C/ FM SC FM P12 L20 # [-1	C/ FM SC FM P12 L22 # [-3
Lewis, Jon Dell EMC	Lewis, Jon Dell EMC
Comment Type E Comment Status D bucket IEEE Std 802.3ch has been published.	Comment Type E Comment Status D buck Amendment number is missing
SuggestedRemedy Change "IEEE Std 802.3ch™-20xx" to "IEEE Std 802.3ch™-2020"	SuggestedRemedy Add "Amendment 8" where "" is an em-dash
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
C/ FM SC FM P12 L38 # [-2	IEEE Std 802.3ch <sup>™</sup> -2020 has been assigned Amendment 8.
Lewis, Jon     Dell EMC       Comment Type     E     Comment Status     D     bucket       IEEE Std 802.3cr is currently ahead of P802.3cu in the publication order but is missing from the list of ammendments.     Image: Comment Status     Image: Comment Status	Changing the beginning of the description of IEEE Std 802.3ch™-2020 from: "This amendment includes changes to …" to: "Amendment 8—This amendment includes changes to"
SuggestedRemedy	
Add "IEEE Std 802.3cr™-20xx	C/ FM SC FM P12 L28 # [-4
This amendment includes changes to IEEE Std 802.3-2018 and adds Annex J. This	Lewis, Jon Dell EMC
amendment	
replaces references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology	Comment Type E Comment Status D buck Amendment number is missing
replaces references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology equipment—Safety—Part 1: General requirements") with appropriate references to the IEC	Comment Type E Comment Status D buck
replaces references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology	Comment Type E Comment Status D buck Amendment number is missing
replaces references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology equipment—Safety—Part 1: General requirements") with appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and makes appropriate	Comment Type E Comment Status D buck Amendment number is missing SuggestedRemedy
replaces references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology equipment—Safety—Part 1: General requirements") with appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and makes appropriate changes to the standard corresponding to the new references."	Comment Type       E       Comment Status       D       buck         Amendment number is missing       SuggestedRemedy       Add "Amendment 9" where "" is an em-dash       D       D       D
replaces references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology equipment—Safety—Part 1: General requirements") with appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and makes appropriate changes to the standard corresponding to the new references."	Comment Type       E       Comment Status       D       buck         Amendment number is missing       SuggestedRemedy       Add "Amendment 9" where "" is an em-dash       Proposed Response       Response Status       W
replaces references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology equipment—Safety—Part 1: General requirements") with appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and makes appropriate changes to the standard corresponding to the new references." <i>Proposed Response</i> Response Status <b>W</b>	Comment Type       E       Comment Status       D       buck         Amendment number is missing       SuggestedRemedy       Add "Amendment 9" where "" is an em-dash       buck         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.       IEEE Std 802.3ca <sup>™</sup> -2020 has been assigned Amendment 9.         Changing the beginning of the description of IEEE Std 802.3ca <sup>™</sup> -2020
replaces references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology equipment—Safety—Part 1: General requirements") with appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and makes appropriate changes to the standard corresponding to the new references." <i>Proposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Comment Type       E       Comment Status       D       buck         Amendment number is missing       SuggestedRemedy       Add "Amendment 9" where "" is an em-dash       buck         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.       IEEE Std 802.3ca <sup>™</sup> -2020 has been assigned Amendment 9.

C/ 00 SC 0	P <b>12</b>	L <b>20</b>	# <u>I-5</u>	C/FM SCF	М	P <b>1</b>	L <b>30</b>	# <u>1-8</u>
Maguire, Valerie	The Siemon C	Company		Grow, Robert		RMG Consulti	ng	
Comment Type E 802.3ch has publishe SuggestedRemedy	Comment Status <b>D</b>		bucket		<b>E</b> 3ch-2020	Comment Status <b>D</b> 0 is now published. P802.3cr	has been assiç	<i>bucket</i> gned amendment
	Response Status W T IN PRINCIPLE.	nsert "Amendm	ent 8—" before "This	20xx" to the en Proposed Respons PROPOSED A	Std 802 ad of the se CCEPT		ne "and".	
C/ 00 SC 0	P <b>12</b>	L <b>28</b>	# I-6	C/ FM SC F	М	P3	L <b>5</b>	# 1-9
Maguire, Valerie	The Siemon C	Company		Grow, Robert	-	RMG Consulti	ng	h sector (
Comment Type E Missing some templa	Comment Status D		bucket	<i>,</i> ,	E ist of ter	Comment Status <b>D</b> rms, "Energy-Efficient Etherne	et" should be hy	phenated.
SuggestedRemedy Insert "Amendment 9 Proposed Response PROPOSED ACCEP	──" before "This amendment… <i>Response Status</i> W	".		SuggestedRemedy "Energy-Efficie Proposed Respons PROPOSED A	ent Ether Se	net". Also fix on p. 63, lines Response Status W	38 and 47.	
C/ FM SC FM Grow, Robert	P <b>1</b> RMG Consulti	L <b>10</b>	# [-7	C/ FM SC F Grow, Robert		P <b>1</b> RMG Consulti	L <b>31</b> ng	# [ <u>I-10</u>
Comment Type E	Comment Status D	0	bucket	51	E	Comment Status <b>D</b> n for Physical Layer, it is the a	acronym for Ph	bucket
SuggestedRemedy	ssigned this project an amendn	nent number.		SuggestedRemedy Delete "(PHY)"	/			,
Amendment 11 Proposed Response PROPOSED ACCEP	Response Status W T IN PRINCIPLE.			Proposed Respons PROPOSED A		Response Status W		
This project has been	n assigned Amendment 11.							
Change: "Draft Standard for Et Amendment:" to: "Draft Standard for Et Amendment 11:"								

C/ FM SC FM P3L1 # I-11 C/ FMSC FM P12 L26 # I-14 **RMG** Consulting Grow, Robert **RMG** Consulting Grow, Robert Comment Type E Comment Status D bucket Comment Type E Comment Status D bucket PHY is not the acronym for Physical Layer, it is the acronym for Physical Layer Device. Until published, the reference year should be incomplete. SugaestedRemedv SugaestedRemedv Delete "(PHY)". Change "2020" to "20xx". Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED REJECT. Based on the email below from David Law, "IEEE Std 802.3ca" has been published, and P12 C/ FM SC FM L20 # I-12 therefore the correct reference is "IEEE Std 802.3ca-2020". RMG Consulting Grow, Robert Comment Type E Comment Status D bucket -----Original Message-----From: Law, David <dlaw@HPE.COM> This amendment is no published. Sent: Thursday, June 25, 2020 8:14 AM SuggestedRemedv To: STDS-802-3-EDITORS@LISTSERV.IEEE.ORG Subject: [802.3 EDITORS] IEEE 802.3 amendment order Change "IEEE Std 802.3ch-20xx" to "IEEE Std 802.3ch-2020". Proposed Response Response Status W Dear all. PROPOSED ACCEPT. I wanted to let you all know that I've update the amendment order in the document <https://docs.google.com/spreadsheets/d/1mcLQWGYugZJB4W6H7jGEH-fbgpc-C/ FM SC FM P12 L22 # I-13 ifl4ia3DhOPvJsY/edit#gid=0> based on current project status as shown below. This is based on conditional approval for IEEE P802.3cu to proceed to Standards Association Grow. Robert **RMG** Consulting ballot, IEEE P802.3cp, IEEE P802.3ct and IEEE P802.3cv entering initial Working Group Comment Type E Comment Status D bucket ballot, and my estimate of where these and other projects are. This amendment has a number Best regards, SuggestedRemedy David Insert "Amendment 8 --" Proposed Response \_\_\_\_ Response Status W PROPOSED ACCEPT. Amendment 8: IEEE Std 802.3ch-2020 Approved Amendment 9: IEEE Std 802.3ca-2020 Approved Amendment 10: IEEE Std 802.3cr-20xx Draft D3.0 Amendment 11: IEEE Std 802.3cu-20xx Draft D2.2 Amendment 12: IEEE Std 802.3cp-20xx Draft D2.0 Amendment 13: IEEE Std 802.3ct-20xx Draft D2.0 Amendment 14: IEEE Std 802.3cv-20xx Draft D2.0 Amendment 15: IEEE Std 802.3cs-20xx Draft D1.0 Amendment 16: IEEE Std 802.3ck-20xx Draft D1 2 Amendment 17: IEEE Std 802.3cw-20xx

C/FM SCFM	P <b>12</b>	L <b>28</b>	# <u>I-</u> 15	C/ 140 S	SC 140.6	P <b>40</b>	L16	# <u>1-</u> 22
Grow, Robert	RMG Consulti	ng		Dudek, Michae		Marvell		
Comment Type E	Comment Status D		bucket	Comment Type	e TR	Comment Status D		Intero
This amendment has	a number.					requirements for interoperat	ion for the output	t power as well as the
SuggestedRemedy						ould be stated here.		
Insert "Amendment 9	".			SuggestedRen	•			
Proposed Response	Response Status W			power requ		irements" to "Channel and 10	JUGBASE-FRI I	ransmitter average
PROPOSED ACCEP	-			Proposed Res		Response Status W		
C/ FM SC FM	P <b>12</b>	L37	# I-16	PROPOSE	ED ACCEPT	IN PRINCIPLE.		
Grow, Robert	RMG Consulti	ng		Change fro				
Comment Type E	Comment Status D		bucket			PMD interoperates with the		PMD provided that the
	erences Annex J2 (151.9.1), IE			channel re	quirements	defined in 140.10a.1 are met		
project in amendment assigned Amendment	number because it adds the A	nnex. And, P80	2.3cr has been			MD interoperates with the 1		MD provided that the
SuggestedRemedy	10.			channelred	quirements d	lefined in 140.10a.2 are met.		
•• •	20xx Amendment 10 This ar	nendment includ	les changes to IEEE	The 100G	BASE-LR1 P	MD interoperates with the 1	00GBASE-FR1 F	PMD provided that the
Std 802.3-2018 and a	dds Annex J. This amendment	replaces referer	nces to the IEC 60950	channel re	quirements o	defined in 140.10a.3 are met	L."	
series of standards (ir	cluding IEC 60950-1 "Informat	ion technology		to:				
	Part 1: General requirements") Iformation and communication							
makes appropriate ch	anges to the standard correspo	onding to the new	v references This			PMD interoperates with the delines in 140.10a.1 are met		PMD provided that the
	changes to IEEE Std 802.3-20 the IEC 60950 series of stand			onarmora	ia power gar		-	
	y equipment—Safety—Part 1:			The 100G	BASE-LR1 P	PMD interoperates with the 1 40.10a.2 are met.	00GBASE-DR P	MD provided that the
	to the IEC 62368 "Audio/vide			channel gu		40. 10a.2 are met.		
corresponding to the r	" series and makes appropriation appropriation appropriation appropriation appropriate appropri	e changes to the	standard			MD interoperates with the 1	00GBASE-FR1 F	PMD provided that the
Proposed Response	Response Status W			channel gu	lidelines in 1	40.10a.3 are met."		
PROPOSED ACCEP								
		1.00	11 1 4 7					
Cl 140 SC 140.8.1 Grow, Robert	P <b>52</b> RMG Consulti	L <b>38</b>	# I-17					
Comment Type T	Comment Status D	ig	bucket					
This subclause has no			DUCKEI					
SuggestedRemedy								
Delete the heading.?								
,	Response Status W							

