Adee	1	Cisco		
Comment	Type E	Comment Status A		(bucket)	Comment	Туре Е	Comment Status A		(bucket)
In tabl and 1	le 171-1 Footnot 76D as well as 1	e c should have been change 20F	ed to footnote d o	n clauses 120G, 176C	Table Similar	171-3 title and ly Table 171-	l column heading mentions C 5a through 171-5c refer to Cla	lause 172. ause 175.	
Suggestee	dRemedy				lt ie un	clear why cla	use 171 should have tables o	f variables defined	d in other clauses
chang	ge footnote c to fo	potnote d on these clauses			Assum	ing this is not	an error, it should be clarified	d. The original text	t of 171.8 seemed to
Response	9	Response Status C			have s	ome explanat	ion, but the replacement text	does not.	
ACCE	PT.				Suggested	Remedy			
C/ 171	SC 171.1	P198	L16	# 121	Add ar in the o	n explanation deleted text, w	of the references to clauses 1 <i>i</i> th editorial license.	72 and 175, simil	ar to what was included
Dudek, M	ike	Marvell			Response		Response Status C		
Comment	Туре Е	Comment Status A		(bucket)	ACCE	PT IN PRINCI	PLE.		
In tabl 176C	le 171-1a Footno and 176D as we	ote a should have been chang Il as 120F	ged to footnote b	on clauses 120G,	Implen	nent suggeste	d remedy with editorial licens	e.	
Suggested	dRemedy				C/ 171	SC 171.8	P 209	L16	# 44
chang	ge footnote a to fo	ootnote b on these clauses			Bruckman	, Leon	Nvidia		
Response	9	Response Status C			Comment	Туре Е	Comment Status A		(bucket)
ACCE	PT.				In Tab	les 171-3, 171	-5, 171.5b and 171-5d in the	first column the n	ames wrap around oddly
CL 474	SC 474 9	Dana	1.24	# 040	Suggested	Remedy			
	30 171.2	F 200	L 24	# 243	Fix the	variable nam	es in the first column of Table	es 171-3, 171-5, 1	71-5b and 171-5d to be
Ran, Adee	e Tura FD			(1	in one	line			
Comment	<i>Type</i> ER	Comment Status A		(bucket)	Response		Response Status C		
Figure	e 172-2 exists in	this amendment.			ACCE	PT IN PRINCI	PLE.		
Suggested Make	dRemedy the cross-refere	nce active.			Implen	nent the sugg	ested remedy with editorial lic	ense.	
Response	9	Response Status C							
ACCE	PT.								

C/ 171 SC 171.8

C/ 171	SC 171.8	P 209	L 20	# 245	C/ 172
Ran, Ade	9	Cisco			Ran, Ade
Comment	Туре Т	Comment Status A		(bucket)	Comment
"in su The re	bns" is not define egister names in	ed and is not helpful for the reaction of the	ader (what it mea) have "in sub-na	ans is anyone's guess). s" instead, which is only	In the list sh
slightl	y better.				Suggeste
Based	l on clause 30, th	nese registers are in units of 2	2^-16 ns.		Bring KR4,
Multip	le instances in th	ne draft.			Response
Suggestee	dRemedy				ACCI
Chang to "in	ge all instances o sub-ns".	of "in subns" preferably to "in u	units of 2^-16 ns'	, or if not within scope,	Imple
Response	•	Response Status C			C/ 173
ACCE	PT IN PRINCIPI	-E.			Huber, TI
802.3 45.24	cx-2023 uses the	e terms "sub-ns" as a quasi-ur e Table 45-314 register definit	nit of time and de ions as "units of	fines it in subclause	Commen
PHY	KS register refere	ence (registers 4.1809 to 4.18	12). The TimeS	ync registers	Since
definit	ions in Table 17	1-3 of subclause 171.8 should	be consistent w	rith the register	PMA
descr	ptions in Table 4	5-314 and use the "Sub-ns" te	erm as a unit of t	ime.	Suggeste

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	SC 172.6	P 230	L 30	# 246
Ran, Adee		Cisco		
Comment Ty	ype 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
	i teoponee etatae	-

EPT IN PRINCIPLE.

ement suggested remedy with editorial license.

C/ 173	SC 1	73.4.2	P 231	L 45	# 98
Huber, Th	omas		Nokia		
Comment	Туре	т	Comment Status A		(bucket)

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

dRemedy

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 ACCE	PT.	Response Status C		
C/ 174	SC 174.1.4	P 234	L 35	# 75
Huang, Ke	echao	Huawei		
In "Ta the co	ble 174-2 and Tak rrelation", the wo	ble 174-3 specifies rd "specifies" should be cha	inged to "specify"	(DUCKet)
Suggested Chang	dRemedy ge it as suggested	1		
Response ACCE	PT.	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

C/ 174	SC 174.2.12	P 237	L 39	# 45	C/ 174	SC 174.5	;	P 243	L 23	# 122
Bruckman	, Leon	Nvidia			Dudek, M	ike		Marvell		
Comment	Туре Т	Comment Status A		(bucket)	Comment	Туре Е	Comme	ent Status A		(bucket)
Text is	hard to parse.				Better	wording				
Suggested	lRemedy				Suggestee	dRemedy				
Chang states, to: "Fo	e: "For each ISL, , such as equaliz r each ISL, ILT p	, ILT provides a mechanism ation, modulation, and preco rovides a mechanism for a re-	for a receiver to ding states, on t eceiver to contro	control transmitter he peer transmitter," ol peer transmitter	Chang specif servic	ge "No physic ied " to "No p e interface) "	cally instantiate hysically instar	d interfaces at SP ntiated interfaces	2 and SP3 (PME are specified at S	D service interface) are SP2 and SP3 (PMD
states,	, such as equaliz	ation, modulation, and preco	ding,"		Response	1	Respon	se Status C		
Response		Response Status C			ACCE	PT IN PRIN	CIPLE.			
ACCE Implen	PT IN PRINCIPL nent with editoria	E. I license.			The g	eneral wordir	ng change is a	good suggestion.	However, SP3 sl	hould be SP5.
C/ 174	SC 174.3.3	P 242	L 4	# 247	Chang	ge:				
Ran, Adee)	Cisco			"No p	hysically ins	antiated interfa	ices at SP2 and S	SP3 (PMD service	e interface) are
Comment	Type ER	Comment Status A		(bucket)	specit To:	ied."				
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".				primitives for the .3".	"No physically instantiated interfaces are specified at SP2 and SP5 (PMD service interface)."					
This p	roject adds 116.3	3.3.4 with the semantics of IS	S_SIGNAL.reque	est.	C/ 174	SC 174.5	j	P 245	L12	# 173
The sa	ame sentence ap	pears also in 169.3.3 (not cu	rrently included	in the amendment).	Opsasnic	k, Eugene		Broadcom		
In both	cases, the refer	ence can be to the parent su	ıbclause which v	vill cover everything.	Comment	Туре Т	Comme	ent Status R		Skew value
Suggested	IRemedy				Table refere	174-5 should nce from 177	d have a max s .4.1.2.)	kew of 25ns listed	I for SP2. (This is	s required as a
Chang	e "in 116.3.3.1 th	nrough 116.3.3.3" to "in 116.3	3.3".		Suggeste	dRemedy	,			
Response					Add N	laximum ske	w values for SF	2 in table 174-5.		
ACCE	PT IN PRINCIPI	F			Response	,	Respon	se Status C		
Implen	nent with editoria	L license.			REJE SP2 a servic 1.6TB	CT. Ind SP5 are of e interface. 1 ASE-R PHYs	only applicable here are no ph s at this time, n	if there is a physic sically instantiate or any other PHY	cally instantiated ed PMD service i s defined in the 8	interface at the PMD interfaces defined for 302.3dj project.
					There	fore, the valu	es for SP2 and	I SP5 should not t	be added to Table	e 174-5.
					The re	eference from	n 177.4.1.2 is a	ddressed by com	ment #77.	

C/ 174 SC 174.5

C/ 174A	SC 174A.6	P662	L 31	# 16	With a compliant inp
Brown, Ma	tt	Alphawave S	Semi		
Comment	Туре Т	Comment Status A		Error rat	Add new subclause io change "see 174A 9
CRC e pair of (a) disa (b) stat (c) redu	rror ratio based AUIs in the PHY allow extender te that either ext uced FLR for PC	on 6E-11. However, this wor '. Options: ender or AUIs in PHY, but n S-to-PCS to 5.8E-11.	uld not account t	for an Extender plus a	Implement all with ed
Suggested	Remedy				
A conti	ribution will be p	rovided.			
Response		Response Status C			
ACCEI The CI https://	PT IN PRINCIPL RG reviewed par www.ieee802.or	E. t 2 of the following contribut g/3/dj/public/25_03/brown_3	ion: 3dj_04a_2503.pc	df	
Straw p	ooll TF-3 and TF	-4 showed consensus for a	dopting option 2	in brown_3dj_04a_2503	
Implem	nent option #2 as	s shown in slides 18 and 24	with editorial lice	ense.	
Straw I For add outline A: optic B: optic C: optic E: optic F: abst	Poll TF-3 (pick o dressing 800GB d in brown_3dj_(on 1 on 2 on 2 on 4 on 5 ain	ne) and TF-4 (chicago) ASE-ER1 frame loss ratio b 04a_2503:	udget I support f	the following option as	
TF-3: / TF-4: /	A: 2 B: 27 C: 1 D A: 2 B: 31 C: 3 D	: 2 E: 8 F: 24 : 4 E: 16 F: 23			
Related followin - align - to acc the 800 - to add - to fix - in 174 error ra	d to this commends of the similar sub- count for the new OGBASE-R PCS dress the concer reference to 174 4A.6 there is a reatio	nt the text in 187.2 and 174/ clauses in other PMD clause v CRC error ratio measured m raised in D1.4 Comment # A.5 instead of 174A.4 eference to 174A.9 which de	A should be updates at the FEC deco #155, if adopted fines codeword	ated based on the oder output rather than a error ratio, not CRC	t
Chang	e the text in 187	.2 as follows:			
"With a specifie	a compliant input cations in 174A.	t signal, a PHY receiver is e 5.	xpected to meet	the frame loss ratio	
TYPE: TR/ COMMENT SORT ORE	technical require STATUS: D/dis DER: Clause, Su	ed ER/editorial required GR spatched A/accepted R/reje bclause, page, line	/general require ected RESPO	d T/technical E/editoria NSE STATUS: O/open	l G/general W/written 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 13 of 49 3/11/2025 10:45:27 PM

C/ 175	SC 175.1.4.2	P 248	L 53	# 248
Ran, Adee		Cisco		
Comment Typ	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	P261	L10	# 46
Bruckman,	Leon	Nvidia		
Comment 7	Type TR	Comment Status R		(withdrawn)
For An	nex 174A BLER	bin counters are 0 to 15, not	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/gener	al required T/technical E/editorial G/general	C/ 175	Page 14 of 49
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 175.2.5.3	3/11/2025 10:45:27 PM

SORT ORDER: Clause, Subclause, page, line

C/ 175	SC 175.2.6.2.2	2 P263	L38	# 15	C/ 175	SC 175.2.6.3	P 264	L53	# 250
Brown, Ma	att	Alphawave Se	emi		Ran, Adee))	Cisco		
Comment 7	Туре Т	Comment Status R		(withdrawn)	Comment	Туре Т	Comment Status A		(bucketp)
PCS_re and is f PCS_re FEC_re	reset is defined as false otherwise." I reset, so why not s reset in clauses 1	"Boolean variable that is tru But it is intended to reflect th say that. There is a similar is 77, 184, and 186.	ue when set by a ne state of mana ssue with PMA_	a management entity agement variable reset in clause 176,	Here v "Note RX_LI But in decode	ve have that EEE and lov are not used" 175.2.4.1 and 1 [°] er, respectively,	v-power idle are not supporte 75.2.5.9 there are references without this note.	ed, and the optio	nal states TX_LI and gram encoder and
Change PCS_n Make s	le defintion of PCS management varia	S_reset to "Boolean variable able (see Table 175-3) is 1 o	that that is set or 0, respectively	to true or false when y." or similar	To avo decode	bid duplicity and er definitions.	apparent contradiction, this r	note should appe	ear in the encoder and
Response		Response Status Z	100.		The "s	tate diagram fig	ires" subclause includes a lo	ot of descriptive t	ext and should perhaps
REJEC	CT.	,			be ma	de shorter in oth	er ways.		
-					Suggested	lRemedy			
	omment was will	HURAWN by the commente	ſ.		Delete and 17 Add th	the last paragra 72.2.5.9.2, respender the required states	ph of 175.2.6.2 (from "The tr ctively"). ments about EEE/LPI in 175.	ansmit state dia .2.4.1 and 175.2	gram" to "172.2.4.1.2 .5.9 instead.
					Response		Response Status C		
					ACCE	PT IN PRINCIPI	.E.		
					The su be a re	uggested remedy eference to 175.2	mentions to delete text from 2.6.3.	n 175.2.6.2, but a	appears that this should
					Adding unders those not su	the statement a standing of the fu states are only re pported.	about EEE/LPI to 175.2.4.1 a inctions since the referenced equired to support EEE and i	and 175.2.6.9 is a figures already it is already state	not necessary for the contain a note that ed in 175.2.3 that EEE is
					Delete and 17	the last paragra 2.2.5.9.2, respe	ph of 175.2.6.3 from "The tra ctively".	ansmit state diag	gram" to "172.2.4.1.2
REJEC	CT.	HDRAWN by the commente	r.		Suggested Delete and 17 Add th Response ACCE The sube a re Adding unders those a not su Delete and 17	Remedy the last paragra 72.2.5.9.2, respe- e required state PT IN PRINCIPI uggested remedy eference to 175.2 g the statement a standing of the fu- states are only re pported.	ph of 175.2.6.2 (from "The tr ctively"). ments about EEE/LPI in 175. <i>Response Status</i> C .E. mentions to delete text from 2.6.3. about EEE/LPI to 175.2.4.1 a inctions since the referenced equired to support EEE and i ph of 175.2.6.3 from "The tra ctively".	ransmit state dia .2.4.1 and 175.2 n 175.2.6.2, but a and 175.2.6.9 is t figures already it is already state ansmit state diag	gram" to "172.2. .5.9 instead. appears that this not necessary fo contain a note th ed in 175.2.3 tha gram" to "172.2.4

C/ 175 SC 175.2.6.3

C/ 176	SC 176.2	P 280	L 40	# 163	C/ 176	SC	176.3		P 281	L 45	# 251
Opsasnic	k, Eugene	Broadcom			Ran, Ade	e		(Cisco		
Comment	Туре Е	Comment Status A		(bucke	et) Comment	Туре	TR	Comment St	atus A		PCS SI below
It is st clock the IS of botl	range that the sam is transferred from _UNITDATA primit h subclause 176.2	ne line "In addition to the prir input to output along with tives in the transmit and rece and 176.3.	nitives noted a	above, an associated is repeated at the end	The la for SI The fo PCS o exclud	Ist two GNAL_ potnote does no led fror	rows of Tab OK, and it is says "Whe ot generate n the PCS.	ole 176-6 includ is somewhat ur en PMA:IS_SIG this primitive. E The PCS claus	le the value ' iclean to defi NAL.request But this primi ses state tha	no primitive". The ne the logic this input is not pres ive is not define t the service inte	is is not a valid value way. ent", assuming that a d as optional, nor rface below the PCS
Both c	of these lines can p intro section 176.1	probably be omitted since the	e same informa	ation is given at the end	" is includ	an insta es the l	ance of the IS_SIGNAL	inter-sublayer	service interfive.	ace defined in	", and that means it
Altern genera interfa	atively, it would ma ation of the interfac ice below the PMA	ake sense to modify each of ce signals at PMA service in . For example,	these lines to terface (176.2)	be more specific to the) and the service	(Notin imple imply	g that " nentati a partic	the service on", having cular implen	e interface defin that primitive i mentation).	itions are ab n the service	stract and do no interface below	imply a particular the PCS does not
chang "In ad output the IS And c "In ad	e the last sentense dition to the primiti along with _UNITDATA primit hange the last sen dition to the primiti	e of 176.2 to be: ves noted above, an associa tives in the receive direction. tence of 176.3 to be: ves noted above, an associa	ated clock is tra " ated clock is tra	ansferred from input to	Since assun PCS of IS_SI requir desire bore i	the two ning that or DTE GNALre ed) to in d effec	o "no primiti at a PCS or XS can son equest - for ndicate suc t in this tabl	ive" rows are ic DTE XS alway metimes not ge example, when the state by a le. This is addr he resolution of	entical to the s generates nerate a vali n it is reset o value FAIL for essed by and	two "OK" rows, OK. However, and signal for the p disabled. It sho r this primitive, w other comment.	this is equivalent to n implementation of a urpose of uld be allowed (if not vhich would create the Fhe suggested remedy
output	along with							ne resolution of		mment.	
the IS	_UNITDATA primi	tives in the transmit direction	ı."		Suggester		ay 6 delete th	a bottom two r	owe and fact	noto o	
Response		Response Status C					o, delete ti			note e.	
ACCE The so "The f	PT IN PRINCIPLE entence at the end PMA transmit clock transmit direction	i of 176.1.4 states the following is passed from the interface	ng: e above the PN	MA to the interface below	Response ACCE V Resol	PT IN ve usin	PRINCIPLE g the respo	Response St =. onse to comme	<i>atus</i> C nt #248.		
PMA t	to the interface abo	ove in the receive direction.".			C/ 176	SC	176.4.2.3.2	2	P 285	L14	# 76
As the	acommont notae d	this conturos the come inform	notion that is i	n the last lines of 176.2	Huang, K	echao		1	luawei		
and 1	76.3. Additionally,	the lines in 176.2 and 176.3	are redundant	with each other.	Comment	Туре	Е	Comment Si	atus R		(bucket)
Delete	the last sentence	in 176.2 and in 176.3.			"a 20- symbo also " symbo	bit bour bls) bou a 40-bit bls) bou	ndary (two l Indary"; : boundary (Indary" in p	RS-FEC symbo (4 RS-FEC syn page 285 line 25	bls)" should b nbols)" shoul 5	e changed to "a d be changed to	20-bit (two RS-FEC "a 40-bit (4 RS-FEC
					Suggestee	dReme	dy				
					Chang	ge it as	suggested				
					Response			Response St	atus C		
					REJE The te draft.	CT. ext is no	ot incorrect	as written. The	suggested r	emedy does not	improve clarity of the

