C/ FM	SC FM	P 1	L 10	# [-7	C/ FM	SC FM	P 3	L1	# <u>I</u> -11
Grow, Rob	pert	RMG Consult	ing		Grow, Rol	bert	RMG Consul	ting	
Comment I think	51	<i>Comment Status</i> A ssigned this project an amendr	nent number.	bucket	Comment PHY is	21	Comment Status A ym for Physical Layer, it is the	acronym for Phy	<i>bucker</i> sical Layer Device.
Suggested Amend	<i>lRemedy</i> dment 11				Suggested Delete	dRemedy e "(PHY)".			
Response ACCE	PT IN PRINCIP	Response Status C			Response ACCE		Response Status C		
This p	roject has been	assigned Amendment 11.			C/ FM	SC FM	P 3	L 5	# <u>I-9</u>
Ameno	ge: Standard for Et dment:"	hernet			Grow, Rob <i>Comment</i> Per th	Туре Е	RMG Consul Comment Status A erms, "Energy-Efficient Ethern	-	bucket
	Standard for Et dment 11:"	hernet			Suggested "Energ		ernet". Also fix on p. 63, lines	38 and 47.	
/ FM	SC FM	P 1	L 30	# 1-8	Response)	Response Status C		
Brow, Rob	pert	RMG Consult	ing		ACCE	PT.			
numbe Suggested Chang	Std 802.3ch-202 er 10. <i>IRemedy</i> ge "IEEE Std 80	Comment Status A 20 is now published. P802.3ct 2.3ch-20xx" to "IEEE Std 802 e list and appropriately move t	.3ch-2020". Add		Comment	3ch has been p	P 12 Nokia <i>Comment Status</i> A published	L 20	# <u> -58</u> bucke
Response		Response Status C			00	-	2.3chTM-20xx to IEEE Std 802	2.3chTM-2020	
ACCE	PT.	Р1	L31	# 1-10	Response ACCE		Response Status C		
Grow, Rob		RMG Consult			C/ FM	SC FM	P 12	L 20	# 1-1
Comment	Туре Е	Comment Status A vm for Physical Layer, it is the	-	<i>bucket</i> sical Layer Device.	Lewis, Jor <i>Comment</i>	n <i>Type</i> E	Dell EMC Comment Status A	-	bucke
Suggested	lRemedy e "(PHY)".						as been published.		
Response	· · /	Response Status C			Suggested Chang		02.3ch™-20xx" to "IEEE Std 80	02.3ch™-2020"	
ACCE	PT.				Response ACCE		Response Status C		

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

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 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn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

 SORT ORDER: Clause, Subclause, page, line
 SC FM

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C/ FM	SC FM	P 12	L 20	# I-12		C/ FM	SC FM	P 12	L 26	# <mark>I-14</mark>
Grow, Ro	bert	RMG Consultin	g			Grow, Rob	pert	RMG Consu	lting	
<i>Comment</i> This a	<i>Type</i> E amendment is n	Comment Status A o published.			bucket	<i>Comment</i> Until p	51	Comment Status R ference year should be incom	nplete.	bucke
Suggeste Chan		02.3ch-20xx" to "IEEE Std 802.3	sch-2020".			<i>Suggested</i> Chang	<i>IRemedy</i> e "2020" to "20	xx".		
Response ACCE		Response Status C				Response REJE		Response Status C		
C/ FM Lewis, Jo	SC FM n	P 12 Dell EMC	L 22	# 1-3				elow from David Law, "IEEE S reference is "IEEE Std 802.3c		been published, and
Comment Amen	<i>Type</i> E ndment number	Comment Status A is missing			bucket	From:	iginal Message Law, David <dl Thursday, June</dl 	 aw@HPE.COM> 25, 2020 8:14 AM		
Suggeste Add "		-" where "" is an em-dash				To: ST	DS-802-3-EDI	ORS@LISTSERV.IEEE.OR ORS] IEEE 802.3 amendmen		
Response ACCE) EPT IN PRINCIF	Response Status C PLE.				Dear a	ıll,			
IEEE	Std 802.3ch™-2	2020 has been assigned Amen	dment 8.			<https< td=""><td>://docs.google.</td><td>know that I've update the am com/spreadsheets/d/1mcLQW #gid=0> based on current pro</td><td>/GYuqZJB4W6H</td><td>7jGEH-fbgpc-</td></https<>	://docs.google.	know that I've update the am com/spreadsheets/d/1mcLQW #gid=0> based on current pro	/GYuqZJB4W6H	7jGEH-fbgpc-
from:		ing of the description of IEEE St	d 802.3ch™-20	020		based ballot,	on conditional IEEE P802.3c	approval for IEEE P802.3cu to , IEEE P802.3ct and IEEE P8 te of where these and other p	o proceed to Star 802.3cv entering	ndards Association
to: "Ame	ndment 8—This	amendment includes changes	to"			Best ro Davio	egards,			
C/ FM	SC FM	P 12	L 22	# <mark>I-13</mark>		David	a			
Grow, Ro	bert	RMG Consultir	g							
<i>Comment</i> This a	<i>Type</i> E amendment has	Comment Status A a number.			bucket	Appro	ved Amendmer	Std 802.3ch-2020 Approved A t 10: IEEE Std 802.3cr-20xx I	Draft D3.0 Amen	dment 11: IEEE Std
00	<i>dRemedy</i> : "Amendment 8	·".				13: IEI Amene	EE Std 802.3ct dment 15: IEEE	2.2 Amendment 12: IEEE Std 20xx Draft D2.0 Amendment 5 Std 802.3cs-20xx Draft D1.0	14: IEEE Std 802	2.3cv-20xx Draft D2.0
Response ACCE		Response Status C				Draft [Ameno		Std 802.3cw-20xx		

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/ FM SC FM Page 2 of 28 9/29/2020 6:39:36 PM

Cl FM SC FM P12 L28 # [4] Lewis, Jon Dell EMC SC FM P12 L37 Comment Type E Comment Status A bucket Amendment number is missing SuggestedRemedy Add "Amendment 9" where "" is an em-dash bucket Because this draft references Annex J2 (151.9.1), IEEE Std 802, project in amendment number because it adds the Annex. And assigned Amendment 10. Response Response Status C SuggestedRemedy ACCEPT IN PRINCIPLE. IEEE Std 802.3ca TM -2020 has been assigned Amendment 9. SuggestedRemedy SuggestedComment. Status A Changing the beginning of the description of IEEE Std 802.3ca TM -2020 from: "This amendment includes changes to" This amendment includes changes to" Statuards (including IEC 60950 erries of standards (including IEC 60950 erries of standards (including IEC 60050 series of standards (includ										
Comment Type E Comment Status A Amendment number is missing SuggestedRemedy Add "Amendment 9" where "" is an em-dash Because this draft references Annex J2 (151.9.1), IEEE Std 802. Response Response Status C ACCEPT IN PRINCIPLE. IEEE Std 802.3ca™-2020 has been assigned Amendment 9. Changing the beginning of the description of IEEE Std 802.3ca™-2020 Suggested Remedy "This amendment includes changes to" This amendment includes changes to" C/ FM SC FM P12 L28 # [-15] Grow, Robert RMG Consulting Kesponse Comment Type E Comment Status C Comment Type E Comment Status C	C/ FM	SC FM	P 12	L 28	# I-4	C/ FM	SC FM	P 12	L 37	# I-16
Amendment number is missing SuggestedRemedy Add "Amendment 9" where "" is an em-dash Response Response Status C ACCEPT IN PRINCIPLE. IEEE Std 802.3ca™-2020 has been assigned Amendment 9. Changing the beginning of the description of IEEE Std 802.3ca™-2020 from: "This amendment includes changes to" tc: "Amendment 9—This amendment includes changes to" C/ FM P12 C/ FM P12 Grow, Robert RMG Consulting Comment Type E Comment Type E Comment Status A bucket	Lewis, Jon		Dell EMC			Grow, Robe	t	RMG Consul	lting	
SuggestedRemedy Add "Amendment 9" where "" is an em-dash Response Response Status ACCEPT IN PRINCIPLE. IEEE Std 802.3ca ™-2020 has been assigned Amendment 9. Changing the beginning of the description of IEEE Std 802.3ca ™-2020 from: "This amendment includes changes to" to: "Amendment 9—This amendment includes changes to" C/ FM SC FM P12 L28 C/ FM RMG Consulting Grow, Robert RMG Consulting Comment Type E Comment Type E Comment Type E					bucket	Because	, this draft re	ferences Annex J2 (151.9.1), I		
Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. IEEE Std 802.3ca™-2020 has been assigned Amendment 9. Changing the beginning of the description of IEEE Std 802.3ca™-2020 from: This amendment includes changes to" IEEE Std 802.3ca™-2020 has been assigned Amendment 9. Changing the beginning of the description of IEEE Std 802.3ca™-2020 from: This amendment includes changes to" IEEE Std 802.3ca™-2020 from: "This amendment 9" This amendment includes changes to" This amendment includes changes to" C/ FM SC FM P12 L28 I=15 Grow, Robert RMG Consulting Response Status A C Comment Type E Comment Status A bucket ACCEPT.	00	-	" where "" is an em-dash			assigne	Amendme		Annex. And, Po	SU2.3cr has been
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from: amendment includes changes to IEEE Std 802.3-2018 and add "This amendment includes changes to" amendment includes changes to IEEE Std 802.3-2018 and add "This amendment includes changes to" "Information technology equipment—Safety—Part 1: General re "Amendment 9—This amendment includes changes to" "Information technology equipment" series and makes appropriate changes C/ FM SC FM P12 L28 # I-15 Grow, Robert RMG Consulting Response Response Status C Comment Type E Comment Status bucket ACCEPT.			Ũ			equipme 62368 "/	nt—Safety– udio/video,	-Part 1: General requirements' information and communicatio	') with appropria n technology eq	te references to the IEC uipment" series and
to: "Information technology equipment—Safety—Part 1: General re "Amendment 9—This amendment includes changes to" "Information technology equipment—Safety—Part 1: General re C/ FM SC FM P12 L28 # I-15 Grow, Robert RMG Consulting # I-15 corresponding to the new references. Comment Type E Comment Status A bucket	from:			td 802.3ca™-20	020	amendn	ent includes	changes to IEEE Std 802.3-20	018 and adds Ai	nnex J. This amendment
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	Grow, Rober	rt	RMG Consulti	ng		Response		Response Status C		
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/FM S	SC FM	P 12	L38	# 1-2	C/00 SC 0	P 0	,	# 1-92
	SC FIN		L 30	# 1-2				# 1-92
ewis, Jon	_	Dell EMC			Nicholl, Gary	Cisco Syst	ems, Inc.	
Comment Typ		Comment Status A		bucket	Comment Type E			bucket
	ist of ammend	rrently ahead of P802.3cu in t dments	the publication of	rder but is missing	Implement new F	FM template (Version 4.3)		
uggestedRer		amonto.			SuggestedRemedy			
00	E Std 802.3cr					FM template (Version 4.3), based	I the email from P	ete Anslow to the
		les changes to IEEE Std 802	.3-2018 and add	s Annex J. This	_	reflector on 7/6/2020		
amendme					Response	Response Status C		
	references to t ion technology	the IEC 60950 series of stand	dards (including	IEC 60950-1	ACCEPT.			
equipmen		, art 1: General requirements")) with appropriate	e references to the IEC	C/ 00 SC 0	P 12	L 20	# <u>1-</u> 5
62368 "Audio/vid	loo informatic	on and communication techno	alagy aguinmant	" aariaa and makaa	Maguire, Valerie	The Siemo	n Company	
appropriat	-		ology equipment	selles and makes	Comment Type E	Comment Status A		bucket
		d corresponding to the new re	eferences."		802.3ch has publ	lished.		
					SuggestedRemedy			
		0xx Amendment 10 This a				ch-20xx" with, "802.3cg-2020" an	d insert "Amendm	ent 8—" before "This
Std 802.3-	-2018 and add	ds Annex J. This amendmen	t replaces referei			ch-20xx" with, "802.3cg-2020" an	d insert "Amendm	ent 8—" before "This
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CI 00 SC 0

