C/FM	SC FM	P 7	L 20	# 27	0	C/ FM	SC FM	P 10	L 5	# 25		
Grow, Rob	bert	RMG Const	ulting		N	∕laguire, \	/alerie	The Siemon	Company			
Comment The W	51	<i>Comment Status</i> A is now known, though some ma	ay qualify for listin			Comment Extra	•••	Comment Status A		Βι	Bucke	
	<i>dRemedy</i> st prior to Sp	onsor ballot			S		<i>Remedy</i> ce, "over Sing	e- Mode Fiber" with "over Singl	e-Mode Fiber".			
The lis Group the W by the	PT IN PRIN st of Working Operations G as of the c WG Chair."	Group ballot voters is defined Manual (OM): "The WG ballotir lose of day the ballot package (g group consists distribution was c	of all voting membe	ers of	[Editor Draft [Replace	PT IN PRINC 's note: Subcl D2.0 does not	Response Status C PLE. ause changed from "Front Matt contain a space in "Single-Mod with a non-breaking hyphen so	le".	de" does not break		
		king Group ballot voters to the			C	00 10	SC 0	P 2	L 6	# 21		
/ FM	SC FM	P8	<i>L</i> 1	# 28	ĸ	Kabra, Lol	kesh	Synopsys				
row, Rob	bert	RMG Const	ulting		C	Comment	Туре Е	Comment Status A		Bu	Bucke	
omment	Type E	Comment Status R				"sin-gl	e-mode"					
	emplate lang d <i>Remedy</i>	uage is not consistent with curr	ent governance d	ocument terminolog	ly. S	Suggested	-	de" to "single-mode"				
individ have v "The fo standa	luals particip voted for app ollowing enti ard. Balloters	d to IEEE editorial staff to upda ated the Standards Committee roval, disapproval, or abstention ty representatives participated i may have voted for approval, or "entities" rather than "entity rep	ballot on this star n." For entity ball n the Standards (disapproval, or ab	dard. Balloters may ots I would recomm committee ballot on	end this	Response ACCE [Editor	PT IN PRINC 's note: Page	Response Status C				
esponse	1	Response Status C			C	00	SC 0	P 12	L 3	# 22		
REJE					K	Kabra, Lol	kesh	Synopsys				
		is not requested any change to of the ballot resolution committe		king for an action th	iat is	Comment		Comment Status R		Bu	Bucke	
							51	ew clause added in 802.3cm as	described in pre	evious references		
Spons Style I If a ne	The text at the top of page 8 regarding Standards Association ballot (formerly known as Sponsor ballot) follows the example text in the latest version of the IEEE-SA Standards Style Manual. It is also consistent with recently published amendments to IEEE Std 802.3. If a new version of the IEEE-SA Standards Style Manual is generated with alternative text,					SuggestedRemedy Change "Std 802.3-2018 and adds Physical" to "Std 802.3-2018 and adds Clause 150. Th amendment adds Physical"						
then th	he draft will b	e updated to match.			F	Response		Response Status C				
						REJECT. The text for the summary of IEEE Std 802.3cm-20xx in the P802.3cn draft is taken from most recent version (D2.0) of the P802.3cm draft. Comments to make changes to this text should be submitted against the P802.3cm draft						

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	CI 00	Page 1 of 11
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC O	22/05/2019 04:15:53
SORT ORDER: Clause, Subclause, page, line			

