C/ 167 SC 167.8.1	P 53	L 20	# 1	C/ 167 SC 167.8	.6 P55	L19	# 4		
Ghiasi, Ali	Ghiasi Quantu	um/Marvell		Ghiasi, Ali	Ghiasi (Quantum/Marvell			
Comment Type TR	Comment Status X			Comment Type ER	Comment Status)			
There is no definition of PCS sginal	valid 100GBASE-ZV1/SR1,	etc., instead you	I should reference the	Font for table 167-1 SuggestedRemedy	2 is different thatn other ta	bles			
SuggestedRemedy				Please use the same font and					
Please replace PMD sig 200GBASE-R, or 400GE	nals with PCS signals, 1000 BASE-R signals	GBASE-R with C	L91 RS-FEC,	Proposed Response	Response Status V	v			
Proposed Response	Response Status W			PROPOSED ACCE	PT IN PRINCIPLE. 2 is the same as other tab	log. The interior and a	syterier bordere ere p		
DISCUSS					and will be changed.	les. The interier and e	stenor borders are no		
	5, 138, and 150 have define ch as 121 and 150 have def			C/ 167 SC 167.8	.6.1 <i>P</i> 55	L 33	# 5		
C/ 167 SC 167.8.14	P 57	L 25	# 2	Ghiasi, Ali	Ghiasi (Quantum/Marvell			
Ghiasi, Ali	Ghiasi Quantu	um/Marvell		Comment Type TR	Comment Status X	[
Comment Type TR There is no clause 121.8	Comment Status D 3.10			measured data from https://www.ieee802.org/3/db/public/September-09-September-29- 2021/ghiasi_802.3db_01_092321.pdf page 6 show that taps 7, 8, and 9 are <5%					
SuggestedRemedy				SuggestedRemedy					
Please replace 121.8.10	with 121.8.9 for stress rece	eiver sensitivity te	est	Suggest reducing ta	aps 6 and 7 to 10%, and ta	ps 8 and 9 to 5%			
Proposed Response	Response Status W			Proposed Response	Response Status V	v			
PROPOSED ACCEPT I Stressed receiver sensit	N PRINCIPLE.	er 121.8.10 in P8	02.3dc D3.0.	DISCUSS The absolute values of taps 7, 8, and 9 are constrained to be less than 0.4, 0.3, an					
C/ 167 SC 167.8.14.1	P 57	L 57	# 3	respectively in D2.1					
Ghiasi, Ali	Ghiasi Quantu	um/Marvell			weights on the reference e	qualizer will depend o	n the extent of pre-		
Comment Type TR	Comment Status X			emphasis on the Ta	drive signal.				
	1.8.9 for stress receiver ser we are referencing CL121 v				021.pdf contains an examp o weights of 0.39 (#6), 0.16				
SuggestedRemedy									
Remove CL 167.8.14.1									
Proposed Response	Response Status W								

C/ 167	SC 167.7.1	P 49	L 27	# 6	C/ 116	SC 116.1.3	P 32	L 37	# 9	
Shiasi, Al		Ghiasi Quant	um/Marvell		Dawe, Pier	S	Nvidia			
Comment It was cost. https: 2021/ Suggester MMSI better meas taps v produ TDEC searc	si, Ali Ghiasi Quantum/Marvell ment Type TR Comment Status X was shown that TDECQ with MMSE is accurate and reduce test time and associated test ost. ttps://www.ieee802.org/3/db/public/September-09-September-29- 021/ghiasi_802.3db_01_092321.pdf estedRemedy MSE is representative of real receiver and a full grid search may produce results sligity etter, as shown by in Ghiasi contribution there is excellent correlation for scope neasurements. MMSE will reduce test time specillay given 802.3db reference receiver is 9 aps will longer to do full grid search and will increase test cost. Full grid search may roduce as much as 0.2 dB of lower TDECQ than real receiver and pushing real DECQ>4.5 dB is risky. Task force need to make a decision either stay with sull grid earch and reduce TDECQ to 4.3 dB or stay with current 4.4 dB with MMSE. <i>Speed Response</i> Response Status W				 Comment Type E Comment Status D Some tables put e.g. 100GBASE-SR1 before 100GBASE-SR2 because the reach on OI is a little less, others put e.g. 200GBASE-SR2 before 200GBASE-SR4 because it's narrower. Typically, reach takes precedence. Anyway, we should be consistent. SuggestedRemedy If reach takes strict precedence: change tables 78-1 80-1 116-1 116-2 116-4 116-5 and 7. If the other way, change tables 80-5, 80-7 and 116-6. Either way, the new PMDs have less reach than 400GBASE-SR4.2 (150 m on OM5) - change tables 116-2 and 116-7. Make the lists in e.g. PICS 91.7.3 consistent with the decision. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. 					