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: Comment ID

Comment ID 1-22

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Interop

C/ 140 SC 140.6.1	P <b>42</b>	L32	# I-23	C/ 140 SC 140.6.3	P <b>46</b>	L32	# 1-26
Dudek, Michael	Marvell				arvell		
Comment Type E It does not say at what	Comment Status <b>D</b> point the figure and text sho	uld be inserted.	bucket	Comment Type E Comment Star It does not say at what point the figure a		ould be inserted.	bucker
SuggestedRemedy Add "at the end of secti	on 140.6.1"			SuggestedRemedy Add "at the end of section 140.6.3"			
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed Response Response Stat PROPOSED ACCEPT IN PRINCIPLE.	us <b>W</b>		
There are several exam improved.	ples in Clause 140 where th	e editing instruct	ons could be	See response to I-23			
·				C/ 140 SC 140.7.5a	P50	L <b>7</b>	# <u>1-</u> 27
Review all editing instru	ctions in Clause 140 and up	date if necessary	with editorial license.	Dudek, Michael Ma	arvell		
C/ <b>140</b> SC <b>140.6.2</b> Dudek, Michael	P <b>43</b> Marvell	L <b>32</b>	# <u>1-</u> 24	Comment Type <b>T</b> Comment Star There is only one lane for these Phys	tus <b>D</b>		bucke
Comment Type E It does not say at what	Comment Status <b>D</b> point the figure and text shou	uld be inserted.	bucket	SuggestedRemedy Delete "of each lane"			
SuggestedRemedy Add "at the end of secti	on 140.6.2"			Proposed Response Response Stat PROPOSED ACCEPT.	us <b>W</b>		
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.				P <b>52</b> arvell	L <b>23</b>	# 1-28
See response to I-23				Comment Type <b>T</b> Comment Sta			measurement method
Cl 140 SC 140.6.2	P <b>44</b>	L18	# I <u>-</u> 25	The RINx does not have to meet the req tested.		for all of the Phys	
Dudek, Michael	Marvell			SuggestedRemedy			
	Comment Status D ootnote reference "e" on the	receiver sensitiv	<i>bucket</i> ty row. (These aren't	Change "for 100GBASE-DR, 100GBASE-FR1, and 100GBASE-LR1."	to "for the	PHY under test"	
test conditions).				Proposed Response Response Stat	us W		
SuggestedRemedy Delete the footnote refe	rence			PROPOSED ACCEPT IN PRINCIPLE.			
Proposed Response PROPOSED REJECT.	Response Status W			Delete the following text from the 2nd ite "for 100GBASE-DR,100GBASE-FR1, an			

				•	•			
C/ 140 SC 140.7.10	P <b>52</b>	L <b>35</b>	# 1-29	C/ 151	SC 151.11.2.1	I P88	L <b>29</b>	# <mark>1-</mark> 32
Dudek, Michael	Marvell			Dudek, Mi	chael	Marvell		
Comment Type <b>TR</b> The overshoot/undershore than this would ov	Comment Status <b>A</b> oot for the FR1/LR1 transmit ver-stress it.	ters is limited.	measurement method Testing a receiver with		is 1.3dB additiona	Comment Status <b>D</b> al insertion loss allowed it this can be used for ad		
SuggestedRemedy				Suggested	dRemedy			
over/undershoot does r	. "For 100GBASE-FR1 and not exceed the value specifie				on can also be all	e after the example sente located to connection los		
Response ACCEPT IN PRINCIPL	Response Status <b>C</b> F				Response	Response Status W		
				PROP	POSED ACCEPT I	IN PRINCIPLE.		
See response to I-81.	P75	L <b>21</b>	# 1-30			ce of 151.11.21 from: ance for 400GBASE-LR4	4-6 is based on an a	allocation of 2 dB total
Dudek, Michael	Marvell				ction and splice lo	oss."		
	<i>Comment Status</i> <b>D</b> nly differ by the name of the	Phy. It would b	<i>bucket</i> e better to combine		maximum link dista action and splice lo	ance for 400GBASE-LR4 oss.	4-6 is based on an a	allocation of 3.2 dB total
them. SuggestedRemedy					e Table 151-14 as			<b>.</b>
Make a single footnote	referenced from the paramet				ove the value of 0. ve footnote (a)	.47dB/km for the row " ca	abled optical fiber at	tenuation (max)"
	s calculated using the maxim 0.5 dB/km plus an allocatior			C/ 151	SC 151.13.4.2		L15	# 1-33
Proposed Response	Response Status W			Dudek, Mi		Marvell Comment Status D		PIC
PROPOSED ACCEPT.					alue/comment is v			FIC
C/ 151 SC 151.8.5	P <b>79</b>	L <b>40</b>	# I-31	Suggested	Remedy	-		
Dudek, Michael	Marvell			Chang	ge "local fault" to "	transmit fault"		
Comment Type <b>T</b> The bandwidth is not ec receiver for that PHY.	Comment Status <b>D</b> quivalen to any reference rec	eiver. It is the	measurement method specific reference	•	Response POSED REJECT.	Response Status W		
SuggestedRemedy				clear t	hat the suggested	nt with previous PMD cla d remedy represents a in	provement to the c	larity of the draft, and
0	a reference receiver" to "equi	valent to that of	the reference receiver"	makin	g it in isolation to	similar text in other clau	ses may cause con	fusion.
Proposed Response PROPOSED REJECT.	Response Status W			For ta	sk force discussio	on.		
The text is consistent w	ith other PMD subclauses, e	.g., 122.8.5.						
	ce receiver" is not clear from ne wording across multiple P		ure maintenance					
	patched A/accepted R/reject		l T/technical E/editorial G/g NSE STATUS: O/open W/wi		d U/unsatisfied Z		mment ID 1-33	Page 6 of 23 9/15/2020 12:3

