C/ FM	SC FM	P 2	L 40	# 40		C/ 1	SC 1.3	P 17	L 8	# 30		
Grow, Rob	pert	RMG Consu	lting			Ran, Adee	9	Cisco				
Comment	Type ER	Comment Status D				Comment	Туре Е	Comment Status D				
l can't curren 69).	check the Fram t drafts I've exa	nemaker templates, but this d mined and is also included in	Iraft is missing co the 2020 Style M	ntent that is on all d Ianual Annex C (pa	other age			d as 202x. I assume this shed before 802.3db is fi		blished yet and it is		
uggested	lRemedv					The "2	02x" should not f	ind its way to the publish	ed amendment.			
	e use the correc	t template.				Suggested	lRemedy					
•	Response	Response Status W					n editor's note (to 167–15 footnote	be removed prior to pub f.	lication) to update t	he year here and in		
PROP	OSED ACCEP	T IN PRINCIPLE.				Proposed	Response	Response Status W				
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		York, NY 10016-5997, USA the Institute of Electrical and	Electronics Engin	eers. Inc.		C/ 1	SC 1.4.142a	P 17	L 42	# 33		
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the Institute of Electrical and Electronics Engineers, Incorporated. PDF: ISBN 978-0-7381-xxxx-x STDxxxxx						Shouldn't 400GBASE-SR4 be listed after 400GBASE-SR8 rather than between 400GBASI SR16 and 400GBASE-SR8						
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TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	C/ 30	Page 1 of 8
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 30.3.2.1.2	1/11/2022 8:54:57 AM
SORT ORDER: Clause, Subclause, page, line			

30 SC 30.5.1.1.2 <i>P</i> 18 <i>L</i> 19 # 34	Cl 91 SC 91.5.3.3 P27 L30 # 28
udek, Mike Marvell	Ran, Adee Cisco
omment Type T Comment Status D	Comment Type ER Comment Status D
Removing the reaches has left nothing that differentiates between VR and SR. Note that draft 3.0 of 802.3cd preserves the reaches to differentiate between FR and LR. <i>uggestedRemedy</i> Re-instate the distances as they were in draft 2.0. Also in table 116-1	Comment #114 against D2.0 was resolved in a way that does not address the comment. The suggested remedy was to include the third paragraph of 91.5.3.3, but the response changed the second paragraph of 91.5.3.3 (first paragraph amended) instead, and the text is unformatted, so 10 [^] -6 now reads as 10-6.
roposed Response Response Status W	The problem still exists in the third paragraph which says "This option shall not be used".
PROPOSED ACCEPT IN PRINCIPLE.	Since this is a normative requirement, it would be friendly to readers to include the text tells what "this option" is about (it is the option to bypass error correction)
These reaches were removed after discussion of comments #66, 67, 68, 70, 71, and 72 on D2.0	The change of the second paragraph is unnecessary and can be reverted.
	SuggestedRemedy
Discuss as a Task Force.	Include the entire third paragraph from the base document as listed below:
80 SC 80.1.4 P24 L27 # 48 row, Robert RMG Consulting comment Type E Comment 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 been submitted on such tables on P802.3/D3.0. (Also applies to 100GBASE-SR1.) uggestedRemedy Monitor P802.3/D3.0 comment resolution and if a order beyond data rate is found, adjust insert points per that resolution.	"The Reed-Solomon decoder may provide the option to perform error detection without error correction to reduce the delay contributed by the RS-FEC sublayer. The presence of this option is indicated by the assertion of the FEC_bypass_correction_ability variable (see 91.6.8). When the option is provided, it is enabled by the assertion of the FEC_bypass_correction_enable variable (see 91.6.1). This option <remainder of="" text<br="" the="">as in D2.1>" Change the editorial instruction accordingly. Revert the second paragraph (starting with "When used to form a 100GBASE-CR4"), to the text in D2.0.</remainder>
roposed Response Response Status W	Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE. Comment #241 on D2.0 stated: "Comment #65 against P802.3cj D2.0 defined the order of items in Table 78-1. See: http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID.pdf#page=14" 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). 	PROPOSED ACCEPT.

