C/ 1 SC 1		P <b>17</b>	L <b>50</b>	# 94	Cl 157	SC 157.1		P <b>41</b>	L 38	# 98
₋uo, Yuanqiu		Futurewei			Luo, Yuano	ļiu		Futurewei		
Comment Type EF BiDi introduction is removed.	R Comment S is in Cl.157. New def		been added. Thi	s editor note can be	Comment FEC is			nt Status <b>A</b> EC is mandatory	for 25G BiDi.	
SuggestedRemedy Remove Editor's N	Note on Page 17				0	re 157-1, ren	nove FEC block e Note 1 from th		HY. Remove No	ote 1 from the 25G PH
Response ACCEPT.	Response S	tatus C			Response ACCEI	PT.	Response	e Status C		
C/ 45 SC 45.2	2.1.6	P <b>24</b>	L <b>6</b>	# 95	C/ 158	SC 158.6	Table 158-6	P <b>52</b>	L <b>1</b>	# 110
₋uo, Yuanqiu		Futurewei			Nering, Ra	y		Cisco		
Comment Type EF	R Comment S	Status A			Comment	Туре Т	Commer	nt Status A		
	00 is not used by P8 BASE-ZR PMA/PM		ct D1.2 Page 26	uses code point						acto standard already 2020 Table 158-6
SuggestedRemedy					Descri	otion				
Remove Editor's N	Note on Page 26					er Launch P	ower (Max)	-0.6 dBm		
Response	Response S	tatus C			Avera	e Launch Po	wer (Min)	-6.6 dBm		
ACCEPT.	Response o						) OMÀ mínus T			
					OMA (I Tx and	Min) Dispersion F	-3.6 Penalty	dBm 3 dB		
C/ <b>45</b> SC <b>45.2</b> Luo, Yuanqiu	2.1.27a.2	P <b>29</b> Futurewei	L <b>14</b>	# 96	Averag		ower of Off Tx 3 d	-30 dBm		
Comment Type EF					Suggested	Remedv				
Extra empty line b		status A				-	ing_3cp_1_200	1.pdf presented i	n Geneva Jan 2	020
SuggestedRemedy Remove the extra	empty line				Descri	otion Jer Launch P	ower (Max)	5 dBm		
						e Launch Po		-2.7 dBm		
Response ACCEPT.	Response S	tatus C			OMA (	Min) `	) OMA minus T 0.3			
CI 56 SC 56.1	.1	P <b>34</b>	L <b>3</b>	# 97	Averag	Dispersion F le Launch Pc ion ratio	ower of Off Tx 5.5 c	-30 dBm		
Luo, Yuanqiu		Futurewei								
Comment Type EF	R Comment S	Status A			Response		•	e Status C		
Changes have be	en reviewed and cor	nfirmed. Editor	's Note can be r	emoved.		PT IN PRINC this with Cor				
SuggestedRemedy Remove Editor's N	Note				Use nu	mbers agree	d in the March	meeting (Frank re of BR40 from 5 dE		eed numbers)
		-								
Response ACCEPT.	Response S	tatus C								
	D/dispatched A/aco		0 1	I T/technical E/editorial ( NSE STATUS: O/open W	0	Z/withdrawr	ı	Pa <b>52</b> Li <b>1</b>		Page 1 of 7 3/26/2020 7:13