Cl	176
SC	176.4.2.3.2

C/ 176	SC 176.4.2.4	P 285	L 41	# 164	C/ 176	SC 1	76.4.3.2.1	P 2 9	92	L 24	# 193
Opsasnicl	k, Eugene	Broadcom			Slavick, Jef	f		Broad	lcom		
Comment	Туре Т	Comment Status A		(bucket)	Comment T	ype	ER	Comment Status	Α		(bucket)
Cross	-rreference to 176	.4.3.4.1 should be 176.4.2.4.1.			and con	nprises	s of seems	wrong.			
Suggestee	dRemedy				SuggestedF	Remed	y				
Fix the	e cross reference	and make it active.			Change	"and o	comprises o	of" to "it is comprise	ed of"		
Response	9	Response Status C			Response			Response Status	С		
ACCE	PT.				ACCEP	T IN P	RINCIPLE.				
C/ 176	SC 176 4 2 4	P285	/ 43	# 165	The con diagram	iventio	n in 802.3 i "compose	s to use "is composed of" anything, rathe	sed of" rather er the "20-bit	than "comprises demultiplexing f	s". Also, the block
Openenial	k Eugono	Broadcom	243	# 105	Fix use	of "cor	mprise" and	d "comprises" here	and elsewher	re in the draft.	
Commont				(huckot)	on page	292 li	ne 24 chan	ge to "A functional	block diagrar	n of a 1:8 symbo	ol-pair
Cross	rreference to 176	4 3 4 2 should be 176 4 2 4 2		(Duckei)	marker	lock fu	nction (see	176.4.3.2.3), is sh	own in Figure	÷ 176-9."	an angriment
Suggosto	d Bomody				on page	379 li	ne 29 chan	ge "comprises" to '	'is composed	of"	
Fix the		and make it active			"compris	sed of	le 34, page to "compo	e 457 line 3, page 2 osed of"	403 line 34, p	age 506 line i c	inange
Posponso					on page	579 li	ne 48, chai	nge "comprise" to "	are compose	d of"	
	, :DT	Response Status			on page	e 773 li	ne 44 (twic	e), change "is com	prised of" to "	is composed of	
AUOL					Impleme	ent wit	h editorial l	icense.			
C/ 176	SC 176.4.3.2	P 292	L 14	# 166	[Editor's	note.	CC 170 18	0 181 182 183 186	178B]		
Opsasnicl	k, Eugene	Broadcom				note.	00 179 10	0 101 102 103 100	TTOD		
Comment	Туре Т	Comment Status A		(bucket)	C/ 176	SC 1	76.4.4.2.1	P 2 9	94	L 48	# 156
The s	ymbol demultiplex	ing function must achieve sym	ool lock on a	III input PMALs.	Opsasnick,	Eugen	ie	Broad	lcom		
Suggestee	dRemedy				Comment T	ype	Е	Comment Status	Α		(bucket)
Chang	ge this sentence:				It appea	irs that	t a second	variable was added	l to this list. T	he introductory s	sentence should
" The s	symbol demultiple: ves symbol	xing function locates the correc	t symbol de	multiplex boundary and	Suggested	neu. Domodi	,				
lock o	on a given input lar	ne."			Change	· "The	y following y	ariable is common			
To: "The s	symbol demultiple	ving function locates the correc	t symbol de	multiplex boundary and	To: "The	e follov	ving variabl	es are common"			
achiev	ves symbol		t symbol de	multiplex boundary and	Response			Response Status	С		
lock o	on each input PMA	L."			ACCEP	Т.					
Also c	on line 15, may wa	nt to change "After all input lar	es" to be "A	fter all input PMALs".							
And o text is	on line 40 of the sa now using PMAL	me page, maybe change "inpu	t. lane" to "F	MAL" since most of the							
Response	9	Response Status C									
ACCE	EPT IN PRINCIPLE	Ξ.									
Implei	ment suggested re	emedy with editorial license.									
FYPE: TR	k/technical required	d ER/editorial required GR/ge	neral require	d T/technical E/editorial G/g	eneral				C/ 176		Page 17 of 49
COMMEN	IT STATUS: D/dis	patched A/accepted R/rejecte	d RESPO	NSE STATUS: O/open W/wri	tten C/closed	Z/with	drawn		SC 176.4.4	.2.1	3/11/2025 10:45:2

SORT ORDER: Clause, Subclause, page, line

C/ 176	SC 176.4.4.2.1	P 295	L 39	# 167	C/ 176	SC 176.1	1	P 308	L 9	# 199	
Opsasnic	k, Eugene	Broadcom			Slavick, Je	eff		Broadcom			
Comment	Type T Con	nment Status A		(bucket)	Comment	Type TR	Comment	Status R			(bucket
Comment The in corres well a demu: Suggested Add a numbu Response ACCE Impler Cl 176 Opsasnick Comment Fix sir senter Suggested	Type T Con ndex variable "n" is used spond to how "n" is is used spond to how "n" is is used spond to how "n" is is used s marked s sentence at line 39 or pare er of PMAL input lanes." er Resp. EPT IN PRINCIPLE. ment suggested remedy SC 176.4.4.3 k, Eugene Type E Con nglular tense verb to plurance. dRemedy	nment Status A in the definition of seve ed in Figure 172-3, and would still be usful to o ay that "x" is defined in age 295 something like bonse Status C with editorial license P297 Broadcom mment Status A al for the subject conta	veral dumux vari d the generic us define "n" at the n 176.4.4.2. ee: "The index va <i>L</i> 9 aining two name	<i>(bucket)</i> ables. It does age for "m:n PMA" as introduction to the ariable n represents the # 168 <i>(bucket)</i> ed variables in this	Comment To ma assign Suggested Chang test_btest_b	Type TR ke the Claus ments to be <i>Remedy</i> ge Table 176- lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi lock_error_bi	Comment 3 e 45 register expand bin then lane rather $n_{0.7}=0$ for 1.24 $n_{0.7}=1$ for 1.24 $n_{0.7}=3$ for 1.24 $n_{0.7}=3$ for 1.24 $n_{0.7}=3$ for 1.24 $n_{0.7}=3$ for 1.24 $n_{0.7}=5$ for 1.27 $n_{0.7}=6$ for 1.27 $n_{0.7}=7$ for 1.27 $n_{0.7}=7$ for 1.27 $n_{0.7}=9$ for 1.27 $n_{0.7}=9$ for 1.27 $n_{0.7}=9$ for 1.27 $n_{0.7}=10$ for 1.27 $n_{0.7}=12$ for 1.27 $n_{0.7}=12$ for 1.27 $n_{0.7}=12$ for 1.27 $n_{0.7}=12$ for 1.27 $n_{0.7}=13$ for 1.27 $n_{0.7}=14$ for 1.27 $n_{0.7}=15$ for 1.27	Status R ndable. Chang r than lane the 500 to 12623 524 to 12647 548 to 12671 524 to 12695 596 to 12719 720 to 12743 744 to 12767 768 to 12791 792 to 12815 816 to 12839 2840 to 12863 2864 to 12887 2864 to 122911 2912 to 12915 2936 to 12959 2936 to 12959 2936 to 12983	e the ordering on bin.	of the register	(bucket
"When	n all_locked_demux and	the pcs_lanes_identif	ied_demux varia	able is true, then."	test_b	lock_error_bi	n_<0:7>_16p for 1 Response 9	.2984 to 12307	(
To: "Whei then." with e	n the all_locked_demux a ditorial license.	and pcs_lanes_identif	ied_demux varia	ables are both true,	Response REJEC The cu mean	CT. urrent allocati that registers	on nicely groups s	ets of registers vould not be ad	s by lane. The c djacent.	hanges proposed	d would
Response ACCE	e Resp EPT.	oonse Status C									

C/ 176 SC 176.11

			200	# 31		C/ 176C	SC	176C.2.1	P 702	L 6	# 267
D'Ambrosia,	John	Futurewei, U.	S. Subsidiary of	Huawei		Ran, Adee	•		Cisco		
Comment Ty	pe TR	Comment Status A			(bucket)	Comment	Туре	ER	Comment Status A		(bucket)
800GAU 20 PHYS	I's are permissa 6. The guidelin	able within 800GBASE-LR1, es in 176B.6.1 do not reflect	800GBASE-ER this.	1 and 800GB	ASE-ER1-	"Functi not the	ional s e correc	pecification ct place in	n" is 176C.2.1, below 176C.2 the hierarchy (and it is differe	which is "Erro ent from 176D)	or ratio allocation". This is
SuggestedRe	emedy					Suggested	Reme	dy			
Add sent These in	tence at end of stantiations are	last paragraph on 694: a also relevant to the 800GB	ASE-R PHY typ	es listed in Tal	ole 169-4.	Promo subcla	te "Fur uses.	nctional sp	ecification" to become 176C.	3, renumbering	g the subsequent
Response		Response Status C				Response			Response Status C		
ACCEPT	IN PRINCIPLE	Ξ.				ACCE	PT.				
Add sent "These ir 4."	tence at end of nstantiations ar	the first paragraph in 176B.6 e also relevant to the 800GE	6.1: BASE-R PHY typ	pes listed in Ta	ble 169-	C/ 176C	SC	176C.2.1	P 702	L 7	# 72
Also upd	ate diagrams a	nd text to be inclusive of the	800GBASE-EF	R1/ER1-20 PH	Y types.	Bruckman,	, Leon		Nvidia		
Impleme	nt with editorial	license.				Comment	Type		Comment Status A		(bucket)
C/ 178B	SC 178B.4	P 769	L 50	# 127		Not cle	ear why	y is the Fui	nctional specification a sub-se	ection of Error	Ratio Allocation
Dudek, Mike		Marvell				Suggested	Reme	dy			
Comment Ty	pe TR	Comment Status A			(bucketp)	Promo	te sect n in ∆n	tion "Funct	ional specification" to 176C.3	to make it co	nsistent with a similar
The PMA	A adjacent to a	PCS still has 2 interfaces, it	is just that only	one is expose	d.	Response	/		Response Status C		
SuggestedRe	emedy					ACCE	PT IN I	PRINCIPI			
Change ' paragrap	one or two intended add "Only ex	erfaces" to "one or two expos posed interfaces participate	sed interfaces." in ILT".	At the end of	the	Resolv	e usin	g the respo	onse to comment #267.		
Response	,	Response Status C				C/ 176D	SC	176D.7.2	P 730	L 51	# 180
ACCEPT		Ξ.				Swenson,	Norma	an	Point2; Infiner	а	
Change:	"Devices in a p	bath may include one or two	interfaces. An e	example of the	former is	Comment	Туре	Е	Comment Status A		(bucket)
a PMA a (Annex 1	djacent to a PC 76C) interface	CS or to a PHY XS with a sin (the interface with the PCS of pay include and or two physics	gle AUI-C2M (A or PHY XS is ne	nnex 176D) or ever exposed).'	AUI-C2C	"The pa module	arame [:] e parar	ters in Tab meters.	le 176D-7" is ambiguous, be	cause the table	e includes host and
PMD or /	AUI component	is. An example of the former	is a PMA adjac	ent to a PCS of	or to a	Suggested	Reme	dy			
PHY XS	with a single A	UI-C2M (Annex 176D) or AL	II-C2C (Annex 1	76C) interface	(the	Chang	e "The	e paramete	rs in Table 176D-7" to "The h	ost parameter	s in Table 176D-7"
At the be	ainning of the f	first paragraph in 178B.x add	y-instrantiated). I the following s	entence:		Response			Response Status C		
"The ILT	function is use	d by the AUI component or I	PMD at each en	d of a physica	lly-	ACCE	PT IN I	PRINCIPL	Ε.		
instantiat Impleme	ted interface." nt with editorial	license.				It is as Table ²	sumed 176D-6	d that the c 6, rather th	omment refers to the third pa an Table 176D-7).	ragraph of 176	6D.7.2 (which points to
						Change	e "The	paramete	rs in Table 176D-6" to "The h	ost parameter	s in Table 176D-6".

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/ 176D SC 176D.7.2

C/ 176D	SC 176D.7.2	P 731	L18	# 181	C/ 176D	SC 176D.8.	12.2 P74	11 L18	# 185
Swenson,	Norman	Point2; Infinera	a		Swenson,	Norman	Point2	2; Infinera	
Comment	Туре Е	Comment Status A		(bucket)	Comment	Type E	Comment Status	R	(withdrawn)
The te 178A. Device	erminology in the ta 1.4, the blocks con e Package and Par	ble should align with the tern oprising the Tx and Rx S-par tial host channel (optional).	ninology in 178 ameter model a	A for clarity. Per are: Device termination,	"appro Suggested	ximated solution Remedy	n" is awkward or typo.		
Suggested	lRemedy				Deemana			_	
Chang	ge "Device model"	to "Device termination mode	I for Host and N	lodule"	Response	` T	Response Status	Z	
Response		Response Status C			REJEC	J.			
ACCE In Tab	PT IN PRINCIPLE le 176D-6, Change ment similarly in Ta	= "Device model" to "Device = 178-12 Table 179-16 a	termination mo	del".	This co	SC 177 3	ITHDRAWN by the co	mmenter.	# 204
Implei	The fit Similarly in Ta	able 170-12, Table 179-10, a		7.			7 J	L43	# 204
Apply [CC 17	the corresponding 78, 179, 176C, 176	changes in all references to D]	these tables, w	rith editorial license.	Comment	Type TR	Comment Status	R	(withdrawn)
C/ 176D	SC 176D.7.2	P 731	L 25	# 182	The be SIGNA	havior of the tx L_OK is define	_symbol and rx_symbol and r	ol is specified in 182	.3 but the behavior of
Swenson,	Norman	Point2; Infinera	ì		Suggested	Remedy			
Comment	Туре Е	Comment Status A		(bucket)	In 182	.3 make the 3rd	paragraph a sub-sect	ion titled "PMD serv	ice interface UNITDATA"
The te	erminology in the ta	ble should align with the terr	ninology in 178	A for clarity.	and th	e last two parag	raphs a sub-section "F	MD service interfac	e SIGNAL_OK". In 177.3
Suggested	lRemedy				add th behavi	or is defined in	177.3.1.	nce with the excep	tion that the SIGNAL_OK
Chang	je "Host package r	nodel" to "Device package m	odel for Host"						
Response		Response Status C			Make	a new sub-head hing in 177 3 bu	ling named PMD servio	ce interface SIGNAL	_OK that contains the
ACCE The co Chang where	PT IN PRINCIPLE omment identifies a ge all instances of ' necessary, to "dev	an inconsistency that should 'package" referring to the de <i>v</i> ice package".	be addressed. vice package m	nodel in 178A.1.4,	Response REJE(CT.	Response Status	Z	
Implen	nent throughout th	e draft with editorial license.			This co	omment was W	ITHDRAWN by the co	mmenter.	
	76, 179, 1760, 176	D, 170A, 179A]			C/ 177	SC 177.4.1	P 3 1	6 L 30	# 189
C/ 176D	SC 176D.7.2	P 731	L 37	# 183	Slavick, Je	eff	Broad	com	
Swenson,	Norman	Point2; Infinera	a		Comment	Туре Т	Comment Status	R	Skew (bucket)
Comment The te	<i>Type</i> E erminology in the ta	Comment Status A ble should align with the term	ninology in 178	<i>(bucket)</i> A for clarity.	Why d 800G/	o we call out tha 1.6T if no deske	at 200/400G don't alter ew of the data is neede	the data stream? T	hat is also possible for
Suggested	Remedy				Suggested	Remedy			
Chang	ge "Module packag	e model" to "Device package	e model for Mod	dule"	Chang	e ", the data str	eam is not altered" to	only the identificatio	on of the RS-symbol
Response		Response Status C			Resnonse	ary 10 1100000001	Response Status	c	
ACCE Resolv	PT IN PRINCIPLE ve using the respon	nse to comment #182.			REJE For 20	CT. 0G/400G, the d	ata stream is not alter	ed under any circum	istances.
TYPE: TR/ COMMEN	/technical required T STATUS: D/disp	ER/editorial required GR/g atched A/accepted R/rejec	eneral required ed RESPON	T/technical E/editorial G/ SE STATUS: O/open W/w	general ritten C/closec	IZ/withdrawn		C/ 177 SC 177.4.1	Page 20 of 49 3/11/2025 10:45:27 P

SORT ORDER: Clause, Subclause, page, line

C/ 177	SC 177.4.1	P316	L 35	# 172
Opsasnic	k, Eugene	Broadcom		
Comment	Туре Т	Comment Status A		(bucket)
177.4 the fir sub-b	.1 text refers to t st few blocks in ock.	he figure 177-3 as an illustrati theis figure but does not say a	ion and has a sho anthing abou the	ort introduction for the "Symbol multiplexing"
Suggeste	dRemedy			
Add a 177.4 multip	short descriptio .1. Something ill lexing function.	n of the Symbol multiplexing t ke: "After deskew, the PCS lar	block at the end ones are recombined	of the last paragraph in led by the symbol
Response	9	Response Status C		
ACCE	PT.			
C/ 177	SC 177.4.1.	2 <i>P</i> 317	L 31	# 124
Dudek, M	ike	Marvell		
Comment	Туре Е	Comment Status A		Skew Value
The th	nought is "as def	ined in 175.2.5.1 except that .	"	
Suggeste	dRemedy			
Movo	the comma's so	that "For 800CBASE-P PHV	a ofter alianmen	marker lock is

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	P 317	L 36	# 77
Huang, Ke	chao		Huawei		
Comment 7	Гуре	т	Comment Status A		Skew value

The maximum skew of 25ns for 1.6TBASE-R PHYs is not included in Table 174-5, should refer to sub-clause "182.4.2.2 Skew constraints for 800GBASE-DR4-2 and 1.6TBASE-DR8-2"

SuggestedRemedy

Change "see Table 174-5" to "see 182.4.2.2"

Response Response Status C

ACCEPT IN PRINCIPLE.

SP2 and SP5 are only applicable if there is a physically instantiated interface at the PMD service interface. There are no physically instantiated PMD service interfaces defined for 1.6TBASE-R PHYs at this time, nor any other PHYs defined in the 802.3dj project.

Therefore, the values for SP2 and SP5 are undefined for both 800GBASE-R and 1.6TBASE-R PHYs. The 25ns skew limitation came from table 169-5 as a conservative value, but is not applicable to PHYs using the Inner FEC sublayer.

Change the first paragraph of 177.4.2.1 as follows:

From:

"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 (see Table 169-5)."

To:

"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, with the exception that the maximum Skew to be removed is the Skew at SP1 plus the Skew added by the PMA above the Inner FEC."

Change the second paragraph of 177.4.2.1 as follows:

From:

"For 1.6TBASE-R PHYs, after alignment marker lock is achieved on each of the two PCSLs in an input stream, Skew between PCSLs is removed as defined in 175.2.5.1, except that a maximum Skew of 25 ns is supported between PCS lanes (see Table 174-5)."

To:

"For 1.6TBASE-R PHYs, after alignment marker lock is achieved on each of the two PCSLs in an input stream, Skew between PCSLs is removed as defined in 175.2.5.1, with the exception that the maximum Skew to be removed is the Skew at SP1 plus the Skew added by the PMA above the Inner FEC."