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

C/ 91 SC 91.5.3.3

C/ 116 SC 116.1.3	P 32	L 34	# 49	C/ 116 SC 116	5.1.3	P 32	L 37	# 9	
Grow, Robert	RMG Consult	ting		Dawe, Piers		Nvidia			
Comment Type E Co	omment Status X			Comment Type E	Cor	mment Status D			
If there is a logic in the insert appear to be consisttent with order of the existing table.				is a little less, oth	ers put e.g. 2	SE-SR1 before 1000 200GBASE-SR2 befo ses precedence. Any	re 200GBASE-SF	use the reach on OM3 R4 because it's e consistent.	
uggestedRemedy				SuggestedRemedy					
Monitor P802.3/D3.0 comme insert points per that resoluti		rder beyond data	a rate is found, adjust	7.		-		-2 116-4 116-5 and 11	
PROPOSED ACCEPT IN PR				Either way, the n change tables 11	ew PMDs hav 6-2 and 116-	s 80-5, 80-7 and 116 ve less reach than 40 7. .7.3 consistent with tl	0GBASE-SR4.2 ((150 m on OM5) -	
Comment #241 on D2.0 stat "Comment #65 against P802		rdar of itama in "	Table 79 1 See	Proposed Response	- Resi	ponse Status W			
http://www.ieee802.org/3/cj/c	comments/P8023-D2p0	-Comments-Fina	al-byID.pdf#page=14"	PROPOSED AC	,				
Sort the result in "speed/read 1. Increasing speed. 2. Increasing reach (maximu 3. Decreasing number of lan	m supported distance o	-		Comment #241 on D2.0 stated: "Comment #65 against P802.3cj D2.0 defined the order of items in Table 78-1. See: http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID.pdf#page=14"					
The following supplemental r 4. PHY "family designations, 5. "Copper" PHYs precede "l 6. Alphanumeric sort (all else	by convention, are ass Fiber" PHYs (all else be	igned a reach of		 Increasing spe 2. Increasing rea Decreasing nu 	ed. ch (maximum mber of lanes	" order using the follen n supported distance s lles address are inclu	over the medium)).	
C/ 116 SC 116.1.3	P 32	L 35	# 35	4. PHY "family d	esignations, b	by convention, are as	igned a reach of		
Dudek, Mike	Marvell			5. "Copper" PHY 6. Alphanumeric		iber" PHYs (all else b being equal)	eing equal).		
Comment Type T Co	omment Status D			·	•	• • •			
The reach is not included in that differentiates between V	the descriptions of VR a R and SR. Note that t	and SR in table ² he reach is inclu	116-1 leaving nothing ided to differentiate the	C/ 167 SC 167 Ran, Adee	.5.2	P 45 Cisco	L 43	# 29	
single mode variants.				Comment Type T	R Cor	mment Status D			
SuggestedRemedy Add the reach to the descrip	tion as is done for 4000	G in table 116-2		See comment #1 stream" still exist		2.0 was not impleme	nted fully - one ins	stance of "signal	
Proposed Response Re PROPOSED ACCEPT IN PF	sponse Status W RINCIPLE.			SuggestedRemedy Change "signal s	tream" to "sig	gnal".			
	d after discussion of cc	omments #66, 67	7, 68, 70, 71, and 72 on	Proposed Response Response Status W PROPOSED ACCEPT.					
These reaches were remove D2.0									

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 U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 167 SC 167.5.2 Page 3 of 8 1/11/2022 8:54:57 AM