refere dating for Ap Amen Suggeste Consi Proposed PROF	<i>Type</i> T lormative reference nced document (i the reference is the refer	ncluding any amendments of to exclude future amendment y) until 802.3 acts to referen done anyway. x". <i>Response Status</i> W IN PRINCIPLE.	P56 L35 # 8 Nvidia Status D undated references, the latest edition of the mendments or corrigenda) applies." So the effect of re amendments after Amendment 1 (which is forecast acts to reference them, not to mandate the			 Comment #241 on D2.0 stated: "Comment #65 against P802.3cj D2.0 defined the order of items in Table 78-1. S http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID.pdf#p: Sort the result in "speed/reach" order using the following set of rules. 1. Increasing speed. 2. Increasing reach (maximum supported distance over the medium). 3. Decreasing number of lanes The following supplemental rules address are included to address special cases. 4. PHY "family designations, by convention, are assigned a reach of 0. 5. "Copper" PHYs precede "Fiber" PHYs (all else being equal). 6. Alphanumeric sort (all else being equal). 				

C/ 167	SC 167.8.2	P 53	L 33	# 16	C/ 167	SC 167.8.13	P 57	L11	# 20			
Dawe, Pier	S	Nvidia			Dawe, Pie	rs	Nvidia					
Comment	Type E	Comment Status D			Comment	Туре Т	Comment Status D					
	escription assum PMD also.	nes there are 4 lanes, but mu	Ilti-lane testing c	onsiderations apply to a	interfa	This says "The receiver sensitivity (OMAouter) *of each lane*", but as we have adopted interface BER for stressed sensitivity, we should be consistent and adopt it for this sensitivity too. Using the interface BER method for sensitivity is still conservative because we don't average the TDECQ, so some Tx-Rx lanes are better than spec. Also, I didn't see a reference to 167.1.1, which is relevant because errors should be counted correctly considering Gray coding, which is a PMA function.						
	e "the three uns	tressed lanes" to "the one or to "multiplying by two or four		d lanes", change	we do Also, I							
Proposed I	Response	Response Status W			Suggested	Remedy						
Implen Chang	nent with editoria				In 167 stress	ed receiver sens	ressed receiver sensitivity is itivity are defined". to 167.1.1 Bit error ratio and					
		ed in turn, the BER is diluted l lane alone is found, e.g., by r			Proposed	Response	Response Status W					
	nave low BER."					OSED ACCEPT nent with editori	IN PRINCIPLE. al license.					
for that		ed in turn, the BER is diluted l alone is found, e.g., by multip e low BER."		"The r to	In 167.8.13, change "The receiver sensitivity (OMAouter) of each lane shall be within the limit" to "The receiver sensitivity (OMAouter) shall be within the limit".							
					-	.8.13, add nulti-lane testing	considerations, see 167.8.2.	11				
					"Stres to		sitivity is defined" nd stressed receiver sensitivi	ity are defined'	".			