C/ 116	SC 116.1.3	P 26	L 28	# 26	C/ 121	SC 121.8.6		L 47	# 2		
Maguire,	Valerie	The Siemon (Company		Zimmerma	an, George	CME Consu	ting/ADI, APL G	p, Aquantia, BMW, Cisc		
Commen	t Type E	Comment Status A		Bucket	Comment	Туре Т	Comment Status R				
		e" appears to be present bec at's actually used in the sente		plits across two lines,	Sentence combines test fixture and definition in a way that doesn't make sense. Fortunately, the test fixture is described in 121.8.5.1 TDECQ conformance test setup.						
Suggeste	edRemedy						n time is defined as the slowe	er of the time int	erval of the transition		
Repla	ace "singlemode"	with "single-mode".			from 2 OMAo	• · · · · ·	OMAouter, or from 80% of ON	Aouter to 20%	of OMAouter, for the		
Respons	e	Response Status C			rising and falling						
	- EPT IN PRINCIPL					respectively, as ned 3 dB	s measured through an O/E c	onverter and os	cilloscope with a		
The t	ext in the draft is "	'single-mode".					nately 13.28125 GHz with a f	ourth-order Bess	sel-Thomson response		
	ace the hyphen with the second s	th a non-breaking hyphen so	that "single-moo	le" does not break	to at le	ast	2				
acros	s two lines.					26.5625 GHz ar d -24 dB.	d at frequencies above 1.5 ×	26.5625 GHz th	ne response should not		
C/ 121	SC 121.7.1	P 29	L 40	# 1			e made for any deviation from	n an ideal fourth	-order Bessel-Thomson		
Zimmern	nan, George	CME Consult	ing/ADI, APL Gp	, Aquantia, BMW, Cisc	respor	ise."					
Commen	t Type E	Comment Status R			Same	comment appli	es to P51 L23: 122.8.6.a 2nd	naragraph			
Footr	note "c" in 802.3-2	018 has changed to "d" and i	isn't marked as a	a change	Suggested		55 10 T 0 T 220. 122.0.0.0 2110	pulugiupii			
Sam	o commont applies	s to Table 122-9 on page 43 a	and faatnata "a"	on Table 122 10 page	••	-	Insmitter transition time is de	fined as the slow	vor of the time interval of		
44		s to Table 122-9 off page 45 a		on rable 122-10, page			% of OMAouter to 80% of OM				
Suaaeste	edRemedy						the rising and falling	,			
00		om "c" (strikeout & undersco	re). Change is t	ooth on line 40 and 45		respectively, as mance test set	s measured through the test s ıp."	setup specified i	n 121.8.5.1 TDECQ		
Sam	e change on Page	43, lines 44 & 49			Same	change on 122	8.6.a, referencing 122.8.5.1	instead of 121.8	.5.1		
Mark	"e" as changed fr	om "d" (strikeout & undersco	re). Change is t	ooth P 44 L50 and P45	Response		Response Status C				
L4	0	,	, 0		REJE						
Respons	е	Response Status C					ed in 121.8.5.1 is that shown e fiber. This is quite differen				
REJE							transition time.		Jemeni appiopriate lo		
see	IEEE Std 802.3bk	e in any recently published ar -2013, Table 60-1 and Table 2.3cd-2018, Table 80-7.			Also, t	he noted text in	121.8.6a and 122.8.6a is the published amendment IEE				

C/ **121** SC **121.8.6a**

01 400	CC 400 -	044	/ 47	# 40		00 400 7 4	D.42	,	# 00
C/ 122	SC 122.7	P 41	L 47	# 12	C/ 122	SC 122.7.1	P 43	L	# 29
400Gl ER4 a Simila and 5 ER ar The a	Type T ause 122.7 conta BASE-LR8, but d and 200GBASE-L arly, subclause 13 0GBASE-LR but of the other two 5 ttached presenta perability requirer	Ciena <i>Comment Status</i> A ains interoperability requirement loes not contain interoperability. R4 or between 400GBASE-E 89.6 contains interoperability does not contain interoperability does not contain interoperability tion (anslow_3cn_01_0519) pro- ments and contains a proposed	ity requirements ER8 and the othe requirements be ility requirements provides informa	between 200GBASE- er two 400G PMDs. tween 50GBASE-FR s between 50GBASE- tion on the	Spec Suggester Sugge Response ACCE	<i>Type</i> T 122-9, Row 4, C ifyingo 1/100 deo <i>dRemedy</i> est changing 12.	Response Status C LE.	ch power.	Bucke
Suggeste					C/ 122	SC 122.7.1	P 43	L	# 30
		posed on pages 8 to 14 of th	e attached prese	entation	John, De/	Andrea	Finisar		
Response ACCE) Response Status C				122-9, Row 5, C	Comment Status A Column 4, Average launch por imal place is impractical.	wer, each lane, 6.63	Bucke
C/ 122	SC 122.7	P 42	L17	# 16	Suggestee	dRemedy			
Ferretti, V	/ince	Corning			Sugge	est changing 6.6	3 to 6.6		
Comment		Comment Status R			Response		Response Status C		
	0793-2-50 2018 ł	has updated single-mode fibe	er naming conve	ntion to be more in line		PT IN PRINCIP			
Suggestee	dRemedy								
		Change "type B1.1, type B1.3 652.D or type B-657"	8, or type B6_a s	ingle-mode fiber." to					
Response	9	Response Status C							
657" v 60793 refere shouk chang "type	ging "type B1.1, t would require that 3-2-50:2008" to "I ences to IEC 6079 d only be made a ges between the t	ype B1.3, or type B6_a" to "ty t the reference in 1.3 of the b EC 60793-2-50:2018". This 93-2-50 in the existing clause fiter it has veen verified that t wo versions and that the refe or type B6_a" are easily under	ase standard be change would af s of the base sta here are no sign erences to any of	changed from ["] IEC fect all of the indard. Such a change ificant specification the older types, e.g.,					