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C/ 151	SC 151.13.4.2	P <b>93</b>	L18	# I-34	C/ 151	SC 151.12		P <b>89</b>	L <b>34</b>	<b>#</b> I-36
Dudek, Mic	hael	Marvell			Lewis, Dav	vid		Lumentum In	C.	
Comment 7	Type E	Comment Status D		PICs	Comment	Туре Т	Comment	Status D		intero
The va	lue/comment is w	rong.								n should be informative
Suggested	Remedy						night want to in	iteroperate betv	veen different P	MDs.
Change	e "local fault" to "r	receive fault"			Suggested	-				
Proposed F PROP(	Response DSED REJECT.	Response Status W			interop	peration (inform	ative).".			" to "Guidelines for
Tho we	rding is consistor	nt with previous PMD clause	e and is tochnica	Illy correct. It is not				om Table 151-16	6 title.	
		remedy represents a impro			Proposed I	,		Status W		
		similar text in other clauses			PROP	OSED ACCEP	T IN PRINCIPL	.E.		
	k force discussion				"Requi	e the title of 15 irements for inf		tween 400GBAS	SE-LR4-6 and 4	00GBASE-FR4"
C/ <b>140</b>	SC 140.10a	P <b>56</b>	L <b>45</b>	# I-35	to: "Guide	lines for intero	peration betwe	en 400GBASE-	LR4-6 and 4000	GBASE-FR4"
ewis, Dav	d	Lumentum Inc	C.							
Comment 1	51	Comment Status D		interop	Remov	ve the word "re	quirements" fro	om the title of T	able 151-16.	
		PMDs is not a requirement.		should be informative	01.440				1.40	
to advis	se those who mig	ht want to interoperate betw	een different PM		C/ 140	SC 140.7.5		P <b>49</b>	L <b>42</b>	# 1-37
	•	ht want to interoperate betw	veen different PM		Lewis, Dav	vid		Lumentum In		
S <i>uggestedi</i> In the h	Remedy neadings for 140.	10a, 140.10a.1, 140.10a.2 a	und 140.10a.3 cha	Ds. ange "Requirements	Lewis, Dav	rid Type <b>T</b>	Comment	Lumentum In	с.	measurement metho
Suggested In the h for inte Tables	Remedy neadings for 140. roperation." to "In 140-15 and 140-	10a, 140.10a.1, 140.10a.2 a formative guidance for inter 16 from "Channel insertion l	nd 140.10a.3 cha operation.". Cha	Ds. ange "Requirements nge the captions for	Lewis, Dav <i>Comment</i> There	rid Type <b>T</b>	<i>Comment</i> ce channels for	Lumentum In	с.	measurement metho
Suggested In the F for inte Tables insertio	Remedy headings for 140. roperation." to "In 140-15 and 140- n loss ranges".	10a, 140.10a.1, 140.10a.2 a formative guidance for inter 16 from "Channel insertion l	nd 140.10a.3 cha operation.". Cha	Ds. ange "Requirements nge the captions for	Lewis, Dav Comment There at the I Suggested	rid <i>Type</i> <b>T</b> are no referend linked locations <i>IRemedy</i>	Comment ce channels for s (121.8.5.2).	Lumentum In Status A TDECQ testing	c. I of 100GBASE	measurement metho FR1 or 100GBASE-LR1
Suggested In the f for inte Tables insertic Proposed F	Remedy headings for 140. roperation." to "In 140-15 and 140- n loss ranges".	10a, 140.10a.1, 140.10a.2 a formative guidance for inter 16 from "Channel insertion I <i>Response Status</i> <b>W</b>	nd 140.10a.3 cha operation.". Cha	Ds. ange "Requirements nge the captions for	Lewis, Dav Comment There at the l Suggested Chang 121.8.5	rid Type <b>T</b> are no referend linked locations <i>IRemedy</i> le text from ".m 5.3" to ".meas	Comment ce channels for s (121.8.5.2). easured using sured using the	Lumentum In Status A TDECQ testing the methods sp methods speci	c. l of 100GBASE ecified in 121.8 fied in 121.8.5.1	measurement metho FR1 or 100GBASE-LR1 .5.1, 121.8.5.2, and , 121.8.5.2 for
Suggested In the h for inte Tables insertic Proposed F PROP( Change "Requit	Remedy neadings for 140. roperation." to "In 140-15 and 140- n loss ranges". Response DSED ACCEPT II the title of 140.1	10a, 140.10a.1, 140.10a.2 a formative guidance for inter 16 from "Channel insertion I <i>Response Status</i> <b>W</b> N PRINCIPLE.	and 140.10a.3 cha operation.". Cha oss requirements	Ds. ange "Requirements nge the captions for s." to "Channel	Lewis, Dav Comment There at the I Suggested Chang 121.8.9 100GB 100GB meet th	rid <i>Type</i> <b>T</b> are no reference linked locations <i>Remedy</i> le text from ".m 5.3" to ".meas 3ASE-DR only, 3ASE-FR1 and he requiremen	Comment ce channels for s (121.8.5.2). easured using sured using the and 121.8.5.3. 100GBASE-LF ts in Table 140	Lumentum In <i>Status</i> <b>A</b> TDECQ testing the methods speci ". Insert a new 1 transmitters -10a. Insert the	c. of 100GBASE- fied in 121.8 fied in 121.8.5.1 paragraph befo are tested using new Table 140	measurement metho FR1 or 100GBASE-LR1 .5.1, 121.8.5.2, and , 121.8.5.2 for
Suggestedi In the h for inte Tables insertio Proposed F PROPO Change "Requii 100GB to:	Remedy neadings for 140. roperation." to "In 140-15 and 140- n loss ranges". Response DSED ACCEPT II to the title of 140.1 rements for intero ASE-LR1"	10a, 140.10a.1, 140.10a.2 a formative guidance for inter 16 from "Channel insertion I <i>Response Status</i> <b>W</b> N PRINCIPLE. 0a from:	and 140.10a.3 cha operation.". Cha oss requirements SE-DR, 100GBAS	Ds. ange "Requirements nge the captions for ." to "Channel SE-FR1 and	Lewis, Dav Comment There at the I Suggested Chang 121.8.4 100GB 100GB 100GB as Tab 400GB minimu	rid Type <b>T</b> are no reference linked locations <i>Remedy</i> le text from ".m 5.3" to ".meas BASE-DR only, BASE-FR1 and he requirement ole 151-12 but BASE-LR4-6 re	Comment ce channels for s (121.8.5.2). easured using the and 121.8.5.3. 100GBASE-LF is in Table 140. with PMD types placed by 1000 um dispersion of	Lumentum In Status <b>A</b> TDECQ testing the methods speci ". Insert a new 41 transmitters -10a. Insert the 400GBASE-FF BASE-LR1. C	c. of 100GBASE- ecified in 121.8 paragraph befo are tested using new Table 140 R4 replaced by ' hange the coeff	measurement metho FR1 or 100GBASE-LR1 .5.1, 121.8.5.2, and . 121.8.5.2 for ore 140.7.5.1: " optical channels that -10a in the same format
Suggestedi In the h for inte Tables insertic Proposed F PROP( Change "Requil 1000g to: "Guidel LR1"	Remedy neadings for 140. roperation." to "In 140-15 and 140- n loss ranges". Response DSED ACCEPT II the the title of 140.1 rements for interoper ASE-LR1"	10a, 140.10a.1, 140.10a.2 a formative guidance for inter 16 from "Channel insertion I <i>Response Status</i> <b>W</b> N PRINCIPLE. 0a from: peration between 100GBASE-I ation between 100GBASE-I	ond 140.10a.3 cha operation.". Cha oss requirements SE-DR, 100GBASE-F	Ds. ange "Requirements nge the captions for " to "Channel E-FR1 and FR1 and 100GBASE-	Lewis, Dav Comment There at the I Suggested Chang 121.8.4 100GB 100GB 100GB as Tab 400GB minimu	rid Type <b>T</b> are no reference linked locations <i>Remedy</i> le text from ".m 5.3" to ".meas 3ASE-DR only, 3ASE-FR1 and he requiremen ole 151-12 but 3ASE-LR4-6 re um and maxim tes with editori	Comment ce channels for s (121.8.5.2). easured using the and 121.8.5.3. 100GBASE-LF is in Table 140. with PMD types placed by 1000 um dispersion of	Lumentum In <i>Status</i> <b>A</b> TDECQ testing the methods speci ". Insert a new 1 transmitters 10a. Insert the 400GBASE-FF BBASE-LR1. C of 100GBASE-L	c. of 100GBASE- ecified in 121.8 paragraph befo are tested using new Table 140 R4 replaced by ' hange the coeff	measurement metho FR1 or 100GBASE-LR1 .5.1, 121.8.5.2, and , 121.8.5.2 for ore 140.7.5.1: " optical channels that -10a in the same format 100GBASE-FR1 and icient values for
Suggestedi In the h for inte Tables insertic Proposed F PROP( Change "Requil 1000g to: "Guidel LR1"	Remedy neadings for 140. roperation." to "In 140-15 and 140- n loss ranges". Response DSED ACCEPT II the the title of 140.1 rements for interoper ASE-LR1"	10a, 140.10a.1, 140.10a.2 a formative guidance for inter 16 from "Channel insertion I <i>Response Status</i> <b>W</b> N PRINCIPLE. 0a from: peration between 100GBAS	ond 140.10a.3 cha operation.". Cha oss requirements SE-DR, 100GBASE-F	Ds. ange "Requirements nge the captions for " to "Channel E-FR1 and FR1 and 100GBASE-	Lewis, Dav Comment There at the I Suggested Chang 121.8.5 100GB 100GB meet th as Tab 400GB minimu footnot	rid Type <b>T</b> are no reference linked locations <i>Remedy</i> le text from ".m 5.3" to ".meas 3ASE-DR only, 3ASE-FR1 and he requiremen ole 151-12 but 3ASE-LR4-6 re um and maxim tes with editori	Comment ce channels for s (121.8.5.2). easured using the and 121.8.5.3. 100GBASE-LF ts in Table 140- with PMD types placed by 1000 um dispersion al license. Response	Lumentum In <i>Status</i> <b>A</b> TDECQ testing the methods speci ". Insert a new 1 transmitters 10a. Insert the 400GBASE-FF BBASE-LR1. C of 100GBASE-L	c. of 100GBASE- ecified in 121.8 paragraph befo are tested using new Table 140 R4 replaced by ' hange the coeff	measurement metho FR1 or 100GBASE-LR1 .5.1, 121.8.5.2, and , 121.8.5.2 for ore 140.7.5.1: " optical channels that -10a in the same format 100GBASE-FR1 and icient values for

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: Comment ID

C/ 151	SC 151.3.2	P65	L <b>36</b>	# I-38	C/ 140 SC 140.9	P <b>54</b>	L23	# I <u>-</u> 41
Lewis, David	d	Lumentum Inc			Lewis, David	Lumentum Ir	nc.	
Comment T	ype E	Comment Status D		bucket	Comment Type E	Comment Status D		buck
		ust is deprecated and cannot used only to describe unavoid		stating mandatory		must is deprecated and canno s used only to describe unavo		0,
SuggestedF	Remedy				SuggestedRemedy			
change	"must be kept v	within limits" to "shall be kept	within limits".		In footnote c, change	e "system must tolerate" to "sy	stem shall tolera	ite"
Proposed R PROPC	esponse SED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEF	Response Status W		
C/ 151	SC 151.10	P87	L <b>42</b>	# 1-39	C/ 151 SC 151.1	P63	L <b>40</b>	# 1-42
Lewis, David	d	Lumentum Inc			Lewis, David	Lumentum Ir	nc.	
Comment T	ype E	Comment Status D		bucket	Comment Type E	Comment Status D		buck
		ust is deprecated and cannot used only to describe unavoid		stating mandatory		must is deprecated and canno s used only to describe unavo		0,
	ments, must is u	•		stating mandatory		•		0,
requirer SuggestedF	ments, must is u	used only to describe unavoid		stating mandatory	requirements, must i	s used only to describe unavo		0,
requirer SuggestedF In footn Proposed R	nents, must is u R <i>emedy</i> ote c, change m	used only to describe unavoid nust to shall. <i>Response Status</i> <b>W</b>		stating mandatory	requirements, must i SuggestedRemedy	s used only to describe unavo e must to shall. <i>Response Status</i> <b>W</b>		0,
requirer SuggestedF In footn Proposed R PROPC	nents, must is u Remedy ote c, change m Pesponse	used only to describe unavoid nust to shall. <i>Response Status</i> <b>W</b>		stating mandatory # [-40	requirements, must i SuggestedRemedy In footnote a, change Proposed Response	s used only to describe unavo e must to shall. <i>Response Status</i> <b>W</b>		0,
requirer SuggestedF In footn Proposed R PROPC Cl 151	nents, must is u Remedy ote c, change m Pesponse DSED ACCEPT. SC <b>151.5.4</b>	used only to describe unavoid nust to shall. <i>Response Status</i> <b>W</b>	able situations.		requirements, must i SuggestedRemedy In footnote a, change Proposed Response PROPOSED ACCEF	s used only to describe unavo e must to shall. <i>Response Status</i> <b>W</b> PT.	idable situations.	
requirer SuggestedF In footn Proposed R	nents, must is u Remedy ote c, change m esponse OSED ACCEPT. SC <b>151.5.4</b>	used only to describe unavoid nust to shall. <i>Response Status</i> <b>W</b> P <b>68</b>	able situations.		requirements, must i SuggestedRemedy In footnote a, change Proposed Response PROPOSED ACCEF Cl 140 SC 140.1	s used only to describe unavo e must to shall. <i>Response Status</i> <b>W</b> PT. P <b>37</b>	idable situations.	
requirer SuggestedF In footn Proposed R PROPC Cl 151 Lewis, David Comment T The use	nents, must is u Remedy ote c, change m esponse OSED ACCEPT. SC 151.5.4 d ype E e of the word mu	used only to describe unavoid nust to shall. <i>Response Status</i> <b>W</b> <i>P</i> <b>68</b> Lumentum Inc	able situations. <i>L</i> 30 be used when s	# <u> -40</u> bucket	requirements, must i SuggestedRemedy In footnote a, change Proposed Response PROPOSED ACCEF Cl 140 SC 140.1 Lewis, David Comment Type E The use of the word	s used only to describe unavo e must to shall. <i>Response Status</i> <b>W</b> PT. P <b>37</b> Lumentum Ir	<i>L</i> 34 <i>L</i> 34 hc.	# [ <u>I-43</u> bucketstating mandatory
requirer SuggestedF In footn Proposed R PROPC Cl 151 Lewis, David Comment T The use	nents, must is u Remedy ote c, change m esponse OSED ACCEPT. SC <b>151.5.4</b> d ype <b>E</b> e of the word mu nents, must is u	used only to describe unavoid nust to shall. <i>Response Status</i> <b>W</b> <i>P</i> 68 Lumentum Inc <i>Comment Status</i> <b>D</b> ust is deprecated and cannot	able situations. <i>L</i> 30 be used when s	# <u> -40</u> bucket	requirements, must i SuggestedRemedy In footnote a, change Proposed Response PROPOSED ACCEF Cl 140 SC 140.1 Lewis, David Comment Type E The use of the word	s used only to describe unavo e must to shall. <i>Response Status</i> <b>W</b> PT. <i>P</i> <b>37</b> Lumentum Ir <i>Comment Status</i> <b>D</b> must is deprecated and canno	<i>L</i> 34 <i>L</i> 34 hc.	# [ <u>I-43</u> bucketstating mandatory
requirer SuggestedF In footn Proposed R PROPC Cl 151 Lewis, David Comment T The use requirer SuggestedF	nents, must is u Remedy ote c, change m DSED ACCEPT. SC <b>151.5.4</b> d bype <b>E</b> of the word mu nents, must is u Remedy	used only to describe unavoid nust to shall. <i>Response Status</i> <b>W</b> <i>P</i> 68 Lumentum Inc <i>Comment Status</i> <b>D</b> ust is deprecated and cannot	able situations. <i>L</i> 30 be used when s able situations.	# <u> -40</u> bucket	requirements, must i SuggestedRemedy In footnote a, change Proposed Response PROPOSED ACCEF Cl 140 SC 140.1 Lewis, David Comment Type E The use of the word requirements, must i	s used only to describe unavo e must to shall. <i>Response Status</i> <b>W</b> PT. <i>P</i> <b>37</b> Lumentum Ir <i>Comment Status</i> <b>D</b> must is deprecated and canno s used only to describe unavo	<i>L</i> 34 <i>L</i> 34 hc.	# [ <u>I-43</u> bucketstating mandatory
requirer SuggestedF In footn Proposed R PROPC Cl 151 Lewis, David Comment T The use requirer SuggestedF	nents, must is u Remedy ote c, change m response OSED ACCEPT. SC 151.5.4 d ype E e of the word mu nents, must is u Remedy "implementation	used only to describe unavoid nust to shall. <i>Response Status</i> <b>W</b> <i>P</i> 68 Lumentum Inc <i>Comment Status</i> <b>D</b> ust is deprecated and cannot used only to describe unavoid	able situations. <i>L</i> 30 be used when s able situations.	# <u> -40</u> bucket	requirements, must i SuggestedRemedy In footnote a, change Proposed Response PROPOSED ACCEF Cl 140 SC 140.1 Lewis, David Comment Type E The use of the word requirements, must i SuggestedRemedy	s used only to describe unavo e must to shall. <i>Response Status</i> <b>W</b> PT. <i>P</i> <b>37</b> Lumentum Ir <i>Comment Status</i> <b>D</b> must is deprecated and canno s used only to describe unavo	<i>L</i> 34 <i>L</i> 34 hc.	# [ <u>I-43</u> bucketstating mandatory