/ 167	SC 167.8.14	P 57	L 42	# 21	C/ 167	SC 167.	11.4.6	P 69	L13	# 24		
awe, Piers	6	Nvidia			Dawe, Pier	s		Nvidia				
comment T	Гуре Т	Comment Status D			Comment	Гуре Е		Comment Status D				
		equired to be met for each			This ta	ble should	mentior	n VRn as well as SRn				
		face BER method for sens Q, so some Tx-Rx lanes ar			SuggestedRemedy							
For an	example, 95.8.8.1	1 says: For 100GBASE-SR	4 the relevant BE	R is the interface BER	Several places							
	MD service interf	Proposed Response Response Status W										
receive lanes when stressed: see 95.8.1.1. If present, the RS-FEC sublayer can measure the lane symbol error ratio at its input. The lane BER can be assumed to be one tenth of						OSED ACC	EPT IN	PRINCIPLE.				
	e symbol error rat	Chang	e 167.11.4.	6 as fol	lows:							
		all the lanes when stressed ence to 167.1.1, which is re		rrors should be	0	6 107.11.4.	0 43 101	10W3.				
counted	d correctly conside	ering Gray coding, which is	s a PMA function.		OC4							
uggestedł	Remedy					yout for 200	GBASI	E-VR2 and 200GBASE-SF	Κ Ζ			
		ired to be met for each lan			OC5							
	entry to the list of and 167.8.2."	f exceptions from 121: "Th	e relevant BER is	the interface BER; see	MDI la	yout for 400	GBASE	E-VR4 and 400GBASE-SF	84			
-		bout how to find BER using	FEC symbol cou	nters to 167.8.2.	OC6							
roposed F	Response	Response Status W			MDI m	ating, 1000	BASE-	VR1 and 100GBASE-SR1				
	OSED ACCEPT I				OC7							
Implem	ent with editorial	license.			MDI re	quirements	for 100	GBASE-VR1 and 100GBA	ASE-SR1			
In 167.8	'				OC8							
Delete	"The BER is requ	ired to be met for each lan	e under test on its	s own".	MDI m	0,						
		ion from 121.8.10:			200GB	ASE-VR2,	200GB	ASE-SR2, 400GBASE-VR	4 and 400GBAS	E-SR4		
"For mu	ulti-lane interfaces	s, the relevant BER is the i	nterface BER, see	e 167.8.2."	OC9							
/ 167	SC 167.10.2.1	P61	L 20	# 23	MDI di SR4	mensions f	or 200G	BASE-VR2, 200GBASE-	SR2, 400GBASE	E-VR4, and 400GBAS		
awe, Piers		Nvidia			014							
comment T		Comment Status D			OC10	, connecto	الم م	tone for 2000 DASE V/D2				
	51	e guidance, not guidance a	about modal band	width		0GBASE-S		sions for 200GBASE-VR2	, 200GBASE-SR	2, 400GBASE-VR4,		
uggestedl					0011							
00	e "Effective modal	OC11 MDI requirements for 200GBASE-VR2, 200GBASE-SR2, 400GBASE-VR4, and										
		r effective modal bandwidt				ASE-SR4		· · · · · · · · · · · · · · · · · · ·	, ····-	,		
roposed F	Response	Response Status W										
	OSED ACCEPT.											

C/ 167 SC 167.11.4.	.6 P69	L 21	# 25	C/ 1	SC 1.3	P 17	L 8	# 27
Dawe, Piers	Nvidia			Zimmerma	an, George	CME Co	onsulting/ADI, APL Gp	, Cisco, CommScope, M
Comment Type E	Comment Status D			Comment	Type E	Comment Status D	1	
PICS needs modification using a multifiber conn	on to align with 167.10.3.2 w nector	hich allows a 1-la	ne PMD with an MDI	versio	n of 60793-2-10	a dated reference? If un). If dated, particularly wi	th an as-yet-unpublish	ned draft, this standard
SuggestedRemedy						60793-2-10:202x (whate th achieves the end of ge		
Per comment						to move forward without	0	
Proposed Response	Response Status W			Suggeste	dRemedy			
PROPOSED ACCEPT	IN PRINCIPLE.			Delete	e the inserted da	ate (:202x) on the referen	ce to IEC 60793-2-10	:202x
Change 167.11.4.6				Proposed	Response	Response Status V	1	
OC7				PROF Discu		T IN PRINCIPLE.		