C/ 30	SC 30.5.1	1.2	P 19	L12	# I-50	CI 78	SC 7	78.7.4	P 24	L 7	# <mark>I-51</mark>
Ran, Adee			Intel			Ran, Adee	9		Intel		
Comment Accord	<i>Type</i> E ling to the sty		ent Status R 3.2.2):		editing instruction	Comment Accore		E he style r	Comment Status R nanual (18.2.2):	n	g instruction (updated 0922)
deletio and "Insert	ns) and unde	score (for ins to add new t	or tables are bein sertions) should be ext, equations, tab ng modified, not a	e indicated" bles, or figures in		deletic and "Insert	ons) and shall be	undersc e used to	when text or tables are be ore (for insertions) should add new text, equations, s being modified, not a ne	be indicated" ables, or figure	erefore, strikethrough (for s in the standard".
Suggested	Remedy					Also ir	n the foll	owina pla	aces, page/subclause/Line		
Chang	e the instructi	ons to "chang	ge" (3 times) and ι	underline the new	/ text.	25 80.	1.4 14	51	,		
Response REJEC	CT.	Respon	se Status C			26 80. 32 116 33 116	6.1.3 18				
			struction in this se		t with previously	Suggested	Remed	V			
publish	ed amendme	nts, e.g. 802.	.3cd, 802.3cm and	d 802.3cn.		Chang	e the in	struction	to "change" and underline	the new text. A	pply in all listed places.
approp		nstruction in	anual (18.2.2), "Ins this circumstance		to be the most eing added rather than	more	CT. Ibles, bri consiste		e letter of the style manua		ing instruction is definitely best practice for many
						using	an "Inse	rt" editing	9 78-1, Table 80-1, Table 8 g instruction and stating w aviously published amendi	nere the new ro	2, and Table 116-6 of ws should be inserted has
						C/ 140	SC 1	40.1	P 37	L 34	# <u>I-43</u>
						Lewis, Da	vid		Lumentum	Inc.	
						Comment	Туре	Е	Comment Status A		bucket (updated 0924
									ust is deprecated and can used only to describe una		
						Suggested					
						In foot	note a, o	change n	nust to shall.		
						Response ACCE		RINCIPL	Response Status C E.		
						In foot	note a.	change "	must behave" to "behave	5".	
								Ũ			

C/ 140	SC 140.1	P 38	L 1	# I-52	C/ 140	SC 1	40.6	P 40	L16	# <u>I-22</u>
Ran, Adee	9	Intel			Dudek, Mi	ichael		Marvell		
Comment Accord	<i>Type</i> E ding to the style r	Comment Status D nanual (18.2.2):		Editing instruction).10a.1 tł		Comment Status A requirements for interoperation ould be stated here.	on for the output	Interop power as well as the
deletio and	ons) and undersc	when text or tables are being ore (for insertions) should be add new text, equations, tab	indicated"				nel requi	irements" to "Channel and 10	00GBASE-FR1 tr	ansmitter average
	ı figure is being r d to a figure).	epalced and its title is change	ed (the "change	" instruction can't be	Response ACCE	EPT IN P	RINCIPL	Response Status C .E.		
Suggested Chang in the t	e the instruction	to "replace" the figure and "c	hange" the title.	Remove the underlines	"The 1			PMD interoperates with the 1 defined in 140.10a.1 are met.		MD provided that the
Proposed PROP	Response OSED REJECT.	Response Status W						PMD interoperates with the 10 defined in 140.10a.2 are met		MD provided that the
		diting instruction is making m replacing the figure with a co						PMD interoperates with the 10 defined in 140.10a.3 are met.		PMD provided that the
		f "change" rather than "replac			to:					
what h	as not).	e, and helps the reader identif		nged in the figure (and				PMD interoperates with the 1 delines in 140.10a.1 are met.		MD provided that the
This a	pproach is also c	consistent with previous pract	ce.					PMD interoperates with the 10 40.10a.2 are met.	00GBASE-DR PI	MD provided that the
								PMD interoperates with the 10 40.10a.3 are met."	00GBASE-FR1 F	PMD provided that the

C/ 140 SC 140.6

C/ 140 SC 140.6.1	P 41	L 32	# I-60	C/ 140	SC 140.6.1	P 41	L 3 7	# <mark>I-63</mark>
Sommers, Scott	Molex Incorp	oorated		Dawe, Pier	rs J G	Mellanox Te	chnologies	
Comment Type T	Comment Status R		Tx specifications	Comment	Type TR	Comment Status D	spec	cifications (updated 0929)
"1300 to 1320". Reason temperature operation.	the contents for "Waveleng n: To enable uncooled DFB			standa 100GB	rd says so or no ASE-DR one. I	00GBASE-FR1 are expected ot). So the 100GBASE-FR1 It's not worth making a specia out super-high extinction rati	transmitter must al case for 0.2 dE	not be weaker than the
SuggestedRemedy 1300 to 1320				Suggested	Remedv			
Response REJECT.	Response Status C			Chang	e 100GBASE-F	R1 average launch power (m consequence, change avera		
The Task Force review						and the 100GBASE-FR1 tran average launch power (min) f		
	g/3/cu/public/Sept20/chuang g/3/cu/public/Sept20/welch_			Proposed I PROP	Response OSED REJECT	Response Status W		
	ng the "Wavelength (range)" 317.5" to "1300 to 1320" ?	for 100GBASE-	FR1 and 100GBASE-	A strav	v poll was taken	l,		
Ves: 6 No: 27 Abstain: 11	17.5 10 1500 10 1520 ?			Do you 100GB	poll #1: ı support changi ASE-FR1. :9, Abstain: 11	ing the average launch powe	r (min) from -3.1	dBm to -2.9 dBm for
There is no consensus	to make the proposed chan	ige.		Curren	tly there is no c	onsensus to make the propo	sed change.	

C/ 140 SC 140.6.1

C/ 140	SC 140.6.1	P 41	L 51	# I-64	C/ 140	SC 140.6	.1	P 42	L 7	# I-65
Dawe, Piers	JG	Mellanox Tec	chnologies		Dawe, Pie	rs J G		Mellanox Te	chnologies	
optical F power de SuggestedR Limit TD 100GBA As there against f SECQ - Remove	eiver must be pr PAM4 clauses, 4 on't exclude all PECQ - 10log10 SE-LR1 to 3.4 P's now no need them, in Table 10log10(Ceq) (the inserted we	to generate such bad signa 140-7 Conditions of stressed	sed very bad sigr Over/under-show hey do, the K lim Ceq) for 100GBA Is for Rx stress to receiver sensitiv	ot and peak-to-peak it won't hurt you). ASE-FR1 and est or test the receiver vity test, add limits for	transm Suggested Limit T Proposed I PROP The co	ASE-DR an itter must no Remedy ECQ - 10log Response OSED REJE	d 100GBASE ot transmit a v 10(Ceq) for 1 <i>Respo</i> CCT.	nent Status D -FR1 are interoper- vorse signal than th 00GBASE-FR1 to <i>nse Status</i> W ue for a paramete	able. So the 100 he 100GBASE-D 3.4 dB.	
The com 100GBA The IEE force rev While th	SED REJECT. Inment is propos SE-FR1, 100G E P802.3cu Tat view and workin the comment doe	Response Status W sing values for parameters for BASE-LR1, 400GBASE-FR4 sk Force reviewed these par ig group ballot, and reached es not request the addition of ntion of the commenter.	4 and 400GBASE rameters previous consensus to no	E-LR4-6. sly during both task ti include them.	review While have b	and working the commer een the inte	group ballot, t does not rec ntion of the co	and reached cons	eensus to not inc	/ during both task force lude it. r into the draft, that may

There is no consensus to make the proposed change.

C/ 140 SC 140.6.1 on SMF Initial Sponsor ballot comments

C/ 140	SC 140.6.1	P 42	L 8	# I-66
Dawe, Pi	ers J G	Mellanox Teo	hnologies	
expe dispe than rejec	t Type TR Co see that TDECQ - TEC t that the minimum per rision after a long link. A one with high penalty at ts mediocre but accepta to-back, which is silly.	alty is at zero dispersi Also, I would prefer a tr each dispersion - at le	of dispersion pen on, it doesn't tell ransmitter with lo east it's good son	us the sensitivity to w back-to-back penalty newhere. This spec
Suggeste	dRemedy			
	e the " TDECQ - TECC arly for 400GBASE-FR4			
Proposed	Response Res	sponse Status W		
PRO	POSED REJECT.			
	comment is proposing t ask force.	o remove a parameter	that was added	based on consensus of
P802 (https	consensus of the task fo .3cu Task Force Interim c://www.ieee802.org/3/c raw poll #4 are included	Meeting, Jan 20th, 20 u/public/Jan20/minutes	20, Geneva, Sw	itzerland
l wou LR1 a		d with the values prop	osed in slides 24	l and 27 of
There	e is no consensus to ma	ike the proposed chan	ge.	
			-	

This parameter was added during task force review in response to comment #2 against D1.1. The response to that comment is copied below:

"ACCEPT IN PRINCIPAL.