C/ 140 SC 140.6	1 P <b>42</b>	L <b>28</b>	# <u>1-</u> 44	C/ <b>140</b>	SC	140.7.5	P <b>49</b>	L37	# I <u>-</u> 47
₋ewis, David	Lumentum In	c.		Maki, Jeffe	ery		Juniper Netw	vorks, Inc.	
Comment Type E	Comment Status D		bucket	Comment	Туре	TR	Comment Status A		measurement method
	must is deprecated and cannot is used only to describe unavoid		tating mandatory	includii	ng a ta		or external-subclause additi ng "Transmitter compliance R1.		
In footnote b, chang	e must to shall.			Suggested	Remed	dy			
Proposed Response PROPOSED ACCE	Response Status W				orovidin	ig "Transm	external-subclause additio itter compliance channel sp		
C/ 151 SC 151.9	<b>4</b> P86	L <b>22</b>	# I-45	Response ACCEI		PRINCIPLI	Response Status <b>C</b> E.		
₋ewis, David	Lumentum In	с.		_					
Comment Type E	Comment Status D		bucket	See re	sponse	e to I-37			
The use of will is de will is only used in s	precated and cannot be used w tatements of fact	hen stating man	datory requirements,	C/ 140		140.6.2	P <b>45</b>	L15	# 1-48
SuggestedRemedy				Zhang, Bo			Inphi Corpor	ation	
Change "will be me	" to "are met"			Comment		E	Comment Status D		Rx specification
Proposed Response	Response Status W			Y axis sensitiv		d as OMA	_outer (dBm) whereas the F	-igure and the s	sub-section is on RX
PROPOSED ACCE	PT.			Suggested	Remed	dy			
C/ 151 SC 151.4	P <b>66</b>	L <b>51</b>	# I-46	Sugge	st char	nge the Y a	axis to Receiver Sensitivity.		
₋ewis, David	Lumentum In	c.		This pr	ropose	d change a	also applies to page 51 (Fig	140-5), and pa	ge 74 (Fig 151-4).
Comment Type E	Comment Status D		bucket	Proposed I	Respor	nse	Response Status W		
The use of will is de will is only used in s	precated and cannot be used w tatements of fact	hen stating man	datory requirements,	PROP	OSED	ACCEPT	IN PRINCIPLE.		
SuggestedRemedy							n the y-axis is listed in Tabl		
change "these test typically accessible	points will not typically be acces	sible" to "these t	est points are not	,	, (	,	it is sensitivity measured in		it in average power dBm.
Proposed Response	Response Status W			Chang	e axis	title to: Re	ceiver sensitivity(OMAouter	r) (max) (dBm)	
PROPOSED ACCE	,								

0.46	00.445	<b>D</b>		11 1.46	0/			<b>Da</b> <i>i</i>	. –	<i>u</i> <b>b</b> = :
C/ 140	SC 140.7.5	P <b>49</b>	L <b>44</b>	# <u>I-49</u>	CI 78		78.7.4	P <b>24</b>	L <b>7</b>	# <u>I-51</u>
Zhang, Bo		Inphi Corpora	ition		Ran, Adee		_	Intel		
Comment 7		Comment Status D	Leith die Cellereit	bucket	Comment	• •	E	Comment Status D		editing instruction
	•	ith and incomplete phrase,	with the following	ig exceptions:	Accord	ling to	the style i	manual (18.2.2):		
Suggested	•		in whene of the	and of this name would be				when text or tables are bein		efore, strikethrough (for
		ception if any or remove th tter and dispersion eye clos			and	ns) an	a underso	ore (for insertions) should be	Indicated	
Proposed F	Response	Response Status W			"Insert	shall I	be used to	add new text, equations, tal	oles, or figures	n the standard".
PROPO	OSED REJECT.				Here a	in exist	ing table	is being modified, not a new	one inserted.	
This dr	aft is amending C	lause 140.			Also ir	the fo	llowing pla	aces, page/subclause/Line:		
The ed	iting instruction or	n p49, line 39 is changing tl	he first paragrap	h of 140.7.5.	25 80. 26 80.					
	-				32 116		3			
		e" editing instruction, delete by underlining and unchang			33 116	6.4 38				
		ically imported from the Cla			Suggested		-			
The list	t of exceptions fol	lowing the first paragraph o	f 140 7 5 are no	t being changed and	•			to "change" and underline th	ie new text. Ap	bly in all listed places.
		ed to import them from Clau		t being enanged, and	Proposed	•	nse REJECT.	Response Status W		
CI 30	SC 30.5.1.1.2	P <b>19</b>	L12	# <u>1-</u> 50						
Ran, Adee		Intel			For ta	bles, b consist	ringing in ent with th	the entire table and using a ne letter of the style manual,	Change editing	instruction is definitely
Comment 7	Гуре Е	Comment Status D		editing instruction			rge) table		bat le not a ge	a laca for many
Accord	ing to the style main	anual (18.2.2):			The st	برام راید	d in Table	e 78-1, Table 80-1, Table 80-	5 Table 116-2	and Table 116-6 of
		when text or tables are being re (for insertions) should be		efore, strikethrough (for	using a	an Inse	ert editing	instruction and stating where eviously published amendme	the new rows	
	shall be used to a	add new text, equations, tab	oles, or figures ir	n the standard".						
Here a	n existing subclau	ise is being modified, not a	new one inserte	ed.						
Suggestedl	Remedy									
Change	e the instructions	to "change" (3 times) and ι	Inderline the new	v text.						
Proposed F	Response	Response Status W								
PROPO	OSED REJECT.									
		diting instruction in this see e.g. 802.3cd, 802.3cm and		nt with previously						
approp		style manual (18.2.2), "Ins uction in this circumstance, ied.								