MDI requirements for 1	100GBASE-VR1 and 100GB	ASE-SR1, duplex	optical fiber connector	C/ 91	SC 91.5.3.3	P 27	L 30	# 28
C/ 167 SC 167.8.6	P 55	L11	# 26	Ran, Adee	9	Cisco		
ingle, Robert	OFS			Comment	Type ER	Comment Status D)	
Comment Type E	Comment Status D			Comn	nent #114 again	st D2.0 was resolved in a	a way that does not ac	ddress the comment.
discussion in TF and o	Q has been proposed." This t ffline. Whatever the TF decir e has served its purpose (of ote	des during comme	ent resolution on D2.0,	is unf The p Since	roblem still exist this is a normate	baragraph of 91.5.3.3 (firs ~6 now reads as 10-6. ts in the third paragraph tive requirement, it would bout (it is the option to by	which says "This option be friendly to readers	on shall not be used". to include the text tells
Proposed Response	Response Status W			The c	hange of the se	cond paragraph is unnec	essary and can be rev	verted.
PROPOSED ACCEPT	IN PRINCIPLE.			Suggeste	dRemedy			
See response to comm	nent #6.			Includ	le the entire third	d paragraph from the bas	e document as listed	below:
				error o this o 91.6.8 FEC_	correction to red otion is indicated 3). When the opt	decoder may provide the luce the delay contributed d by the assertion of the tion is provided, it is enat on_enable variable (see	d by the RS-FEC suble FEC_bypass_correction of the section of the	ayer. The presence of on_ability variable (see of the
				Chan	ge the editorial i	nstruction accordingly.		
				Rever text in		ragraph (starting with "W	hen used to form a 10	00GBASE-CR4"), to the
				Proposed	Response	Response Status V	1	
				PROF	POSED ACCEP	т.		
	ed ER/editorial required GR spatched A/accepted R/reje				d U/unsatisfied		comment ID 28	Page 5 of 9 1/7/2022 1:45:18

ned A/accepted R/rejected itten C/closed U/unsatisfied Z/v ATUS: O/open W/v 5PUNSE 51 SORT ORDER: Comment ID

1/7/2022 1:45:18 PM

C/ 167	SC 167.5.2	P 45	L 43	# 29	C/ 167	SC 167.10.3	P 61	L 37	# 31		
Ran, Adee	•	Cisco			Ran, Adee		Cisco				
Comment	Type TR	Comment Status D			Comment 7	Type TR	Comment Status D				
	omment #121 aga n" still exists.	ainst D2.0 was not implemen	ited fully - one ins	tance of "signal	I am re discuss		ent #133 against D2.0 (whic	n was marked as	oucket and not		
Suggested	Remedy				The co	mment said "R	eceiver compliance testing i	s done at TP3 wh	ich is the MDI ner		
Chang	ge "signal stream'	' to "signal".					hould apply only to the tran				
roposed	Response	Response Status W)	to al factor a como a ma			
PROP	OSED ACCEPT.				docum	ent has 11 insta	seems to have been inher ances of similar notes. How	ever, starting in cl	ause 86, this note was		
/ 1	SC 1.3	P 17	L 8	# 30			to transmitter compliance, v t TP2 as defined in 86.5.1, r				
an, Adee		Cisco					e, which fixes the issue I ref				
comment		Comment Status D			This pr	oiect should us	e the better precedent text.				
		d as 202x. I assume this doc		lished yet and it is	·		nment to the maintenance	violect to align all	clauses to the version		
expect	leu inal il is publi	shed before 802.3db is finalia	zeu.			ext in clause 86		noject to angri an			
The "2	202x" should not f	ind its way to the published a	amendment.		SuggestedRemedy						
Suggested	Remedy					e the NOTE to					
	n editor's note (to 167–15 footnote	be removed prior to publicat f.	tion) to update the	e year here and in	NOTE—Transmitter compliance testing is performed at TP2 as defined in 167.5.1, not at the MDI.						
Proposed	Response	Response Status W			Proposed F	Response	Response Status W				
	OSED ACCEPT				PROPO	DSED ACCEPT	-				
		GIII # ZI.				SC 167.8.6.	1 P55	L 30	# 32		
00010					C/ 167	00 107.0.0.	1 7 55				
00010					C/ 167 Ran, Adee	30 107.0.0.	Cisco				
					Ran, Adee <i>Comment 1</i> In "9 ta	Гуре Е	Cisco		hould be written with a		
					Ran, Adee <i>Comment 1</i> In "9 ta hyphen	<i>Type</i> E p reference equ , "9-tap".	Cisco Comment Status D	nd adjective, so s	hould be written with a		
					Ran, Adee <i>Comment 1</i> In "9 ta hyphen Compa	<i>Type</i> E p reference equ , "9-tap". re to multiple ir	Cisco <i>Comment Status</i> D ualizer", "9 tap" is a compou	nd adjective, so s base document.			