The proposed remedy includes three changes to Table 140-6: -removing TDECQ-10log10(Ceq) for 100GBASE-FR1 and -LR1; -adding TECQ to the table with values for 100GBASE-FR1 and -LR1; -adding TDECQ-TECQ with values for 100GBASE-FR1 and -LR1. Following review of cole 01b 0120 the following three straw polls were taken: Straw poll #2: I would support removing TDECQ-10Log(Ceq) for 100GBASE-FR1,100GBASE-LR1, 400GBASE-FR4 and 400GBASE-LR4-6 as proposed in cole 01b 0120. Yes 13: No: 11 Straw poll #3: I would support adding TECQ (max) for 100GBASE-FR1,100GBASE-LR1, 400GBASEFR4 and 400GBASE-LR4-6 and with the values proposed in slides 24 and 27 of cole 01b 0120. Yes: 24 No: 2 Straw poll #4:

I would support adding a TDECQ-TECQ specification for 100GBASE-FR1,100GBASELR1 and 400GBASE-FR4 and with the values proposed in slides 24 and 27 of cole 01b 0120, along with the additional changes proposed in slide 20 of cole 01b 0120. Yes: 20

No: 2

Implement these three changes to 100GBASE-FR1 and 100GBASE-LR1 as proposed in cole 01b 0120, with editorial license."

No new data has been provided to support reversing this decision.

C/ 140	SC 140.6.1	P 42	L 14	# <mark>1-6</mark> 7
Dawe, Piers	s J G	Mellanox T	echnologies	
Comment T	ype TR	Comment Status D	spe	cifications (updated 0929,
signals	could pass this	on time (max) is probably in and fail TDECQ. But an e low signals that are hard to	ffective spec usef	
SuggestedF	Remedy			
0		for for 100GBASE-FR1 an E-FR4 400GBASE-LR4-6.	d 100GBASE-LR	1.
Proposed R	esponse	Response Status W		
PROPC	SED REJECT.			
The cor ineffecti		at a transmitter transition t	ime (max) value c	of 17ps is "probably
		sing to change the transmi dence that this value is any		
There is	s no consensus	to make the proposed cha	nge.	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general C/ 140 Page 9 of 28 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 140.6.1 9/29/2020 6:39:36 PM SORT ORDER: Clause, Subclause, page, line

C/ 140 SC 140.6.1	P 42	L17	# I-68	C/ 140	SC 140	0.6.1	P 42	L 28	# 1-44
Dawe, Piers J G	Mellanox Tech	nologies		Lewis, Dav	vid		Lumentum	nc.	
Comment Type T	Comment Status D	spec	fications (updated 0929)	Comment	Туре Е	•	Comment Status A		bucket (updated 0924
	o-peak power (max) limits are s may be used back-to-back wi			require	ements, m		st is deprecated and cannot sed only to describe unave		
SuggestedRemedy				Suggested			unt to alcall		
•••	se, particularly for 100GBASE	LR1. bv a coup	le of tenths of a dB.		note b, ch	ange m	ust to shall.		
Proposed Response	Response Status W	, _,		Response			Response Status C		
PROPOSED REJECT	•			ACCEI	PT IN PRI	NCIPLE	Ξ.		
THOI USED REJECT				Chang	e footnote	b to:			
	y in the comment does not cor can understand the specific ch P 42			where		: 1.4 dB	ne requirement on the OM for an extinction ratio of >		
Dawe, Piers J G	Mellanox Tech		<i>n</i> 1-00	extinet		1 - J UL			
Comment Type T	Comment Status D	inologies	Tx specifications	•	nent with e	editorial	license (recognizing the fa	act that this cha	nge is modifying existing
21	unch power (min) is informative	and not the pri	'	text).					
signal strength" dates	back to when OMA was new a allowed to mix informative and	nd unfamiliar. I	Part of it is contrary to	C/ 140	SC 140	0.6.1	P 42	L 32	# <mark>I-53</mark>
	ending on the exact values, it			Ran, Adee Comment		1	Intel Comment Status A		bucket (updated 0924
suggestedRemedy	, ,			Where	are the n	ew table	e and text inserted?		
Change to just "Avera strength".	ge launch power (min) is not th	e principal indic	ator of signal	Suggested Add to		ction "a	fter Table 140-6" or where	ver it is intende	d.
Same in Table 151-7				Response			Response Status C		
Proposed Response	Response Status W			ACCEI	PT IN PRI	NCIPLE	, <u>.</u>		
PROPOSED ACCEPT	IN PRINCIPLE.						а т.н. 440 он ни н		
There is no consensus	s to change "Average launch p	ower, each lane	(min)" from	Add to	the instru	ction "a	fter Table 140-6", with ed	torial license.	
informative to normati			()				nces in Clause 140 where		
Making a change to 10	00GBASE-DR is out of scope.				ed. Revie al license.	w all ed	iting instructions in Clause	140 and updat	e if necessary with
Delete the second ser	tence of the footnote for 100G	BASE-FR1, 100)GBASE-LR1,						

C/ 140 SC 140.6.1

/ 140 SC 140.6.1 P42	L 32	# 1-23	C/ 140	SC 140.6	.2	P 43	L 32	# 1-24
udek, Michael Marvell			Dudek, Mich	nael		Marvell		
omment Type E Comment Status A It does not say at what point the figure and texts	should be inserted.	bucket (updated 0924)	Comment Ty It does r		• • • •	<i>ment Status</i> A e figure and text sho	uld be inserted	bucket (updated 0924 I.
uggestedRemedy Add "at the end of section 140.6.1"			<i>SuggestedR</i> Add "at	-	section 140.	6.2"		
ACCEPT IN PRINCIPLE.			Response ACCEP	T IN PRIN	,	onse Status C		
Implement the suggested remedy with editorial	icense.		Impleme	ent the sug	gested reme	edy with editorial lice	nse.	
There are several instances in Clause 140 wher improved. Review all editing instructions in Clau editorial license.	0			d. Review		Clause 140 where the structions in Clause	0	
/ 140 SC 140.6.1 P43	L 21	# I-70	C/ 140	SC 140.6	.2	P 43	L 38	# <u>1-54</u>
awe, Piers J G Mellanox	Technologies		Ran, Adee			Intel		
omment Type T Comment Status D	spe	cifications (updated 0929)	Comment T	vpe E	Con	ment Status A		bucket (updated 0924
I wonder if putting the knee at 1.4 dB is a bit hig 100GBASE-FR1 where the dispersion penalty n		s applies more to	Where a	are the new	figure and	ext inserted?		
uggested Remedy			In the ne	ext page, T	able 140-7 i	s changed but there	is no corespon	iding editorial instruction.
Consider moving the knee to 1.2 dB by reducing	the minimum OM	A. If wished, the	SuggestedR	Remedy				
Average launch power (min) for 100GBASE-LR	l could be reduced	in step.			tion to "chaı struction foı		ntext to identify	the location of the new
pposed Response Response Status W			Response			onse Status C		
PROPOSED REJECT.					,			
The comment is proposing a change to the OM	A outer (min) and t	ne range of TDECQ				edy with editorial lice	nse.	
over which this applies.								
over which this applies. The comment does not provide sufficient evider There is no consensus to make the proposed ch		nange.		d. Review		Clause 140 where th structions in Clause		

C/ 140 SC 140.6.2

	P 44	L 9	# I-61	C/ 140	SC 140.6.2	P 45	L15	# I-48
Sommers, Scott	Molex Incorp	orated		Zhang, Bo		Inphi Corpo	ration	
Comment Type T In Table 140-7; change "1300 to 1320". Reasor temperature operation. SuggestedRemedy	Comment Status R the contents for "Waveleng n: To enable uncooled DFB	th (range)" from laser application	<i>Rx specifications</i> "1304.5 to 1317.5" to a for industrial	sensitiv Suggested	s listed as OMA /ity Remedy	Comment Status A	-	<i>Rx specification</i> ub-section is on Rx
1300 to 1320				Sugges	st change the Y	axis to Receiver Sensitivity.		
Response REJECT.	Response Status C			Response	oposed change PT IN PRINCIPL	also applies to page 51 (Fig <i>Response Status</i> C E.	g 140-5), and pag	ge 74 (Fig 151-4).
Resolve using the respo	onse to comment i-60.			The ac	tual parameter o	on the y-axis is listed in Tab	le 140-7 as "Rec	eiver sensitivity
[Editor's note: For refer	ence, the response to comr	nent i-60 is copie	ed here:			b it is sensitivity measured i		
REJECT.					e axis title to: Re Fig 151-4, with e	eceiver sensitivity(OMAoute ditorial license.	r) (max) (dBm) in	n Figure 140-2b, Fig 140-
	ed g/3/cu/public/Sept20/chuang g/3/cu/public/Sept20/welch_							
	g the "Wavelength (range)" 17.5" to "1300 to 1320" ?	for 100GBASE-	FR1 and 100GBASE-					
Do you support changin LR1 from "1304.5 to 13 Yes: 6 No: 27 Abstain: 11			FR1 and 100GBASE-					
Do you support changin LR1 from "1304.5 to 13 Yes: 6 No: 27 Abstain: 11 There is no consensus t]	17.5" to "1300 to 1320" ?		FR1 and 100GBASE-					
Do you support changin LR1 from "1304.5 to 137 Yes: 6 No: 27 Abstain: 11 There is no consensus t]	17.5" to "1300 to 1320" ?	ge.						
Do you support changin LR1 from "1304.5 to 13" Yes: 6 No: 27 Abstain: 11 There is no consensus t] C/ 140 SC 140.6.2 Dudek, Michael Comment Type T	17.5" to "1300 to 1320" ? to make the proposed chan	ge. L18	# -25 bucket					
Do you support changin LR1 from "1304.5 to 13" Yes: 6 No: 27 Abstain: 11 There is no consensus t] C/ 140 SC 140.6.2 Dudek, Michael Comment Type T There is an erroneous for	17.5" to "1300 to 1320" ? to make the proposed chang P 44 Marvell <i>Comment Status</i> R potnote reference "e" on the	ge. L18	# -25 bucket					

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/ 140 SC 140.6.2 Page 12 of 28 9/29/2020 6:39:37 PM