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: Comment ID

Comment ID 1-51

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C/ 140	SC 140.1	P38	L1	# I-52	C/ 140	SC 140.6.2	P <b>43</b>	L38	# 1-54
Ran, Adee		Intel			Ran, Adee		Intel		
Comment T		Comment Status D		Editing instruction	Comment Ty		Comment Status D		bucket
Accordi	ng to the style i	manual (18.2.2):			Where a	re the new figu	ure and text inserted?		
		when text or tables are being		fore, strikethrough (for	In the ne	ext page, Table	e 140-7 is changed but there	is no corespondi	ng editorial instruction.
deletion and	s) and undersc	ore (for insertions) should be	indicated"		SuggestedRe	emedy			
	shall be used to	add new text, equations, tab	oles, or figures in	the standard".	Change text. Add	the instruction I "insert" instru	to "change" and include con action for the figure.	ntext to identify th	ne location of the new
	figure is being r to a figure).	repalced and its title is chang	ed (the "change"	instruction can't be	Proposed Re	esponse	Response Status W		
Suggested R	<b>U</b> ,				PROPO	SED ACCEPT	IN PRINCIPLE.		
	•	to "replace" the figure and "c	hange" the title	Remove the underlines	See resp	oonse to I-23			
in the fig			inenige the ther		CL 140	SC 440 6 3	DAC	/ 42	# \ <u>r</u> r
Proposed R	esponse	Response Status W			C/ 140	SC 140.6.3	P <b>46</b>	L <b>43</b>	# 1-55
PROPO	SED REJECT.				Ran, Adee		Intel		husles
In this s	ubclause the	editing instruction is making n	ninor changes to	the text within an	Comment Ty		Comment Status <b>D</b> ures and text inserted?		bucke
111 11115 5									
		replacing the figure with a co				0			
existing	figure, and not	replacing the figure with a co	ompletely new fig	ure.	SuggestedR	emedy		ver it is intended	
existing An editii appropr	figure, and not ng instruction o iate in this case		ompletely new fig	ure. • to be more	SuggestedR	emedy	after Table 140-8" or wherev	er it is intended.	
existing An editi	figure, and not ng instruction o iate in this case	replacing the figure with a co of "change" rather than "replac	ompletely new fig	ure. • to be more	SuggestedRo Add to th	emedy ne instruction "			
existing An editii appropr what ha	figure, and not ng instruction o iate in this case s not).	replacing the figure with a co of "change" rather than "replac	ompletely new fig ce" would appear fy what has chan	ure. • to be more	SuggestedRo Add to th Add the Proposed Ro	emedy ne instruction " numbers of the esponse	after Table 140-8" or wherev e new figures, 140-2c and 14 <i>Response Status</i> <b>W</b>		
existing An editii appropr what ha	figure, and not ng instruction o iate in this case s not).	replacing the figure with a co of "change" rather than "repla e, and helps the reader identi	ompletely new fig ce" would appear fy what has chan	ure. • to be more	SuggestedRo Add to th Add the Proposed Ro	emedy ne instruction " numbers of the esponse	after Table 140-8" or wherev e new figures, 140-2c and 14		
existing An editi appropr what ha This app	figure, and not ng instruction o iate in this case is not). proach is also o	replacing the figure with a co of "change" rather than "repla e, and helps the reader identi consistent with previous pract	ompletely new fig ce" would appear fy what has chan tice.	ure. • to be more ged in the figure (and	SuggestedR Add to th Add the Proposed Re PROPOS	emedy ne instruction " numbers of the esponse	after Table 140-8" or wherev e new figures, 140-2c and 14 <i>Response Status</i> <b>W</b>		
existing An editii appropr what ha This ap	figure, and not ng instruction o iate in this case s not). proach is also o SC <b>140.6.1</b>	replacing the figure with a co of "change" rather than "replace, and helps the reader identi consistent with previous pract	ompletely new fig ce" would appear fy what has chan tice.	ure. • to be more ged in the figure (and	SuggestedR Add to th Add the Proposed Re PROPOS	emedy ne instruction " numbers of the esponse SED ACCEPT	after Table 140-8" or wherev e new figures, 140-2c and 14 <i>Response Status</i> <b>W</b>		# [ <u>-</u> 56
existing An editin appropr what ha This app C/ <b>140</b> Ran, Adee Comment T	figure, and not ng instruction o iate in this case s not). proach is also o SC 140.6.1 ype E	replacing the figure with a co of "change" rather than "replace, and helps the reader identi consistent with previous pract P <b>42</b> Intel	ompletely new fig ce" would appear fy what has chan tice.	ure. to be more ged in the figure (and # <mark>I-53</mark>	SuggestedR Add to th Add the Proposed Re PROPOS See resp	emedy ne instruction " numbers of the esponse SED ACCEPT ponse to I-23	after Table 140-8" or wherev e new figures, 140-2c and 14 <i>Response Status</i> <b>W</b> IN PRINCIPLE.	10-2d.	# [ <u>-56</u>
existing An editin appropr what ha This app C/ <b>140</b> Ran, Adee Comment T	figure, and not ng instruction o iate in this case s not). proach is also o SC 140.6.1 ype E are the new tab	replacing the figure with a co of "change" rather than "replace a, and helps the reader identi consistent with previous pract P42 Intel Comment Status D	ompletely new fig ce" would appear fy what has chan tice.	ure. to be more ged in the figure (and # <mark>I-53</mark>	SuggestedRo Add to th Add the Proposed Ro PROPOS See resp Cl 140	emedy ne instruction " numbers of the esponse SED ACCEPT ponse to I-23 SC 140.7.9	after Table 140-8" or wherev e new figures, 140-2c and 14 <i>Response Status</i> <b>W</b> IN PRINCIPLE. <i>P</i> <b>51</b>	10-2d.	
existing An editin appropr what ha This app C/ <b>140</b> Ran, Adee Comment T Where a SuggestedF	figure, and not ng instruction o iate in this case s not). proach is also o SC 140.6.1 ype E are the new tab Remedy	replacing the figure with a co of "change" rather than "replace a, and helps the reader identi consistent with previous pract P42 Intel Comment Status D	ompletely new fig ce" would appear fy what has chan tice. <i>L</i> 32	ure. to be more ged in the figure (and # <mark>I-53</mark>	SuggestedRe Add to th Add the Proposed Re PROPOS See resp Cl 140 Ran, Adee Comment Ty	emedy ne instruction " numbers of the esponse SED ACCEPT conse to I-23 SC 140.7.9 pe E	after Table 140-8" or wherev e new figures, 140-2c and 14 <i>Response Status</i> <b>W</b> IN PRINCIPLE. <i>P</i> <b>51</b> Intel	l0-2d. L <b>26</b>	bucke
existing An editin appropr what ha This app C/ <b>140</b> Ran, Adee Comment T Where a SuggestedF	figure, and not ng instruction o iate in this case s not). proach is also o SC 140.6.1 ype E are the new tab Remedy the instruction "	replacing the figure with a co of "change" rather than "replace and helps the reader identi consistent with previous pract P42 Intel Comment Status D ole and text inserted?	ompletely new fig ce" would appear fy what has chan tice. <i>L</i> 32	ure. to be more ged in the figure (and # <mark>I-53</mark>	SuggestedRe Add to th Add the Proposed Re PROPOS See resp Cl 140 Ran, Adee Comment Ty	emedy ne instruction " numbers of the esponse SED ACCEPT bonse to I-23 SC 140.7.9 ype E e 140-5 a new 1	after Table 140-8" or wherev e new figures, 140-2c and 14 <i>Response Status</i> <b>W</b> IN PRINCIPLE. <i>P</i> <b>51</b> Intel <i>Comment Status</i> <b>D</b>	l0-2d. L <b>26</b>	bucket
existing An editin appropr what ha This app C/ <b>140</b> Ran, Adee Comment Ty Where a Suggested R Add to t Proposed R	figure, and not ng instruction o iate in this case s not). proach is also o SC 140.6.1 SC 140.6.1 ype E are the new tab Remedy the instruction " response	replacing the figure with a co of "change" rather than "repla- e, and helps the reader identi consistent with previous pract P42 Intel Comment Status D ole and text inserted?	ompletely new fig ce" would appear fy what has chan tice. <i>L</i> 32	ure. to be more ged in the figure (and # <mark>I-53</mark>	SuggestedRe Add to th Add the Proposed Re PROPOS See resp Cl 140 Ran, Adee Comment Ty Is Figure SuggestedRe	emedy ne instruction " numbers of the esponse SED ACCEPT bonse to I-23 SC 140.7.9 ype E enedy	after Table 140-8" or wherev e new figures, 140-2c and 14 <i>Response Status</i> <b>W</b> IN PRINCIPLE. <i>P</i> <b>51</b> Intel <i>Comment Status</i> <b>D</b>	l0-2d. L <b>26</b> change to existin	bucke g figure 140-5?
existing An editin appropr what ha This app C/ <b>140</b> Ran, Adee Comment Ty Where a Suggested R Add to t Proposed R PROPC	figure, and not ng instruction o iate in this case s not). proach is also o SC 140.6.1 SC 140.6.1 ype E are the new tab Remedy the instruction " response	replacing the figure with a co of "change" rather than "repla- e, and helps the reader identi consistent with previous pract P42 Intel Comment Status D ole and text inserted? Pafter Table 140-6" or wherever Response Status W	ompletely new fig ce" would appear fy what has chan tice. <i>L</i> 32	ure. to be more ged in the figure (and # <mark>I-53</mark>	SuggestedR Add to th Add the Proposed Re PROPOS See resp Cl 140 Ran, Adee Comment Ty Is Figure SuggestedRe If no cha Proposed Re	emedy numbers of the esponse SED ACCEPT bonse to I-23 SC 140.7.9 ype E a 140-5 a new emedy unge, separate esponse	after Table 140-8" or wherev e new figures, 140-2c and 14 <i>Response Status</i> <b>W</b> IN PRINCIPLE. <i>P</i> <b>51</b> Intel <i>Comment Status</i> <b>D</b> figure, a replacement, or no o	l0-2d. L <b>26</b> change to existin	bucker g figure 140-5?
existing An editin appropr what ha This app C/ <b>140</b> Ran, Adee Comment Ty Where a Suggested R Add to t Proposed R PROPC	figure, and not ing instruction of iate in this case is not). proach is also of SC 140.6.1 SC 140.6.1 ype E are the new tab Remedy the instruction " response DSED ACCEPT	replacing the figure with a co of "change" rather than "repla- e, and helps the reader identi consistent with previous pract P42 Intel Comment Status D ole and text inserted? Pafter Table 140-6" or wherever Response Status W	ompletely new fig ce" would appear fy what has chan tice. <i>L</i> 32	ure. to be more ged in the figure (and # <mark>I-53</mark>	SuggestedR Add to th Add the Proposed Re PROPOS See resp Cl 140 Ran, Adee Comment Ty Is Figure SuggestedRe If no cha Proposed Re PROPOS	emedy numbers of the esponse SED ACCEPT bonse to I-23 SC 140.7.9 ype E a 140-5 a new emedy unge, separate esponse	after Table 140-8" or wherev e new figures, 140-2c and 14 <i>Response Status</i> <b>W</b> IN PRINCIPLE. <i>P</i> <b>51</b> Intel <i>Comment Status</i> <b>D</b> figure, a replacement, or no of the editorial instruction to tw <i>Response Status</i> <b>W</b>	l0-2d. L <b>26</b> change to existin	bucke g figure 140-5?

					-					
C/ 151	SC 151.5.4	P <b>68</b>	L10	# I <u>-</u> 57	C/ 140	SC	140.6.3	P <b>46</b>	L <b>46</b>	# <mark>I-</mark> 59
Huber, Thoma	as	Nokia			Stassar, P	eter		Huawei Techr	nologies Co. Ltd	
Comment Typ	be E	Comment Status D		Signal Detect	Comment	Туре	Е	Comment Status D		power budg
paragrapl	hs below the t nation in the t	Table 151-4 and the final para table) are both providing addi able. It would be better to cor	tional informatio	n on how to interpret	under Table	stand tł 140-8.	he relation Also appl	rres 140-2c and 140-2d are ir ship between these figures a lies to new Clause 151, subc	nd the illustrativ	
SuggestedRe	emedv				Suggested		-	to be evenended. A presentet	ion with on orific	tout proposale will be
Change t	he paragraph	above Table 151-4 to read a			submi	tted to	the releva	to be expanded. A presentat nt comment resolution meeting		text proposais will be
of the las 151.5.4.	t paragraph a	is the third sentence), and de	ete the last para	igraph in clause	Proposed	Respo	nse	Response Status W		
					PROF	OSED	ACCEPT	IN PRINCIPLE.		
lanes. Th	e value	all be a global indicator of the		J.	Pendi	ng pres	entation a	nd task force discussion.		
in Table 1		CT parameter shall be genera	ited according to	the conditions defined	C/ 140	SC	140.6.1	P <b>41</b>	L <b>32</b>	<b>#</b> I-60
	•	ns of the Signal Detect function	on are permitted	by this standard,	Sommers,	Scott		Molex Incorpo	orated	
including implemer		enerate the SIGNAL DETEC	T parameter va	lues in response to the	Comment	Туре	т	Comment Status D		Tx specification
amplitude	e of the		•					the contents for "Wavelengt		
modulation power of		al signal and implementation	s that respond to	o the average optical			0". Reasor operation.	n: To enable uncooled DFB la	aser application	for industrial
		al. The PMD receiver is not re	equired to verify	whether a compliant	Suggester		•			
		s being received. This esponse time requirements o	n the concretion	of the		to 1320	-			
			In the generation							
Proposed Rea	SED REJECT.	Response Status W			Proposed	•	REJECT.	Response Status W		
PROPOS	SED REJECT.				PROF	OSED	REJECT.			
This is co	onsistent with	what has been done in previo	ous PMD clause	es.				e merit, but the commenter h ny technical data to support tl		
		suggested remedy represents isolation to similar text in othe			chang					
The com	menter may w	vant to request a maintenance	e item for this.		range		clude chan	ed to develop a detailed prop oges to other optical paramte		
C/ FM	SC FM	P <b>12</b>	L <b>20</b>	# I-58	diopol	olon pe	inary).			
Trowbridge, S	Stephen	Nokia								
Comment Typ P802.3ch	be <b>E</b> has been pu	Comment Status D		bucket						
SuggestedRe	emedy									
00	2	.3chTM-20xx to IEEE Std 802	3chTM-2020							
Proposed Rea	sponse	Response Status W								
•	SED ACCEPT									