C/ 122 SC 122.7.1

C/ 122	SC 122.7.1	P 43	L15	# 13	C/ 122	80	122.7.1	P 44	L19	# 4
-		Ciena	L 15	# 13	Lewis, Da		122.7.1		L 19	# 4
Anslow, Pe		Ciena Comment Status A		Bucket	Comment		т	Lumentum Comment Status A		
IEEE t neares This ha The OI	ransmitter specifi st 0.1 dB. as been done for MAouter, each la	ications generally specify pow 400GBASE-ER8 but not for 2 ne (max) value for 200GBASE	00GBASE-ER4 E-ER4 is 7.4 dB	n other values to the m.	In Tab is 2.5 this cl	ole 122- dB belo ause w	-10 the valu ow the valu here the di	ue for Average launch power, le for OMAouter, each lane (n ifferential is set to 3 dB. The ms unecessary.	nin). This is di	fferent to other PMDs in
		t of 6 dB this is a calculated monotonic of 6 dB this is a calculated monotonic of 6.6 dBm.	aximum averag	e power of 6.6295	Suggestee	dReme	dy			
If all fo	our lanes are at a	maximum power of 6.6 dBm,			Chang	ge the v	alue of Av	erage launch power, each lar	ne (min) from -(0.1 to -0.6.
		62 dBm. This should be rour			Response			Response Status C		
		also affects the "Average rece ch lane" for 200GBASE-ER4.	eive power, each	nane (max) and the			PRINCIPLI			
Suggested	0							GBASE-ER8: erage launch power, each lar	o (min) from (0.1 to 0.6
00	le 122-9 for 2000	BASE-ER4:			Chang	ye ine v		erage launch power, each lar		0.110-0.0
		aunch power, each lane (max) age launch power (max)" from						GBASE-ER8: erage receive power, each la	ne (min) from -	18.1 to -18.6
Chang Response ACCEI	e the "Damage th	eceive power, each lane (max nreshold, each lane" from -2.3 <i>Response Status</i> C	7 to -2.4 dBm		loss" f In Tab	from 14 ble 122- from 15	.6 to 15.1	e the 400GBASE-LR8 transm		
Cl 122	SC 122.7.1	P 43	L16	# 3	Lewis, Da	vid		Lumentum		
Lewis, Dav	vid	Lumentum			Comment	Type	т	Comment Status A		
Total a	le 122-9 the value average launch po	Comment Status A es for 200GBASE-ER4 Avera ower (max)are specified to 1/1 is clause specify these param	00 dB precisior	This is unecessarily	dB hig than r	gher tha leeded	an the value and does i	ue for Total average launch p e for Average launch power, e not follow the values for 400G poth have a difference of 7.9 c	each làne (max BASE-FR8 an	(). This is 0.1 dB higher d 400GBASE-LR8 in
Suggested	IRemedy				Suggestee	dReme	dy			
Chang	e the value of Av	erage launch power, each lan	e (max) from 6.	63 to 6.6.	Chang	ge the v	alue for To	otal average launch power (m	ax) from 14.7 t	to 14.6.
Chang	e the value of To	tal average launch power (ma	x) from 12.63 to	0 12.6.	Response	ļ		Response Status C		
Response		Response Status C			ACCE	PT.		-		
	PT IN PRINCIPLI solution to comm									