C/ 140	SC	140.6.3	P 46	L 21	# I-91	C/ 140	SC 140.6.3	P 46
Cole, Chri	istopher	R	II-VI			Dawe, Pie	rs J G	Mellanox Te
Comment	Туре	Е	Comment Status A		power budget	Comment	Туре Т	Comment Status A
100GI chang refere units a incons	BASE-F les that nces in along sid sistent v	R1 and 10 the 802.3c other table de the valu vith practic	on reference in Table 140-8 f 00GBASE-LR1 is cumberson ou working group made in 80 es. Also in Table 140-14 in s use within the table, rather the throughout the rest of the	ne to use and 2.3cu D2.2 to ection 140.10 an as a separ document.	inconsistent with remove similar .2.2 (page 56), having the rate "units column", is	a The 140-5 dB/km b The 140-5	channel insertion for 100GBASE-D plus an allocatio channel insertion for 100GBASE-L	and accuracy: change: loss is calculated using th R and 100GBASE-FR1 ar n for connection and splice loss is calculated using th R1 and fiber attenuation of n and splice loss given in 2
Simila 151.	ir comm	ients agair	nst Table 151-9 (page 75) an	d Table 151-1	5 (page 89) in Clause	Suggestea	lRemedy	
This to conjuc	ction wit //www.ie	h presenta ee802.org	d during the 802.3cu ad-hoo ation ŋ/3/cu/public/cu_adhoc/cu_al		-	using t of 0.5 b The	the maximum dis dB/km plus an al channel insertion	losses for 100GBASE-DF tances specified in Table 1 location for connection and loss for 100GBASE-LR1 i
••		•	d changes to Table 140-8, T	able 140-14	Table 151-9 and Table			5 and fiber attenuation of 0 n and splice loss given in 1
151-1	5, and	associated	l footnotes, as captured in /3/cu/public/cu_adhoc/cu_al			Response ACCE		Response Status C
Response	•		Response Status C			7,002		
ACCE	PT IN F	PRINCIPLE	<u>.</u>			C/ 140	SC 140.6.3	P 46
http://		ee802.org/	3/cu/public/cu_adhoc/cu_arc August 14th ad hoc call.	hive/cole_3cu	u_adhoc_081420_v2.pdf	Ran, Adee <i>Comment</i> Where	Type E	Intel Comment Status A res and text inserted?
Implei	ment the	e suggeste	ed remedy with editorial licen	se.		Suggestea	Remedy	
C/ 140	SC	140.6.3	P 46	L32	# 1-26	Add to	the instruction "a	after Table 140-8" or where
Dudek, Mi			Marvell		" 120	Add th	e numbers of the	e new figures, 140-2c and 1
Comment		Е	Comment Status A		bucket (updated 0924)	Response		Response Status C
		y at what p	point the figure and text shou	Ild be inserted		ACCE	PT IN PRINCIPL	E.
Suggested			on 140.6.3"			Implen	nent the suggest	ed remedy with editorial lic
		Id of section				There	are several insta	nces in Clause 140 where
Response ACCE		PRINCIPLE	Response Status C E.				ved. Review all eo al license.	diting instructions in Clause
Implei	ment the	e suggeste	ed remedy with editorial licen	se.				
improv		view all ed	nces in Clause 140 where the liting instructions in Clause 1					
TYPE: TR	/technic	al required	d ER/editorial required GR/	deneral requir	ed T/technical E/editorial G/g	eneral		CI

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/ 140 SC 140.6.3 Page 13 of 28 9/29/2020 6:39:37 PM

C/ 140	SC 140.6.3	P 46	L 34	# I-71
Dawe, Piers	JG	Mellanox Tech	nologies	
Comment Ty	rpe T	Comment Status A		power budget

the maximum distance specified in Table and cabled optical fiber attenuation of 0.5 ice loss given in 140.10.2.1. the maximum distance specified in Table of 0.43 dB/km at 1304.5 nm plus an 140.10.2.1.

OR and 100GBASE-FR1 are calculated 140-5 and cabled optical fiber attenuation nd splice loss given in 140.10.2.1. 1 is calculated using the maximum distance 0.43 dB/km at 1304.5 nm plus an 140.10.2.1.

Response ACCE		Response Status C		
C/ 140	SC 140.6.3	P 46	L 43	# I-55
Ran, Adee	Э	Intel		
	<i>Type</i> E e are the new fig	<i>Comment Status</i> A ures and text inserted?		bucket (updated 0924)
• •				

erever it is intended.

140-2d.

Response	Response Status	С	
ACCEPT IN PRINCIPLE	:		

license.

re the editing instructions could be se 140 and update if necessary with

C/ 140 SC 140.6.3	P 46	L 46	# I-59	C/ 140	SC 140.7.	5	P 49	L 42	# 1-37
Stassar, Peter	Huawei Tech	nologies Co. Lto	I	Lewis, Dav	/id		Lumentum Ir	nc.	
Comment Type E	Comment Status D		er budget [updated 0924)	Comment			t Status A		measurement metho
understand the relationsl	es 140-2c and 140-2d are i hip between these figures a es to new Clause 151, subc	and the illustrativ		at the	inked location		TDECQ testing	g of 100GBASE-I	FR1 or 100GBASE-LR1
SuggestedRemedy				Suggested	-			15 I. 404 0.	
The clarification needs to	o be expanded. A presentat t comment resolution meeti		text proposals will be	121.8. 100GE	5.3" to ".mea BASE-DR only	sured using the , and 121.8.5.3.	methods spec .". Insert a nev	ified in 121.8.5.1, v paragraph befo	re 140.7.5.1: "
Proposed Response PROPOSED REJECT.	Response Status Z			meet t	he requiremer	ts in Table 140	-10a. Insert the	e new Table 140-	optical channels that 10a in the same format 00GBASE-FR1 and
	HDRAWN by the commenter			400GE minimu	BASE-LR4-6 re	eplaced by 1000 num dispersion	GBASE-LR1. C	Change the coeffic LR1 from 0.138 to	cient values for
C/ 140 SC 140.7.5	P 49	L 37	# 1-47	Response		Response	Status C		
Maki, Jeffery	Juniper Netw	orks, Inc.			PT IN PRINCI	,			
Comment Type TR	Comment Status A		measurement method						
	r external-subclause addition ng "Transmitter compliance 1.				/www.ieee802	ges captured in .org/3/cu/public/			.pdf, with editorial
SuggestedRemedy				C/ 140	SC 140.7.	5	P 49	L 44	# 1-49
	external-subclause additior tter compliance channel sp			Zhang, Bo			Inphi Corpora	ation	
100GBASE-LR1.				Comment			Status R		bucke
Response	Response Status C				•	d with and inco	mplete phrase,	with the followin	g exceptions:'
ACCEPT IN PRINCIPLE				Suggested	Remedy				
See response to I-37								his phrase at the sure for PAM4 (T	end of this paragraph in DECQ).
[Editor's note added afte	r the comment was closed:			Response		Response	Status C		
Fan nafanan an tha naan a		ind have		REJEC	CT.				
For reference, the respon	nse to comment i-37 is cop	ned here.		This di	aft is amendir	ng Clause 140.			
ACCEPT IN PRINCIPLE						-			
Implement the changes (captured in slides 3 and 4 c	of		The ec	liting instructio	on on p49, line 3	89 is changing t	he first paragraph	h of 140.7.5.
	/3/cu/public/Sept20/lewis_3		.pdf, with editorial	inserte	d text is identi	fed by underlini	ng and unchan		l with strikethrough, i is. Text that is not ended.
						s following the fi need to import			t being changed, and

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
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 Page 14 of 28

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 140
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 SC
 140
 9/29/2020 6:39:37 PM

	D F0	17	#	CI 440	00 440 7		0.50	1.0	# 1.70
C/ 140 SC 140.7.5a	P50	L7	# 1-27	C/ 140	SC 140.7.	Da	P 50 Mollopox Tor	L8	# 1-72
oudek, Michael Comment Type T	Marvell Comment Status A		bucket (updated 0922)	Dawe, Pie <i>Comment</i>		Comme	Mellanox Tee nt Status A	cnnologies	buckei
There is only one lane for					write "shall be			test spec. Use	the standard form of
<i>lggestedRemedy</i> Delete "of each lane"				Suggester	-				
esponse ACCEPT IN PRINCIPLE	Response Status C			and 100GI	BASE-LR1 if m	easured meas	sured using the r	nethods specifie	0-6 for 100GBASE-FR1 ad for TDECQ in 140.7.5, IECQ is given in Table
In addition to 140.7.5a, th 140.7.5c.	ne comment and suggested	d remedy also	apply to 140.7.5b and	140-1					<u> </u>
In 140.7.5a:				Response		Respons	e Status U		
	second sentence from "The be within the limits …"	e TECQ of ea	ch lane shall be within the	ACCE	PT IN PRINC	PLE.			
	third sentence from "The T	ECQ of each	lane shall be measured	In 140 - In th		e change "shal	l be measured" t	to "if measured"	
In 140.7.5b: Change the first paragrap				ln 151 - In th		e change "shal	l be measured" t	to "if measured"	
Table 140–6 if measured	ler-shoot percentage of eac using a test pattern specif		be within the limits given in hitter over/under-shoot in	C/ 140	SC 140.7.	5b	P 50	L10	# <mark>I-73</mark>
Table 140–10" to:				Dawe, Pie			Mellanox Teo	chnologies	
140–6 if measured using	ler-shoot percentage shall a test pattern specified for			Comment Mislea			nt Status A er/under-shoot"		parameter definitions
140–10"				Suggestee	dRemedy				
In 140.7.5c: Change the first paragram	bh from:			Chanç Also ii		ver/under-shoo	ot" or "Relative o	ver/under-shoot'	' or "Over/under-shoot".
"The transmitter peak-to- 140–6 if measured using Table 140–10"	peak power of each lane sl a test pattern specified for			Response ACCE			e Status C		
	peak power shall be within attern specified for transmit				ge "Transmitte al license.	r over/under-sł	noot" to "Over/ur	ider-shoot" throu	ighout the draft, with
YPE: TR/technical required OMMENT STATUS: D/dispa			red T/technical E/editorial G/g				C/ 1	40	Page 15 of 28