7 167 SC 1	67.7.1	P 49	L 27	# 6	C/ 167	SC	167.8.2		P 53	L 33	# 16
Shiasi, Ali		Ghiasi Quant	tum/Marvell		Dawe, Pie	rs		N	vidia		
Comment Type	TR Co	mment Status X			Comment	Туре	Е	Comment Sta	ntus D		
cost.				ne and associated test	This de 2-lane			es there are 4 la	nes, but mu	lti-lane testing co	nsiderations apply to
https://www.iee 2021/ghiasi_80		/public/September-09- 2321 pdf	September-29-		Suggested	Remed	dy				
uggestedRemedy								ressed lanes" to multiplying by		three unstressed f".	lanes", change
		al receiver and a full g contribution there is e			Proposed I		-	Response Sta			
measurements	5. MMSE will re		ay given 802.3db	reference receiver is 9	-		ACCEPT	IN PRINCIPLE. license.			
produce as mu TDECQ>4.5 dE	ich as 0.2 dB c 3 is risky. Tas	f lower TDECQ than re k force need to make a 0 4.3 dB or stay with cu	eal receiver and p a decision either s	bushing real stay with sull grid	Chang "If eac		is stressed	l in turn. the BEF	R is diluted l	ov the three unstr	essed lanes, and the
Proposed Respons		ponse Status W			BER fo	or that	stressed la				r if the unstressed
DISCUSS	100				lanes r	nave lo	w BER."				
		050	1.00		to	h	:4		المعانات المعال		
	67.8.1	P53	L 20	# 1	for that	n iane t stress	is stressed	one is found, e.c	is alluted i ., by multip	lying by four for 4	I lanes, and the BER 00GBASE-SR4 if the
ihiasi, Ali		Ghiasi Quant	tum/Marvell		unstre	ssed la	ines have l	ow BER."	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , ,	
		mment Status X			C/ 167	SC	167.8.5		P 56	L 35	# 8
There is no def PCS sginal	finition of valid	100GBASE-ZV1/SR1,	, etc., instead you	I should reference the	Dawe, Pier		107.0.0	Ν	vidia	200	<i>"</i> 0
uggestedRemedy	/				Comment	Type	т	Comment Sta	ntus D		
•••	PMD signals	with PCS signals, 1000 -R signals	GBASE-R with CI	L91 RS-FEC,	referer	nced do	ocument (ii	ncluding any am	endments o		lies." So the effect o
Proposed Respons DISCUSS	se Res	ponse Status W			for Apr	ril 2022	by the wa	y) until 802.3 ac		ts after Amendm ce them, not to r	ent 1 (which is foreca nandate the
Multimode clau				gnal" as a test pattern.				done anyway.			
Single mode cla	auses such as	121 and 150 have de	fined "-R signal" a	as a test pattern.	Suggested		•	الى			
							eting ":202:		(
					Proposed I	•		Response Sta	tus w		
							e to comm	IN PRINCIPLE. ent #27.			

C/ 167 SC 167.8.5

/ 167	SC 167.8	6	P 55	L11	# 26	C/ 167	SC 167.8.6.1	P55	L33	# 5
ngle, Rol	bert		OFS			Ghiasi, Ali		Ghiasi	Quantum/Marvell	
omment	Туре Е	Comment S	Status D			Comment	Type TR	Comment Status	x	
optimiz discus I think	zation of TDE sion in TF ar the Editor's I	d offline. Whateve lote has served its	oosed." This to er the TF decid	ppic has had a pi les during comm	ion in place of resentation in TF & ent resolution on D2.0, deration) and should be	2021/g	hiasi_802.3db_0 show that taps		/3/db/public/Septe	ember-09-September-29-
remov	ed at this poi	nt.				00	,	6 and 7 to 10%, and t	aps 8 and 9 to 5%	1
	IRemedy					Proposed I	0 1	Response Status	•	
Remov	ve this editor	s note				DISCU	,	Response Glalas	**	
PROP	Response OSED ACCE sponse to co	Response S PT IN PRINCIPLE mment #6.				The ab		taps 7, 8, and 9 are c	onstrained to be le	ess than 0.4, 0.3, and 0.2,
167	SC 167.8		P 55	L19	# 4	0	eral, the tap weig usis on the Tx dri		equalizer will depe	nd on the extent of pre-
niasi, Ali			Ghiasi Quant	um/Marvell				0		
o <i>mment</i> Font fo	51	<i>Comment</i> S 2 is different thatn						pdf contains an exam eights of 0.39 (#6), 0.1		d signal with TECQ of 4.1; and 0.02 (#9).
00	<i>Remedy</i> suse the san	e font and								
, PROP Font in	Table 167-1	Response S PT IN PRINCIPLE 2 is the same as c e IEEE format and	other tables. Th		xterior borders of Table at.					