C/ 122 SC 122.7.1 Page 4 of 11 22/05/2019 04:15:57

C/ 122 SC 122.7.2	P 45	L	# 32	C/ 122	SC 122	2.7.2	P 45	L 45	# 14
lohn, DeAndrea	Finisar			Anslow, F	Pete		Ciena		
Comment Type T Co	omment Status A		Buci	cet Comment	Туре Т		Comment Status A		
Table 122-11, Row 4, Coulur Specifying to 1/100 decimal p		d, each lane, -3.37		sublay	yers over si	ngle-moc	"existing 200 Gb/s and 40 le fiber" listed in: cn/public/19_01/anslow_3		•
uggestedRemedy							GBASE-DR4, reduce the t		
Suggest changing -3.37 to -3	6.4			sensit	ivity (max) l	by 0.2 dE	;"	-	
Response Res ACCEPT IN PRINCIPLE. See resolution to comment #	sponse Status C 13			200Gi 122-1 each :	BASE-LR4 i 2 the Stress aggressor la	in Table sed recei ane" is de	ASE-DR4 in Table 121-7, 122-11 as well as 400GB ver sensitivity has not bee prived from the Stressed r	ASE-FR8 and 40 n changed. Bec	0GBASE-LR8 in Tab ause the "OMAouter of
7 122 SC 122.7.2	P 45	L	# 31		anged also.				
lohn, DeAndrea	Finisar			Suggestee	-				
comment Type T Co	omment Status A		Buck		ble 122-11:	and rea	eiver sensitivity (OMAoute	r) occh long (m	
Table 122-11, Row 4, Coulur Specifying to 1/100 decimal p SuggestedRemedy Suggest changing -2.37 to -2 Response Response	place iimpractical.	1, each lane, -2.57		Chanự LR4 fi Chanự Chanự	rom -5.2 to ge the "OM/ ge the "OM/	-5.4 dBi Aouter of	eiver sensitivity (OMAoute	200GBASE-FR4	from 0.5 to 0.3 dBr
ACCEPT IN PRINCIPLE. See resolution to comment #	13			Chan FR8 f	rom -3.1 to	-3.3 dB		, ,	,
C/ 122 SC 122.7.2	P 45	L 32	# 6		ge the "Stre rom -4.7 to		eiver sensitivity (OMAoute m	er), each lane (ma	ax)" for 400GBASE-
ewis, David	Lumentum			Chang	ge the "OM/	Aouter of	each aggressor lane" for		
comment Type T Co	omment Status A		Buci	cet Chang	ge the "OM/	Aouter of	each aggressor lane" for	400GBASE-LR8	from -0.2 to -0.4 dE
In Table 122-11 the values for receiver power, each lane (m to a precision of 0.1 dB elsev	ax) are unecessarily pre					1	Response Status C		
SuggestedRemedy									
Change Damage threshold, e Change Average receive pov									

ACCEPT IN PRINCIPLE.

See resolution to comment #13

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/ 122 SC 122.7.2 Page 5 of 11 22/05/2019 04:15:57

Cl 122	SC 122.7.3	P 47	L 42	# 17
Ferretti, Vi	nce	Corning		

Comment Type E Comment Status R

IEC 60793-2-50 2018 has updated single-mode fiber naming convention to be more in line with ITU-T

SuggestedRemedy

In Table 122.13 notes, Change "type B1.1, type B1.3, or type B6_a single-mode fiber." to "type B-652.B, type B-652.D or type B-657"

Response

Response Status C

REJECT.

Changing "type B1.1, type B1.3, or type B6_a" to "type B-652.B, type B-652.D or type B-657" would require that the reference in 1.3 of the base standard be changed from "IEC 60793-2-50:2008" to "IEC 60793-2-50:2018". This change would affect all of the references to IEC 60793-2-50 in the existing clauses of the base standard. Such a change should only be made after it has veen verified that there are no significant specification changes between the two versions and that the references to any of the older types, e.g., "type B1.1, type B1.3, or type B6_a" are easily understood in the 2018 version of IEC 60793-2-50.