7 PM

C/ 140	SC 140.7.5b	P 50	L13	# 1-74	C/ 140	SC 140.7.5b	P 50	L 20	# I-75
Dawe, Pie	ers J G	Mellanox Tec	hnologies		Dawe, Pie	rs J G	Mellanox Tech	nnologies	
Comment percer	51	Comment Status A		measurement method		mithing: change	Comment Status A : is defined as the maximum po		definitions (updated 0922)
	e: we don't say T	DECQ decibellage. The % is point another way.	in the table.	Calling it "relative	relative power	e to the level 3 and the transmit	ter OMAouter according to:		
	rly in 151.8.9 if i				Suggested	Remedy			
	PT IN PRINCIPI				power	and relative to the	ined as the maximum power (ne signal's OMAouter accordir t. Same in 151.8.9 if it remai	ng to:	nal above the level 3
Delete	e the word "perce	entage" from the first sentence	e of 140.7.5b a	ind 151.8.9.	Response		Response Status C		
					ACCE	PT IN PRINCIPL	.E.		
					Comm the dra		s "Transmitter over/under-sho	oot" to "Over/ur	nder-shoot" throughout
							s the equivalent text in 151.8.9 e is required to 151.8.9.	9 and instead r	eferences the text in
					In 140	.7.5b:			
					"Trans relative to: "Overs	e to the level 3 p	is defined as the maximum p ower and the transmitter OMA as the maximum power (Pmax ding to:"	Aouter accordin	g to:"
					"Trans relative to: "Under	e to the level 0 p	ot is defined as the minimum ower and the transmitter OMA as the minimum power (Pmir ding to:"	Aouter accordin	g to:"

C/ 140 SC 140.7.5b

	0.50	1.04	" 1.70	01.4.40	00 440 7 5	- 050	1.45	// I. ==
C/ 140 SC 140.7.5b	<i>P</i> 50	L 31	# I-76	C/ 140	SC 140.7.50		L 45	# I-77
Dawe, Piers J G	Mellanox Tec	0		Dawe, Piers			echnologies	
Comment Type T A 1% hit ratio is very lax,			<i>t method (updated 0922)</i> the same situation as	Comment Ty Misleadi	,	Comment Status A ansmitter peak-to-peak pow		lefinitions (updated 0922)
a traditional mask hit ratio).			SuggestedR	emedy			
SuggestedRemedy Determine what correlates	s to receiver performance.	. If appropriate,	change to 1e-3, with	•	to "Signal pea it). Also in 15	ak-to-peak power" or "Peak 51.	to-peak power" (or	r see another
corresponding change to particular build standard). strong and weak signals.	Use explicit scope noise			Response ACCEP1		Response Status C		
Same in 151.8.9 if it rem	ains.			Deselve				
Response	Response Status C			Resolve	using the res	ponse to comment i-93.		
REJECT.				[Editor's	note: For ref	ference, the response to cor	nment i-93 is copie	ed here:
The comment does not pu broken or technically inco		dicate that the cu	irrent specification is	"Transm TDECQ without t to: "Transm test (see In 140.7 Change "Transm TDECQ	the 1st sente itter peak-to-p test (see 151 he reference itter peak-to-p 151.8.6), but .5c: the 1st sente itter peak-to-p test (see 140	ence of the 2nd paragraph fipeak power is measured us .8.5) and the waveform cap equalizer being applied in e peak power is measured us t without the reference equatence of the 2nd paragraph fipeak power is measured us .7.5) and the waveform cap	ing the waveforms tured for the TECC ach case." ing the waveform c lizer being applied rom: ing the waveforms tured for the TECC	a test (see 151.8.6), but captured for the TECQ ."
				to: "Transm	itter peak-to-p	nce equalizer being applied peak power is measured us ut without the reference equ	ng the waveforms	

C/ 140 SC 140.7.5c

C/ 140	SC 140.7.5c	P 50	L 49	# I-94	C/ 140	SC 140.7.50	:	P 50	L 50	# 1-78
Rodes, Ro	oberto	II-VI			Dawe, Pier	rs J G	M	ellanox Techno	ologies	
Comment	Туре Т	Comment Status A	emen	t method (updated 0922)	Comment	Туре Т	Comment Sta	tus A		measurement method
fiber w	vill always be lowe	pec Transmitter peak-to-pea er than back to back. It creat			shoot l	imit means tha		eak power at T		el and the over/under- e unnecessary. For
Suggested	-				Suggested		·····			
Transr test (se With:	ee 140.7.5a), but	ak power is measured using without the reference equal	izer being applie	d in each case.	Consid 100GB subtrac	er not requiring ASE-FR1, adju	ist the measured re	esult by the ad create separate	ding the los	GBASE-LR1 at TP3. For ss of the test channel and d limits for peak-to-peak
		ak power is measured using			Response		Response Stat	tus C		
		he waveform captured for th being applied in each case.		e 140.7.5a), but without	ACCEI	PT IN PRINCIP	•			
Response		Response Status C			Resolv	e using the res	ponse to comment	t i-93.		
ACCE	PT IN PRINCIPLE	E.			[Edito	da nata. Far raf	erence, the respon	aa ta aamman	t i 02 ia aa	niad hara
Resolv	ve using the respo	onse to comment i-93.				S HOLE. FOR THE	erence, the respon	ise to commen	it 1-95 is co	pied here.
10001	to doing the roope				In 151.	8.10:				
[Edito	or's note: For refer	rence, the response to comr	nent i-93 is copie	ed here:			ence of the 2nd par			
L. 454	0.40						beak power is mea			
In 151		ce of the 2nd paragraph from	n .				equalizer being ap			CQ test (see 151.8.6), but
		ak power is measured using		captured for the	to:		equalizer being ap	plied in each c	ase.	
		.5) and the waveform captu				mitter peak-to-	beak power is mea	sured using th	e waveform	n captured for the TECQ
		qualizer being applied in eac					t without the refere			
	mitter peak-to-pe	ak power is measured using	the waveform c	aptured for the TECQ	In 140.	7.5c:				
		vithout the reference equaliz					ence of the 2nd par			
							beak power is mea			
In 140		ce of the 2nd paragraph from					.7.5) and the wave nce equalizer being			CQ test (see 140.7.5a),
		ak power is measured using		captured for the	to:		ice equalizer being	g applied in ear	ch case.	
		.5) and the waveform captu				mitter peak-to-r	beak power is mea	sured using th	e waveform	ns captured for the TECQ
but wit	thout the referenc	e equalizer being applied in	each case."				ut without the refere			
to:										
		ak power is measured using			,					
iesi (si	ee 140.7.5a), but	without the reference equal	izer beirig applier	d in each case.	1					
]										

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/ 140 SC 140.7.5c

C/ 140 SC 140).7.5c	P 50	L 52	# 1-79	C/ 140 SC 140.7.9 P51 L15 # 1-80
Dawe, Piers J G		Mellanox Tech	nnologies		Dawe, Piers J G Mellanox Technologies
example is a dire chromatic disper- negative excursio and negative pea SuggestedRemedy Change "Transm excursion", define Table 140-6. Or, define "effect Make similar cha Proposed Response PROPOSED RE.	negative octly modu sion can r ons from t aks must b itter peak ed as max ive peak-t nges in C <i>F</i> JECT.	Comment Status D beaks of an optical signal lated laser, but other trans- nake this worse. An optica he mean and needs prote he limited separately. to-peak power" which is F (Pmax-Paverage, Pavera o-peak power" as 2*max lause 151. Response Status W	ter of can be very diff smitters are not al receiver cope ection from both Pmax - Pmin to age-Pmin). Take (Pmax-Paverag	t symmetric also, and s with positive and extremes; the positive "Transmitter power e 3 dB off the limits in le, Paverage-Pmin).	Comment Type TR Comment Status A measurement measuremeasurement measurement measurement measure
either broken or t	echnically	vide sufficient data to ind incomplete. nake the proposed chang		,	consistency with the recent change made to 100GBASE-FR1 and 100GBASE-LR1 is a scope. The three new paragraphs added at the end of 140.7.9 only apply to 100GBASE-FR1 100GBASE-LR1. To improve the clarity of the draft implement the changes captured in slides 6 and 7 of https://www.ieee802.org/3/cu/public/Sept20/lewis_3cu_01a_091520.pdf, with editorial license.
					C/ 140 SC 140.7.9 P51 L26 # [-56
					Ran, Adee Intel
					Comment TypeEComment StatusAbucket (updatedIs Figure 140-5 a new figure, a replacement, or no change to existing figure 140-5?
					SuggestedRemedy If no change, separate the editorial instruction to two changes, before and after the figu
					Response Response Status C ACCEPT IN PRINCIPLE.
					Implement the suggested remedy with editorial license.

C/ 140 SC 140.7.9 Page 19 of 28 9/29/2020 6:39:37 PM

C/ 140	SC 140.7.10	P 52	L 23	# I-28	C/ 140	SC 140.7.	0	P 52	L35	# I-29
Dudek, M	ichael	Marvell			Dudek, Mi	chael		Marvell		
Comment	Туре Т	Comment Status D		measurement method	Comment	Type TR	Co	mment Status A		measurement method
The R tested		e to meet the requirements f	or all of the Ph	ys just the one being		vershoot/unde han this would			tters is limited	Testing a receiver with
Suggestee	dRemedy				Suggestea	Remedy				
	ge "for 100GBASI BASE-FR1, and 1	E-DR, 00GBASE-LR1." to "for the I	PHY under test	"				r 100GBASE-FR1 and ceed the value specifie		R1 the transmitter -6 for the PHY under test".
Proposed	Response	Response Status W			Response		Res	sponse Status C		
PROF	POSED ACCEPT	IN PRINCIPLE.			ACCE	PT IN PRINCI	PLE.			
		t from the 2nd item in the list OGBASE-FR1, and 100GBAS				sponse to I-8				
C/ 140	SC 140.7.10	P52	L35	# 1-81	[Editor	's note added	after the	comment was closed:		
Dawe, Pie	ers J G	Mellanox Tec	hnologies		For ref	erence, the re	sponse	o comment i-81 is cop	ied here:	
Comment	Туре Т	Comment Status A	0	measurement method	ACCE	PT IN PRINCI	PIF			
		the stressed receiver confor eak-to-peak power (if applica		nal obeys the rules for	Implen	nent the chan	jes capt	ured in slide 9 of		
Suggestee	dRemedy							/public/Sept20/lewis_3 ns, with editorial licens		20.pdf, swapping the
	nother item to the n 151.8.13.2.	list saying so.					•	lent changes to 151.8.		
Response)	Response Status C]					
ACCE	PT IN PRINCIPL	E.			C/ 140	SC 140.8.		P 52	L 38	# <u> -</u> 17
Imple	ment the changes	captured in slide 9 of			Grow, Rob	ert		RMG Consul	ting	
https:/	//www.ieee802.or	g/3/cu/public/Sept20/lewis_3 ceptions, with editorial licens		0.pdf, swapping the	<i>Comment</i> This su	<i>Type</i> T ubclause has		omment Status A	-	bucket (updated 0922)
See c	omment I-90 for e	equivalent changes to 151.8.	13.		Suggestea Delete	Remedy the heading.?	,			
					Response ACCE	PT IN PRINCI		sponse Status C		
					Delete	the heading.				
						-				