C/ 177 SC 177.4.1.2 Page 21 of 49 3/11/2025 10:45:27 PM

C/ 177	SC 177.4.1.4	P 317	L 53	# 174	C/ 177	SC 177.4.2	2	P 318	L 9	# 191
Opsasnick	k, Eugene	Broadcom			Slavick, Je	əff		Broadcom		
Comment	Туре Т	Comment Status A		(bucket)	Comment	Туре Т	Comment S	Status A		(bucketp)
This N the 80 The re	IOTE is kind of tri 0G and 1.6T PM eal reason is that	ue but not real reason the fun As above the Inner FEC also 200/400G PHYs do not requi	ction is not req output lanes w re additional d	uired for 200G/400G ith 4-way interleaving. eskew between PCS	The po talking or 1 or	osition of Q in t about a Q RS r 0	the equation runs S-FEC potentially.	in to the RS- Plus then i	FEC symbols so t's the length "4	o it seems like we're * Q" of the line times 2
lanes.					Suggested	lRemedy				
Suggested	Remedy				Make	Q the second	operand in the eq	uations so it's	s 4 x Q x 2 and 4	x Q x 1 RS-FEC
Remo that d	ve this NOTE from	m 177.4.1.4 and add a NOTE	to the end of 1	77.4.1.2 that mentions	symbo	bls				
Inner I	FEC already desi	kews the PCS lanes within PM	A lane to a 4-	codeword boundary.	Response		Response S	tatus C		
Response	,	Response Status C		, , , , , , , , , , , , , , , , , , ,	ACCE	PT IN PRINCI	PLE.			
ACCE Impler	PT IN PRINCIPL	E. ed remedy with editorial licens	se.		The nu descri	umber '3' shou ption more cle	ld be spelled out ar.	and the sugg	ested remedy al	so makes the
C/ 177	SC 177.4.2	P318	L 6	# 78	Chanc	1e:				
Huana, Ke	echao	Huawei			"The c	convolutional ir	nterleaver is comp	osed of 3 de	lay lines. The fire	st line (Delay Line 0)
Comment	Type T	Comment Status A		(bucket)	delays	the data by 4	× 2 × Q RS-FEC	symbols, the	e second line (De adds no delay "	elay Line 1) by $4 \times 1 \times Q$
The tit	le of subclause 1	77.4.1 has been changed to "	Symbol demul	tiplexing and deskew"					ado no delay.	
<i>Suggested</i> Chang deske	<i>IRemedy</i> je "alignment locl w process (see 1	< and deskew process (see 17 77.4.1)"	7.4.1)" to "syn	nbol demultiplexing and	To: "The c the da FEC s	convolutional ir ta by $2 \times Q \times 4$ symbols, and th	nterleaver contain 4 RS-FEC symbo ne last line (Delay	s three delay ls, the second Line 2) adds	lines. The first li d line (Delay Lin no delay."	ne (Delay Line 0) delays e 1) by 1 × Q × 4 RS-
Response		Response Status C			C/ 177	SC 177 4 2	>	P318	/ 34	# 47
ACCE	PT.				Bruckman		-	Nvidio	234	π +1
01 477	00 477 4 0	Data	17	# 000	Commont		Commont			annyalutional interlacyor
C/ 1//	SC 177.4.2	P318	LI	# 203	Comment The re	<i>Type</i> IR	Comment of	of the input of	and output switch	convolutional interleaver
Slavick, Je	eff	Broadcom			not de	fined.	ween the position			
Comment	Type TR	Comment Status A		(bucket)	Suggester	Remedv				
Add no covolu	ote that when PR itioner interleaver	BS31 payload mode is enable is chosen by implementation	ed the data bou	undary fed into the	Add th	ne following set	ntence at the end	of the parag	raph: "The input	and output switches are
Suggested	Remedy				Response	e anglied to the	Posnonso S	tatus C		
At the mode unspe	end of the first pa (see 177.4.9.1), t cified."	aragraph add "When using P he selection of the RS-FEC s	RBS31 encode ymbol-quartet	ed by the Inner FEC test boundary position is	ACCE	PT IN PRINCI	PLE.			
Response		Response Status C			Impler	ment the sugge	ested remedy with	editorial lice	nse.	
ACCE Impler	PT IN PRINCIPL	E. 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 177.4.2 Page 22 of 49 3/11/2025 10:45:27 PM

C/ 177	SC 177.4.4	4 P 319	L 4	# 79	C/ 177	SC 177.4.7	P 321	L 32	# 252
Huang, K	echao	Huawei			Ran, Adee	9	Cisco		
Comment	tType E	Comment Status A		(bucket)	Comment	Туре Т	Comment Status A		(bucket)
The v	vord "Shift" sho	uld be changed to "shift"			The ra	tio listed here is	s between the line rate (includi	ng pad) and the	nominal data rate after
Suggeste Chan	<i>dRemedy</i> ge it as sugges	ited			for the	actual rate.	excluding pau). The fatto holds		
Response ACCE	e EPT.	Response Status C			Comm bit rate ratio h	nent #285 again as at the input a as practical imp	st D1.3 requested to add a rat nd output (in the transmit direc portance for implementations.	o, but the intent ction) of the inne	t was the ratio between er FEC sublayer. This
C/ 177	SC 177.4.7	7 P 321	L 29	# 48	The in	ner FEC additio	on of parity bits results in a ration	o of 128/120. Tł	ne addition of pad bits
Bruckma	n, Leon	Nvidia			multipl	lies this ratio by	1089/1088. The total ratio is t	he product of th	ese ratios, which is
Comment	tType TR	Comment Status A		(bucket)	Suggastas	+0. /Pomodu			
The s	entence: "The	first pad insertion will happen ri	ight at the begin	ning of Inner FEC	Appen	interneuy	sentence.		
Code		ear, which inner FEC codewor	as ? which is	the first pad insertion"?	"The b	pit rate after pad	insertion is 363/340 of the bit	rate of the tx_sy	ymbol stream at the
Suggeste	urtenieuy ifv what "first na	ad insertion" means and which	"Inner EEC code	ewords" vou are	Inner I	-EC service inte	erface."		
referr	ing to.				Response		Response Status C		
Response)	Response Status C			ACCE	PT IN PRINCIP	LE.		
ACCE The r Delet	EPT IN PRINCI eferenced sent e the following FEC codeword	PLE. ence is not necessary to accurs sentence: "The first pad inserti ls."	ately specify the on will happen ri	behavior. ight at the beginning of	The su "nomir Chang To: "Ti after p	uggested remed nal rate". ge: "The ratio be he ratio between ad insertion is 3	ly is an improvement. But the performent is an improvement. But the performent is the table of table	and after pad in insertion is 108 symbol stream	ce should not refer to nsertion is 1088/1089." 38/1089. The bit rate n at the Inner FEC
					service	e interface."			
					Impler	ment with editori	ial license.		
					C/ 177	SC 177.4.9.	2 P323	L 50	# 49
					Bruckman	, Leon	Nvidia		
					Comment	Type TR	Comment Status R		(bucket)
					Text s	hall indicate how	w the test pattern is enabled.		
					Suggested	Remedy			
					Add th patterr Add si	ne following sent n generator is en milar sentences	tence to the end of the section nabled by the PRBS13Q_patte s to sections 177.4.9.3 to 177.4	: "If supported tl ern_enable i con 4.9.5	he PRBS13Q test trol variable."
					Response		Response Status C		
					REJE(This is	CT. already covere	ed in 120.5.11.2.1.		

C/ 177 SC 177.4.9.2 Page 23 of 49 3/11/2025 10:45:27 PM

C/ 177	SC 177.4.9.4	P 324	L 8	# 253	C/ 177	SC 177	7.5.3	P 325	L 35	# 50
Ran, Adee		Cisco			Bruckman	, Leon		Nvidia		
Comment SSPR Due to externa	Type T Con Q generation is defined the inner FEC encoder, al generator.	nment Status A as optional. , there is no way to ha	ave SSPRQ at th	PRBS requirements ne PMD output with an	Comment Wrong Suggested	Type E singular in IRemedy	R (Comment Status A		(bucket)
Curren other c must b	tly, per Table 183-13, suption. Since this pattern e mandatory. An impler	everal optical parame a can only be generat nentation that does n	ters require SSF ed by the inner F ot include it can	PRQ generation with no FEC, its implementation not be tested.	Chang To: "T <i>Response</i>	je: "The Ini he Inner Fl	ner FEC co EC codewo <i>R</i> i	odeword boundaries fo ord boundaries found l esponse Status C	bund by synchronization a	ation is used" are used"
Alterna power a lot of	tively, the optical tests f excursion could be rede work and is not a low-h	for TDECQ, TECQ, o fined with other test anging fruit.	vershoot/unders patterns; howeve	hoot, and transmitter er, this will likely require	ACCE C/ 177	PT. SC 17 7	7.5.6	P 326	L 34	# 125
Suggested	Remedy				Dudek, Mi	ke		Marvell		
Chang "The Ir test-pa to "The Ir pattern	e nner FEC may optionally ttern generator" nner FEC shall include a generator".	r include a short stres	s pattern randor random quatern	n quaternary (SSPRQ) ary (SSPRQ) test-	Comment one bi Suggested Corred	<i>Type</i> E t errors" sh <i>IRemedy</i> ct it.	iould be "o	Comment Status A		(bucket)
Response ACCEI Implen	Resp PT IN PRINCIPLE. Thent the suggested remo	oonse Status C edy with editorial lice	nse.		ACCE	PT.	756	P327	/ 6	# 51
C/ 177	SC 177.5.2	P324	/ 49	# 202	Bruckman	leon	.0.0	Nvidia	20	" 51
Slavick, Je Comment	ff Type T Con attern functions are trad	Broadcom mment Status A itionally placed at the	L 17 end of the proce	7 structure - test patterns ess after all the mission	Comment Bin co Suggested	<i>Type</i> T unters are <i>IRemedy</i>	R C 0 to 3, not	Comment Status A 1 to 3		(bucket)
Suggested	Remedy				Chang	је: "(к = 1 1	:0 3)" to: "(I	x = 0 to 3)"		
Move 7	Fest pattern checker set	ion to last sub-clause	of receive path		Response			esponse Status C		
Response ACCEI	Resp PT IN PRINCIPLE.	oonse Status C			Resol	/e using th	e response	e to comment #24.		
The co be mov	nsensus of the CRG is ved to a separate subcla	that the test pattern g ause out of the function	enerator/checke onal Tx and Rx c	er descriptions should lescriptions.						
Move t the nor	he test pattern generator mal dataflow description	or and checker descri n.	ptions to their ov	vn subclause outside						
Make a	a similar change in claus	se 184.								
Implen	nent with editorial licens	e.								
TYPE: TR/ COMMENT	technical required ER/e STATUS: D/dispatche	editorial required GR d A/accepted R/reje	general required	I T/technical E/editorial G/g NSE STATUS: O/open W/wr	general itten C/closed	d Z/withdra	awn	CI SC	177 177.5.6	Page 24 of 49 3/11/2025 10:45

SORT ORDER: Clause, Subclause, page, line

27 PM

C/ 177	SC 177.5.6	P 327	L 7	# 24	C/ 177	SC 177.9	P333	L16	# 52
Brown, Ma	att	Alphawave Se	emi		Bruckman	, Leon	Nvidia		
Comment	Туре Т	Comment Status A		(bucket)	Comment	Type TR	Comment Status A		(bucket)
A cour way to	nter to count code derive this bin.	ewords with no corrected erro	ors is required s	ince there is no other	Preco	ding control vari	ables are missing from the M	DIO tables	
Suggested	IRemedy				Suggested Add pr	recoder tx out	enable i to Table 177-7		
Chang	je "k = 1 to 3" to '	'k = 0 to 3" and update Table	177-8 and Cla	use 45 accordingly.	Deenenee	lecodel_tx_out_			
Response		Response Status C			Response		Response Status C		
ACCE	PT IN PRINCIPL	E.			Impler	nent the sugges	LE. Sted remedy with editorial licer	nse.	
Althou sugges Implen	gh bin 0 could be sted approach is nent the suggest	e derived from the other bins cleaner. ed remedy.	and Inner_FEC	_total_bits_counter, the	Cl 177 Bruckman	SC 177.9	P 333 Nvidia	L 40	# 53
Also, c	change "A set of	three 32-bit counters" to "A s	et of four 32-bit	counters" on line 5.	Comment	Type TR	Comment Status A		(bucket)
C/ 177	SC 177.5.6	P 327	L 9	# 25	In Tab	le 177-8. there	are 4 bin counters (0 to 3), las	st bin is missina.	Also, it is hard to
Brown, Ma	att	Alphawave Se	emi		unders	stand how the b	in counters 0 to 3 are assigne	ed.	,
Comment	Туре Т	Comment Status A		(bucket)	Suggested	Remedy			
For Inr that all proces	ner_FEC_codewo l codewords are a ssed exactly one	ord_error_bin_k and Inner_Fl accounted and only once eac of these bins is incremented.	EC_uncorrected ch, add stateme	d_cw_counter, to ensure nt for each codeword	Add re Consid 184-5	eference to 1.24 der having a row	30 and 1.2431, update referen v for each bin counter, similar	nces for each of to the way they	the other 7 lanes. are refernces in Table
Suggested	lRemedy				Response		Response Status C		
Add a Inner_ Add a	new sentence "F FEC_codeword_ similar statemen	or each codeword processed error_bin_k or Inner_FEC_ur t in 184.5.7.	d, exactly one c ncorrected_cw_	ounter in counter is incremented."	ACCE The su numbe	PT IN PRINCIP uggested remed ers for all FEC c	LE. ly is a good improvement. Thi counters for lanes 1 to 7 in Tal	s also means the ble 177-8 are sh	at the MDIO register ifted/incorrect. Note
Response ACCE	PT.	Response Status C			that th 1.2434	e MDIO register 4 and 1.2435 (no	r numbers for Inner_FEC_corr ot 1.2430 and 1.2431).	rected_cw_coun	ter (lane1) should be
C/ 177	SC 177.6.2	P 327	L 34	# 190	Add re a row t	eference to 1.24 for each bin cou	30 and 1.2431, update referent inter, similar to the way they a	nces for each of are references in	the other 7 lanes. Make Table 184-5.
Slavick, Je	eff	Broadcom			Fix the	e register referei	nce for Inner_FEC_corrected_	_cw_counter (lar	ne1) and all following
Comment Missin	<i>Type</i> TR g that ++ means	Comment Status R increment by 1		(withdrawn)	MDIO	register numbe	rs for Inner FEC counters for	lanes 1 to 7 as a	appropriate.
Suggested	o IRemedy	,			Impler	ment with editori	ial license.		
Add th variabl	e following the selected the selected to the s	entence to first paragraph "TI ts value is to be incremented	he notation ++ ; l by 1."	after a counter or integer					
Response		Response Status Z	,						
REJEC	CT.								
This co	omment was WIT	THDRAWN by the commente	er.						

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

C/ 177 SC 177.9 Page 25 of 49 3/11/2025 10:45:27 PM

C/ 178	SC 178.2	P 344	L1	# 132	C/ 178	SC 17	78.8.2	P346	L 44	# 187
Dudek, Mik	e	Marvell			Swenson,	Norman		Point2; Ir	nfinera	
Comment T	<i>уре</i> т	Comment Status A		error ratio	Comment	Туре	E	Comment Status A		(bucket)
It is ver 174A.7	y convoluted to	o find what the block error ratio	specification is	from the reference to	With th transm	he comm nit functio	a after M n of 179	ADI, this sentence reads 0.8.2 are not delivered to	like the electrical s the MDI. I believe	ignals from the PMD the exception is that
SuggestedF	Remedy					iey are u	elivered	to the MDI according to	the 176.9.2.7.	
Change	e "A PMD rece	iver is expected to meet the blo	ock error ratio sp Raddod ogual t	pecifications in 174A.7,	Suggested	iRemeay	mma of			
PMD re measur the equ	ed at the PMP ed at the PMP ivalent change	cted to meet the block error rate λ adjacent to the PMD, with BE a djacent to the PMD, with BE b in clauses 179 to 183 and any attic is the same value of 1.45e.	io of 1.45e-11 a Radded equal to nexes 176C and 11 for all these	Is described in 174A.7, $0.1.6 \times 10-5.$ Make 1.176D. (Note the clauses and annexes)	Response ACCE	PT IN PF		Response Status C E.		
Response		Response Status C			Resolv	ve using t	he resp	onse to comment #255.		
ACCEP	T IN PRINCIF	PLE.			C/ 178	SC 17	78.8.2	P346	L 44	# 255
Resolve	e using the res	ponse to comment #155.			Ran. Adee	e		Cisco		
/ 178	SC 178.2	P 344	L 4	# 133	Comment	Туре	ER	Comment Status A		(bucket)
udek, Mik	е	Marvell			In "are	e delivere	d to the	MDI, according to the tra	ansmit electrical sp	ecifications in"
omment T	уре Т	Comment Status A		error ratio	The co	omma is o	out of pl	ace. "according" is linked	d to "delivered".	
It is coi 174A.8	nvoluted to fin	d what the block error ratio spe	cification is from	n the reference to	Also ir	n 178.8.3				
uaaestedF	Remedy				Suggested	Remedy				
Change	the reference	e from 174A.8 to 174.8A.8.1.4.	Make the equ	ivalent change in	Delete	e the com	mas in t	both places.		
clauses	179 to 183		·	Ū	Response			Response Status C		
esponse		Response Status C			ACCE	PT.				
ACCEP	PT IN PRINCIP	PLE.			C/ 178	SC 17	78.8.3	P 346	L 49	# 256
[Editor's	s note: CC: 17	8 to 183]			Ran, Adee	e		Cisco		
Resolve	e using the res	ponse to comment #155.			Comment Incorre	<i>Type</i> ect refere	ER nce to 1	Comment Status A 78.9.2.7		(bucket)
/ 178	SC 178.8	P 347	L 29	# 175	Suggested	Remedy				
psasnick,	Eugene	Broadcom			Chang	ge to 178.	9.3.			
omment T	туре т	Comment Status A		(bucket)	Response			Response Status C		
The PM	1D reset function	on subclause is missing from th	ne 178.8 set of l	PMD funtions.	ACCE	PT.				
uggestedF	Remedy									
Subclau functior	use 178.8.10 " nality with sam	PMD reset function" should be e title and text as 179.8.10	added to descr	ibe the PMD reset						
esponse		Response Status C								
ACCEP	Ϋ́Τ.	-								
YPE: TR/to COMMENT	echnical requi STATUS: D/d ER: Clause. S	red ER/editorial required GR/g lispatched A/accepted R/rejec Subclause, page, line	general required	I T/technical E/editorial G/g ISE STATUS: O/open W/wi	general ritten C/closed	d Z/withd	rawn	CI SC	178 C 178.8.3	Page 26 of 49 3/11/2025 10:45:/