C/ 122 SC 122.7.1 table 122-10 P 44 L 26 # 39 Chang, Frank Source Photonics

Comment Type T Comment Status R

Current 100G ER4 deployment in practice use ER lite to guarantee 30km over any deployment fibers and 40km is considered as engineered link, e.g. not guaranteed for worst case deployment fiber from insertion loss perspective. In order to upgrade from 100G-ER4 to 200G-ER4 and 400G-ER8 cost-effectively, we would suggest to also add the 200G-ER4 lite and 400G-ER8 lite catagory (or sub-column). 200G-ER4 lite and 400G-ER8 lite still use the 15dB insertion loss as max. The 3dB extra budget split into two part: allocated 2dB to reduce TxOMA min and 1dB to relax RxOMA max. We will follow up with presenation slides.

SuggestedRemedy

Add 400G-ER8 lite category (or sub-column). Allocate 2dB extra budget to Tx side. Chang TxOMA min from 2.4 to 0.4dB, and change TxOMA-TDECQmin from 1 to -1dBm.

Response Status C

REJECT.

Response

The presentation

http://www.ieee802.org/3/cn/public/adhoc/19_0509/chang_3cn_02_190509.pdf was reviewed in the P802.3cn Ad Hoc call on 9 May 2019.

100GBASE-ER4 operates over 30 km of fiber with worst case loss per km or over 40 km of fiber with less than worst case loss per km (an "engineered link"). However, the 100GBASE-ER4 PMD is required to operate with a total insertion loss of 18 dB in both cases, so there is no "ER lite" specification in the IEEE 802.3 standard. If it is desired to be able to upgrade from 100GBASE-ER4 to 200GBASE-ER4 or 400GBASE-ER8, then the new PMDs have to support an 18 dB total insertion loss also.

The current draft is explicit in defining the extra 3 dB in the link power budget as "Additional insertion loss allowed" and therefore it cannot be used to reduce the transmitter output power or relax the receiver sensitivity.

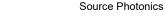
The specifications for 200GBASE-ER4 and 400GBASE-ER8 in D2.0 are consistent with the specifications for 100GBASE-ER4 in Clause 88 and 25GBASE-ER in Clause 114 in this respect. If an additional column was added with 3 dB less power budget, then this would be the addition of a new PMD type that is not capable of operation over 40 km of fiber. This would necessitate a modification to the project CSD responses (which are specific to 40 km) and would also be expected to be associated with additional project objectives.

C/ 122 Page 6 of 11 SC 122.7.1 table 122-1 22/05/2019 04:15:57

C/ 122 SC 122.7.1 table 122-10	P 44	L35
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Chang, Frank

34



Comment Type т Comment Status R

D2.0 has applied a 0.2dB reduction in TDECQ max value to WDM MUX based 200G-DR4/FR4/LR4 and 400G FR8/LR8. Our understanding during P802.3cd discussion, the consencus was focused on reducing by 0.2dB for 50G-FR/LR for non-WDM based PMDs by adding threshold adjust. While TDECQ max of 3.3-3.4dB was somewhat arbitrary values which has not been fully proved, so my suggest we should leave the TDECQ values unchanged for WDM MUX based PMDs including 200G-FR4/LR4 and 400G FR8/LR8. We will follow up with presenation slides.

SugaestedRemedv

change TDECQ and TDECQ-10log(Ceg) to 3.1 from 2.9 for 400G-FR8; and to 3.3 from 3.1 for 400G-LR8.

Response

Response Status C

REJECT.

The presentation

http://www.ieee802.org/3/cn/public/adhoc/19 0509/chang 3cn 01 190509.pdf was reviewed in the P802.3cn Ad Hoc call on 9 May 2019.

The presentation http://www.ieee802.org/3/cn/public/19 05/chang 3cn 01a 0519.pdf was reviewed by the Task Force.

The reduction of 0.2 dB in TDECQ values adopted during the P802.3cd project was a result of the introduction of adjustable thresholds in the TDECQ method. This reduction of 0.2 dB was a compromise value between an anticipated reduction of 0.4 dB in TDECQ achievable for very asymmetric PAM4 eve diagrams and zero reduction for very symmetric PAM4 eve diagrams. In order to not overly penalize a PAM4 transmitter with very symmetric eye diagrams the compromise value of 0.2 dB was adopted. This principle is independent of the presence of WDM muxes and demuxes.