C/ 140 SC 140.8.1

C/ 140 SC 140.9	P 54	L 21	# I-62	C/ 140	SC 140.10	.1 <i>P</i> 55	L 20	# 1-82
Sommers, Scott	Molex Incorpo	orated		Dawe, Pie	rs J G	Mellano	x Technologies	
Comment Type T In the note b for Table 140 1317.5 to 1300-1320. Rea	Comment Status R -11, change note b," b Ov son: To enable uncooled	ver the wavele DFB laser ap	<i>channel characteristics</i> ngth range 1304.5 to plication for industrial	<i>Comment</i> Tidy u	p	Comment Status D		misc (updated 0922)
temperature operation.				Suggested Make		idth. Also Table 151-14.		
SuggestedRemedy				Proposed		Response Status W	,	
1300 to 1320				•	OSED REJEC	,		
Response F REJECT.	Response Status C			T 1				
Resolve using the respons	e to comment i-60					ments for tables to be full of tables that are not full w		
[Editor's note: For reference		nent i-60 is co	pied here:		ot clear that the vement to the t	e making "Table 140-13" a he draft.	nd "Table 151-14" f	ull width, would be an
REJECT.				C/ 140	SC 140.10	a P 56	L 45	# 1-35
The Task Force reviewed				Lewis, Da	vid	Lumenti	um Inc.	
https://www.ieee802.org/3/				Comment	Туре Т	Comment Status A		interop
https://www.ieee802.org/3/	cu/public/Sept20/welch_3	3cu_01b_0922	220.pdf.			en PMDs is not a requiren might want to interoperate		
A straw poll was taken: Do you support changing t	he "Wavelength (range)"	for 100CBAS	E-ER1 and 100GBASE	Suggested	Remedy	-		
LR1 from "1304.5 to 1317. Yes: 6 No: 27 Abstain: 11				for inte Tables	eroperation." to	40.10a, 140.10a.1, 140.10 "Informative guidance for 40-16 from "Channel inse ".	interoperation.". C	hange the captions for
There is no consensus to r	make the proposed chanc			Response		Response Status C		
]	hake the proposed chang	<i>j</i> c.		ACCE	PT IN PRINCI	PLE.		
C/ 140 SC 140.9	P 54	L 23	# I-41	Chang	je the title of 14	40.10a from:		
Lewis, David	Lumentum In	С.			irements for in BASE-LR1"	teroperation between 100	GBASE-DR, 100GE	BASE-FR1 and
Comment Type E	Comment Status A		bucket (updated 0924)	to:				
The use of the word must i requirements, must is used				"Guide LR1"	elines for interc	pperation between 100GB	ASE-DR, 100GBAS	E-FR1 and 100GBASE-
SuggestedRemedy In footnote c, change "syst	em must tolerate" to "svs	tem shall tole	rate"	Remo	ve the word "re	equirements" from the title	es of Table 140-15 a	and Table 140-16.
-	Response Status C							
ACCEPT IN PRINCIPLE.								
In footnote c, change "syst	em must tolerate" to "sys	tem is require	d to tolerate"					
COMMENT STATUS: D/dispat			ed T/technical E/editorial G/g				7 140 C 140 10a	Page 21 of 28 9/29/2020_6:39:3

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

SC 140.10a

C/ 151	SC 151.1	P 63	L 40	# I-42	C/ 151	SC 151.5.4	P 68	L10	# 1-57	
Lewis, Da	vid	Lumentum Ind	C .		Huber, The	omas	Nokia			
Comment	Type E	Comment Status A		bucket (updated 0924)	Comment		Comment Status D	0	al Detect (updated 0922	
require	ements, must is	ust is deprecated and cannot used only to describe unavoid			paragr	aphs below the	Table 151-4 and the final para table) are both providing addi able. It would be better to cor	itional informatio	n on how to interpret	
Suggested	•	must to shall			above	the table.				
	tnote a, change i				Suggestea	lRemedy				
Response ACCE	PT IN PRINCIP	Response Status C LE.				last paragraph a	above Table 151-4 to read a s the third sentence), and de			
In foot	tnote a, change '	"must behave" to "behaves".					Ulbarra alabal Sudbartan af Aba			
C/ 151	SC 151.3.2	P 65	L 36	# I-38		The value	Ill be a global indicator of the	presence of opt	ical signals on all four	
Lewis, Da	vid	Lumentum Ind	C.		of the SIGNAL_DETECT parameter shall be generated according to the conditions defined in Table 151-4. Various implementations of the Signal Detect function are permitted by this standard,					
Comment	Type E	Comment Status A		bucket (updated 0924)						
		ust is deprecated and cannot used only to describe unavoid			includi	ng	enerate the SIGNAL DETEC	•		
•	,	used only to describe unavoid		15.		ude of the	enerate the SIGNAL_DETEC	si parameter va	ides in response to the	
Suggested		within limits" to "shall be kept	within limite"			•	al signal and implementation	is that respond t	o the average optical	
0		•	within minus .		power modula		al. The PMD receiver is not r	equired to verifv	whether a compliant	
Response	PT IN PRINCIP	Response Status C			400GE	BASE-R signal is	being received. This			
ACCE		LC.				•	esponse time requirements c	on the generation	n of the	
Chang	ge "must be kept	within limits" to "are kept with	in limits"		Proposed	,	Response Status W			
C/ 151	SC 151.4	P 66	L 51	# 1-46	PROP	OSED REJECT				
Lewis, Da	vid	Lumentum Ind	D.		This is	consistent with	what has been done in previo	ous PMD clause	es.	
Comment	Type E	Comment Status A		bucket (updated 0924)	lt is no	t clear that the	suggested remedy represents	a improvement	to the clarity of the	
	se of will is depre only used in stat	ecated and cannot be used wh tements of fact	nen stating m	andatory requirements,			isolation to similar text in othe			
Suggested	dRemedy									
	le "these test poi lly accessible"	nts will not typically be access	sible" to "thes	e test points are not						
Response ACCE		Response Status C								

C/ 151 SC 151.5.4

C/ 151	SC 151.5.4	P68	L 22	# 1-83	C/ 151	SC 151.7.1	P 71	L15	# 1-95
Dawe, Pie		Mellanox Tec		<i>π</i> [-05	Rodes, R		II-VI		π [1-35
<i>Comment</i> There	<i>Type</i> T is no average re	Comment Status A ceive power, each lane (min) here's one for each.	0	<i>bucket</i> for 400GBASE-FR4 and	Comment FR4 a OMA	<i>Type</i> T and LR4-6 spec c range.	<i>Comment Status</i> A on 'Average launch power, ea		
Either "and" <i>Response</i>	to "or" and modif	Response Status C	LR4-6" (as Tabl	e 140-4) or change	not A Even maxin This f We re than s	OP. FR1 and LR1 sp num AOP spec. lexibility in AOP commend increa spec 'Outer Optic	y constrain since receivers ov ec, with the same Rx technol- will be especially important to asing spec 'Average launch p al Modulation Amplitude (OM	ogy and no Rx de achieve uncoole ower, each lane lAouter), each lar	emux loss, have higher ed operation. (max)' to 0.7 dB higher ne (max)'
This c		he text "for 400GBASE-FR4 i e draft consistent with what w P 68			4dB a Suggeste	nd higher. <i>dRemedy</i> ge spec on 'Aver	effective maximum OMA per l age launch power, each lane		
Lewis, Da	avid	Lumentum In	с.		Same	changes to Ave	rage receive power, each lane	e (max).	
requir S <i>uggeste</i> e	ise of the word m rements, must is i dRemedy	Comment Status R ust is deprecated and cannot used only to describe unavoid ons must " to "implementation	lable situations.	bucket (updated 0924) stating mandatory	In Tal - Cha 5.1dB	EPT IN PRINCIPI ble 151-7: nge "Average lau m for 400GBASI	ınch power, each lane (max)" E-LR4-6.		
actua	ECT. sentence uses "m	Response Status C ust" properly to describe an u ce (it actually begins, "as an u ")			11.1d In Tal - Cha 5.1dB - Cha	Bm for 400GBAS ole 151-8: nge "Average rec m for 400GBASI	ceive power, each lane (max)'	" to 4.4dBm for 4	00GBASE-FR4 and to