C/ 167 SC 167.8.6.1

167	SC 167.8.13	P 57	L11	# 20		C/ 167	SC 167.8.14	P 57	L 42	# 21
we, Pier	s	Nvidia				Dawe, Pier	S	Nvidia		
nment 1	<i>туре</i> т	Comment Status D				Comment 7	Туре Т	Comment Status D		
interfact sensitive we don Also, I counter	e BER for stressed rity too. Using the 't average the TDE didn't see a referer d correctly conside	ensitivity (OMAouter) *of e d sensitivity, we should be interface BER method for CQ, so some Tx-Rx lanes ice to 167.1.1, which is re ring Gray coding, which is	e consistent and a sensitivity is still s are better than s levant because e	dopt it for this conservative becauseec.		contrac becaus For an at the F receive	dicting 167.8.2. L se we don't average example, 95.8.8. PMD service inter a lanes when strea	equired to be met for each Jsing the interface BER me ge the TDECQ, so some To 1 says: For 100GBASE-SR face. The interface BER is ssed: see 95.8.1.1. If prese tio at its input. The lane BE	thod for sensitivit x-Rx lanes are be 4 the relevant BE the average of th nt, the RS-FEC s	ty is still conservative etter than spec. ER is the interface BE ne four BER of the sublayer can measure
-	Remedy					the land	e symbol error ra	tio. If each lane is stressed	in turn, the PMD	interface BER is the
In 167. stresse	d receiver sensitiv			-		averag Also, I	e of the BERs of didn't see a refer	all the lanes when stressed ence to 167.1.1, which is re dering Gray coding, which is	l: see 95.8.1.1. elevant because e	errors should be
		67.1.1 Bit error ratio and	167.8.2 Multi-lane	e testing considerat	lions.	Suggested	Remedy			
PROP(Implem	DSED ACCEPT IN ent with editorial li	-				Add an see 16	entry to the list of 7.1.1 and 167.8.2	uired to be met for each lan of exceptions from 121: "Th 2." bout how to find BER using	e relevant BER is	s the interface BER;
	8.13, change	OMAouter) of each lane s	hall be within the	limit "		Proposed F	Response	Response Status W		
to		DMAouter) shall be within					OSED ACCEPT I nent with editorial			
-	8.13, add ulti-lane testing cor	siderations, see 167.8.2.	1			In 167. Delete	-)	uired to be met for each lan	e under test on it	s own".
"Stress	8.2, change ed receiver sensiti	vity is defined"						tion from 121.8.10: is, the relevant BER is the i	nterface BER, se	e 167.8.2."
to "Receiv	ver sensitivity and	stressed receiver sensitivi	ty are defined"			C/ 167	SC 167.8.14	P 57	L 43	# 36
67	SC 167.8.14	P 57	L 25	# 2		Dudek, Mik	ke in the second se	Marvell		
asi, Ali		Ghiasi Quant				Comment 7	Гуре Т	Comment Status D		
,		Comment Status D				The rec	quirement for the	BER to be met for each lar	ne on it's own is c	conflicting with section
<i>ment 1</i> There i	<i>ype</i> TR s no clause 121.8.					Suggested	Remedy			
gested	Remedy	vith 121.8.9 for stress rec	eiver sensitivity te	est		require	e "The BER is red d BER is specifie ed in 167.8.2"	quired to be met for each la d in 167.1.1. For multilane	ne under test on interfaces the re	its own" to "The equirements are
oosed F	Response	Response Status W				Proposed F	Response	Response Status W		
	OSED ACCEPT IN ed receiver sensitiv	, PRINCIPLE.				PROP0 See res	OSED ACCEPT I	N PRINCIPLE.		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 CA