C/ 122 SC 122.7.1 table 122-9 P43 L26 # 38 Chang, Frank Source Photonics

Comment Type Т Comment Status R

Current 100G ER4 deployment in practice use ER lite to guarantee 30km over any deployment fibers and 40km is considered as engineered link, e.g. not guaranteed for worst case deployment fiber from insertion loss perspective. In order to upgrade from 100G-ER4 to 200G-ER4 and 400G-ER8 cost-effectively, we would suggest to also add the 200G-ER4 lite and 400G-ER8 lite catagory (or sub-column). 200G-ER4 lite and 400G-ER8 lite still use the 15dB insertion loss as max. The 3dB extra budget split into two part: allocated 2dB to reduce TxOMA min and 1dB to relax RxOMA max. We will follow up with presenation slides.

SuggestedRemedy

Add 200G-ER4 lite category (or sub-column). Allocate 2dB extra budget to Tx side. Chang TxOMA min from 3.4 to 1.4dB, and change TxOMA-TDECQmin from 2 to 0dBm.

Response		Response Status C						
REJEC ⁻ See res	Γ. olution to comment #3	39						
C/ 122	SC 122.7.1 table 12	2-9 P4:	3 L30	# 33				

Chang, Frank Source Photonics

Comment Type Comment Status R Т

D2.0 has applied a 0.2dB reduction in TDECQ max value to WDM MUX based 200G-DR4/FR4/LR4 and 400G FR8/LR8. Our understanding during P802.3cd discussion, the consencus was focused on reducing by 0.2dB for 50G-FR/LR for non-WDM based PMDs non-WDM based PMDs by adding threshold adjust. While TDECQ max of 3.4dB was somewhat arbitrary values which has not been fully proved, so my suggest we should leave the TDECQ values unchanged for WDM MUX based PMDs including 200G-FR4/LR4 and 400G FR8/LR8. We will follow up with presenation slides.

SuggestedRemedy

change TDECQ and TDECQ-10log(Ceq) to 3.3 from 3.1 for 200G-FR4; and to 3.4 from 3.1 for 200G-LR4.

Response

Response Status C

REJECT. See resolution to comment #34

C/ 122 Page 7 of 11 SC 122.7.1 table 122-9 22/05/2019 04:15:57

CI 122 SC 122.7.2	table 122-11 P45	L 42	# 40	C/ 122	SC 122.7.2	table 122-12	P 46	L 44	# 36	
Chang, Frank	Source P	hotonics		Chang, Fra	ank		Source Photo	onics		
Comment Type T	Comment Status R			Comment	Туре Т	Comment	Status R			
	bove, RX should match TX	launching power cha	ange on 200-ER4	Same comment as above, SECQ should match TDECQ max change for RX on 200- FR4/LR4						
SuggestedRemedy				Suggested	IRemedy					
	ategory (or sub-column). A 5.1 to -14.1dBm in Eq.122-3			00	e SECQ and SI	ECQ-10log(Ceq) to 3.3 from 3	.1 for 200G-FR4;	and to 3.4 from 3.2 for	
Response	Response Status C			Response		Response S	Status C			
REJECT. See resolution to cor	,			, REJE0 See re	CT. solution to com	, iment #34				
C/ 122 SC 122.7.2	table 122-11 P45	L 49	# 35	C/ 122	SC 122.7.3	table 122-13	P 47	L 24	# 37	
Chang, Frank	Source P	hotonics		Chang, Fra	ank		Source Photo	onics		
Comment Type T	Comment Status R			Comment	Туре Т	Comment	Status R			
Same comment as a FR4/LR4	bove, SECQ should match	TDECQ max change	e for RX on 200-	Same FR4/LI		oove, SECQ sho	ould match TD	ECQ max change	e for RX on 200-	
SuggestedRemedy				Suggested	IRemedy					
0	ECQ-10log(Ceq) to 3.3 from	m 3.1 for 200G-FR4;	and to 3.4 from 3.2 for	Simply	for the change	e in Power budg	et and allocation	on for penalties b	y 0.3dB offset.	
200G-LR4.				Response		Response S	Status C			
Response	Response Status C			REJEC						
REJECT. See resolution to cor	nment #34			See re	solution to com	iment #34				
	table 122-12 P46	L37	# 41	C/ 122	SC 122.7.3	table 122-13	P 47	L 24	# 44	
			# 41	Chang, Fra	ank		Source Photo	onics		
Chang, Frank	Source P	hotonics		Comment	51	Comment				
Comment Type T Same comment as a	Comment Status R bove, RX should match TX	launching power cha	ange on 400-ER8	Same 400-El		oove, RX should	d match TX lau	Inching power cha	ange on 200G-ER4 and	
SuggestedRemedy				Suggested	IRemedy					
	ategory (or sub-column). A δ.1 to -15.1dB in Eq.122-6,							and 21.9 to 18.7 and 400G-ER8.	and 18.9dB; Additional	
Response	Response Status C			Response		Response S	Status C			
REJECT. See resolution to cor	·			REJE0 See re	CT. solution to com	iment #39				