C/ 151 SC 151.7.1

IEEE P802.3cu D3.0 100	Gb/s per w	avelength on SMF	Initial Sponsor	ballot comments
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C/ 151	SC 151.7.1	P 71	L 23	# I-84	C/ 151	SC 151.8.4	l .	P 79	L11	# I-85
Dawe, Pier	rs J G	Mellanox Tech	nologies		Dawe, Pier	s J G		Mellanox Teo	chnologies	
	51	Comment Status A power between any two land or 4.1 dB.	es is limited to 4	<i>Tx specifications</i> dB here, while the	•	rom the first to	Comment vo sentences, th		o 122.8.4.	measurement method
Suggested					Suggestedl				. .	
	2	n the limit e.g to 3 dB. Adjus	t the receive tab	le in step.		e all but the fi	rst two sentence	,	.8.4.	
Response	Ū	Response Status C			Response		Response S	Status C		
•		•			ACCER	PT IN PRINCI	PLE.			
	outer) (max)" in Ta	 "Difference in launch powe able 151-7 exceeds what ma 				www.ieee802	jes captured in s org/3/cu/public/S		3cu_01a_09152	20.pdf, with editorial
eachia	ane.				C/ 151	SC 151.8.5	5	P 79	L 36	# 1-86
The task force reviewed and discussed the presentation https://www.ieee802.org/3/cu/public/Sept20/lewis 3cu 01a 091520.pdf.					Dawe, Pier	s J G		Mellanox Teo	chnologies	
nttps://	www.ieee802.org	//3/cu/public/Sept20/lewis_30	u_01a_091520.	par.	Comment 7	vpe T	Comment	Status A	U	measurement method
Maka t	the following chan	0005				71				
	-	-					n of established and 121.8.5.3 tl			adictory: says specified in
- Table (OMAo - Table	e 151-7. Change t outer) (max)" for 4 e 151-8. Change t	nges. he "Difference in launch pow .00GBASE-FR4 from 4dB to he "OMAouter of each aggre	3.9dB		121.8.5 Suggestedl	5.1, 121.8.5.2,	and 121.8.5.3 tl			adictory: says specified in
- Table (OMAo - Table	e 151-7. Change t outer) (max)" for 4	he "Difference in launch pow 00GBASE-FR4 from 4dB to	3.9dB		121.8.5 Suggestedl	5.1, 121.8.5.2, Remedy	and 121.8.5.3 tl	nen repeats it a		adictory: says specified in
- Table (OMAo - Table 1.5dBn	e 151-7. Change t outer) (max)" for 4 e 151-8. Change t	he "Difference in launch pow 00GBASE-FR4 from 4dB to	3.9dB		121.8.5 Suggestedi Remov Response	5.1, 121.8.5.2, Remedy	and 121.8.5.3 th e material. <i>Response</i> \$	nen repeats it a		adictory: says specified in
- Table (OMAo - Table	e 151-7. Change to buter) (max)" for 4 e 151-8. Change to n to 1.4dBm. SC 151.7.3	he "Difference in launch pow 00GBASE-FR4 from 4dB to he "OMAouter of each aggre	3.9dB ssor lane" for 40	0GBASE-FR4 from	121.8.5 Suggestedi Remov Response ACCEF	5.1, 121.8.5.2, Remedy e the duplicat PT IN PRINCI	and 121.8.5.3 tl e material. <i>Response</i> S PLE.	nen repeats it a Status C		adictory: says specified in
- Table (OMAo - Table 1.5dBn <i>Cl</i> 151	e 151-7. Change to buter) (max)" for 4 e 151-8. Change to n to 1.4dBm. SC 151.7.3 chael	he "Difference in launch pow 00GBASE-FR4 from 4dB to he "OMAouter of each aggre P 75	3.9dB ssor lane" for 40	0GBASE-FR4 from	121.8.5 Suggestedi Remov Response ACCEF Implem	5.1, 121.8.5.2, Remedy e the duplicat PT IN PRINCI ent the chang	and 121.8.5.3 tl e material. <i>Response</i> S PLE. ges captured in s	nen repeats it a Status C Ilide 14 of	all below.	adictory: says specified in 20.pdf, with editorial
- Table (OMAo - Table 1.5dBn C/ 151 Dudek, Mic Comment T	e 151-7. Change t buter) (max)" for 4 e 151-8. Change t n to 1.4dBm. SC 151.7.3 chael <i>Type</i> E	he "Difference in launch pow 00GBASE-FR4 from 4dB to he "OMAouter of each aggre <i>P</i> 75 Marvell	3.9dB ssor lane" for 4(<i>L</i> 21	00GBASE-FR4 from # [<u>I-30</u> <i>bucket</i>	121.8.5 Suggestedi Remov Response ACCEF Implem	5.1, 121.8.5.2, Remedy e the duplicat PT IN PRINCI ent the chang www.ieee802.	and 121.8.5.3 tl e material. <i>Response</i> S PLE. ges captured in s	nen repeats it a Status C Ilide 14 of	all below.	
- Table (OMAo - Table 1.5dBm C/ 151 Dudek, Mic Comment 7 Footno	e 151-7. Change to buter) (max)" for 4 e 151-8. Change to n to 1.4dBm. SC 151.7.3 chael <i>Type</i> E botes "a" and "b" or	he "Difference in launch pow 00GBASE-FR4 from 4dB to he "OMAouter of each aggre P 75 Marvell Comment Status A	3.9dB ssor lane" for 4(<i>L</i> 21	00GBASE-FR4 from # [<u>I-30</u> <i>bucket</i>	121.8.5 Suggestedi Remov Response ACCEF Implem https://	5.1, 121.8.5.2, Remedy e the duplicat PT IN PRINCI ent the chang www.ieee802.	and 121.8.5.3 tl e material. <i>Response</i> S PLE. ges captured in s	nen repeats it a Status C Ilide 14 of	all below.	
- Table (OMAo - Table 1.5dBm Cl 151 Dudek, Mic Comment T Footno them. Suggested. Make a channe	e 151-7. Change to buter) (max)" for 4 e 151-8. Change to n to 1.4dBm. SC 151.7.3 chael Type E otes "a" and "b" or <i>IRemedy</i> a single footnote r el insertion loss is per attenuation of	he "Difference in launch pow 00GBASE-FR4 from 4dB to he "OMAouter of each aggre P 75 Marvell Comment Status A	3.9dB ssor lane" for 40 <i>L</i> 21 Phy. It would be er column. Foo um distance spe	00GBASE-FR4 from # [-30 bucket better to combine tnote to say "The cified in Table 151-6	121.8.5 Suggestedi Remov Response ACCEF Implem https://	5.1, 121.8.5.2, Remedy e the duplicat PT IN PRINCI ent the chang www.ieee802.	and 121.8.5.3 tl e material. <i>Response</i> S PLE. ges captured in s	nen repeats it a Status C Ilide 14 of	all below.	
- Table (OMAo - Table 1.5dBm Cl 151 Dudek, Mic Comment T Footno them. Suggested Make a channe and fib	e 151-7. Change to buter) (max)" for 4 e 151-8. Change to n to 1.4dBm. SC 151.7.3 chael Type E otes "a" and "b" or <i>IRemedy</i> a single footnote r el insertion loss is per attenuation of	he "Difference in launch pow 00GBASE-FR4 from 4dB to he "OMAouter of each aggre P75 Marvell <i>Comment Status</i> A hly differ by the name of the l referenced from the parameter calculated using the maxim	3.9dB ssor lane" for 40 <i>L</i> 21 Phy. It would be er column. Foo um distance spe	00GBASE-FR4 from # [-30 bucket better to combine tnote to say "The cified in Table 151-6	121.8.5 Suggestedi Remov Response ACCEF Implem https://	5.1, 121.8.5.2, Remedy e the duplicat PT IN PRINCI ent the chang www.ieee802.	and 121.8.5.3 tl e material. <i>Response</i> S PLE. ges captured in s	nen repeats it a Status C Ilide 14 of	all below.	

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/ 151 SC 151.8.5 Page 24 of 28 9/29/2020 6:39:37 PM

2/ 151 SC 151.8.5	P 79	L 40	# I-31	C/ 151	SC 151.8.9	P 82	L 26	# <mark>I-88</mark>	
oudek, Michael	Marvell			Dawe, Piers	s J G	Mellanox Tec	hnologies		
receiver for that PHY. ggestedRemedy	Comment Status D			the sam derived	subclauses in <i>f</i> ie order as in th	Comment Status D 51.8 the same order as in 14 e Tx and Rx tables. But, bec measured waveform, more t	ause we now h	nave several specs	
	a reference receiver" to "equi	valent to that o	t the reference receiver"	Suggested	Remedy				
The concept of "referen	Response Status W with other PMD subclauses, en nce receiver" is not clear from the wording across multiple P	this text. A fu	ture maintenance	TDECC TDECC TECQ TDEC Transm Transm Averag In the E 151.8.5 151.8.6 151.8.7 151.8.8 151.8.9 151.8.1 <i>Proposed R</i> PROPC	- 10log10(Ceq Q - TECQ if it itter over/under itter peak-to-pe itter transition t e launch power efinition of opti Transmitter an Transmitter ey Transmitter ov Transmitter pe Transmitter tra 0 Extinction ration esponse DSED REJECT.	remains -shoot ak power me of OFF transmitter *OR* Exti cal parameters and measure d dispersion eye closure for F e closure for PAM4 (TECQ) er/under-shoot ak-to-peak power nsition time o <i>Response Status</i> W	nent methods, PAM4 (TDECQ)	ĩe
				C/ 151	SC 151.8.9	P 82	L 26	# <u>1-</u> 87	
				Dawe, Piers <i>Comment T</i> Too mu	ype T	Mellanox Tec <i>Comment Status</i> A of over/under-shoot method.	hnologies	measurement n	nethod
				SuggestedF Delete		l say it is analogous to 140.7	5b.		
				Response ACCEP	T IN PRINCIPL	Response Status C E.			
						s captured in slide 3 of g/3/cu/public/Sept20/lewis_3	cu_01_092220	.pdf, with editorial	
	d ER/editorial required GR/ patched A/accepted R/reje			0	U/unsatisfied 2	C/ 15 Z/withdrawn SC 15		Page 25 o 9/29/2020	

			# I-93	C/ 151	SC 151.8.10	P 83	L11	# I-89
Rodes, Roberto	II-VI			Dawe, Pie	rs J G	Mellanox Teo	chnologies	
	Comment Status A ec Transmitter peak-to-pea	ak over fiber. Pea			ombination of the I	Comment Status A oss in a long channel and t at TP3 has to be at least ~		
fiber will always be lower SuggestedRemedy Replace text: Transmitter peak-to-peal test (see 151.8.5) and th the reference equalizer b With: Transmitter peak-to-peal test (see 151.8.6), but wi being applied in each cas Response ACCEPT IN PRINCIPLE In 151.8.10: Change the 1st sentenc "Transmitter peak-to-pea TDECQ test (see 151.8.4) without the reference equ to: "Transmitter peak-to-pea test (see 151.8.6), but wi In 140.7.5c: Change the 1st sentenc "Transmitter peak-to-pea test (see 151.8.6), but wi In 140.7.5c: Change the 1st sentenc "Transmitter peak-to-pea TDECQ test (see 140.7.4) but without the reference to: "Transmitter peak-to-pea	than back to back. It creat composed by the power is measured using e waveform captured for the being applied in each case. composed by the power is measured using thout the reference equalizes. <i>Response Status</i> C	the waveforms of the waveforms of the waveform control the waveform control the waveforms red for the TECC ch case." g the waveforms red for the TECC each case." g the waveforms red for the TECC each case."	captured for the TDECQ te 151.8.6), but without aptured for the TECQ captured for the TECQ captured for the Captured for the TECQ ." captured for the TECQ ." captured for the Captured for the TECQ	the per Suggested For 40 and su For 40 and su It may TP3. Response ACCE Resolv [Edito In 151 Chang "Trans TDEC withou to: "Trans test (su In 140 Chang "Trans TDEC but wit to: "Trans	ak-to-peak power <i>Remedy</i> OGBASE-FR4, ad btracting 0.5 dB. OGBASE-LR4, ad btracting 1.5 dB. be easier to creat PT IN PRINCIPLE re using the responn r's note: For reference a.10: the the 1st sentence mitter peak-to-pea Q test (see 140.7. hout the reference mitter peak-to-pea Mathematical Actions Mathematical Action	at TP3 has to be at least ~ just the measured result by just the measured result by e separate entries and limi <i>Response Status</i> C	0.6 dB or ~1.8 of the adding the the adding the ts for peak-to-p ment i-93 is cop m: g the waveform red for the TEC ch case." g the waveform red for the TEC ch case." g the waveform red for the TEC g the waveform red for the TEC each case."	dB less than at TP2. e loss of the test channel e loss of the test channel neak power at TP2 and at bied here: s captured for the CQ test (see 151.8.6), but captured for the TECQ ed." s captured for the CQ test (see 140.7.5a), s captured for the TECQ