C/ 178	SC 178.8	8.9	P 387	L 40	# 129	Cl 178	SC	178.9.2	P 348	L13	# 257	
Dudek, M	like		Marvell			Ran, Adee)		Cisco			
Comment	Type TR	Con	nment Status R		ILT defaults	Comment	Туре	Е	Comment Status A		(bucket)	
Anne: specii up de	x 178B has b ficy the detail faults.	een written (s however th	generically so that the nese clauses and an	e PMD clauses a nexes are not sp	and AUI annexes ecifying the initial bring	In Tab 176D- Suggester	le 178-6 1 it is a IRemed	6, DC corr range, wh	nmon-mode voltage has max a nich is more readable.	and min in sep	arate rows. In Table	
Suggeste	dRemedy					Chang	ie to a r	ange in a	single row as in Table 176D-1			
Add to 176D PAM2	o the ILT fund . "The defau 2 encoding ar	ction sub cla It settings u Ind the Initiali	uses for clauses 178 sed after reset or por ze coefficient initial	and 179 and ar wer up is free run conditions" Fo	nnexes 176C and nning PRBS31 with or clauses 180 to 184	Response ACCE	PT.		Response Status C			
runnir	ng PRBS31 w	ith PAM4 er	ncoding without prece	oding"	reset of power up is free	C/ 178	SC	178.9.3.4.	3 P354	L 25	# 54	
Response	9	Resp	oonse Status C	-		Bruckman	, Leon		Nvidia			
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 Figure 178B–10 (Coefficient update state diagram).					e modulation to PAM2 (see Figure 178B–8)." OUT_OF_SYNC state	Comment Type ER Comment Status A Missing space SuggestedRemedy Change: "174A.7.1 or" Response Response Status C						
C/ 178	SC 178.9).2	P 348	L 9	# 225	ACCE	PT.					
Dawe, Pie	ers		Nvidia			CL 479A	50	170 4 7	D750	1.24	# 470	
Comment Incon	<i>Type</i> ER sistency	Con	nment Status A		(bucket)	Swenson,	Normai	י יסא.ו.י ח	Point2; Infinera	L 24	# 179	
Suggeste Chan	<i>dRemedy</i> ge "Differenti	al pk-pk volt	age" to "Differential p	beak-to-peak vol	tage"	<i>Comment</i> Formu	<i>Type</i> Ila for no	T ormalized	Comment Status A frequency is wrong		(bucket)	
Response ACCE	e EPT IN PRIN	Resp CIPLE.	oonse Status C			Suggested Chang	<i>lRemed</i> ∣e ∖pi=f_	ly _b/2 to ∖the	eta=2∖pi f/f_b			
There	e are 3 instan	ces of "pk-pl	k" in the draft, but for	clarity, it is pref	erable to use "peak-to-	Response			Response Status C			
реак Chan [CC 1	consistently. ge "pk-pk" to 78, 179, 176	"peak-to-pe D]	ak" in Table 178–6, ⊺	Гаble 179–12, ar	nd Table 176D-11.	ACCE Chang freque Note tl clearly	PT IN F le "is no ncy 2*p hat the show t	PRINCIPL ormalized i*f/fb with two definit he relation	E. frequency in the range [-pi, pi) range [-pi, pi)" with editorial lic tions are functionally equivaler hship between normalized and	where pi = fb, cense. ht but this cha l absolute freq	/2" to "is normalized nge is expected to more juency.	

C/ 178A SC 178A.1.7

C/ 178B	SC 178B	P 769	L18	# 223	C/ 178B	SC 178B.6.3.2	P776	L 6	# 278
Dawe, Piers	6	Nvidia			Ran, Adee		Cisco		
Comment T	ype TR	Comment Status R		(bucketp)	Comment 7	ype TR	Comment Status A		(bucket)
This an	nex does not me	ention Auto-Negotiation at all	!		Comma	a before "during II	T" is not required.	lal la sulla sulla sulla su fac	a fa far sell a sa llaborat a sa
SuggestedF	Remedy		70 AN		Also, IL transmi	ission of training f	ot a period or a state. It cou frames".	Id be "during tra	aining" or "during
Explain	the interaction t	between this annex and Clau	se 73 AN		Suggested	Remedy			
Response REJEC	т.	Response Status C			Delete term, w	the comma, and or ith editorial licens	change "during ILT" to "durii se.	ng training" or a	another appropriate
There is	s no direct intera	ction between AN and ILT.	N determines w	which HCD PHY type to	Response		Response Status C		
OK beforis all ca	pre the link_fail_ ptured in the AN	inhibit_timer expires then the arbitration state diagram Fig	en AN restarts th gure 73-11.	e whole process. This	ACCEF Delete	PT IN PRINCIPLE	change "during ILT" to "durin	ng training", wit	th editorial license.
C/ 178B	SC 178B.5.2	P 772	L 24	# 74	C/ 178B	SC 178B.7	P 778	L 27	# 275
Bruckman,	Leon	Nvidia			Ran, Adee		Cisco		
Comment T	ype ER	Comment Status A		(bucket)	Comment 7	ype ER	Comment Status A		(bucket)
In Figur	e 178B-2 missir	ig parenthesys closing in US	E_TX_CLOCK(I	recovered	Stray s 4 instar	pace in "free -run nces	ning PRBS31"		
SuggestedF	Remedy				Suggestedl	Remedy			
Change 178B-2	e : "USE_TX_CL	OCK(recovered" to: "USE_T	X_CLOCK(reco	vered)" twice in Figure	Change	e to "free-running	PRBS31", 4 times		
Response		Response Status C			Response		Response Status C		
ACCEP	·Т.				ACCEF			DRS21" in Tabl	oc 179B 2 179B 2
C/ 178B	SC 178B.6.3.	1 P 776	L1	# 277	178B-4	and 178B-5.	RB331 to. nee-fullining Fr		es 1766-2, 1766-3,
Ran, Adee		Cisco			C/ 178B	SC 178B.11	P 785	L 27	# 128
Comment T	ype T	Comment Status A		(bucketp)	Dudek, Mik	e	Marvell		
"The las	st two symbols o	f the training pattern are "0"	symbols"		Comment 7	ype TR	Comment Status A		References
The len	gth of the trainin	g pattern is not mentioned ir	this subclause	(synchronous PRBS13	The ref AUI's.	erence to 179.9.4	1.5 leads to a specific set o	of ranges that a	are different for different
going b	ack to the trainir	ng frame structure).			Suggested	Remedy			
A simila	ar requirement is	stated in the third paragraph	of the parent s	ubclause 178B.6.3. It is	Change	e "(see 179.9.4.1.	5)" to " see e.g. 179.9.4.1.5	"	
more de	etailed and well-	defined, and it makes this sta	atement redunda	ant.	Response		Response Status C		
SuggestedF	Remedy				ACCEF	T IN PRINCIPLE			
Delete t	the quoted sente	ence.			change	"(see 179.9.4.1.5	5)"		
Response		Response Status C			to "(see	e 179.9.4.1.5 as a	n example)"		
ACCEP	ΥT.								

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	178B
SC	178B.11

C/ 178B	SC 178B.14.2	.1 <i>P</i> 786	L 43	# 276	C/ 178B	SC 178B.14.	2.1 P787	L 22	# 18
Ran, Adee		Cisco			Brown, Ma	tt	Alphaway	ve Semi	
Comment T	ype TR	Comment Status A		Variables	Comment	Гуре Т	Comment Status R		(withdrawn)
The def which is The def depend sufficier	initions of adjace not defined. initions include S s on where the II ntly clear.	ent_remote_rts and adjace SIGNAL_OK, but the prim _T is. The NOTE under th	ent_isl_ready refe itive from which the e definition helps	er to "the other interface", his parameter is taken somewhat, but it is not	reset is whene PMD_r when F think th	defined as "Bo ver a reset is ne eset for PMDs a PMA_reset is tru re latter. For PM	olean variable that contro cessary including when in and during power on." Wh e? Would that be the ma ID_reset, does that mean	bls the resetting of nitiated by PMA_re nen initiated by PM nagement variable when it is true?	the device. It is true eset for AUI components, A_reset; does that mean or the state variable? I
SuggestedF	Remedy				Suggested	Remedy			
A detail https://v pdf . Implem	ed presentation v vww.ieee802.org ent the proposal	was given in the ad hoc te /3/dj/public/adhoc/optics// in slide 8 of 3dj_adhoc_0	eleconferemce, se 0225_OPTX/ran_ 1a_250220, with	ee 3dj_adhoc_01a_250220. editorial license.	Reword whene AUI co on."	d as follows: "Bo ver a reset is ne mponents, wher	polean variable that contro cessary including when F n PMD_reset management	ols the resetting of PMA_reset manage nt variable is 1 for	the device. It is true ement variable is 1 for PMDs, and during power
Response		Response Status C			Response		Response Status Z		
ACCEP	T IN PRINCIPLE				REJEC	T.			
Implem https://v	ent the proposal vww.ieee802.org	in slide 8 of the following /3/dj/public/adhoc/optics/	contribution with 0225_OPTX/ran_	editorial license. 3dj_adhoc_01a_250220.	This co	mment was WI	THDRAWN by the comm	nenter.	
par					C/ 178B	SC 178B.14.	3 P 789	L10	# 279
[Editor's	note: Changed	page from 768 to 786.]			Ran, Adee		Cisco		
C/ 178B	SC 178B.14.2	.1 P787	L 8	# 222	Comment	Type E	Comment Status A		(bucket)
Dawe, Piers	3	Nvidia			Missin	g period at the e	nd of the last paragraph	of the subclause (a	after "precoding").
Comment T	ype TR	Comment Status R		AN/LT timers	Suggested	Remedy			
This say	ys "There is no s	pecified time limit for the	ILT protocol", whi	ch is misleading	Add a	period.			
Decause	e it seems the Ci	ause 73 link_tail_innidit_t	imer will override	IT.	Response		Response Status C		
SuggestedF	Remedy				ACCEI	PT.			
Also in	the misinformati 178B.5.1.	on.							
Response		Response Status C							
, REJEC	Т.								
The cor "NOTE ILT sho of unred this ann	nment is referrin — There is no s uld only be resta coverable fault is ex."	g to the following note: pecified time limit for the l rted if there is an indication beyond the scope of	LT protocol. To a on of an unrecove	void live-lock situations, rable fault. The definition					
The sug consens	gested remedy or sus to make the	does not provide sufficien proposed changes.	t detail to implem	ent. There is no					
[Editor's	s note: The page	was changed from 783 to	o 787.]						

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

C/ 178B SC 178B.14.3 Page 29 of 49 3/11/2025 10:45:27 PM

C/ 178B	SC 17	8B.14.3.1	P 789	L 53	# 280		C/ 178B	SC 178B.14	.3.5	P 793	L 20	# 282
Ran, Adee	•		Cisco				Ran, Adee			Cisco		
Comment	Туре 1	Comme	ent Status A			(bucket)	Comment 7	<i>уре</i> т	Comment S	tatus R		AN/LT timers
local_r true wi This is	x_ready s th the initi currently	hould be conditio al PAM2 modulat mentioned in 178	nal on receiving a ed signal). B.6.3 but only in a	PAM4 signal (ot NOTE (making	herwise it can it informative)	be set to	There r be done Since a	nay be a desire by adding a ti local device de poly during the	to limit the time mer that would b bes not control t	e consumed b be accessible he timing of the state	by the adaptation by management he link partner, th	part of ILT. This can ne timer should be
Suggested Chang "when	<i>Remedy</i> e from the receiv	ver on a lane of th	e interface has de	termined that the	e ISL partner's		The tim manage	er period shou ement, with per	d be set by the haps a recommendation	invoking claus endation in th	se, and should be le standard.	e a configurable by
transm	itter is no	t disabled <>"					Suggested	Remedy				
to "when transm	the receiv hitter is tra	ver on a lane of th nsmitting a PAM4	e interface has de l signal <>"	termined that the	e ISL partner's	;	Modify In the T In the T	Figure 178B–8 Train Local state Train Remote st	, adding a timer, e, add "start trair ate, add "stop tr	as follows: ning_timer". aining_timer"		
Response		Respon	se Status C				Add a r	new timer defini	tion in 178B 14	3.3.		
ACCEI	PT IN PRI	NCIPLE.					training	_timer				
Implen	neni sugg	ested remedy wit	i euitoriai license				This tin TRAIN	ner is started w LOCAL state (hen the training see Figure 178E	control state 3–8). The terr	diagram on a lan ninal count of thi	e enters the s timer is controlled by
C/ 178B	SC 17	8B.14.3.5	P 793	L 5	# 281		the mai	nagement varia	ble training_time	er_duration. T	The effect of expi	ration of this timer is
Ran, Adee	Tuno 1	- Comm				(buckot)	Impicin					
The te: "The tr upon e These these v For co	xt in 178B aining pat entry to the settings h variables of mpletenes	4.6.3 (P774 L26) s ttern selector is se e QUIET state of have management do not appear in t ss of the diagram	ays: et to synchronous the Training contro t variables associa he state diagram. It is preferable to	PRBS13 and the I state diagram tted with them, b add them here t	e modulation to (see Figure 17 out assignmen oo.	(500000) 20 PAM2 78B–8)." ts of	Add a r training Variabl is defin Add a s training	new variable de _timer_duration e that controls t ed by the PMD statement in ea _timer_duration	finition in 178B. the terminal cou or AUI compone ch PMD clause n to 60 seconds	14.3.1: nt of training_ ent specificati (e.g., in 179.8 (matching the	timer. The defau ion. 3.9) setting the de adopted link_fa	It value of this variable efault value of il_inhibit_timer).
Suggested	Remedy						Response		Response S	tatus C		
In the local_t	QUIET sta p_mode <	ate of Figure 1788 = synchronous P	3-8, add the assigr RBS13	nments:			REJEC	T.		ant #224		
Response	ne_mode	Respon	se Status C				Resolve					
ACCEI	PT IN PRI	NCIPLE.					C/ 178B	SC 178B.15		P 796	L 26	# 9
Implen	nent sugg	ested remedy wit	n editorial license				Marris, Arth	nur		Cadence Des	sign Systems	
							Comment 1 Preset	ype T selction require	Comment S s three bits	itatus A		(bucket)
							SuggestedI In Table	R <i>emedy</i> e 178B–6 for ic	_req change "1.	1120.13:12" t	o "1.1120.13:11"	
							Response	·-	Response S	tatus C		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 178B SC 178B.15 Page 30 of 49 3/11/2025 10:45:27 PM

C/ 179	SC 179.9.4.6.1	P 388	L 12	# 136		Cl 179	SC 179.9.4.	6.2	P 388	L 50	# 135
Calvin, Joh	in	Keysight Tech	hnologies			Calvin, Joh	า		Keysight Tec	hnologies	
Comment	Гуре E Cor	nment Status A		(bu	cket)	Comment T	ype TR	Comment S	Status A		(bucket)
The tex with hig all edg	t at the end of this ser gh slope)." is missleadir es to build an accurate	ntence "(e.g., it is prefe ng. The building of th model.	erable to measu he jrms -vs- slev	re jitter around point wrate model depends	s s on	Equatio 5 of : ht Root Mo 179-17	n 179-17 was tps://www.ieee ean Squared v it needs to rea	intended to trac 802.org/3/dj/puk value would be us	k the concens blic/25_01/cal sed. We are 1/2(inu1^2 + i	sus reached with vin_3dj_01b_25 e missing the "M nu2^2)	h last sentence of page- 01.pdf which cites the ean" from the equation
Suggested	Remedy					Suggested	n necus to rea			11uz z).	
slope).	e the example text "(e.g " Boo	nple text "(e.g., it is preferable to measure jitter around points with high SuggestedRemedy Response Status C NCIPLE. ates that the transitions selected should include multiple transitions; while hasizes the 03 and 30 transitions. Response Status C emedy addresses this claim only partly. The recommended choice of d be changed. Response Status C ed text was meant to recommend that per transition, the threshold should te highest slope. However, this is not necessarily the right choice, and it in the original proposal, so it should be removed. Response 1/2 factor inside the square root. C/ 179 SC 179.9.5.3 P392 L40 # 264 Ran, Adee Cisco Comment Type TR Comment Status A (bucket)									
						need ar	IEEE definition	on.			
The co	mment states that the t	ransitions selected sh	ould include mu	ultiple transitions; whi	ile	Response		Response S	tatus C		
the tex The su transiti	t that emphasizes the 0 ggested remedy addres ons should be changed	3 and 30 transitions. sses this claim only pa	artly. The recom	mended choice of	d	ACCEP The equ Howeve	T IN PRINCIP uation is provid er, the commen	PLE. ded to prevent co nt identifies an e	onfusion betwo rror that need	een the RMS us s to be be corre	ed here and JRMS. cted.
be set	to have the highest slop	be. However, this is no	ot necessarily th	e right choice, and it		Add the	missing 1/2 fa	actor inside the s	square root.		
was no	t included in the origina	I proposal, so it shoul	d be removed.			C/ 179	SC 179.9.5.	3	P 392	L 40	# 264
Chang	e from: "The set A shou	Id include multiple tra	nsitions from the	e symbol 0 to the		Ran, Adee			Cisco		
also be	i and multiple transitic	ons from the symbol 3	to the symbol u	. Other transitions m	lay	Comment T	ype TR	Comment S	Status A		(bucket)
To: "Th	he set A should include	multiple transitions be	etween different	PAM4 levels".		Footnot	e c of Table 1	79-11 states that	t		
Delete	"(e.g., it is preferable to	o measure jitter around	d points with hig	h slope)".		"The C(a). The	OM value is the SNRTX value	e target value for	r the SNRTX	calibration define	ed in 179.9.5.3.3 item
l		,		, ,		measur	ed at the Tx te	est reference sho	ould be as close	se as practical to	the value needed to
Impien	ient with editorial licens	e.				produce This sta	e the target CC	DM." etc. nnically incorrect	- the value m	easured is SND	R, and it is not changed
						to calibi	ate COM.				
						nis foc margin.	otnote is only ir	ntended to state	that passing	the test with low	er COM demonstrates
						SuggestedF	Remedy				
						Change "COM is value of	the footnote t calculated as COM demons	ext to: s defined in 179. strates margin to	9.5.3.3. Meeti the specifica	ing the test requi	irements with a lower equired for compliance."
						Response		Response S	tatus C		
						ACCEP The cor Implem	T IN PRINCIP nment identifie ent the sugges	LE. es an error that r sted remedy with	needs to be co n editorial licer	orrected. nse.	