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/ 122	Page 8 of 11
SC 122.7.3 table 122-1	22/05/2019 04:15:57

C/ 122 SC 122.8.8	P 52	L 4	# 7	C/ 122 S	C 122.8.8 Eq	122-6 and Fi P 53	L 3	# 43
Lewis, David	Lumentum			Chang, Frank		Source Pho	tonics	
Comment Type E	Comment Status A		Bucket	Comment Type	e T	Comment Status R		
The units for equations	122-1, 122-2 and 122-3 shou	ıld be dBm.		Same com	ment as above	e, RX should match TX la	unching power ch	ange on 400-ER8
SuggestedRemedy				SuggestedRem	nedy			
Change (dB) to (dBm)	n 3 places.				ER8 lite catego	ory. Relax RxOMA min fr	om -16.1 to -15.1c	dB in Eq.122-3, and in
Response	Response Status C			Fig. 122-6				
ACCEPT.				Response		Response Status C		
C/ 122 SC 122.8.8	P 52	L 52	# 8	REJECT. See resolut	tion to comme	nt #39		
Lewis, David	Lumentum			C/ 122 S	C 122.11.1	P 56	L 27	# 9
Comment Type E	Comment Status A		Bucket	Lewis, David		Lumentum		
The units for equations	122-4, 122-5 and 122-6 shou	ıld be dBm.		Comment Type	e E	Comment Status A		
SuggestedRemedy Change (dB) to (dBm)	n 3 places.					ays "may not support ope ation up to 10 km for".		" which would be better
Response	Response Status C			SuggestedRem	nedy			
ACCEPT.					ords "up to" bet ween or and 40	ween operation and 10 k) km.	m. Also on the sa	ame line, add the words
C/ 122 SC 122.8.8 E	q 122-3 and Fi P52	L 8	# 42	Response		Response Status C		
Chang, Frank Comment Type T Same comment as abo	Source Photo Comment Status R we, RX should match TX laur		ange on 200-ER8	Change the by adding t	he word "at" in	ote b to Table 122-18 to ' underline font between ' sed in Table 88-15 in in-f	operation" and "1	0 km", which is
SuggestedRemedy				C/ 122 S	C 122.12.4.4a	P 59	L22	# 23
	egory. Relax RxOMA min from	n -15.1 to -14.10	IB in Eq.122-3, and in	Marris, Arthur			esign Systems	
Fig. 122-6				Comment Type	. Е	Comment Status A	soigh cystems	Bucket
Response REJECT.	Response Status C			51	xt should not b			Buokot
REIECI				SuggestedRem	nodu			
	nent #39							
See resolution to comm	nent #39			00	-	F1 and ERF2 items.		