SORT ORDER: Page, Line

C/ <b>158</b> SC <b>6.1</b> Effenberger, Frank	P <b>52</b>										
Effenberger Frank	1 02	L13	# <u>7</u> 8	C/ 158 SC 158.	6, Table 158–7	P 53	L15	# <u>1</u> 11			
	Futurewei Teo	hnologies		Nering, Ray		Cisco					
Comment Type T Co	mment Status D	-		Comment Type T	Comme	ent Status A					
The Tx levels for BR10 are g power). Then BR40 should b dB higher than BR40				Align 10GBASE-B on the market per				acto standard already n 2020 in			
SuggestedRemedy				Table 158-7							
Quantity BR10 BR20 Av power max +0.5 +5.6 Av power min -8.2 +0.6 OMA - TDP min -6.2 +2.6 OMA min -5.2 +3.6 • Note: BR10 and BR40+ are c	-6.4 -1.4 -4.4 +0.6 -3.4 +1.6	Ω are a little off		Description Average Rx Power (Max) -5.6 dBm Average Rx Power (Min) -24.4 dBm Max Rx Power (for damage) 4 dBm Rx Sensitivity (max) in OMA -22.6 dBm Receiver Reflectance -26 dB							
				Stressed Rx Sens	livity (wax in O	WA) -20.3 UDIT					
	roposed Response Response Status Z					SuggestedRemedy					
REJECT.				As described in N	ering_3cp_1_20	01.pdf presented	in Geneva Jan 2	2020			
This comment was WITHDRAWN by the commenter.         C/       158       SC 6.1       P 52       L 24       # 79         Iffenberger, Frank       Futurewei Technologies         Comment Type       T       Comment Status       A				Description Average Rx Powe Average Rx Powe Max Rx Power (fo Rx Sensitivity (ma Receiver Reflecta	r (Min) r damage) x) in OMA nce	-9 dBm -21.2 dBm 4 dBm -19 dBm -26 dB					
The RIN line is repeated				Stressed Rx Sens	itivity (Max in O	MA) -16.8 dBm					
SuggestedRemedy Delete the first line, since it d Response Res	Response       Response Status       C         ACCEPT IN PRINCIPLE.       Group this with Comment #78       Use numbers agreed in the March meeting (Frank recorded the agreed numbers)         In Table 158-10, change min loss of BR40 from 5 dB into 10 dB										

Pa **53** Li **15** 

C/ 158 SC 6.2	P53	L18	# 82	C/ 158 SC 158	.12 P58	L <b>21</b>	# 99
Effenberger, Frank	Futurewei Tech	hnologies		Luo, Yuanqiu	Futurewei		
Comment Type T	Comment Status D			Comment Type T			
Av power max and d	lamage need adjustment to track	Tx changes.		10G BiDi PICS fo	orms are empty		
SuggestedRemedy				SuggestedRemedy			
BR10 BR20 B Av power max 0.5	R40 BR40+ 5.6 -5.4 -5.4			Fill the PICS form	ns in Cl. 158.12		
(for damage) 4.0	6.0 -4.4 -4.4			Response	Response Status C		
	are correct. All the others are adj	justed slightly.		ACCEPT IN PRI	NCIPLE. mple tables in March meeting con	tribution on PICS	3
Proposed Response	Response Status Z						
REJECT.				C/ 159 SC 6	P66	L17	# 84
This comment was V	WITHDRAWN by the commenter	·.		Effenberger, Frank	Futurewei Te	chnologies	
				Comment Type T		م الم مم الم	
CI 158 SC 6.3	P 54	L12	# 83		as it refers to a table that we agree	ed to get rid of	
Effenberger, Frank	Futurewei Tech	hnologies		SuggestedRemedy Remove red text			
Comment Type T	Comment Status A						
	enalties doesn't match what is spe budget needs to be adjusted.	ecified in the T	x table (3.2 versus 3.0).	Response ACCEPT.	Response Status C		
SuggestedRemedy				C/ 159 SC 159	.6 P66	L17	# 100
	0+, make the power budget to be for penalties be 3.0 for all three.	e 18, 21, and 2	6.	Luo, Yuanqiu	Futurewei		
Response	Response Status C			Comment Type T			
ACCEPT.				Sentence "The 2 provided that the	5GBASE-BR40 PMD interoperates	s with the 25GBA	ASE-BR10 PMD
C/ 158 SC 8	P 54	L <b>40</b>	# 80		ined in 159.11 are met." doesn't m	ake sense, as 2	5GBASE-BR10 and
Effenberger, Frank	Futurewei Tech	hnologies		SuggestedRemedy			
Comment Type E	Comment Status A			Remove this sen	tence		
THere is a stray (ma	ximum) in the table			Response	Response Status C		
SuggestedRemedy For the BR40 entry f	or dispersion minimum, delete th	ne (maximum)	n the table.	ACCEPT.			
Response ACCEPT.	Response Status C						