C/ 179 SC 179.9.5.3

C/ 179A S	SC 179A.2	P801	L 23	# 283	C/ 179B	SC 179B.3.1	P 807	L 21	# 141
Ran, Adee		Cisco			Sekel, Stev	/e	Wilder Techr	nologies	
Comment Type	e ER	Comment Status A		(bucket)	Comment 7	Гуре Т	Comment Status A		(bucket)
Incorrect re	eference to 1	78.8.2			Figure	179B-1 is lable	d "Test fixtures PCB reference at fixture (MCP) states that the	e insertion loss	es", however the text for
SuggestedRen Change to	nedy 178.9.2				associa	ated vias, so the	e "PCB" in the figure descript	ion caption is no	ot valid
Response		Response Status C			Suggestedl	Remedy			
ACCEPT					Delete	the word "PCB"	from Figure 179B-1 caption		
					Response	-	Response Status C		
C/ 179A S	SC 179A.2	P 801	L 23	# 188	ACCEF	71.			
Swenson, Nor	man	Point2; Infinera			C/ 179B	SC 179B.4.1	P 808	L 9	# 1
Comment Type	e E	Comment Status A		(bucket)	Lusted, Ke	nt	Synopsys		
178.8.2 IS,	I belleve, a t	ypo. It should be 178.9.2.			Comment 7	Type TR	Comment Status R		(withdrawn)
SuggestedRen	nedy	.			The ma	ated test fixture	insertion loss is TBD		
	/8.8.2 to 1/8.	9.2			Suggestedl	Remedy			
ACCEPT.		Response Status C			Adopt t https://v 6.pdf	he proposal in www.ieee802.o	rg/3/dj/public/adhoc/optics/02	225_OPTX/kocs	is_3dj_adhoc_01_25020
C/ 179A S	SC 179A.3	P 801	L 29	# 284	Response		Response Status Z		
Ran, Adee		Cisco			, REJEC	T.			
Comment Type Incorrect re	e ER eference to 1	Comment Status A 78.8.3		(bucket)	This co	mment was WI	THDRAWN by the comment	er.	
SuggestedRen	nedy				C/ 179B	SC 179B.4.6	<i>P</i> 812	L 37	# 154
Change to	178.9.3				Ghiasi, Ali		Ghiasi Quna	tum/Marvell	
Response ACCEPT.		Response Status C			Comment 7 Remov	<i>Type</i> ER e extra space a	Comment Status A fter 58.x		(bucket)
					Suggestedl	Remedy			
					Remov	e extra space a	fter 58.x		
					Response		Response Status C		
					ACCEF	PT.	-		

C/ 179B SC 179B.4.6

C/ 180	SC 180.2	P 418	L 37	# 155
Mi, Guang	Ican	Huawei Tech	nologies Co., Lto	t
Comment	Type TR	Comment Status A		Block error ratio
In this receive	revision, the bloc er spec. I am hav	k error ratio spec is said to ing second thought about th	define the PMD r is.	eceiver or the PHY
The er a trans meet t	rror ratio of an op smitter or receive he block error rat	tical PMD/PHY is not met or r input signal. It seems odd t io", without specifying the	defined by a rec to say " a PMD re PMD/PHY transr	eiver only. It must have eceiver is expected to mitter condition.
The sa	ame applies to all	other optical PMD clauses.		
Suggested	Remedy			
This re	eference of receiv	er seems meant to relate to	the testing setur	o and definition in
CL174	A. A possible eas	sy way to make the text mor	e clear is to add	some text describing
specifi	ication".	in i or example, under optic	a nansininer sig	nai compliant to triis
Resnonse		Response Status C		
ACCE				
AUOL				
The C	RG reviewed slide	es 3 to 7 of the following cor	ntribution:	
https://	/www.ieee802.org	g/3/dj/public/25_03/brown_3	dj_03_2503.pdf	
Impler	ment the changes	on slide 7 of brown 3dj 03	2503.	
		_		
Impler	nent with editoria			
C/ 180	SC 180.4.2	P 419	L 40	# 55
Bruckman	, Leon	Nvidia		
Comment	Type ER	Comment Status A		(bucket)
"Skew	constraints for 2	00GBASE-DR1 and 400GB/	ASE-DR2" seem	s to be the header of a
section	n, but it is not forr	natted as that		
Suggested	Remedy			
Make:	"Skew constraint	s for 200GBASE-DR1 and 4	00GBASE-DR2	a subsection of
180.4.	2. Same for "Ske	w constraints for 800GBASE	E-DR4 and 1.6TE	BASE-DR8" in the next
page li	ine 6. Consistent	with 182.4.2		
Response		Response Status C		
ACCE	PT IN PRINCIPL	E.		
Impler	nent suggested r	emeay with editorial license		

C/ 180	SC 180.5.1	P 420	L 47	# 56
Bruckman	, Leon	Nvidia		
Comment	Type TR	Comment Status A		(bucket)
Not cle variabl	ear why the reference.	ence is to ILT section 178B.1	4.2.1 that define	es the state diagram
Suggested	lRemedy			
Chang	e the reference f	rom: "178B.14.2.1" to: "Anne:	x 178B".	
Response		Response Status C		
ACCE Implen	PT IN PRINCIPL nent suggested r	E. emedy with editorial license		

C/ 180	SC 180.5.1	P 421	L 24	# 221
Dawe, Piers		Nvidia		
Comment Ty	pe 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 33 of 49 3/11/2025 10:45:27 PM

C/ 180	SC 180.7.3	P 427	L 46	# 143		C/ 180	SC 180.9.1	P 431	L 34	# 96
Ghiasi, Ali		Ghiasi Qunat	um/Marvell			Johnson,	John	Broadcom		
Comment	Type TR	Comment Status A			MPI	Comment	Туре Е	Comment Status A		(bucket)
MPI/D metho	GP penalty of 0.1 d d of CL124 to trade	B would be too small for 2 off channel loss with MPI	00GBASE-DR1	unless one uses		Table	180-13 has an e	extra, empty line		
Suggested	Remedy					Suggested	Remedy	in Table 400 40		
If one	tries to calcualte 20	00GBASE-DR MPI penalty	as fixed penalty	then it would 0.4 dl	В	Remo	ve the extra line			
plus 0.	18 dB for DGD the	en total penalty for this PMI	D is 0.58 dB	12 dP with 0 19 dE	5	Response		Response Status C		
DGD t	he total penalty for	this PMD is 0.3 dB. Need	to use method	in CL 140 as in tabe	el	Resolv	e using the res	ponse to comment #22.		
140-12 penalty	<pre>2 to trade off number / were evaluated w</pre>	er of discrete reflectances a ith ER of 5 dB which is too	and max channe high for 200G S	l loss. The BS/CD Si MZM. In addition	MPI	C/ 180	SC 180.9.1	P431	L 34	# 22
need r	evisit the BER and	confidence level. see ghia	isi_3dj_01_2503	3		Brown, Ma	att	Alphawave S	Semi	
Response		Response Status C				Comment	Туре Т	Comment Status A		(bucket)
ACCE	PT IN PRINCIPLE.					For Cl	ause 182 and 1	83, pattern 7 is defined as va	lid xBASE-R sign	al with Inner FEC. A
The Cl	RG reviewed the fo	llowing presentations:	Ddi 01a 0500 a	-16		Suggester	Pattern Shoulu	be defined for Clause 100 al		it inner FLO.
https://	/www.ieee802.org/3 /www.ieee802.org/3	3/dj/public/25_03/johnson_ 3/dj/public/25_03/ghiasi_3c	j_01a_2503.pdf			In Tab	le 180-13 add r	new pattern 7 "Valid 200GBA	SE-R. 400GBASE	-R. 800GBASE-R. or
Attor C	DC discussion ron	loss Table 190 12 with the	e entente of Tok	ala 140 12 With		1.6TB	ASE-R signal" a	and update Table 180-14 acc	ordingly.	,
editoria	al license.		contents of Tal	Die 140-13. With		In Tab accord	le 181-11, add i lingly.	new pattern 7 "Valid 800GBA	SE-R signal" and	update Table 181-12
C/ 180	SC 180 9 1	P431	/ 34	# 57		Response	07	Response Status C		
Bruckman	Leon	Nvidia	-01	" 01		ACCE	PT IN PRINCIP	LE.		
Comment	Tvpe T	Comment Status A		(bu	icket)	Impler	nent suggested	remedy with editorial license		
Empty	row in table 180-13	3				C/ 180	SC 180.9.5	P 433	L 21	# 144
Suggested	Remedy					Ghiasi, Ali		Ghiasi Quna	tum/Marvell	
Remov	ve empty row from	Table 180-13				Comment	Type TR	Comment Status R		(withdrawn)
Response		Response Status C				Agree	d conunter prop	agating crosstalk source per	D1.3 comment 14	40
ACCE	PT IN PRINCIPLE.					Suggested	lRemedy			
Resolv	e using the respon	se to comment #22.				please TDEC	e implement con Ω measuremen	nment 140 counter-propagati t	ng text agreed to	the condition of
						Count	er-propagating a	asynchronous optical signals	(crosstalk) as spe	ecified for the
						aggres	sor used in rec 180/181 the c	eiver stress tests is applied to crosstalk test pattern can be r	o all the PMD rec	eive inputs at TP3. For For Clause 182/183
						the cro	osstalk pattern o	can be pattern 5 or 7.		
						Response		Response Status Z		
						REJE	CT.			
						This c	omment was W	ITHDRAWN by the comment	er.	
								-		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/180COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC180.9.5SORT ORDER: Clause, Subclause, page, line

Page 34 of 49 3/11/2025 10:45:27 PM

C/ 180	SC 180.9.5	P 433	L 26	# 97
Johnson, Joh	n	Broadcom		
Comment Ty	be 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, Mat	t	Alphawave Semi		
Comment T	ype T	Comment Status A		TDECQ
For TDE	ECQ, why does /	AUI need to be "accessible". Th	e clock sh	ould 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
----------	-----------------	---

ACCEPT IN PRINCIPLE.

Implement suggested remedy with editorial license

C/ 180	SC 180.9.5.1	P4:	34 L4	13 #	86
Johnson, Jo	hn	Broad	lcom		
Comment Ty	vpe T	Comment Status	Α		DGD
Max mea for 500m imposes	an DGD value of n is 0.5ps in Cl. 1 s no burden.	0.8ps is inconsiste 21, 124 and 140.	nt with previous Because of the s	500m PMDs. Mashort reach, this ti	ax mean DGD ighter 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	vord of	Table 180-	16, footnote (a), sho	ould be cap	italized		
Suggested	dReme	dy					
Capita	alize the	e first word	of Table 180-16, foo	otnote (a):	"Dispersion ."		
Response			Response Status	С			
ACCE	PT						

C/ 180A	SC 180A.1	P 833	L 22	# 17
Brown, Ma	att	Alphawave S	emi	
Comment	Туре Е	Comment Status A		(bucket)
Big sei	ntence. Break in	to two. Also, should be "Clau	se 180" and "Cla	ause 182".
Suggested	lRemedy			
Chang 1.6TB/ DR2-2	e to: "The PMDs ASE-DR8 are sp , 800GBASE-DF	6 for 200GBASE-DR1, 400GE ecified in Clause 180. PMDs 24-2, and 1.6TBASE-DR8-2 a	BASE-DR2, 8000 for 200GBASE-l are specified in C	GBASE-DR4, and DR1-2, 400GBASE- Clause 182."
Response		Response Status C		
ACCE Implen	PT IN PRINCIPL	E. emedy with editorial license		
C/ 181	SC 181.1	P 442	L13	# 34
D'Ambrosi	a, John	Futurewei, U.	S. Subsidiary of	Huawei
Comment	Туре Е	Comment Status R		PCS name (bucket
As the is inco	800GBASE-ER nsistent to call o	1/ER1-20 now uses the same ut the full name of the sublay	e PCS as other 8 ver 800GBASE-F	800GBASE-R PHYs, it R PCS
Suggested	IRemedy			
Replac	ce "800GBASE-F	R PCS" with "PCS"		
Response		Response Status C		
REJEC Clause 800GE incorre the MII	CT. es 181, 183, 184 BASE-R PCS. As ect, and serves to I being specifical	, 186, and 187 all specify sub such the existing "800GBAS premind the reader that the ly the 800GMII. This is consi	blayers that can oblayers that can oblayers that can be sublayer is species that with other oblayer to the stent with other oblayer to the stent with other oblayer to the stent with other oblayers that shows a species of the stent with other oblayers that shows a species of the stent with other oblayers that shows a species of the stent with other oblayers that shows a species of the stent with other oblayers that shows a species of the stent with other oblayers that shows a species of the stent with other oblayers that shows a species of the stent with other oblayers t	only be used with the in these figures is not fic to that rate based on clauses (including 95,

119, 120A, 120F, 120G, 121, 123, 124, 150, 151, 154, 162, 163, 169, 172, 175) that similarly are limited to one specific rate. The generic "PCS" is only used when the generic xGMII is connected to the PCS, for example, in figures 1-1, 143-1, 176-1, 177-1, 178-1, 179-1 and 180-2. If a future task force extends any of these clauses to other rates, the figures can be made generic at that time.

C/ 181	SC 181.5.1	P 443	L 53	# 58
Bruckman	i, Leon	Nvidia		
Comment	Type TR	Comment Status A		(bucket)
Not clo variab	ear why the reference.	ence is to ILT section 178B.	14.2.1 that define	s the state diagram
Suggested	dRemedy			
Chang	ge the reference f	rom: "178B.14.2.1" to: "Anne	ex 178B".	
Response		Response Status C		
ACCE Impler	PT IN PRINCIPL	E. emedy with editorial license		
C/ 181	SC 181.7.3	P 448	L 48	# 145
Ghiasi, Ali	i	Ghiasi Qunat	tum/Marvell	
Comment	Type TR	Comment Status R		MPI
MPI/D	GP penalty of 0.	5 dB maybe to small for this	PMD type	
Suggested	dRemedy			
The M fixed p 5 dB v worth	IPI penalty is 0.4 benalty and ER of which is too high t while. See Ghia	1 dB and DGD penalty is 0.1 f 3.5 dB as the origonal MPI for 200G Si MZM. Revisiting isi_3dj_01_2503	8 the total penalt analysis in the 80 MPI penalty also	y is 0.59 dB if we use 02.3bs assumed ER of o for CL181 would
Response		Response Status C		

REJECT.

The CRG reviewed the following presentations: https://www.ieee802.org/3/dj/public/25_03/johnson_3dj_01a_2503.pdf https://www.ieee802.org/3/dj/public/25_03/ghiasi_3dj_01a_2503.pdf

After CRG discussion there was no consensus to make a change in this clause a at this time.

C/ 181 SC 181.7.3

C/ 181	SC 181.8		P 452	L 43	# 89	C/ 181	SC	181.9.5	P 45	6	L 52	# 146
Johnson,	John		Broadcom			Ghiasi, Ali			Ghiasi	Qunatu	m/Marvell	
Comment	Туре Т	Comn	nent Status A		fiber model	Comment	Туре	TR	Comment Status	R		(withdrawn)
The de	escription of	he generic fib	per cabling model sl	hould be the sam	ne for all PMDs.	Agreed	d conur	nter propa	gating crosstalk sourc	e per D	1.3 comment 14	40
Suggested	Remedy					Suggested	Remed	dy				
Use th	ne same desc	ription in 181	.8 as in 180.8, whic	h was improved	in D1.4.	please	impler	ment comr	ment 140 counter-pro	pagating	text agreed to	the condition of
Response		Respo	nse Status C			TDEC Counte	2 meas	surement. agating as	synchronous optical si	anals (c	rosstalk) as soe	ecified for the
ACCE	PT IN PRINC	CIPLE.				aggres	sor us	ed in recei	iver stress tests is ap	olied to a	all the PMD rece	eive inputs at TP3. For
Impler	ment suggest	ed remedy wi	ith editorial license	with the following	exception.	Clause the cro	e 180/1 sstalk	81, the cro pattern ca	osstalk test pattern ca In be pattern 5 or 7.	in be pai	ttern 3, 5, or 7. I	For Clause 182/183,
ln 180	-8 change					Response			Response Status	Z		
"Insert	tion loss mea	surements of	installed fiber cable	es are made in a	ccordance with IEC	REJEC	CT.					
61280	-4-2 one-core	a reference m	etnod."			This co	ommer	nt was WIT	THDRAWN by the cor	nmenter	·.	
to "Insert	tion loss mea	surements of	installed fiber cable	es are made in a	ccordance with IEC	C/ 181	SC	181.9.5.1	P 45	8	L12	# 90
61280	-4 series one	-cord referen	ce method."			Johnson, J	lohn		Broad	com		
Also n	nake this cha	nae in 182.8.				Comment	Туре	т	Comment Status	Α		DGD
C/ 181	SC 181.9	.1	P 455	L 42	# 265	Max m for 500	ean D m is 0	GD value o .5ps in Cl.	of 0.8ps is inconsister 121, 124 and 140. B	nt with precause	revious 500m P of the short rea	MDs. Max mean DGD ch, this tighter spec
Ran, Adee	e 		Cisco			Suggested	Pomor					
Comment	Type ER	Comn	nent Status A	and tale to a short	(bucket)	Chang	e Max	<i>iy</i> mean DGI	D in Table 181-14 fro	m 0.8ps	to 0.5ps	
use. T	he reference	a row labeled d subclause 1	"Over/under-shoot", 181.9.7 is titled "Tra	, which is a short nsmitter oversho	nand we should not oot and undershoot"	Response	omax		Posponso Status	c	to 0.0p0.	
(and u	infortunately	has "over/und	ler-shoot" in the tex	t).		ACCE	PT.		Response Status	C		
AISO II	n the corresp	onding places	s in Clause 183.									
Comp	are with Clau	se 180 which	has "Transmitter or	vershoot and une	dershoot" consistently	C/ 181	SC	181.9.9	P 45	9	L17	# 91
	correspondin	g places.				Johnson, J	lohn 	_	Broad	com		<i>(</i> 1 1 1 1 1
Suggested	aRemeay	or choot" to "(Warshoot and unde	vrshoot" ocross t	ho droft	Comment	l ype	T hauld hau	Comment Status	A Nub alau	as based on D1	(bucket)
Pooponoo						resolut	ion.			Sub-Clau	se based on Di	1.5 comment #555
ACCE		Respoi	nse Status C			Suggested	Remed	dy				
Impler	nent suggest	ed remedy wi	ith editorial license			Add th	e follov	ving sente	nce to the end of the	paragra	ph:	
						"The e receive	xtinctio er defin	on ratio is r ied in 181.	measured using wave 9.5, before the refere	forms ca nce equ	aptured at the o alizer."	output of the reference
						Response			Response Status	С		
						ACCEI Implen	PT IN I nent su	PRINCIPL	E. emedy with editorial li	cense		
TYPE: TR	/technical rec	uired ER/edi	torial required GR/	general required	T/technical E/editorial G/	general				C/ 181	I	Page 37 of 49
COMMEN SORT OR	T STATUS: [DER: Clause)/dispatched , Subclause,	A/accepted R/reject page, line	cted RESPON	SE STATUS: O/open W/w	ritten C/closed	Z/witl	hdrawn		SC 181	1.9.9	3/11/2025 10:45:

C/ 181	SC 1	81.9.11	P 459	L 36	# 92		C/ 182	SC 18	2.7.3	P 477	L 46	# 147
Johnson,	John		Broadcom				Ghiasi, Ali			Ghiasi Qunat	um/Marvell	
Comment	Туре	E	Comment Status A			(bucket)	Comment	Туре Т	٢R	Comment Status R		MPI
Remo	ve extra '	"the"					With fiz	ked MPI/C	DGP pe	nalty of 0.4 dB would not be	sufficent for 20	0GBASE-DR-2 but too
Suggested	dRemedy	,					much f of CL1	or 400GB 24 to trad	BASE-D le off ch	R2-2, 800GBASE-DR4-2, ar annel loss with MPI penalty	nd 1.6TBASE-D then we can rec	R8-2. If we use method concile these difference
Chang "RINx:	ge xOMA of	each lane	e, with "xx" referring to the 17.	, ."			Suggested	Remedy	loualta	200CBASE DB 2 MBL papal	ty as fixed page	alty then it would 0.5 dB
to "RINx:	xOMA of	each lane	e, with "xx" referring to 17.1, ."				plus 0.	18 dB for	DGD 1	hen total penalty for this PM	D is 0.63 dB	
Response			Response Status C				400GB	ASE-DR2	2/800G	BASE-DR4/800GBASE-DR8	MPI penalty is	0.1 dB with 0.18 dB
ACCE Impler	PT IN PF	RINCIPLE gested re	medy with editorial license				140-12 penalty need re	to trade of were evant	off num aluated BER ar	with ER of 5 dB which is too d confidence level, see ahia	and max chann high for 200G asi 3di 01 250	el loss. The BS/CD MPI Si MZM. In addition 3
C/ 182	SC 1	82.5.1	P 471	L10	# 59		Response			Response Status C		
Bruckman	i, Leon		Nvidia				REJEC	т				
Comment	Туре	TR	Comment Status A			(bucket)	112020					
Not clo variab	ear why t les.	he refere	nce is to ILT section 178B.14.2	2.1 that define	es the state diag	Iram	The CF https://	RG review www.ieee	ved the 802.or	following presentations: g/3/dj/public/25_03/johnson_	3dj_01a_2503.j	odf
Suggested	dRemedy	,					https://	www.ieee	802.or	g/3/dj/public/25_03/ghiasi_30	lj_01a_2503.pd	t
Chang	ge the ref	erence fro	om: "178B.14.2.1" to: "Annex 1	78B".			After C	RG discu	ission t	here was no consensus to m	ake a change ir	n this clause a at this
Response			Response Status C				time.					
ACCE		RINCIPLE	, E.				C/ 182	SC 18	2.8	P 478	L 23	# 93
Impler	ment sug	gested re	medy with editorial license				Johnson, J	ohn		Broadcom		
							Comment T The 18	<i>Type</i> E 2.8 sub-c	E lause h	Comment Status A leading should be capitalized	1	(bucket)
							Suggested Chang	<i>Remedy</i> e "182.8 c	optical	channel characteristics" to "1	82.8 Optical ch	annel characteristics"

Response Status C

ACCEPT.

Response

C/ 182 SC 182.8

C/ 182	SC 182.9.5	P 483	L 35	# 148	C/ 183	SC 183.5.1	P 494	L 5	# 60
Ghiasi, Ali		Ghiasi Qunatu	m/Marvell		Bruckman	, Leon	Nvidia		
Comment	Type TR	Comment Status R		(withdrawn)	Comment	Type TR	Comment Status A		(bucket)
Agreed	d conunter propa	gating crosstalk source per D	1.3 comment 1	40	Not cle variab	ear why the refer es.	ence is to ILT section 178B.1	4.2.1 that defines t	he state diagram
Suggested please TDEC0 Counte aggres	Remedy implement comi Q measurement. er-propagating as sor used in rece	ment 140 counter-propagating synchronous optical signals (c iver stress tests is applied to a	text agreed to rosstalk) as sp Ill the PMD rec	the condition of ecified for the eive inputs at TP3. For	Suggested Chang Response	Remedy e the reference	from: "178B.14.2.1" to: "Anne Response Status C	x 178B".	
Clause the cro	e 180/181, the cro sstalk pattern ca	osstalk test pattern can be pat In be pattern 5 or 7.	tern 3, 5, or 7.	For Clause 182/183,	Chang	e 178B.14.2.1 to	E. 178B.4 in 180.5.1, 181.5.1, 1	182.5.1, and 183.5	.1.
Response		Response Status Z			C/ 183	SC 183.7.3	P 501	L 51	# 149
REJEC	CT.				Ghiasi, Ali		Ghiasi Qunati	um/Marvell	
This co	omment was WI	THDRAWN by the commenter			Comment MPI/D	<i>Type</i> TR GP penalty of 0.	Comment Status R 5 dB is larger than needed for	r 800GBASE-LR4	MPI
C/ 182	SC 182.9.9	P 485	L 47	# 94	Suggester	Remedy	0		
Johnson, J	John	Broadcom			MPI/D	GD can be redu	ced to 0.3 dB then link budget	t increased by 0.1 o	dB or allocated to
Comment	Type E	Comment Status A		(bucket)	DGD.	See Ghiasi_3c	j_01_2503	, 	
A sent resolut	ence should hav tion.	e been added to this sub-clau	se based on D	1.3 comment #333	Response REJE	ЭT	Response Status C		
Suggested	Remedy				ILUE V				
Add th "The e receive	e following sente xtinction ratio is er defined in 182	nce to the end of the paragra measured using waveforms ca 9.5, before the reference equ	oh: aptured at the c alizer."	output of the reference	The C https:// https://	RG reviewed the www.ieee802.or www.ieee802.or	following presentations: g/3/dj/public/25_03/johnson_3 g/3/dj/public/25_03/ghiasi_3d	3dj_01a_2503.pdf lj_01a_2503.pdf	
Response		Response Status C			Aftor (BG discussion t	here was no consensus to m	ake a change in thi	is clause a lat this
ACCE Implen	PT IN PRINCIPL nent suggested r	E. emedy with editorial license			time.				
C/ 183	SC 183.1	P 492	L13	# 35					
D'Ambrosi	a, John	Futurewei, U.S	. Subsidiary of	Huawei					
Comment As the is inco	<i>Type</i> E 800GBASE-ER ² nsistent to call of	Comment Status R I/ER1-20 now uses the same ut the full name of the sublave	PCS as other 8 r 800GBASE-F	PCS name (bucket) 300GBASE-R PHYs, it 3 PCS					
Suggested Replac	Remedy ce "800GBASE-F	PCS" with "PCS"							
Response		Response Status C							
REJEC	CT. ve using the resp	onse to comment #34.							

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/ 183 SC 183.7.3 Page 39 of 49 3/11/2025 10:45:27 PM

C/ 183	SC 183.8	P 503	L18	# 95	C/ 184	SC 184.1.	2 P516	L 30	# 36
Johnson,	John	Broadcom			D'Ambros	ia, John	Futurewei, U	.S. Subsidiary o	f Huawei
Comment	Туре Т	Comment Status A		fiber model	Comment	Туре Е	Comment Status R		PCS name (bucket)
The de	escription of the	generic fiber cabling model sl	hould be the sar	me for all PMDs.	As the	e 800GBASE-l	ER1/ER1-20 now uses the sam Il out the full name of the sublay	e PCS as other /er 800GBASE-I	800GBASE-R PHYs, it R PCS
Suggested	dRemedy				Suaaestea	dRemedv			
Use th	ne same descrip	tion in 183.8 as in 180.8, whic	ch was improved	1 in D1.4.	Repla	ce "800GBAS	E-R PCS" with "PCS"		
Response ACCE	PT IN PRINCIP	Response Status C			Response		Response Status C		
Impler	ment suggested	remedy with editorial license	with the followin	g exception.	REJE Resolv	CI. ve using the re	esponse to comment #34.		
ln 180)-8 change				C/ 184	SC 184.2	P 518	L 3	# 99
"Inser	tion loss measu	rements of installed fiber cable	es are made in a	accordance with IEC	Huber, Th	omas	Nokia		
61280	-4-2 one-cord re	eference method."			Comment	Туре Т	Comment Status A		(bucket)
to "Inseri	tion loss measu	rements of installed fiber cable	es are made in a	accordance with IEC	The P	HY 800GXS of the	annot be a client of the Inner Fl	EC. By definitior	the PHY_XS goes all
61280	-4 series one-co	ord reference method."			Suggester	NPomody		0.	
C/ 183	SC 183.9.5	P 507	L 52	# <u>150</u>	Remo	ve "PHY 8000	GXS" from the block at the top o	f Figure 184-2	
Ghiasi, Ali	i	Ghiasi Qunat	tum/Marvell		Response		Response Status C		
Comment	Type TR	Comment Status R		(withdrawn)	ACCE	PT.			
Agree	d conunter prop	agating crosstalk source per I	D1.3 comment 1	40	CI 494	SC 494 2	DE10	1.24	# 100
Suggested	dRemedy				0/ 184	SC 184.3	P 519	L 24	# 100
please	e implement con	nment 140 counter-propagatin	ng text agreed to	the condition of	Huber, Ih	omas	Nokia		
TDEC	Q measuremen	t.			Comment	Туре Т	Comment Status A		(bucket)
Count	er-propagating a ssor used in rec	asynchronous optical signals (eiver stress tests is applied to	(crosstalk) as sp all the PMD rec	ecified for the eive inputs at TP3. For	The P the wa	HY 800GXS o ay back to the	annot be a client of the Inner Fl MII, so it must connect to a PC	EC. By definition S.	the PHY_XS goes all
the cro	e 180/181, the c osstalk pattern c	rosstalk test pattern can be pa can be pattern 5 or 7.	attern 3, 5, or 7.	For Clause 182/183,	Suggested	dRemedy			
Response		Response Status Z			Remo	ve "PHY 8000	SXS" from the first sentence of	184.3	
REJE	CT.				Response ACCE	PT.	Response Status C		
This c	comment was W	ITHDRAWN by the commenter	er.						

C/ 184 SC 184.3

C/ 184	SC 184.3	P 519	L 25	# 176	C/ 184	SC	184.4.3	P 520	L 25	# 118
Opsasnick	, Eugene	Broadcom			Brown, Ma	att		Alphawave Se	mi	
Comment	Туре т	Comment Status A		(bucket)	Comment	Туре	т	Comment Status A		LR1 PRBS
The Cl service 800GX	L 184 Inner FE(e interface. The (S whose lower	C requires 32 PCS lanes (for 8 erefore the client sublayer above interface is an 800GMII.	00GE) as input /e this Inner FE	at the Inner FEC C cannot be a PHY	A PRE Howey PAM4	3S31 te ver, this PMDs	st pattern test patte and AUIs.	generator was added in D1.4 rn can be used for block erro	. It is defined a r ratio measure	as being optional. ements as defined for
Suggested	IRemedy				Suggested	Remed	dy			
Remov Figure	ve "PHY 800GX 184-2 on page	S" from this list of possible clie 518, line 3.	ent sublayers. A	Also remove it from	Chang To: "T	ge: "The he Inne	e Inner FE(er FEC sha	C may optionally include a PF Ill include a PRBS31"	₹BS31"	
Response		Response Status C			Response			Response Status C		
ACCE	PT.				ACCE	PT IN F	PRINCIPLE	E.		
C/ 184	SC 184.3	P519	L 38	# 101	Resolv	ve using	g the respo	onse to comment #115.		
Huber, The	omas	Nokia								
Comment	Туре т	Comment Status A		(bucket)						
32:8. F PMA ir sends	PMA:IS_UNITD nto the PMA, will to the sublayer	ATA_i.indication is a signal that hile FEC:IS_UNITDATA_i.requiselow it. How can those be the	t comes from the same thing?	hat the FEC sublayer						
Suggested	lRemedy									
Rewrit	e these sentend	ces to more clearly state what	was intended.							
Response ACCE	PT IN PRINCIP	Response Status C PLE.								
Chang the PM FEC:IS 32:8 de	e: "FEC:IS_UN IA 32:8 defined S_UNITDATA_i efined in 173.3.	ITDATA_i.request is the same in 173.3. .indication is the same as PMA "	as PMA:IS_UN	ITDATA_i.indication for						
To: "FI PMA 3 FEC:IS PMA 3	EC:IS_UNITDA 32:8 defined in 1 3_UNITDATA_i 32:8 defined in 1	TA_i.request is the same as P 173.2. .indication is the same as PMA 173.2."	MA:IS_UNITDA \:IS_UNITDATA	TA_i.request for the						

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, N	latt	Alphawave Se	emi		Brown, Ma	att		Alphawave	Semi	
Commen	t Type T	Comment Status A		LR1 PRBS	Comment	Туре	Е	Comment Status A		(bucket)
A PR Howe PAM	BS31 test pattern ever, this test patter 4 PMDs and AUIs	checker was added in D1.4. ern can be used for block erro in 176.7.4.	It is defined as or ratio measure	being optional. ements as defined for	Figure in 802 suppo	e 185-3 2.3cw a ort an A	not need nd in Dra UI. On th	ded for this PHY. This figure aft 1.3 Clause 187 because a ne other hand, any 800GBAS	showing an xGM n xGMII extende E-R PHYs may i	II Extender was included r was always needed to include a 800GMII
Suggeste	edRemedy				extend two A	der. In Uls. Fig	e 800GB gure 185-	-2 should include one AUI to	be complete.	=C and supports one or
Char	nge "The Inner FEC	C may optionally include"			Suggestee	dReme	dv		·	
Add 1	the follow text: "The	e PRBS31 checker includes	block error dete	ection and counters as	Delete	e Figure	, e 185-3 a	and in Figure 185-2 add one	800GAUI-n.	
spec	ified in 176.7.4.7."				Response)		Response Status C		
Respons	е	Response Status C			ACCE	EPT IN	PRINCIP	PLE.		
ACC	EPT IN PRINCIPL	E.			Imple	ment si	uggested	I remedy with editorial license	э.	
Part	1 of the following c	contribution was reviewed by	the CRG.		C/ 185	SC	185.2	P 542	L 39	# 117
https	://www.ieee802.org	g/3/dj/public/25_03/brown_3c	lj_04a_2503.pd	f	Brown, Ma	att		Alphawave	Semi	
Base	d on straw polls TI	F-1 and TF-2 mandatory PRE	3S31 generator	and checker is	Comment	Туре	т	Comment Status A		LR1 PRBS
prefe	erred.				Other	comm	ents prop	bose that with the addition of	the PRBS31 ger	erator and checker in
Imple PRB	ement the proposa S31Q to PRBS31 o	l in slides 7 to 11 of brown_3 on slide 7.	3dj_04a_2503, o	except change	using 174A.	block e	SE-LR11 error cour	nters similar to the method fo	or PAM4 PMDs a	nd AUIs as defined in
Imple	ement with editoria	l license.			Suggestee	dReme	dy			
Strav I pref	v poll (directional) a fer the PRBS31 ge	#TF-1 (Pick one) #TF-2 (Chi nerator and checker in the 80	cago Rules) 00GBASE-LR1	Inner FEC sublayer as	Updat Provic A con	te the s de test tributio	pecificati configura n will be	ion for a PMD receiver in 185 ation and method in 174A. provided.	5.2 accordingly.	
being A: m]: andatory (shall incl	lude)			Response	;		Response Status C		
B: op	ptional (may option	ally include)			ACCE	EPT IN	PRINCIF	PLE.		
C: ma	andatory if no colo	cated PCS (no AUIs betweer	n), otherwise op	otional	Resol	ve usin	ig the res	sponse to comment #115.		
TF-1:	: A: 29 B: 19 C: 9 [D: 19								
TF-2	: A: 34 B: 23 C: 23	D: 19								

C/ 185 SC 185.2

-					-				
C/ 185	SC 185.3	P 544	L 20	# 266	C/ 186	SC 186.1.2	P 564	L 31	# 32
Ran, Adee	e	Cisco			D'Ambrosi	a, John	Futurewei, U.	.S. Subsidiary o	f Huawei
Comment	Туре Т	Comment Status A		(bucket)	Comment	Туре Е	Comment Status R		PCS name (bucket)
In Fig IS_SI	ure 185-3, the P GNAL.INDICATI	MA above the PHY 800GXS of ON primitive, which is require	does not have ar d for the ILT fun	i incoming ction of the 800GAUI-n	As the is inco	800GBASE-E nsistent to call	R1/ER1-20 now uses the same out the full name of the sublay	e PCS as other ver 800GBASE-	800GBASE-R PHYs, it R PCS
above	eit.				Suggested	Remedy			
This p	rimitive is define	ed implicitly for the PHY XS, the	nrough the IS_SI	GNAL.request primitive	Replac	e "800GBASE	-R PCS" with "PCS"		
of the	PCS (which is c	lefined in 116.3.3.3) and by th	e text of 171.3.		Response		Response Status C		
Suggestee	dRemedy				REJEC	CT.			
Add a	n upward arrow	with label "PCS:IS_SIGNAL.in	ndication" in Fig	ure 185-3.	Resolv	ve using the res	sponse to comment #34.		
Response	,	Response Status C			C/ 186	SC 186.2.1	P 567	L 8	# 227
ACCE	PT IN PRINCIP	LE.			de Koos, A	Andras	Microchip Te	chnology	
Resol	ve using the res	ponse to comment #21.			Comment	Type E	Comment Status A		(bucket)
C/ 185	SC 185.8.1	P 555	L 23	# 28	Very m	ninor! The rate	of each PCS lane should be 2	26.5625 Gb/s, n	ot 26.5624 Gb/s
Issenhuth	, Tom	Huawei			25Gb/s	s *(257/256)*(5	44/514) = 26.5625 Gb/s		
Comment	Туре Т	Comment Status A		(bucket)	186.2.3	eems to be a ty 2	po, since the correct value is t	used later on the	e same page in section
The p	arameters "Tx c	lock phase noise: total integra	ted random jitte	" and "Tx clock phase	Suggested	- IRemedy			
noise: 185-1	total periodic jit	ter" are in Table 185-5 and lis	ted in 185.8 but	are missing in Table	replace	e "26.5624 Gb/	s" with "26.5625 Gb/s"		
Suggester	dRemedy				Response		Response Status C		
Add th	ne 2 parameters	to Table 185-11 with a patter	n of 5.		, ACCEI	PT.	·····		
Response	· · · · · · · · · · · · · · · · · · ·	Posponso Status C							
	PT	Response Status			C/ 186	SC 186.2.1	P 567	L15	# 200
					Slavick, Je	eff	Broadcom		
C/ 186	SC 186.1.1	P 564	L10	# 61	Comment	Type ER	Comment Status A		(bucket)
Bruckmar	n, Leon	Nvidia			early.	In the first sen	tence		
Comment	Type E	Comment Status A		(bucket)	Suggested	Remedy			
800GI	BASE-ER1 is se	parated into two lines			Remov	ve the . After fle	OWS		
Suggestee	dRemedy				Response		Response Status C		
Make Apply	the dash in "800 the same for the	GBASE-ER1" a non braking e whole clause	dash.		ACCE	PT.			
Response	•	Response Status C							
ACCE	PT.								