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

Comment ID 1-60

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C/ 140	SC 140.6.2	P <b>44</b>	L <b>9</b>	# <u>I-61</u>	C/ 140	SC 140.6.1	P <b>41</b>	L3	<b>37</b> # <u>1-63</u>
Sommers, So	cott	Molex Incorpo	rated		Dawe, Pier	rs J G	Mellan	ox Technologies	\$S
"1300 to	, 140-7; change	Comment Status <b>D</b> the contents for "Wavelength n: To enable uncooled DFB h			standa 100GE	BASE-DR and f and says so or r BASE-DR one.	ot). So the 100GBASE	bected to be inte FR1 transmitte special case fo	<i>Tx specifications</i> eroperable (whether this er must not be weaker than the or 0.2 dB that most transmitters
	1320 esponse SED REJECT.	Response Status W			Suggestea Chang 100GE dBm. In 140	Remedy e 100GBASE-I BASE-DR. As a .10a.1, delete '	FR1 average launch po a consequence, change and the 100GBASE-FF	wer (min) from - e average receiv	-3.1 to -2.9, same as for ve power (min) from -7.1 to -6.9 verage power is greater than or
See resp	oonse to comm	ent I-60.							BASE-DR in Table 140-6."
C/ <b>140</b> Sommers, So	SC 140.9 cott	P <b>54</b> Molex Incorpo	L <b>21</b> rated	# 1-62	Proposed PROP	Response OSED REJEC	Response Status Г.	vv	
1317.5 to	, ote b for Table 1	Comment Status <b>D</b> 140-11, change note b," b Ov Reason: To enable uncooled			respor 100GE	ise to commen BASE-FR1 from	t #22 included a decisio -2.9 to -3.1 dBm.	on to change ave	nt #22) against D2.1. The final rerage launch power (min) for
SuggestedRe 1300 to	,					v poll taken du lo:Abstain).	ing the meeting suppor	ted the comme	nt response by 16:2:6
Proposed Re PROPOS	esponse SED REJECT.	Response Status W			The co	ommenter has i	not provided any new da	ata to support re	eversing the task force decision.
See resp	oonse to comm	ent I-60.							

<b>140</b> SC	140.6.1	P <b>41</b>	L <b>51</b>	# 1-64	C/ 140	SC 14	40.6.1	P <b>42</b>	L <b>7</b>	# <u>1-</u> 65
awe, Piers J G		Mellanox Tech	nologies		Dawe, Piers J	G		Mellanox Teo	hnologies	
Comment Type	TR	Comment Status D		Tx specifications	Comment Typ		TR	Comment Status D		Tx specifications
optical PAM	4 clauses, 4	otected from over-emphasise 00ZR and 100GBASE-ZR.( of these (but if you believe th	Over/under-sho	ot and peak-to-peak	100GBAS transmitte SuggestedRe	er mus	st not tra	0GBASE-FR1 are interoper nsmit a worse signal than th	able. So the 10 ie 100GBASE-	00GBASE-FR1 -DR one.
uggestedReme	dy					-		Ceg) for 100GBASE-FR1 to	3.4 dB	
Limit TDECO 100GBASE-		Ceq) and TECQ - 10log10(C IB	eq) for 100GBA	ASE-FR1 and	Proposed Res		υ.	Response Status W	0.4 dD.	
As there's no	ow no need	to generate such bad signals 40-7 Conditions of stressed			PROPOS	ED R	EJECT.			
SECQ - 10lo Remove the	g10(Ceq) (r inserted wo	nax) of 3.4 dB. rding in 140.7.5 and 5th item -FR4 400GBASE-LR4-6.		<b>,</b>	response	was F	Reject wi	usly submitted a similar com ith the following wording:	-	
Proposed Respo PROPOSED		Response Status W			comment	s were	e rejecte	ent to #59, #62, #68, #69, a d by the task force due to a shoot limits.	nd #87 against n earlier decisi	t D2.0. These five on to remove 10logCeq
The comme	nter previous	sly submitted a similar comn h the following wording:	nent #30 agains	st D2.1. The comment	The respo Based on Force cor	onse t the re	o #87 is esults of us was to	included here for reference Straw Poll #1 taken at the 3 o maintain the decision made	8/17 interim cou le at the 802.3	cu TF meeting in Geneva
comments w and replace	ere rejected it with overs	ent to #59, #62, #68, #69, an I by the task force due to an hoot limits.				amor	ng other	og10(Ceq) and to clean up changes to remove "SECQ		
		ncluded here for reference. Straw Poll #1 taken at the 3/	17 interim confe	erence call the Task	Straw Pol		the inclu	usion of TDECQ-10log(Ceq	) narameter 1	support:
Force conse to remove "T	nsus was to DECQ-10Lo nong other o	o maintain the decision made og10(Ceq) and to clean up th changes to remove "SECQ-1	at the 802.3cu ne draft to corre	TF meeting in Geneva ectly reflect this decision	a) Full rer	noval ate foi	from bot	th Tx and Rx tables: 27 and Rx tables: 9	, parameter, r	
specification	5).				The comr	nente	r has no	t provided any new data to	support reversi	ng the task force decision.
a) Full remov	to the inclu val from both for both Tx	ision of TDECQ-10log(Ceq) h Tx and Rx tables: 27 and Rx tables: 9	oarameter, I su	pport:						
The comme	nter has not	provided any new data to su	pport reversing	the task force decision.						

C/ 140	SC 140.6.1	P <b>42</b>	L <b>8</b>	# I <u>-</u> 66	C/ 140	SC 140.	6.1	P <b>42</b>	L14	# <u>1-</u> 67
Dawe, Pie	ers J G	Mellanox Te	chnologies		Dawe, Pie	rs J G		Mellanox Te	chnologies	
Comment	Type TR	Comment Status D		Tx specifications	Comment	Туре ТБ	2	Comment Status D		Tx specifications
expec disper than c reject	t that the minimu rsion after a long one with high pen	Q - TECQ   (max) limits sort- m penalty is at zero dispers link. Also, I would prefer a t alty at each dispersion - at lo cceptable transmitters simpl silly.	ion, it doesn't tell transmitter with lo east it's good sor	us the sensitivity to bw back-to-back penalty newhere. This spec	signals receive Suggestec Chang	s could pass er against u <i>IRemedy</i> je 17 ps to 1	s this ar ltra-slov l6 ps fo	time (max) is probably in nd fail TDECQ. But an ef w signals that are hard to or for 100GBASE-FR1 and	fective spec use receive.	fully protects the
Suggeste	dRemedy					•		FR4 400GBASE-LR4-6.		
		TECQ   (max)" row. E-FR4 400GBASE-LR4-6.			Proposed PROP	Response OSED REJ		Response Status W		
PROF	Response POSED REJECT.	Response Status W	u (soo commont :	#2 against D1 1 which	incom	plete, and h	as not o	demonstrated that the cur demonstrated that changi rould improve the quality o	ng the value of t	
was a	ccepted). The re	sponse to that comment is	pasted below.	rz against D1.1 which				t to develop a detailed pro adding such a requireme		
		includes three changes to og10(Ceq) for 100GBASE-F			C/ 140	SC 140.	6.1	P <b>42</b>	L17	# 1-68
-addir	ng TECQ to the ta	able with values for 100GBA	SE-FR1 and -LR	1;	Dawe, Pie	rs J G		Mellanox Te	chnologies	
		with values for 100GBASE e_01b_0120 the following th		vere taken:	Comment			Comment Status D	onnologico	Tx specifications
Straw I woul 400G	poll #2: ld support removi BASE-FR4 and 4	ng TDECQ-10Log(Ceq) for 00GBASE-LR4-6 as propos	100GBASE-FR1	,100GBASE-LR1,	The tra	ansmitter pe As these P		beak power (max) limits a nay be used back-to-back		above the max OMA
Yes 1 No: 1					Suggested	Remedy				
Straw	poll #3:				Consid	der reducing	these,	, particularly for 100GBAS	E-LR1, by a cou	ple of tenths of a dB.
	00GBASE-LR4-6 24	TECQ (max) for 100GBASI and with the values propos			Proposed PROP	<i>Response</i> OSED REJ		Response Status W		
Straw I woul	poll #4: d support adding	a TDECQ-TECQ specificati nd with the values proposed			The co incom		as not o	demonstrated that the cur	rent specificatior	n is broken or
	with the addition	al changes proposed in slide						ed remedy does not conta ld improve it on the basis		

C/ <b>140</b>	SC 140.6.1	P <b>42</b>	L <b>25</b>	# 1-69	C/ 140	SC 140.6.3	P <b>46</b>	L <b>34</b>	# <u>I-</u> 71
Dawe, Piers	s J G	Mellanox Teo	chnologies		Dawe, Piers	JG	Mellanox Te	echnologies	
Comment T	Туре Т	Comment Status D		Tx specifications	Comment Ty	vpe T	Comment Status D		power budge
signal s the styl grandfa	strength" dates le manual: not athered in. Dep need to say it	unch power (min) is informati back to when OMA was new allowed to mix informative an bending on the exact values, anyway.	and unfamiliar. d normative in a	Part of it is contrary to table, although it's	a The cł 140-5 fo dB/km p b The cł 140-5 fo	nannel insertion or 100GBASE-I olus an allocation nannel insertion or 100GBASE-L	y and accuracy: change: n loss is calculated using th DR and 100GBASE-FR1 ar on for connection and splice n loss is calculated using th .R1 and fiber attenuation of on and splice loss given in 2	nd cabled optical f e loss given in 140 ne maximum dista f 0.43 dB/km at 13	iber attenuation of 0.5 0.10.2.1. nce specified in Table
Change strengt		ge launch power (min) is not	the principal indi	cator of signal	SuggestedR				
Same i	in Table 151-7	(Tx).			To:				
	, OSED ACCEP	Response Status W T IN PRINCIPLE. nange to the footnote for 1000	GBASE-FR1 and	100GBASE-LR1.	using th of 0.5 dI b The cl specified	e maximum dis B/km plus an a nannel insertion d in Table 140-	n losses for 100GBASE-DF stances specified in Table 1 llocation for connection and n loss for 100GBASE-LR1 i 5 and fiber attenuation of 0	40-5 and cabled d splice loss given s calculated using .43 dB/km at 130	optical fiber attenuation i in 140.10.2.1. g the maximum distance
The sa	me change cai	nnot be made for 100GBASE	-DR, which is ou	t of scope.			on and splice loss given in	140.10.2.1.	
Implerr	nent with editor	ial license.			Proposed Re PROPO	esponse SED ACCEPT	Response Status W		
C/ 140	SC 140.6.1	P <b>43</b>	L <b>21</b>	# 1-70					
Dawe, Piers		Mellanox Teo		# 1-70					
Comment 7		Comment Status D	enneregiee	Tx specifications					
l wonde	er if putting the	knee at 1.4 dB is a bit high, t re the dispersion penalty migh		,					
Suggestedl	Remedy								
		knee to 1.2 dB by reducing th r (min) for 100GBASE-LR1 co							
Proposed F	Response	Response Status W							
PROPO	OSED REJECT	- -							
	lete. The comr	not demonstrated that the cur nent is speculative and also v							
	mara tha augo	ested remedy does not conta	in a anacifia prov	accel to modify the droft					