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 State

 SORT ORDER: Clause, Subclause, page, line
 Commentation
 State
 State

C/ 167 SC 167.8.14 Page 6 of 8 1/11/2022 8:54:57 AM

C/ 167 SC 167.8.14.1 P57	L 57 # 3	C/ 167 SC 167.10.3 P61 L37 # 31
Ghiasi, Ali Ghiasi Quantum	ı/Marvell	Ran, Adee Cisco
Comment Type TR Comment Status X		Comment Type TR Comment Status D
db draft reference CL 121.8.9 for stress receiver sensi sinusiodal jitter mask, if we are referencing CL121 why 167?		I am repeating comment #133 against D2.0 (which was marked as bucket and not discussed).
SuggestedRemedy Remove CL 167.8.14.1		The comment said "Receiver compliance testing is done at TP3 which is the MDI per 167.5.1. So the note should apply only to the transmitter."
Proposed Response Response Status W DISCUSS Past multimode clauses 95, 138 and 150 have carried for testing receiver jitter tolerance.	the description of the sinusoida	I jitter The NOTE in 167.10.3 seems to have been inherited from some previous clause. The base document has 11 instances of similar notes. However, starting in clause 86, this note was changed to refer only to transmitter compliance, viz. "NOTE—Transmitter compliance testing is performed at TP2 as defined in 86.5.1, not at the MDI." There are 15 instances of this version of the note, which fixes the issue I referred to in the comment.
C/ 167 SC 167.10.2.1 P61	L 20 # 23	This project should use the better precedent text.
Dawe, Piers Nvidia Comment Type E Comment Status D		I have submitted a comment to the maintenance project to align all clauses to the version of the text in clause 86.
This sounds like effective guidance, not guidance abo	ut modal bandwidth	SuggestedRemedy
SuggestedRemedy Change "Effective modal bandwidth guidance is provid "Guidance is provided for effective modal bandwidth(s		Change the NOTE to read: NOTE—Transmitter compliance testing is performed at TP2 as defined in 167.5.1, not at the MDI.
Proposed Response Response Status W		Proposed Response Response Status W
PROPOSED ACCEPT.		PROPOSED ACCEPT.

C/ 167 SC 167.10.3

Sec									
C/ 167 SC 167.11.4.6	P69	L13	# 24	C/ 167	SC 167.11.4	.6	P 69	L 21	# 25
Dawe, Piers	Nvidia			Dawe, Piers	3	Ν	vidia		
Comment Type E	Comment Status D			Comment T	ype E	Comment Sta	atus D		
This table should mentior	VRn as well as SRn						67.10.3.2 v	vhich allows a 1-la	ne PMD with an MDI
SuggestedRemedy				0	multifiber conr	lector			
Several places				SuggestedF	•				
Proposed Response	Response Status W			Per con					
PROPOSED ACCEPT IN	PRINCIPLE.			Proposed R PROPC	,	Response Sta	tus W		
Change 167.11.4.6 as fol	lows:			Change	167.11.4.6				
OC4				Change	107.11.4.0				
	E-VR2 and 200GBASE-SR2			OC7 MDI rec	uirements for	100GBASE-VR1 a	and 100GB	ASE-SR1. duplex	optical fiber connector
OC5 MDI layout for 400GBASI	E-VR4 and 400GBASE-SR4							- ,	
OC6 MDI mating, 100GBASE-	VR1 and 100GBASE-SR1								
OC7 MDI requirements for 100	GBASE-VR1 and 100GBAS	SE-SR1							
OC8 MDI mating, 200GBASE-VR2, 200GB	ASE-SR2, 400GBASE-VR4	and 400GBASE	-SR4						
OC9 MDI dimensions for 200G SR4	B ASE-VR2, 200GBASE-SI	R2, 400GBASE-	VR4, and 400GBASE-						
OC10 Cabling connector dimen and 400GBASE-SR4	sions for 200GBASE-VR2, 2	200GBASE-SR2	, 400GBASE-VR4,						
OC11 MDI requirements for 200 400GBASE-SR4	GBASE-VR2, 200GBASE-S	SR2, 400GBASE	-VR4, and						

C/ 167 SC 167.11.4.6