C/ 186 SC 186.2.1

C/ 186	SC 186.2.1	P 567	L15	# 63	C/ 186 SC 186	.2.1 P567	L 36	# 206
Bruckmar	n, Leon	Nvidia			Slavick, Jeff	Broadcon	n	
Comment Stran	t <i>Type</i> ER ge location of dot.	Comment Status A		(bucket)	Comment Type El The , is really mo	R Comment Status A re than a comma		(bucket)
Suggeste Remo	<i>dRemedy</i> ove the dot after "t	wo flows"			SuggestedRemedy Change the "bloc	ks, distributed" to "blocks and "	then distributed"	
Response ACCE	e EPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ 186	SC 186.2.1	P567	L 34	# 228	C/ 186 SC 186	.2.3.1.1 P568	L16	# 207
de Koos,	Andras	Microchip Tee	chnology		Slavick, Jeff	Broadcon	n	
Comment mispl the 25 Suggeste remov Response ACCE	t <i>Type</i> E aced period in "Th 57-bit blocks are c <i>dRemedy</i> ve the period, or re e EPT IN PRINCIPL e the period	Comment Status A ne pad bits are removed and listributed to eight lanes." eplace with a comma. <i>Response Status</i> C E.	the CRC checki	<i>(bucket)</i> ng is performed. before	Comment Type TF We've been using SuggestedRemedy Change "shall be Response ACCEPT IN PRIN Change "shall be	R Comment Status A g "identical to that specified" in: as specified" to "is identical to <i>Response Status</i> C ICIPLE. as specified" to "is identical to	stead of "shall be a that specifid" that specified".	<i>(bucket)</i> as specified".
C/ 186	SC 186.2.1	P567	L34	# 205	C/ 186 SC 186	.2.3.1.2 <i>P</i> 568	L 20	# 208
Slavick. J	leff	Broadcom			Slavick, Jeff	Broadcon	n	<i>(</i> , , ,)
Comment extrar	<i>Type</i> ER nious .	Comment Status A		(bucket)	We've been using	R Comment Status A "identical to that specified" in:	stead of "shall be a	(bucket) as specified".
Suggeste Remo	<i>dRemedy</i> ove the . After "pe	rformed."			Change "shall be	as specified" to "is identical to	that specifid"	
Response ACCE	e EPT.	Response Status C			Response ACCEPT IN PRIN Change "shall be	Response Status C ICIPLE. as specified" to "is identical to	that specified".	

C/ 186 SC 186.2.3.1.2

-											
C/ 186	SC 186.2.3.1.3	P568	L 24	# 209		C/ 186	SC 1	86.2.3.1.6	P 568	L 43	# 212
Slavick, J	eff	Broadcom				Slavick, Je	əff		Broadcom		
Comment	Type TR	Comment Status A			(bucket)	Comment	Туре	TR	Comment Status A		(bucket)
We've	e been using "ident	ical to that specified" instea	d of "shall be as	s specified".		We've	been us	sing "identic	cal to that specified" instea	d of "shall be as	specified".
Suggestee	dRemedy					Suggested	Remedy	/			
Chang	ge "shall be as spe	cified" to "is identical to that	t specifid"			Chang	e "shall	be as spec	ified" to "is identical to tha	t specifid"	
Response	9	Response Status C				Response			Response Status C		
ACCE	EPT IN PRINCIPLE					ACCE	PT IN P	RINCIPLE.			
Chang	ge "shall be as spe	cified" to "is identical to that	t specified".			Impler	nent sug	gested rem	nedy with editorial license.	and some are or	tional
C/ 186	SC 186.2.3.1.4	P568	L 28	# 210		Opual		y io say so	ine patients are required a	and some are op	
Slavick, J	eff	Broadcom				C/ 186	SC 1	86.2.3.5.2	P 572	L 49	# 102
Comment	Type TR	Comment Status A			(bucket)	Huber, Th	omas		Nokia		
We've	e been using "ident	ical to that specified" instea	d of "shall be as	s specified".	. ,	Comment	Туре	т	Comment Status R		(withdrawn)
Suaaestee	dRemedv					The S	TAT byte	e also inclu	des a field named MNT the	at is used when	the frame is in test
Chang	ge "shall be as spe	cified" to "is identical to that	t specifid"			patteri	i mode.				
Response		Response Status C				Suggested	Remedy	/	ANT California doubt and		
ACCE	EPT IN PRINCIPLE					doesn	't need to	on for the N o use it, sta	ate that it is always set to z	at is in OF 8002 ero.	R. IT 800GBASE-ERT
Chang	ge "shall be as spe	cified" to "is identical to that	t specified".			Response		,	Response Status 7		
Updat	te wording to say s	ome patterns are required a	and some are op	otional.		REJE	СТ.		_		
C/ 186	SC 186.2.3.1.5	<i>P</i> 568	L 32	# 211							
Slavick, J	eff	Broadcom				I his c	omment	was WIIH	DRAWN by the commente	er.	
Comment	Type TR	Comment Status A			(bucket)	C/ 186	SC 1	86.2.3.5.5	P 573	L10	# 103
We've	e been using "ident	ical to that specified" instea	d of "shall be as	s specified".		Huber, Th	omas		Nokia		
Suggestee	dRemedy					Comment	Туре	т	Comment Status A		(bucket)
Chang	ge "shall be as spe	cified" to "is identical to that	t specifid"			The by	te numt	pers for the	MAP field are incorrect - p	per figure 186-6,	MAP occupies bytes 6-
Response	9	Response Status C				9 rathe	er than 7	-10.			
ACCE	EPT IN PRINCIPLE					Suggested	Remedy	/			
Chang	ge "shall be as spe	cified" to "is identical to that	t specified".			Correc	t the by	te numberir	ng.		
						Response			Response Status C		
						ACCE	PT.				

C/ 186 SC 186.2.3.5.5

C/ 186	SC 186.2.3.5.	10 P574	L 8	# 64	C/ 186	SC 186.2.3.5.	10 P575	L 47	# 213
Bruckman	, Leon	Nvidia			Slavick, J	eff	Broadcom		
Comment Missin	<i>Type</i> ER ng "the"	Comment Status A		(bucket)	<i>Comment</i> When	<i>Type</i> TR the feature is not	Comment Status A supported or disabled the	AML is 0.	(bucket)
Suggested Chang To: "w	<i>Remedy</i> ge: "were removed rere removed by th	by Inverse RS FEC functione Inverse RS FEC function	on" า"		Suggested Add "d	dRemedy or not supported" a	after disabled.		
Response ACCE Chang	PT IN PRINCIPLE	Response Status C E. ed by the Inverse RS FEC	Tx function"		Response ACCE Chang To: "If	PT IN PRINCIPLE	Response Status C E. ht marker location feature i rker location feature is not	s disabled," supported or not	t enabled,"
C/ 186	SC 186.2.3.5.	10 P574	L 8	# 65	C/ 186	SC 186.2.3.8	P 577	L10	# 104
Bruckman	, Leon	Nvidia			Huber, Th	omas	Nokia		
Comment 257-bi	<i>Type</i> E t breaks into two I	Comment Status A		(bucket)	Comment Figure	<i>Type</i> T 186-9 is not as c	Comment Status A lear as it could be. The 1 1	82 480 bits are i	<i>(bucket)</i> ndicating the number of
Suggested Make Response ACCE	<i>IRemedy</i> the dash in "257-b PT.	it" a non braking dash. Sa <i>Response Status</i> C	me for section 1	86.2.4.6.5 first paragraph	bits in Suggested Shade 192 4 share	the entire shaded dRemedy e the CRC32 and I 80 bits larger and d area, not the blo	PAD areas differently from put it on an angle so it is m ck of 105 rows that are not	the main part of ore clear that it i shown. Add row	, 116x10280). the frame. Make the 1 refers to the entire w numbers for the
C/ 186	SC 186.2.3.5.	10 P574	L18	# 214	Response	ig rows 5-6 and in	Response Status C	le midule as row	\$ 9113.
Slavick, Je	eff	Broadcom			ACCE				
Comment	Type ER	Comment Status A		(bucket)	Implei	ment the suggeste	d remedy with editorial lice	ense.	
The va	alue corresponds t	to the block.			C/ 186	SC 186.2.4.6.	2 <i>P</i> 580	L 47	# 105
Suggested	Remedy				Huber Th	omas	Nokia		
Chang "The v into th field."	ge value of this counte e payload area of	er corresponding to the firs the 800GBASE-ER1 tribut	t non-stuff 257-b ary multi-frame	it block that is mapped s encoded into the AML	Comment The S patter	<i>Type</i> T TAT byte also incl n mode.	Comment Status R udes a field named MNT tl	nat is used when	<i>(withdrawn)</i> the frame is in test
To: "The 4	MI field is encod	ed with the value of the co	inter for the first	non-stuff 257-bit block	Suggested Add d	dRemedy escription of the M	INT field.		
that is	mapped into the	bayload area of the 800GB	ASE-ER1 tributa	ary multi-frame."	Response		Response Status Z		
Response		Response Status C			REJE	CT.	. –		
ACCE	PT.				This c	omment was WIT	HDRAWN by the commen	ter.	

Cl	186
SC	186.2.4.6.2

C/ 186	SC 186.2.4.6.5	6 P 581	L 26	# 215	C/ 186	SC 186.3.1.3	P584	L11	# 82
Slavick, J	eff	Broadcom			Huang, Ke	echao	Huawei		
Comment	Type TR	Comment Status A		(bucket)	Comment	Туре Т	Comment Status A		(bucket)
When	the feature is not	supported or disabled the Al	ML is ignored.		In the	receive direction	of Figure 186-12, symbol de	einterleaving is n	ot required.
Suggestee	dRemedy				Suggestee	dRemedy			
Add "o	or not supported" a	fter disabled.			Chang	ge "Polarization c	ombining and symbol deinte	rleaving" to "Pola	arization combining"
Response		Response Status C			Response		Response Status C		
ACCE	PT IN PRINCIPLE				ACCE	PT.			
Chang To: "V	ge: "When the aligr When the alignmen	nment marker location feature is r	re is disabled," not supported o	r not enabled,"	C/ 186	SC 186.3.3.1	P 586	L 39	# 83
[Edito	r's note: changed p	bage/line from 575/47 to 581	1/26]		Huang, Ke	echao	Huawei		
	00 400 0 4 0	DECO		# 00	Comment	Туре Т	Comment Status A		(bucket)
C/ 186	SC 186.3.1.3	P583	L18	# 80	The g	ray mapping deta	ils are not the same as the a	adopted baseline	e, where even bits of
Huang, Ko	echao	Huawei			each a	8-bit block (C_8i,C ed to X polarizatio	_8I+1,C_8I+2,C_8I+3,C_8I+4	,C_8I+5,C_8I+6,C anned to Y polar	_8I+7) Should be
Comment	Туре Т	Comment Status A		(bucket)	https:/	//www.ieee802.org	g/3/dj/public/23_07/nicholl_3	dj_02a_2307.pd	f (also see OIF 800ZR
In the	transmit direction	of 800GBASE-ER1 PMA fur	nctions, "interlea	aving" after Gray	IA)			<i>,</i>	,
тарр	ing is not required,	as shown in Figure 186-12	(also see OIF 8	00ZR IA).	Suggestee	dRemedy			
Suggestee	dRemedy				Chang	g "(c_8i,c_8i+1)" t	o "(c_8i,c_8i+2)" in line 39;		
Chang	ge "Gray mapping, ing and distribution	of symbols for transmission	n of symbols for n"	transmission" to "Gray	chang	"(c_8i+2,c_8i+3) "(c_8i+4_c_8i+5)	" to "(c_8i+4,c_8i+6)" in line " to "(c_8i+1_c_8i+3)" in line	40;	
Response		Response Status C			chang	"(c_8i+6,c_8i+7)	" to "(c_8i+5,c_8i+7)" in line	42	
ACCE	PT.				Response		Response Status C		
					ACCE	PT.			
C/ 186	SC 186.3.1.3	P583	L 39	# 81	C/ 186	SC 186.3.3.1	P587	17	# 84
Gammant				(hug/st)	Huang Ki	echao	Huawei		
In the	receive direction	comment status A	required	(DUCKEI)	Comment	Type T	Comment Status		(bucket)
		symbol deinteneaving is not	required.		Even	hits should be ma	oped to X polarization and c	odd bits should b	e mapped to Y
Suggested	dRemedy				polariz	zation			
Chang	ge "Polarization col	mbining and symbol deinter	leaving." to "Pol	arization combining."	Suggestee	dRemedy			
Response		Response Status C			Chang	ge "X: (c_8i,c_8i+	1,c_8i+2,c_8i+3)" to "X: (c_8	3i,c_8i+2,c_8i+4,	c_8i+6)" in line7,
ACCE	PT.				and cl line8	hange "Y: (c_8i+4	,c_8i+5,c_8i+6,c_8i+7)" to "	Y: (c_8i+1,c_8i+	3,c_8i+5,c_8i+7)" in
					Response		Response Status C		
					ACCE	PT.			