					Ran, Adee <i>Comment 1</i> In "9 ta hyphen Compa	<i>Type</i> E p reference equ , "9-tap". re to multiple ir issue with "5 ta	Cisco Comment Status D ualizer", "9 tap" is a compount instances of " <n>-bit" in the l</n>	nd adjective, so s base document.			
					Ran, Adee <i>Comment 1</i> In "9 ta hyphen Compa Similar Suggestedi	<i>Type</i> E p reference equ , "9-tap". re to multiple ir issue with "5 ta	Cisco Comment Status D ualizer", "9 tap" is a compount instances of " <n>-bit" in the l ap" in previous clauses is su</n>	nd adjective, so s base document.			
					Ran, Adee <i>Comment 1</i> In "9 ta hyphen Compa Similar Suggestedi	<i>Type</i> E p reference equals , "9-tap". re to multiple in issue with "5 ta Remedy e "9 tap" to "9-ta	Cisco Comment Status D ualizer", "9 tap" is a compount instances of " <n>-bit" in the l ap" in previous clauses is su</n>	nd adjective, so s base document.			

C/ 1 SC 1.4.14	2a P17	L 42	# 33	C/ 116	SC 116.1.3	P 32	L 35	# 35			
Dudek, Mike	Marvell			Dudek, Mik	ke	Marvell					
Comment Type E	Comment Status D			Comment	Туре Т	Comment Status D					
SR16 and 400GBA	E-SR4 be listed after 400GBA SE-SR8	SE-SR8 rather that	an between 400GBASE-	The reach is not included in the descriptions of VR and SR in table 116-1 leaving nothin that differentiates between VR and SR. Note that the reach is included to differentiate single mode variants.							
SuggestedRemedy			1 A A A A A	Suggested							
0	to 1.4.144a and make 400GB	ASE-VR4 Into sec	tion 1.4.144D	00		escription as is done for 400	G in table 116-2				
Proposed Response	Response Status W					•					
PROPOSED REJE				Proposed I	,	Response Status W					
	low a numerical and alphabetic een 400GBASE-SR16 and 400			PROP	OSED ACCEP	IN PRINCIPLE.					
after 400GBASE-S				These D2.0	reaches were r	emoved after discussion of c	omments #66, 67	7, 68, 70, 71, and 72 on			
C/ 30 SC 30.5.1	.1.2 P18	L19	# 34								
Dudek, Mike	Marvell			Discus	s as a Task Fo	ce.					
Comment Type T	Comment Status D			C/ 167	SC 167.8.14	P 57	L 43	# 36			
Removing the reac	nes has left nothing that differe	entiates between \	/R and SR. Note that	Dudek, Mik	ke l	Marvell					
draft 3.0 of 802.3cc	preserves the reaches to diffe	rentiate between F	FR and LR.	Comment		Comment Status D					
SuggestedRemedy					51	e BER to be met for each la	ne on it's own is o	conflicting with section			
Re-instate the dista	nces as they were in draft 2.0.	Also in table 116	6-1		•			Some of the section			
Proposed Response	Response Status W			Suggested	,						
PROPOSED ACCE	PROPOSED ACCEPT IN PRINCIPLE.					equired to be met for each la ied in 167.1.1. For multilane					
	e removed after discussion of	oved after discussion of comments #66, 67, 68, 70, 71, and 72 on			ed in 167.8.2" Response	Response Status W					
D2.0				,	,	,					
Discuss as a Task	Force.				esponse to comr	IN PRINCIPLE. nent #21.					