C/ 140 SC 140.7.5a	P <b>50</b>	L <b>8</b>	# 1-72	C/ 140	SC 140.7.5b	P <b>50</b>	L13	# 1-74
Dawe, Piers J G	Mellanox Tech	nologies		Dawe, Pie	rs J G	Mellanox Tec	hnologies	
	Comment Status <b>D</b> easured" in 802.3; it's not a te	est spec. Use	<i>bucket</i> the standard form of	Comment percer	51	Comment Status D		measurement method
and	e shall be within the limits give			oversh	: we don't say T	DECQ decibellage. The % is point another way.	s in the table.	Calling it "relative
	sured measured using the measured neasured measured is not used. The test pattern				OSED ACCEPT	Response Status W IN PRINCIPLE.		
Proposed Response	Response Status W			Delete	the word "perce	entage" from the first sentenc	e of 140.7.5b a	and 151.8.9.
PROPOSED ACCEPT	IN PRINCIPLE.			C/ 140	SC 140.7.5b	P <b>50</b>	L <b>20</b>	# 1-75
Change from:				Dawe, Pie	rs J G	Mellanox Tec	hnologies	
"The TECQ of each lan and 100GBASE-LR1 if	e shall be within the limits giv measured using a test pattern e shall be measured using the e test fiber is not used."	n specified for	TECQ in Table 140-10.	Transr relativ	mithing: change nitter overshoot e to the level 3	Comment Status D :: is defined as the maximum p tter OMAouter according to:	oower from the	parameter definitions transmitter (Pmax)
and 100GBASE-LR1 if except that the test fibe 140-10."	e shall be within the limits giv measured using the methods or is not used. The test patterr in 151.8.6 with editorial licen	specified for specified for	TDECQ in 140.7.5,	power	overshoot is def and relative to t	fined as the maximum power he signal's OMAouter accord ot. Same in 151.8.9 if it rema	ing to:	ignal above the level 3
				Proposed		Response Status W		
37 140 SC 140.7.5b	P <b>50</b>	L <b>10</b>	# I-73	PROP	OSED ACCEPT	IN PRINCIPLE.		
bawe, Piers J G Comment Type <b>T</b> Misleading name: "Trar	Mellanox Tech <i>Comment Status</i> <b>D</b> nsmitter over/under-shoot"	nologies	parameter definitions	"Trans	mitter overshoot	definition in 140.7.5b to: t is defined as the maximum er and relative to the transmit		
SuggestedRemedy Change to "Signal over Also in 151.	/under-shoot" or "Relative ove	er/under-shoo	t" or "Over/under-shoot".	"Trans	mitter undersho	ot definition in 140.7.5b to: ot is defined as the minimum er  and relative to the transmit		
Proposed Response PROPOSED REJECT.	Response Status W			Make	a simlar change	in 151.8.9 with editorial licer	nse.	
The commenter has no	t provided a reason why the r	ame is misle	ading.					
Furthermore the sugge several options.	sted remedy does not contair	a specific pro	oposal, but simply lists					
	patched A/accepted R/reject		ed T/technical E/editorial G/g DNSE STATUS: O/open W/wi		U/unsatisfied		ent ID 1-75	Page 17 of 23 9/15/2020 12:33: <sup>-</sup>

SORT ORDER: Comment ID

C/ 140 SC 140.7.5b P50 L31 # 1-76	Cl 140 SC 140.7.5c P50 L50 # <u>1-78</u>				
Dawe, Piers J G Mellanox Technologies	Dawe, Piers J G Mellanox Technologies				
Comment Type T Comment Status D measurement method	Comment Type T Comment Status D measurement method				
A 1% hit ratio is very lax, much different to the spec SER. This isn't the same situation as a traditional mask hit ratio.	For 100GBASE-LR1, the combination of the loss in a long channel and the over/under- shoot limit means that limiting peak-to-peak power at TP3 may be unnecessary. For 100GBASE-FR1, the loss might be only 0.6 dB.				
SuggestedRemedy					
Determine what correlates to receiver performance. If appropriate, change to 1e-3, with corresponding change to the limit (see rodes_3cu_01a_052620 for measurements on one particular build standard). Use explicit scope noise loading to get consistent results with strong and weak signals. Same in 151.8.9 if it remains.	SuggestedRemedy Consider not requiring compliance to peak-to-peak power for 100GBASE-LR1 at TP3. For 100GBASE-FR1, adjust the measured result by the adding the loss of the test channel and subtracting 0.5 dB. It may be easier to create separate entries and limits for peak-to-peak power for 100GBASE-LR1 at TP2 and at TP3.				
Proposed Response Response Status W	Proposed Response Response Status W				
PROPOSED REJECT.	PROPOSED ACCEPT IN PRINCIPLE.				
The commenter has not demonstrated that the current specification is broken or incomplete	See response to comment I-93.				
and has not demonstrated that changing the hit ratio would improve the quality of the draft.	C/ 140 SC 140.7.5c P50 L52 # 1-79				
Furthermore the commenter has not provided a specific proposal to modify the draft .	Dawe, Piers J G Mellanox Technologies				
The commenter is invited to develop a detailed proposal for hit ratio with evidence that	Comment Type TR Comment Status D parameter definition				
C/     140     SC     140.7.5c     P 50     L 45     # [-77       Dawe, Piers J G     Mellanox Technologies     Mellanox Technologies       Comment Type     T     Comment Status     D     parameter definitions	The positive and negative peaks of an optical signal can be very different. An obvious example is a directly modulated laser, but other transmitters are not symmetric also, and chromatic dispersion can make this worse. An optical receiver copes with positive and negative excursions from the mean and needs protection from both extremes; the positive and negative peaks must be limited separately. <i>SuggestedRemedy</i>				
Misleading name: "Transmitter peak-to-peak power"	Change "Transmitter peak-to-peak power" which is Pmax - Pmin to "Transmitter power				
SuggestedRemedy Change to "Signal peak-to-peak power" or "Peak-to-peak power" (or see another comment). Also in 151. Proposed Response Response Status <b>W</b>	excursion", defined as max(Pmax-Paverage, Paverage-Pmin). Take 3 dB off the limits in Table 140-6. Or, define "effective peak-to-peak power" as 2*max(Pmax-Paverage, Paverage-Pmin). Make similar changes in Clause 151.				
PROPOSED REJECT.	Proposed Response Response Status W				
THO OSED REJECT.	PROPOSED REJECT.				
The commenter has not provided a reason why the name is misleading. Furthermore the suggested remedy does not contain a specific proposal, but simply lists	The commenter has not demonstrated that the current specification is broken or incomplete. The comment is speculative concerning the behavior of transmitters.				
several options.	Furthermore the suggested remedy does not contain a specific proposal to modify the draf				
several options.	in such a way that it would improve it on the basis of evidence provided.				

C/ 140 SC ·	140.7.9	P51	L15	# <u>1-</u> 80	C/ 140	SC	140.10.1	P <b>55</b>	L <b>20</b>	# <u>1-</u> 82
Dawe, Piers J G		Mellanox Tech	nnologies		Dawe, Pie	rs J G		Mellanox Te	chnologies	
		Comment Status <b>A</b> ignal for RS testing is calle use the same name for the			Comment Tidy u	p	E	Comment Status D		mis
SuggestedRemed	ly .		0		Suggested Make		•	n. Also Table 151-14.		
closure (quate Define ECQ "e transmitted sig TP3 (SECQ).	ernary)"; or eye closure gnal at TP2	with base document. Con (quaternary)" for general u (TECQ), dispersed signal	se including wh	en it's not necessarily of	Proposed PROF There	<i>Respor</i> OSED are no	nse REJECT. requireme	Response Status $\mathbf{W}$ onts for tables to be full widt		
Adjust 151 for Response	consistenc	•			lt is no draft.	ot clear	that the su	uggested remedy represent	s an improvemei	nt to the clarity of the
ACCEPT IN P	RINCIPLE	Response Status U			C/ 151	SC	151.5.4	P68	L <b>22</b>	# 1-83
	R receiver	sensitivity is defined based	on SECO and	changing it to TECO for	Dawe, Pie	rs J G		Mellanox Te	chnologies	
		nt change made to 100GB.			Comment		т	Comment Status D	5	buck
100GBASE-LI	R1. e clarity of t	s added at the end of 140. the draft implement the cha 3/cu/public/Sept20/lewis_3	anges captured	in slides 6 and 7 of	400GI <i>Suggested</i> Either	BASE-L <i>IRemec</i> delete to "or" a	R4-6. The ly "for 400GI and modify	eive power, each lane (mir ere's one for each. BASE-FR4 and 400GBASE Table 140-4. <i>Response Status</i> <b>W</b>	,	
					PROF	OSED	ACCEPT	, IN PRINCIPLE.		
C/ <b>140</b> SC <sup>,</sup> Dawe, Piers J G	140.7.10	P <b>52</b> Mellanox Tecl	L <b>35</b> nnologies	# <mark>I-81</mark>	In Tab	le 151-	4 delete th	ne text "for 400GBASE-FR4	and 400GBASE	-LR4-6"
Comment Type	т	Comment Status A		measurement method	This c	hange i	nakes the	draft consistent with what	was done previou	usly in Table 140-4 and
		ne stressed receiver confor ak-to-peak power (if applica		nal obeys the rules for	Table	139-4.				
SuggestedRemed Add another it Also in 151.8.	tem to the li	st saying so.								
Response ACCEPT IN P	RINCIPLE	Response Status C								
https://www.ie	ee802.org/	aptured in slide 9 of 3/cu/public/Sept20/lewis_3/ ptions, with editorial license		).pdf, swapping the						
See comment	l-90 for eq	uivalent changes to 151.8.	13.							
TYPE <sup>.</sup> TR/technic	al required	ER/editorial required GR/	general require	d T/technical E/editorial G/g	eneral			Comr	nent ID <b>I-83</b>	Page 19 of 23