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/ 151 SC 151.8.10

C/ 151 SC 151.	8.13	P 83	L 43	# <u>I-90</u>	C/ 151	SC 151.11.2	.1	P88	L 29	# I-32
Dawe, Piers J G		Mellanox Tech	nnologies		Dudek, Mich	ael		Marvell		
	tion of stressed	ent Status A receiver sensitivity 8, if not what ddiffe		measurement method re wastes the reader's		1.3dB addition	nal insertion	nt Status A loss allowed in the used for addition		channel characteristic (table 151-9). It would oss.
SuggestedRemedy					SuggestedRe	emedy				
Define 151's SRS	by reference to	121 and 122, in th	e style of 140.7	7.10.						say. "The additional
Response	Respon	se Status C			insertion 3.3dB."	can also be a	illocated to c	connection loss re	esulting in a total	connection loss of
ACCEPT IN PRIN	CIPLE.				Response		Respons	e Status C		
Implement the cha	anges captured	in slide 16 of			ACCEPT	IN PRINCIPI	.E.			
https://www.ieee8/ of the last two exc C/ 151 SC 151.	eptions, with ec		cu_01_091520.	pdf swapping the order # [-45	allocated https://w	to fiber, conr ww.ieee802.o	nectors or sp rg/3/cu/publi	lices, as capture c/Sept20/nicholl_	1 in 3cu_02_092920	ertion loss can be .pdf, with the exception
Lewis, David		Lumentum Inc	C .		of replac	ing the refere	nce to "Table	e 151-13" with "1	51.11", and with	editorial license.
	0				<u> </u>					
Comment Type E	Comm	ent Status A		bucket (updated 0924)	C/ 151	SC 151.12		P 89	L 34	# I-36
The use of will is c	leprecated and	cannot be used wh	nen stating mar	<i>bucket (updated 0924)</i> ndatory requirements,	C/ 151 Lewis, David			P 89 Lumentum In		# I-36
The use of will is o will is only used in	leprecated and	cannot be used wh	nen stating mar	() /			Comme			
The use of will is o will is only used in	deprecated and statements of	cannot be used wh fact	nen stating mar	() /	Lewis, David Comment Ty Interoper	pe T ation betweer	n PMDs is no	Lumentum In nt Status A	c. This information	intero
The use of will is o will is only used in SuggestedRemedy	deprecated and statements of et" to "are met"	cannot be used wh fact	nen stating mar	() /	Lewis, David Comment Ty Interoper	pe T ation betweer those who m	n PMDs is no	Lumentum In <i>nt Status</i> A ot a requirement.	c. This information	intero
The use of will is of will is only used in SuggestedRemedy Change "will be m	deprecated and statements of et" to "are met"	cannot be used wh fact	nen stating mar	() /	Lewis, David Comment Ty, Interoper to advise SuggestedRe In the he	pe T ation betweer those who m emedy	PMDs is no ight want to 12 change "	Lumentum In <i>nt Status</i> A ot a requirement. interoperate betw	c. This information /een different PN	intero
The use of will is of will is only used in SuggestedRemedy Change "will be m Response ACCEPT.	deprecated and statements of et" to "are met" <i>Respon</i>	cannot be used wh fact se Status C	L 42	() /	Lewis, David Comment Ty, Interoper to advise SuggestedRe In the he interoper	pe T ation betweer those who m <i>emedy</i> ading for 151. ation (informa	n PMDs is no ight want to 12 change " tive).".	Lumentum In <i>nt Status</i> A ot a requirement. interoperate betw Requirements for	c. This information veen different PN	<i>intero</i> n should be informative /IDs.
The use of will is o will is only used in SuggestedRemedy Change "will be m Response ACCEPT. C/ 151 SC 151. Lewis, David	deprecated and statements of et" to "are met" <i>Respon</i>	cannot be used wh fact se Status C P 87 Lumentum Inc	L 42	# [<u>-39</u>	Lewis, David Comment Ty, Interoper to advise SuggestedRe In the he interoper Remove	pe T ation betweer those who m <i>emedy</i> ading for 151. ation (informa	n PMDs is no ight want to 12 change " itive).". uirements" f	Lumentum In <i>nt Status</i> A ot a requirement. interoperate betw Requirements for rom Table 151-16	c. This information veen different PN	intero n should be informative /IDs.
The use of will is of will is only used in SuggestedRemedy Change "will be m Response ACCEPT. Cl 151 SC 151. Lewis, David Comment Type E The use of the wo	deprecated and statements of et" to "are met" <i>Respon</i> 10 <i>Comm</i> rd must is depr	cannot be used wh fact se Status C P87 Lumentum Inc ent Status A ecated and cannot	L 42 C. be used when	# [- <u>39</u> <i>bucket (updated 0928)</i>	Lewis, David Comment Ty, Interoper to advise SuggestedRe In the he interoper Remove Response	pe T ation betweer those who m <i>emedy</i> ading for 151. ation (informa	n PMDs is no ight want to 12 change " tive).". uirements" f <i>Respons</i>	Lumentum In <i>nt Status</i> A ot a requirement. interoperate betw Requirements for	c. This information veen different PN	interc n should be informative I/Ds.
The use of will is of will is only used in SuggestedRemedy Change "will be m Response ACCEPT. Cl 151 SC 151. Lewis, David Comment Type E The use of the wo requirements, mus SuggestedRemedy	deprecated and statements of et" to "are met" <i>Respon</i> 10 10 <i>Comm</i> rd must is deprest is used only t	cannot be used wh fact se Status C P87 Lumentum Inc ent Status A ecated and cannot o describe unavoid	L 42 C. be used when	# [- <u>39</u> <i>bucket (updated 0928)</i>	Lewis, David Comment Ty, Interoper to advise SuggestedRe In the he interoper Remove Response ACCEPT Change t "Require	pe T ation between those who m emedy ading for 151, ation (informa the word "req "IN PRINCIPI the title of 151	n PMDs is no ight want to 12 change " tive).". uirements" f <i>Respons</i> _E. .12 from:	Lumentum In <i>nt Status</i> A ot a requirement. interoperate betw Requirements for rom Table 151-16	c. This information veen different PN interoperation."	intero n should be informative MDs. to "Guidelines for
The use of will is of will is only used in SuggestedRemedy Change "will be m Response ACCEPT. Cl 151 SC 151. Lewis, David Comment Type E The use of the wo requirements, must	deprecated and statements of et" to "are met" <i>Respon</i> 10 10 <i>Comm</i> rd must is deprest is used only t	cannot be used wh fact se Status C P87 Lumentum Inc ent Status A ecated and cannot o describe unavoid	L 42 C. be used when	# [- <u>39</u> <i>bucket (updated 0928)</i>	Lewis, David Comment Ty, Interoper to advise SuggestedRe In the he interoper Remove Response ACCEPT Change f "Require to:	pe T ation betweer those who m <i>emedy</i> ading for 151. ation (informa the word "req IN PRINCIPI the title of 151 ments for inte	n PMDs is no ight want to 12 change " tive).". uirements" f <i>Respons</i> _E. .12 from: roperation b	Lumentum In <i>nt Status</i> A ot a requirement. interoperate betw Requirements for rom Table 151-10 <i>e Status</i> C etween 400GBAS	c. This information veen different PM interoperation." 5 title.	intercons should be informative MDs. to "Guidelines for
The use of will is of will is only used in SuggestedRemedy Change "will be m Response ACCEPT. Cl 151 SC 151. Lewis, David Comment Type E The use of the wo requirements, mus SuggestedRemedy	deprecated and statements of et" to "are met" <i>Respon</i> 10 10 <i>Comm</i> rd must is deprest is used only to age must to sha <i>Respon</i>	cannot be used wh fact se Status C P87 Lumentum Inc ent Status A ecated and cannot o describe unavoid	L 42 C. be used when	# [- <u>39</u> <i>bucket (updated 0928)</i>	Lewis, David Comment Ty, Interoper to advise SuggestedRe In the he interoper Remove Response ACCEPT Change t "Require to: "Guidelin	pe T ation between those who m <i>emedy</i> ading for 151 ation (informative the word "req "IN PRINCIPI the title of 151 ments for interep	n PMDs is no ight want to 12 change " itive).". uirements" f <i>Respons</i> _E. .12 from: roperation betw	Lumentum In <i>nt Status</i> A ot a requirement. interoperate betw Requirements for rom Table 151-16 <i>e Status</i> C	c. This information veen different PM interoperation." S title. SE-LR4-6 and 400G	intero n should be informative MDs. to "Guidelines for 00GBASE-FR4"

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C/ 151	SC	151.13.4.2	P 93	L15	# I-33
Dudek, Mic	chael		Marvell		
Comment 7 The va		E mment is wr	Comment Status A		PICs (updated 0922)
Suggestedi Change		,	ansmit fault"		
Response ACCEF	PT IN F	PRINCIPLE.	Response Status C		
"Sets F to:	PMD_ti	ransmit_faul	ent for PICS item M6 from: t to one if a local fault is de t to one if a local fault is de	etected"	transmit lane"
C/ 151	SC	151.13.4.2	P 93	L 18	# 1-34
Dudek, Mic	chael		Marvell		
Comment 7 The va		E mment is wr	Comment Status A		PICs (updated 0922)
Suggested Change		<i>ly</i> I fault" to "re	eceive fault"		
Response ACCEF	PT IN I	PRINCIPLE.	Response Status C		

C/ 151 SC 151.13.4.2