C/ FM	SC F	FM		P 2	L 40	# 40	C/ 45	SC	45.2.1.6		P 19	L 7	# 43
Grow, Rob	ert			RMG Consul	ting		Grow, Rol	bert			RMG Consul	ting	
Comment	Туре	ER	Comment	t Status D			Comment	t Type	Е	Comme	nt Status D		
						ontent that is on all other Manual Annex C (page	P802.3/D2.1, Clause 45 is still a mess for capitalization, from the Clause title using too many capitals to the erratic capitalization of "Register" in text throughout.						
uggested	Romodu	V					SuggestedRemedy						
	-		template.				A P802 comment on this was withdrawn for resubmission on P802.3/D3.0. Watch P802 comment resolution to see if improvement of the capitalization will affect this draft (P802						
Please use the correct template. Proposed Response Response Status W						comm	nent res	solution di	scussion inc	licated some sup	pport for changin	ng "Register x.y" to	
	•		IN PRINCIPI				-			•	ation editor).		
					Proposed	'		,	se Status W				
Include the following with editorial license using the correct FrameMaker template: "The Institute of Electrical and Electronics Engineers, Inc. 3 Park Avenue, New York, NY 10016-5997, USA Convicient © 2022 by the Institute of Electrical and Electronics Engineers, Inc.						The u	ise of u	pper and	IN PRINCI ower case F 0 Clause 45	R in the word "reg	gister" in P802.3d	b Clause 45 is the	
All rig	pyright © 2022 by the Institute of Electrical and Electronics Engineers, Inc. rights reserved. Published xx Month 20xx. Printed in the United States of America.			C/ 80	SC	80.1.4		P 24	L 27	# 48			
	IEEE and 802 are registered trademarks in the U.S. Patent & Trademark Office, owned by				emark Office, owned by	Grow, Rol	bert			RMG Consul	ting		
the Institute of Electrical and Electronics Engineers, Incorporated. PDF: ISBN 978-0-7381-xxxx-x STDxxxxx Print: ISBN 978-0-7381-xxxx-x STDPDxxxxx IEEE prohibits discrimination, harassment and bullying.						Comment	t Type	Е	Comme	nt Status D			
					If there is a logic in the insert point for new items, it is something I can't discern (it isn't in the Description clause number order nor alphanumeric on Name). Comments have bee submitted on such tables on P802.3/D3.0. (Also applies to 100GBASE-SR1.)								
Print: IEEE	SBN 97 prohibits	8-0-7381 discrimir	-xxxx-x STDI nation, haras	PDxxxxx sment and bully			the D	escription	on clause	number ord	ler nor alphanum	eric on Name). C	Comments have bee
Print: IEEE For m	SBN 97 prohibits pre infor	78-0-7381 discrimir mation, v	-xxxx-x STDP nation, haras visit http://ww	PDxxxxx sment and bully w.ieee.org/web	/aboutus/whatis	/policies/p9-26.html.	the D	escription itted on	on clause such tab	number ord	ler nor alphanum	eric on Name). C	Comments have bee
Print: IEEE For m No pa	SBN 97 prohibits pre informert of this	8-0-7381 discrimin mation, v publicatio	-xxxx-x STDI nation, haras visit http://ww on may be re	PDxxxxx sment and bully w.ieee.org/web	/aboutus/whatis	ectronic retrieval system	the D subm <i>Suggeste</i> Monit	escriptio itted on <i>dReme</i> or P802	on clause such tab dy	number ord es on P802 omment res	ler nor alphanum .3/D3.0. (Also aț	eric on Name). C pplies to 100GBA	Comments have bee
Print: IEEE For m No pa or oth	SBN 97 prohibits pre inform t of this erwise, w	8-0-7381 discrimin mation, v publicatio	-xxxx-x STDI nation, haras risit http://ww on may be re e prior writter	PDxxxxx sment and bully w.ieee.org/web eproduced in an	/aboutus/whatis		the D subm <i>Suggeste</i> Monit	escriptio itted on d <i>Reme</i> or P802 points	on clause a such tab <i>dy</i> 2.3/D3.0 c per that re	number ord es on P802 omment res esolution.	ler nor alphanum .3/D3.0. (Also aț	eric on Name). C pplies to 100GBA	Comments have bee SE-SR1.)
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PHY "family designations, by convention, are assigned a reach of 0.
 "Copper" PHYs precede "Fiber" PHYs (all else being equal).
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