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: Comment ID

Comment ID 1-83

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C/ 151	SC	151.7.1	P <b>71</b>	L <b>23</b>	<b>#</b> I-84	C/ 151	SC	151.8.5	P <b>79</b>	L <b>36</b>	# I <u>-</u> 86
Dawe, Pie	ers J G		Mellanox Tec	hnologies		Dawe, Pie	rs J G		Mellanox Tech	nologies	
Comment	t Type	т	Comment Status A		Tx specifications	Comment	Туре	т	Comment Status A		measurement method
			n power between any two lar 9 or 4.1 dB.	nes is limited to	4 dB here, while the				f established TDECQ method d 121.8.5.3 then repeats it all		adictory: says specified in
Suggeste	edRemea	ły				Suggestee	dReme	dy			
Delet	te the rov	w or tighter	n the limit e.g to 3 dB. Adju	st the receive ta	able in step.	Remo	ve the	duplicate r	naterial.		
Response	е		Response Status C			Response			Response Status C		
ACCI	EPT IN F	PRINCIPLE	Ξ.			ACCE	PT IN I	PRINCIPL	Ε.		
(OMA			e "Difference in launch pow able 151-7 exceeds what ma				/www.ie		captured in slide 14 of g/3/cu/public/Sept20/lewis_3c	u_01a_0915	20.pdf, with editorial
			I and discussed the present			C/ 151	SC	151.8.9	P <b>82</b>	L <b>26</b>	# 1-87
https:	://www.ie	eee802.org	g/3/cu/public/Sept20/lewis_3	cu_01a_09152	0.pdf.	Dawe, Pie	rs J G		Mellanox Tech	nologies	
		owing char	-			<i>Comment</i> Too m		<b>T</b> plication o	Comment Status <b>D</b> f over/under-shoot method.	-	measurement method
(OMA - Tab	Aouter) (r	max)" for 4 . Change t	the "Difference in launch power 100GBASE-FR4 from 4dB to the "OMAouter of each aggre	3.9dB		Suggested Delete			say it is analogous to 140.7.5	ib.	
1.505	5111 10 1.4	tudin.				Proposed	Respoi	nse	Response Status W		
C/ 151	SC	151.8.4	P <b>79</b>	L11	# <u>1-</u> 85	PROF	OSED	ACCEPT	IN PRINCIPLE.		
Dawe, Pie	ers J G		Mellanox Tec	hnologies		Pendi	na pres	entation a	nd task force discussion.		
Comment Apart		<b>T</b> e first two :	Comment Status A sentences, this is identical to	o 122.8.4.	measurement method		51				
Suggeste						Altern	ative R	esponse:			
Remo	ove all bu	ut the first	two sentences; refer to 122.	.8.4.		Maka	oguival	ont ohong	es for both "Transmitter over/u	under cheet"	and "Transmitter peak to
Response ACCI		PRINCIPLE	Response Status <b>C</b> <u>=</u> .			peak j	ower", /www.ie	as capture	ed in slide 15 of g/3/cu/public/Sept20/lewis_3c		
	://www.ie		captured in slide 13 of J/3/cu/public/Sept20/lewis_3	cu_01a_09152	0.pdf, with editorial	15 , to TECQ	captur measu	e the fact	v of lewis_3cu_01a it was note that the current text in 151.8.9 thods in Clause 151, which a 0.7.5b and 140.7.5c]	and 151.8.1	0 reference TDECQ and

C/ 151 SC 151.8.9	P <b>82</b>	L <b>26</b>	# I-88	C/ 151	SC 151.8.10	P83	L11	# 1-89	
Dawe, Piers J G	Mellanox Tec	hnologies		Dawe, Pie	rs J G	Mellanox	Technologies		
Comment Type ER	Comment Status D		misc	Comment	Туре Т	Comment Status D		measurement method	
Put the subclauses ir the same order as in derived from the sam group them all togeth	The combination of the loss in a long channel and the over/under-shoot limit means that the peak-to-peak power at TP3 has to be at least ~0.6 dB or ~1.8 dB less than at TP2. SuggestedRemedy								
TDECQ	SuggestedRemedy In the Tx tables (140-6 and 151-7): TDECQ TDECQ - 10log10(Ceq)			For 400GBASE-FR4, adjust the measured result by the adding the loss of the test chann and subtracting 0.5 dB. For 400GBASE-LR4, adjust the measured result by the adding the loss of the test chann and subtracting 1.5 dB. It may be easier to create separate entries and limits for peak-to-peak power at TP2 and TP3.					
TDECQ - TECQ   if it remains Transmitter over/under-shoot Transmitter peak-to-peak power Transmitter transition time			Proposed PROP	Response POSED REJECT	Response Status W				
Average launch powe In the Definition of op 151.8.5 Transmitter a	I ransmitter transition time Average launch power of OFF transmitter *OR* Extinction ratio In the Definition of optical parameters and measurement methods, e.g.: 151.8.5 Transmitter and dispersion eye closure for PAM4 (TDECQ) 151.8.6 Transmitter eye closure for PAM4 (TECQ)			If the response to I-93 is accepted the Transmitter peak-to-peak limit at TP3 is no longer required. Pending task force discussion.					
151.8.7 Transmitter of 151.8.8 Transmitter p 151.8.8 Transmitter p 151.8.9 Transmitter t	over/under-shoot beak-to-peak power ransition time			<i>Cl</i> <b>151</b> Dawe, Pie	SC 151.8.13	P83	L <b>43</b> Technologies	# <u>I-90</u>	
151.8.10 Extinction ra Proposed Response PROPOSED REJEC	Response Status W				uch duplication	Comment Status A of stressed receiver sens Figure 122-8, if not what o		measurement method gure wastes the reader's	
It is not clear that the suggested remedy represents ar draft.		an improvemen	t to the clarity of the	Suggested Define	-	reference to 121 and 122,	in the style of 140	0.7.10.	
				Response ACCE	PT IN PRINCIP	Response Status <b>C</b> LE.			
				https:/	/www.ieee802.c	es captured in slide 16 of rg/3/cu/public/Sept20/lew ons, with editorial license.	is_3cu_01_09152	0.pdf swapping the order	

C/ 140	SC 140.6.3	P <b>46</b>	L <b>21</b>	# <u>I-</u> 91	C/ 151	SC 151.8.10
Cole, Chri	stopher R	II-VI			Rodes, Robe	erto
Comment	Туре Е	Comment Status D		power budget	Comment Ty	vpe T
100GI	BASE-FR1 and 1	on reference in Table 140-8 00GBASE-LR1 is cumberso	ome to use and in	consistent with		no reason to sp always be lowe
refere units a	nces in other tabl along side the val	cu working group made in 8 es. Also in Table 140-14 in ues within the table, rather ce throughout the rest of the	section 140.10.2 than as a separat	.2 (page 56), having the		-
Simila 151.	r comments agai	nst Table 151-9 (page 75) a	and Table 151-15	(page 89) in Clause		ence equalizer
conju	tion with present	ed during the 802.3cu ad-h ation g/3/cu/public/cu_adhoc/cu_		<b>C</b>	test (see	tter peak-to-pea 9 151.8.6), but w 9plied in each ca
Suggestee	dRemedy				Proposed Re	esponse
151-1	5, and associate	d changes to Table 140-8, d footnotes, as captured in				SED ACCEPT I
•		g/3/cu/public/cu_adhoc/cu_	archive/cole_3cu	_adhoc_081420_v2.pdf.		no reason to sp than the value
•	Response	Response Status W				
PROF	POSED ACCEPT	IN PRINCIPLE.			Replace	the 1st senten
http://		/3/cu/public/cu_adhoc/cu_a e August 14th ad hoc call.	rchive/cole_3cu_	adhoc_081420_v2.pdf		itter peak-to-pea 151.8.6), but w
	-	d changes with editorial lice	ense.		Make a s	similar change i
CI 00	SC 0	P <b>0</b>	L	# 1-92		
Nicholl, G	ary	Cisco Syster	ms, Inc.			
Comment Imple		Comment Status <b>D</b> nplate (Version 4.3)		bucket		
Suggestee	,	nplate (Version 4.3), based	the email from Pe	ete Anslow to the		
	_EDITORS reflec					
•	Response POSED ACCEPT.	Response Status W				

C/ 151	SC 151.8.10	P <b>83</b>	L10	# 1-93
Rodes, Rob	perto	II-VI		
Comment 7	<i>уре</i> <b>т</b>	Comment Status D		measurement method

to spec Transmitter peak-to-peak over fiber. Peak-to-peak power over lower than back to back. It creates confusion for people using the specs.

-peak power is measured using the waveforms captured for the TDECQ nd the waveform captured for the TECQ test (see 151.8.6), but without izer being applied in each case.

-peak power is measured using the waveform captured for the TECQ out without the reference equalizer ch case.

Response Status W PT IN PRINCIPLE.

to specify transmitter peak-to-peak power at TP3 because it will always alue at TP2.

ntence of the 2nd paragraph of 151.8.10 with:

p-peak power is measured using the waveform captured for the TECQ out without the reference equalizer being applied."

nge in clause 140.

C/ 140	SC 140.7.5c	P <b>50</b>	L <b>49</b>	# <u>1-</u> 94
Rodes, Rol	perto	II-VI		
Comment T	Туре Т	Comment Status D		measurement method
		bec Transmitter peak-to-pe r than back to back. It crea		
Suggested	Remedy			
	nitter peak-to-pea	ak power is measured using without the reference equa		
test (se	e 140.7.5) and t	nk power is measured using ne waveform captured for th being applied in each case	ne TECQ test (se	
Proposed F	Response	Response Status W		
PROP	OSED ACCEPT.			
C/ 151	SC 151.7.1	P <b>71</b>	L15	# 1-95
Rodes, Rol	berto	II-VI		
Comment T	Туре <b>Т</b>	Comment Status D		Tx specifications
not AO Even F maximu This fle We rec than sp With th	an unnecessary P. R1 and LR1 spe um AOP spec. exibility in AOP w commend increase pec 'Outer Optica	constrain since receivers o c, with the same Rx techno ill be especially important to ing spec 'Average launch I Modulation Amplitude (ON fective maximum OMA per	logy and no Rx do o achieve uncoole power, each lane /Aouter), each la	emux loss, have higher ed operation. (max)' to 0.7 dB higher ne (max)'
Suggested				
Chang LR4-6	e spec on 'Avera	ge launch power, each lane	e (max)' to 4.4dB t	for FR4 and 5.1dB for
Same	changes to Avera	age receive power, each lar	ie (max).	
Proposed F PROP	Response OSED ACCEPT	Response Status W N PRINCIPLE.		
		d to justify setting average each lane (max).	launch power, ea	ch lane (max) to 0.7 dB

Pending presentation and task force discussion.

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: Comment ID

Comment ID 1-95

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