C/ 186 SC 186.3.3.1

C/ 186 SC 186.3.4.2 P593 L42 # L4 Brown, Matt Aphawave Semi Aphawave Semi Nudia Grownent Type T Comment Status A (bucketp) Should refer to "CRC error ratio" rather than 'frame loss ratio". (bucketp) SuggestedRemedy Comment Type T Comment Type T Nudia Change: Response Status C Response Status C Nudeacoment Type T ACCEPT IN PRINCIPLE. Change: P694 L20 # DO Change: PFMD in combination with the PMA and FEC is required to meet the CRC error ratio specifications in 187.2.* Cit 186 SC 186.4.1 P594 L30 # [216] Change: Notice Comment Status R (withdrawn) Futurewei, U.S. Subsidiary of Huawei Stavick, Jaff Broadcom (withdrawn) SuggestedRemedy Add the follwing the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1.* (Withdrawn) Response Response Status Z Response Status C SuggestedRemedy Add the follwing the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1.* (Bit SC 186.4.2 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
Brown, Matt Alphawave Semi Bruckman, Leon Nuidia Comment Type T Comment Status A (bucket) Should refer to "CRC error ratio" rather than "trame loss ratio". (bucket) In the definitions of ramil_bad_cnt and zero_aml_cnt 800GBASE-ER1 includes an underscore instead of a dash. Suggested/Remedy Change: Response Status C ACCEPT ACCEPT. Response Status C Change: 'A PHY is required to meet the frame loss ratio specifications in 187.2.*' ('In the definitions of ramil_bad_cnt and zero_aml_cnt change: "800GBASE-RPT. Comment Status A (bucket) C1 165 SC 165.4.1 P594 L30 # 216 D'Ambrosia. John Futurewei, U.S. Subsidiary of Huawei Comment Type TR Comment Status A (withdrawn) Missing that ++ means increment by 1 Suggested/Remedy Suggested/Remedy In the ER / ER-1 PHYs the 800GBASE-R PC Si snow used. This is called out in this manner in table 167-1 1206-800CAUI-8 C2X Optional (note c) 1728-800CBASE-R PC Si snow used. This is called out in this manner in table 168-3a. Table 187-1 1206-800CAUI-8 C2X Optional (note c) 1728-800CBASE-R PM-PMA Conditional (Note	C/ 186 SC 186.3.	4.2 P593	L 42	# 14	C/ 186	SC	186.4.2.3	P 599	L 36	# 68
Comment Type T Comment Status A (bucket) Should refer to "CRC error ratio" rather than "frame loss ratio". (bucket) Suggested/Remedy Change "codeword error ratio" to "CRC error ratio". Comment Type R Comment Status A (bucket) Response Response Status C ACCEPT IN PRINCIPLE. Change: "A PHY is required to meet the frame loss ratio specifications in 187.2." In the definitions of ram_bad_cnt and zero_ami_cnt change: "800GBASE-ER1" to: "800GBASE-ER1" ''A PHY is required to meet the frame loss ratio specifications in 187.2." In the definitions of ram_bad_cnt and zero_ami_cnt change: "800GBASE to "800GBASE	Brown, Matt	Alphawave S	Semi		Bruckmar	n, Leon		Nvidia		
Should refer to "CRC error ratio" rather than "frame loss ratio". In the definitions of raml_bad_cnt and zero_aml_cnt 800GBASE-ER1 includes an underscore instead of a dash SuggestedRemedy Response Status C ACCEPT IN PRINCIPLE. Change: "A PHY is required to meet the frame loss ratio specifications in 187.2." To: To: "A PHY is required to meet the frame loss ratio specifications in 187.2." To: "A PHY is required to meet the frame loss ratio specifications in 187.2." To: "A PHY is required to meet the frame loss ratio specifications in 187.2." Cl 186 SC 186.4.1 P594 L30 # [216] SugestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." (withdrawn) Missing that ++ means increment by 1 SuggestedRemedy Add to Fable 187-1 Add to Fable 187-1 Add to fable following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." Table 180-30.116 a C2C Optional (note c) 1726-800GAUI-8 C2C Monitonal (Note c) Table 180-30.116 a C2C Optional (note c) 1726-800GAUI-8 C2C Monitonal (Note c) Table 300GAUI-4 C2M Optional (Note c) 1726-800GAUI-4 C2M Optional (Note c) Table 300GAUI-4 C2M Opt	Comment Type T	Comment Status A		(bucketp)	Comment	Туре	ER	Comment Status A		(bucket)
SuggestedRemedy underscore instead of a dash SuggestedRemedy Response Status C ACCEPT IN PRINCIPLE. Response Status C Change: "A PHY is required to meet the frame loss ratio specifications in 187.2." To: "A PMD in combination with the PMA and FEC is required to meet the CRC error ratio specifications in 187.2." Cl 186 SC 186.4.1 P594 1.30 # 216 Slavick, Jeff Broadcom (withdrawn) Missing that ++ means increment by 1 SuggestedRemedy Comment Status A (bucket) SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer REFLECT. SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer REFLECT. Note c - One or two 800GAUI-8 C2C Optional (note c) 120C-800GAUI-8 C2C Optional (note c) 120C-800GAUI-8 C2C Optional (Note c) Trise comment vase WITHDRAWN by the commenter. EXT # FT PF Note c - One or two 800GAUI-n may be inflated within a 800GBASE-ER BM-PMA or SM-PMA is antiated within a 800GBASE-ER BM-PMA or SM-PMA is antiated within a 800GBASE-ER BM-PMA or SM-PMA is antiated within a 800GBASE-ER BM-PMA or SM-PMA is antiate is to first paragraph "The notati	Should refer to "CR	C error ratio" rather than "frame	loss ratio".		In the	definitio	ons of raml	_bad_cnt and zero_aml_cnt	t 800GBASE-EF	R1 includes an
Change "codeword error ratio". Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. Change: "800GBASE-ER1" Change: "A PMP1 is required to meet the frame loss ratio specifications in 187.2." Change: "ACCEPT. "A PMD in combination with the PMA and FEC is required to meet the CRC error ratio specifications in 187.2." P615 L20 # [30	SuggestedRemedy				under	score in	stead of a	dash		
Response Response Status C ACCEPT IN PRINCIPLE. Change: "A PHY is required to meet the frame loss ratio specifications in 187.2." To: "A PMP is required to meet the frame loss ratio specifications in 187.2." CI 186 SC 186.4.1 P594 L30 # 216 Slavick, Jeff Broadcom (withdrawn) Missing that ++ means increment by 1 StagestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy This comment was WITHDRAWN by the commenter. C1 186 SC 186.4.1.1 P595 L27 # 67 This comment Type TR Comment Type TR Comment Type TR Comment Status A (bucket) Cl 186 SC 186.4.2.1 P595 L27 # 67 Note - One or two 800GAUI-n may be instantiated within a 800GBASE-R BN-PMA or Status C Ruckman, Leon Nvidia Comment Type TR Comment Status A (bucket) Ruckman, Leon Nvidia Comment Status A (bucket) Note One or two 800GAUI-n m	Change "codeword	error ratio" to "CRC error ratio".			Suggestee	dRemec	ly 			
ACCEPT IN PRINCIPLE. Change: ''A PHY is required to meet the frame loss ratio specifications in 187.2." ''A PMD in combination with the PMA and FEC is required to meet the CRC error ratio specifications in 187.2." Cl 186 SC 186.4.1 P594 L30 # 216 Slavick, Jeff Broadcom (withdrawn) Missing that ++ means increment by 1 Suggested/Remedy Add the following the sentence to first paragraph 'The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." Suggested/Remedy Add the following the sentence to first paragraph 'The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." Suggested/Remedy REJECT. This comment Status A (bucket) This comment was WITHDRAWN by the commenter. P595 L27 # 07 Cl 186 SC 186.4.2.1 P595 L27 # 07 Bruckman, Leon Nvidia (bucket) Range of variable usually indicated using 'to'n ot a dash. (bucket) Suggested/Remedy Response Status C Accept To ''To'' to to 7''. Ye 10 to 7''.	Response	Response Status C			In the "800G	definitio BASE-I	ons of raml ER1"	_bad_cnt and zero_aml_cnt	t change: "800G	BASE_ER1" to:
Change: "A PHY is required to meet the frame loss ratio specifications in 187.2." Ci 186 SC 186.4.1 P594 L30 # 216 Ci 186 SC 186.4.1 P594 L30 # 216 Broadcom Futurewei, U.S. Subsidiary of Huawei Slavick, Jeff Broadcom Broadcom Futurewei, U.S. Subsidiary of Huawei Comment Type TR Comment Status R (withdrawn) Missing that ++ means increment by 1 Suggested/Remedy Table 187-1 does not reflect this. Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." Note C- One or two 800GAUI-8 C2C Optional (note c) Tobe SC 186.4.2.1 P595 L27 # 87 Pruckman, Leon Nvidia (bucket) Range of variable usually indicated using "to" not a dash. (bucket) Suggested/Remedy Response Status C Accept Ti Nor Comment Status A (bucket) Response Trape TR Comments. P595 L27 # 87 Comment Type TR Comment Status A (bucket) Note - One or two 800GAUI-4 C2C Optional (Note c) 1768-00GAUI-4 C2C Optional (Note c) Suggested/Remedy Rasonfall to the subality indicated using "to" not a dash. (bucket) Note - One or two 800GAUI-4 C2C Optional (Note c) Suggested/Remedy Note - I a 800GAUI-1	ACCEPT IN PRINC	IPLE.			Response	•		Response Status C		
 ⁿA PHY is required to meet the frame loss ratio specifications in 187.2." ⁿA PMD in combination with the PMA and FEC is required to meet the CRC error ratio specifications in 187.2." <i>CI</i> 186 SC 186.4.1 P594 L30 # 216 <i>CI</i> 187 SC 187.1 P615 L20 # 30 <i>CI</i> 186 SC 186.4.1 P594 L30 # 216 <i>I</i> 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. <i>SuggestedRemedy</i> Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." <i>Response Response Status Z</i> <i>REJECT.</i> <i>This comment Was WITHDRAWN by the commenter.</i> <i>CI</i> 186 SC 186.4.2.1 P595 L27 # 67 Bruckman, Leon Nvidia <i>Comment Type</i> TR <i>Comment Status</i> A (bucket) Response <i>Response Status</i> C (CEPT IN PRINCIPLE. Implement suggested remedy with editorial license. 	Change:				ACCE	PT.				
10: *A PMD in combination with the PMA and FEC is required to meet the CRC error ratio specifications in 187.2." For the form of the period of the peri	"A PHY is required t	o meet the frame loss ratio spe	cifications in 187	7.2."	C/ 187	SC	187 1	P615	/ 20	# 20
specifications in 187.2." P594 L30 # 216 Cl 186 SC 186.4.1 P594 L30 # 216 Slavick, Jeff Broadcom Comment Type TR Comment Status A (bucket) Comment Type TR Comment Status R (withdrawn) (withdrawn) (bucket) Missing that ++ means increment by 1 SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." (withdrawn) Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy Add the following the collowing the collowing the collowing the collowing the collowing the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy Add the following the collowing the	"A PMD in combina	ion with the PMA and FEC is re	equired to meet t	he CRC error ratio		ia lobr		Futurowoi II	S Subsidiary of	f Huowoi
Cl 186 SC 186.4.1 P594 L30 # 216 Cl 186 SC 186.4.1 P594 L30 # 216 Slavick, Jeff Broadcom 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. SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy Response Response Status Z This comment was WITHDRAWN by the commenter. Cl 186 SC 186.4.2.1 P595 L27 # 167 Procement Type TR Comment Status A (bucket) Range of variable usually indicated using "to" not a dash. (bucket) Note c - One or two 800GAUI-n is implemented in a PHY, additional 800GBASE-R BM-PMA or SM-PMA conditional 100 to the guidelines in 176B.6.1. SuggestedRemedy Change: "0-7" To: "0 to 7". Comment Status A (bucket)	specifications in 187	7.2."			Comment	Type	тр	Comment Status A	S. Subsidiary 0	(buckot)
Slavick, Jeff Broadcom Comment Type TR Comment Status R (withdrawn) Missing that ++ means increment by 1 SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." Add to Table 187-1 Response Response Status Z This comment was WITHDRAWN by the commenter. C1 186 SC 186.4.2.1 P595 L27 # 67 Bruckman, Leon Nvidia (bucket) Range of varaible usually indicated using "to" not a dash. (bucket) SuggestedRemedy CCEPT IN PRINCIPLE. Response Response Status C Comment Type TR Comment Status A	C/ 186 SC 186.4.	1 <i>P</i> 594	L30	# 216	In the	FR / FI	TR 2-1 PHVs t	be 800GBASE-R PCS is no	wused This n	(Ducker) neans that an Al II can
Comment Type TR Comment Status R (withdrawn) Missing that ++ means increment by 1 SuggestedRemedy (withdrawn) SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." Missing that ++ means increment Comment Type Response Response Status Z Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." Note C 220 Optional (note c) 120G-800GAUI-8 C2M Optional (Note d) 176-800GBASE-R BM-PMA Conditional (Note d) 176-800GBASE-R SM-PMA Conditional (Note d) 176-800GBAUI-4 C2C Optional (Note c) 176-800GAUI-4 C2C Optional (Note c) 176-800GAUI-4 C2C Optional (Note c) 176D-800GAUI-4 C2C Optional (Note c) 176D-80	Slavick Jeff	Broadcom			be use	ed optio	nally betwe	en the PCS and FEC subla	ayers. This is ca	alled out in this manner
Missing that ++ means increment by 1 SuggestedRemedy Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." SuggestedRemedy Response Response Status Z 120F-800GAUI-8 C2M Optional (note c) REJECT. This comment was WITHDRAWN by the commenter. 176E-800GAUI-4 C2M Optional (Note c) C/ 186 SC 186.4.2.1 P595 L27 # 67 Bruckman, Leon Nvidia (bucket) Note c - One or two 800GAUI-n may be instantiated within a 800GBASE-R BM-PMA or SM-PMA sublayers are required according to the guidelines in 176B.6.1. Range of variable usually indicated using "to" not a dash. (bucket) SuggestedRemedy Change: "0-7" To: "0 to 7". "to to 7".	Comment Type TR	Comment Status R		(withdrawn)	in Tab	ole 169-3	3a. Table '	187-1 does not reflect this.		
SuggestedRemedy Add to Table 187-1 SuggestedRemedy Add to Table 187-1 Add to Table 187-1 120F-800GAUI-8 C2C Optional (note c) variable indicates that its value is to be incremented by 1." 120F-800GAUI-8 C2C Optional (note c) Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. 176E-800GAUI-4 C2C Optional (Note c) C/ 186 SC 186.4.2.1 P595 L27 # 67 Bruckman, Leon Nvidia (bucket) Note c - One or two 800GAUI-n may be instantiated within a 800GBASE-ER or 800GBASE-ER or 800GBASE-ER or 800GBASE-ER or 800GBASE-ER or 800GBASE-ER or 800GBASE-ER IN-PMA or SM-PMA sublayers are required according to the guidelines in 176B.6.1. Range of varaible usually indicated using "to" not a dash. (bucket) SuggestedRemedy Change: "0-7" To: "0 to 7". To: "0 to 7".	Missing that ++ mea	ans increment by 1		(Suggestee	dRemec	ły			
Add the following the sentence to first paragraph "The notation ++ after a counter or integer variable indicates that its value is to be incremented by 1." 12/0+300GAUI-8 C2C Optional (Note c) Response Response Status Z REJECT. 12/0+300GAUI-8 C2C Optional (Note c) This comment was WITHDRAWN by the commenter. 17/6-800GAUI-8 C2M Optional (Note c) C/ 186 SC 186.4.2.1 P595 L27 # 67 Bruckman, Leon Nvidia (bucket) Note c - One or two 800GAUI-n is implemented in a PHY, additional 800GBASE-R BM-PMA or SM-PMA sublayers are required according to the guidelines in 176B.6.1. Response for variable usually indicated using "to" not a dash. (bucket) Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Implement suggested remedy with editorial license.	SuggestedRemedy	,			Add to	Table	187-1	Intianal (nota a)		
Name Note of the interment of the intermented by 1." Response Response Status Response Response Status REJECT. This comment was WITHDRAWN by the commenter. C/ 186 SC 186.4.2.1 P595 L27 # 67 Bruckman, Leon Nvidia Comment Type TR Comment Status A Range of varaible usually indicated using "to" not a dash. SuggestedRemedy Change: "0-7" To: "0 to 7".	Add the following th	e sentence to first paragraph "T	he notation ++ a	after a counter or integer	120F- 120G-	800GA	UI-8 C2C C	Optional (note c)		
Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. Image: Cl 186 SC 186.4.2.1 P595 L27 # 67 Bruckman, Leon Nvidia Kesponse Status A (bucket) Range of varaible usually indicated using "to" not a dash. (bucket) Note c - One or two 800GAUI-n may be instantiated within a 800GBASE-R BM-PMA or SM-PMA conditional (Note c) SuggestedRemedy Change: "0-7" To: "0 to 7". Comment Type Tr. Comment Type Tr. Comment Type Tr.	variable indicates th	at its value is to be incremented	d by 1."		173-8	00GBA	SE-R BM-P	MA Conditional (Note d)		
REJECT. This comment was WITHDRAWN by the commenter. Cl 186 SC 186.4.2.1 P595 L27 # 67 Bruckman, Leon Nvidia Nvidia Comment Status A (bucket) Range of varaible usually indicated using "to" not a dash. (bucket) Note c - One or two 800GAUI-n may be instantiated within a 800GBASE-ER or 800GBASE-ER or 800GBASE-R BM-PMA or SM-PMA sublayers are required according to the guidelines in 176B.6.1. SuggestedRemedy Change: "0-7" To: "0 to 7". Change: "0-7" To: "0 to 7".	Response	Response Status Z			176-8 176C-	00GBA	SE-R SM-P	MA Conditional (Note d)		
This comment was WITHDRAWN by the commenter. CI 186 SC 186.4.2.1 P595 L27 # 67 Bruckman, Leon Nvidia Comment Type TR Comment Status A (bucket) Range of varaible usually indicated using "to" not a dash. (bucket) Note c - One or two 800GAUI-n may be instantiated within a 800GBASE-ER or 800GBASE-R SuggestedRemedy Change: "0-7" To: "0 to 7". Comment Type TR Comment Type	REJECT.				176D-	800GA	UI-4 C2M C	Dptional (Note c)		
C/ 186 SC 186.4.2.1 P595 L27 # 67 Bruckman, Leon Nvidia Nvidia ER-1 PHY, as described in 176B.6.1. Comment Type TR Comment Status A (bucket) Range of varaible usually indicated using "to" not a dash. (bucket) SuggestedRemedy Change: "0-7" To: "0 to 7". Change: "0-7" To: "0 to 7".	This comment was	WITHDRAWN by the commenter	er.		Note of	c - One	or two 8000	GAUI-n may be instantiated	l within a 800GE	BASE-ER or 800GBASE-
Bruckman, Leon Nvidia Comment Type TR Comment Status A (bucket) (bucket) Range of varaible usually indicated using "to" not a dash. (bucket) SuggestedRemedy Change: "0-7" To: "0 to 7".	CI 186 SC 186.4	2 1 P505	/ 27	# 67	ER-1	PHY, as	s described	in 176B.6.1.		
Comment Type TR Comment Status A (bucket) Response Response Response Status C Range of varaible usually indicated using "to" not a dash. (bucket) ACCEPT IN PRINCIPLE. Implement suggested remedy with editorial license. SuggestedRemedy Change: "0-7" To: "0 to 7". To: "0 to 7".	Bruckman Leon	Nvidia		" 01	PMA	sublaye	rs are requi	ired according to the guideli	ines in 176B.6.1	
Range of varaible usually indicated using "to" not a dash. ACCEPT IN PRINCIPLE. SuggestedRemedy Implement suggested remedy with editorial license.	Comment Type TR	Comment Status A		(bucket)	Response	,		Response Status C		
Suggested Remedy Change: "0-7" To: "0 to 7".	Range of varaible usually indicated using "to" not a dash					ACCEPT IN PRINCIPLE.				
Change: "0-7" To: "0 to 7".	SuggestedPorredu				Implei	ment su	ggested re	medy with editorial license.		
	Change: "0-7" To: "() to 7"								
Pospone Pospone Status C	Posponso	Boononoo Statua								
	ΔΟΟΕΡΤ	nesponse status								

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/ 187 SC 187.1 Page 48 of 49 3/11/2025 10:45:27 PM

	30 107.1	P616	L13	# 37
D'Ambrosia	a, John	Futurewei, U.	S. Subsidiary of	Huawei
Comment T	уре Е	Comment Status R		PCS name (bucket)
As the a is incon	800GBASE-ER isistent to call o	1/ER1-20 now uses the same but the full name of the sublaye	PCS as other 8 er 800GBASE-F	800GBASE-R PHYs, it ₹ PCS
SuggestedF	Remedy			
Replace	e "800GBASE-I	R PCS" with "PCS"		
Response		Response Status C		
REJEC	Т			
Resolve	e using the resp	oonse to comment #34.		
C/ 187	SC 187.3	P 617	L 39	# 177
Opsasnick,	Eugene	Broadcom		
Comment T	уре Е	Comment Status A		(bucket)
PHY 80 present	0GXS can be r in the diagram	emoved from the legend in Fi	gure 187-2 sinc	e that sublayer is not
SuggestedF	Remedy			
Remove remove	e the PHY 8000 d since they als	GXS definiton from the figure l	egend, DTE an am	d XS can also be
Response		Response Status C		
Response ACCEP Implem	PT IN PRINCIPL ent suggested	Response Status C E. remedy with editorial license.		
Response ACCEP Implem Cl 187	PT IN PRINCIPL ent suggested SC 187.6.1	Response Status C E. remedy with editorial license. P623	L51	# [71
Response ACCEP Implem Cl 187 Bruckman,	PT IN PRINCIPL ent suggested SC 187.6.1 Leon	Response Status C E. remedy with editorial license. P623 Nvidia	L51	# 71
Response ACCEP Implem Cl 187 Bruckman, Comment T	PT IN PRINCIPL ent suggested SC 187.6.1 Leon Type TR	Response Status C E. remedy with editorial license. P623 Nvidia Comment Status R	L51	# 7 <u>1</u> (bucket)
Response ACCEP Implem Cl 187 Bruckman, Comment T In Table mask fr	PT IN PRINCIPL ent suggested SC 187.6.1 Leon Type TR e 187-5 it is not requency (max)	Response Status C E. remedy with editorial license. P623 Nvidia Comment Status R clear which rows correspond	L 51 to "Tx clock pha	# 7 <u>1</u> (bucket) ase noise: phase noise
Response ACCEF Implem Cl 187 Bruckman, Comment T In Table mask fr Suggestedf	T IN PRINCIPL ent suggested SC 187.6.1 Leon ype TR e 187-5 it is not equency (max) Remedy	Response Status C LE. remedy with editorial license. P623 Nvidia Comment Status R clear which rows correspond	L 51 to "Tx clock pha	# [71 <i>(bucket,</i> ase noise: phase noise
Response ACCEP Implem Cl 187 Bruckman, Comment T In Table mask fr SuggestedF Merge a (max)"	T IN PRINCIPL ent suggested SC 187.6.1 Leon ype TR e 187-5 it is not equency (max) Remedy all the rows that	Response Status C E. remedy with editorial license. P623 Nvidia Comment Status R clear which rows correspond	L 51 to "Tx clock phase se noise: phase	# <u>71</u> (bucket, ase noise: phase noise noise mask frequency
Response ACCEP Implem Cl 187 Bruckman, Comment T In Table mask fr Suggestedf Merge a (max)" Response	T IN PRINCIPL ent suggested SC 187.6.1 Leon ype TR e 187-5 it is not equency (max) Remedy all the rows that	Response Status C E. remedy with editorial license. P623 Nvidia Comment Status R clear which rows correspond correspond to "Tx clock phase Response Status C	L 51 to "Tx clock phase se noise: phase	# 7 <u>1</u> (bucket) ase noise: phase noise noise mask frequency

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/ 187 SC 187.6.1 Page 49 of 49 3/11/2025 10:45:27 PM