C/ **122** SC **122.12.4.4a**

C/ 122 SC 122	10 table 122-17	P 55	L 30	# 45	C/ 139	SC 139.6	P 71	L16	# 18			
Chang, Frank		Source Photo	nics		Ferretti, V	ince	Corning					
Comment Type T	Comment S	Status R			Comment	Type E	Comment Status R					
Same comment a 400-ER8	is above, RX should	match TX laur	nching power cha	ange on 200G-ER4 and	IEC 60 with IT		has updated single-mode	fiber naming conve	ention to be more in line			
SuggestedRemedy					Suggested	Remedy						
Change channel i	nsertion loss from 18	8 to 15dB for 3	0km for 200G-E	R4 and 400G-ER8			Change "type B1.1, type B	1.3, or type B6_a s	single-mode fiber." to			
Response	Response S	tatus C				· •	652.D or type B-657"					
REJECT.					Response		Response Status C					
See resolution to	comment #39				REJE		type B1.3, or type B6 a" to	, "type B-652 B typ	ne B-652 D or type B-			
C/ 124 SC 124	.9	P 64	L19	# 20	657" v	vould require that	it the reference in 1.3 of th	e base standard be	e changed from "IEC			
Anslow, Pete		Ciena					IEC 60793-2-50:2018". Th 93-2-50 in the existing clau					
Comment Type E	Comment S	Status A		Bucket			after it has veen verified th					
The PICS heading	g in Clause 124 is 12	24.11 not 124.9	9				two versions and that the					
SuggestedRemedy					60793		or type B6_a" are easily u	nderstood in the 20	18 version of IEC			
	ing numbering for the 3 PICS headings or		PICS to be 124.1	1, 124.11.4, and	C/ 139	SC 139.6.1	P 71	L 40	# 10			
Response	Response S	tatus C			Lewis, Da	vid	Lumentun	n				
ACCEPT IN PRIN	ICIPLE.				Comment	Туре Т	Comment Status A		Bucke			
	ing numbering for the 3 PICS headings or		PICS to be 124.1	2, 124.12.4, and			launch power (max) for 50 his clause, the value shou					
C/ 139 SC 139	.1	P 17	L68	# 24	Suggested	Remedy						
Maguire, Valerie	uire, Valerie The Siemon Company					Change Average launch power (max) from 6.63 to 6.6 dB for 50GBASE-ER.						
Comment Type E	Comment S	Status R		Bucket	Response		Response Status C					
Extraneous comm	Extraneous comma.						ACCEPT IN PRINCIPLE. See resolution to comment #15					
SuggestedRemedy												
Replace, "Clause show the comma		ith "Clause 45	or equivalent" u	sing revision marks to								
Response	Response S	tatus C										
REJECT.												
	esent in several in-fo 85, 86, 87 and 88.	orce Clauses, r	not under review	in this Task Force, for								
Chample Olduses	00, 00, 07 and 00.											

C/ 139 SC 139.6.1

C/ 139	SC 139.6.1	P 71	L 40	# 15	Cl 139	SC 139.6.3	P 73	L 42	# 19		
Anslow, P	ete	Ciena			Ferretti, Vi	nce	Corning				
Comment	Туре Т	Comment Status A		Bucket	Comment	Туре Е	Comment Status R				
neares	st 0.1 dB.	fications generally specify por		n other values to the	IEC 60 with IT		has updated single-mode fib	er naming conver	ntion to be more in line		
This has been done for 400GBASE-ER8 but not for 50GBASE-ER The OMAouter (max) value for 50GBASE-ER is 7.4 dBm. With the worst case ER of 6 dB this is a calculated maximum average power of 6.6295 dBm. This should be rounded to 6.6 dBm.						SuggestedRemedy In Table 139.8 notes, Change "type B1.1, type B1.3, or type B6_a single-mode fiber." to "type B-652.B, type B-652.D or type B-657"					
Suggested	dRemedy				Chang	ing "type B1.1, t	type B1.3, or type B6_a" to "t				
	ble 139-6 for 50G						t the reference in 1.3 of the b				
Chang	ge the "Average I	aunch power (max)" from 6.6	3 to 6.6 dBm				EC 60793-2-50:2018". This 93-2-50 in the existing clause				
Chang		BASE-ER: receive power (max)" from -3. threshold" from -2.37 to -2.4 c			change	es between the	after it has veen verified that t two versions and that the refe or type B6_a" are easily und	erences to any of	the older types, e.g.,		
Response		Response Status C			60793	-2-50.					
ACCE	PT.	,									
C/ 139	SC 139.6.2	P 72	L 41	# 11							
Lewis, Da	vid	Lumentum									
Comment	Туре Т	Comment Status A		Bucket							
		ues for Damage threshold and n with 2 decimal places. A p									
Suggested	dRemedy										
		hold from -2.37 to -2.4 for 50 ve power (max) from -3.37 to		SE-ER.							
Response	,	Response Status C									
	PT IN PRINCIPL										

C/ 139 SC 139.6.3