Pa **66** Li **17** 

C/ 159 SC	C 159.6.1	P66	L 51	# 89	C/ 159	SC 6.3	P <b>69</b>	L <b>9</b>	# 85
alkert, Tom comment Type		Molex Comment Status A			Effenberger, <i>Comment Ty</i>	pe T	Futurewei Tec Comment Status A	Ū	
Average lau ER	unch power (r	max) for 25GBASE-BR40 in	Table 159-6 sh	ould match 25GBASE-	THe alloo SuggestedRe		alties doesn't match the TDP	specified.	
SuggestedRem Change fro	nedy m +3dBm to	+6dBm			Change a	-	on for penalties to be 2.7, and espectively.	then adjust the	e power budgets to be
Response ACCEPT. Group this v	with #90. #91	Response Status <b>C</b> , they are about reusing 250	BASE-ER		Response ACCEPT		Response Status C		
		R40 channel insertion loss a			C/ 159	SC 159.11	P <b>71</b>	L <b>49</b>	# 101
C/ 159 SC	C 159.6.3	P68	L14	# 90	Luo, Yuanqiu		Futurewei		
Palkert, Tom Comment Type Damage Th		Molex Comment Status A able 159-7 for 25GBASE-BR	40 should matc	h 25GBASE-ER	different	etween 25GG wavelengths	Comment Status A BBASE-BRx doesn't make ser	se as BR10 an	d BR20/40/40+ are in
SuggestedRem Change fro	<i>edy</i> m -1dBm to -	3dBm				subclause 15			
Response ACCEPT.		Response Status C			Response ACCEPT		Response Status C		
Group this		, they are about reusing 250 R40 channel insertion loss a				SC 159.12	P <b>73</b>	L <b>21</b>	# 102
C/ 159 SC	C 159.6.3	P68	L15	# 91	Luo, Yuanqiu <i>Comment Ty</i> j	be TR	Futurewei Comment Status A		
Palkert, Tom		Molex			25G BiDi	PICS forms	are empty		
Comment Type Average red ER		Comment Status A max) for 25GBASE-BR40 in	Table 159-7 sh	ould match 25GBASE-	SuggestedRe Fill the P	emedy ICS forms in	CI.159.12		
⊐⊐ SuggestedRem	edv				Response		Response Status C		
00	m -2dBm to -	4dBm				IN PRINCIP with #99 on P			
Response		Response Status C			- 1				

Pa **73** Li **21** 

C/ 160	SC 6.1	P81	L <b>22</b>	# 81	C/ 160	SC 160.6.2	P83	2 L <b>40</b>	# <u>1</u> 12
ffenberge	er, Frank	Futurewei Teo	chnologies		Wang, Ruox	ĸu	Huaw	ei Technologies	
Comment T	51	Comment Status A			Comment T		Comment Status		
Editor's	s note is no longe	er true							60-7 by our editor's hard
Suggested Remov	<i>lRemedy</i> ve editor's note				"Averag number	e receive powe s in D1.2, the	new specs are consis	n vs-3.37dBm) in D tent with the origina	1.1 are changed to same al 50GBASE-BRx-D receive
Response ACCEF		Response Status C			Howeve the sam	r, the 50GBAS e solution as 5	E-BR40 is based on a 50GBASE-ER. As we	avalanche photodic all know, the APD i	Rx-U receive characteristics de (APD) receiver,which is s fragile at strong optical
/ 160	SC 160.6.2	P82	L 38	# 92					(max) should be carefully cn 50GBASE-ER/cp.D1.1
	<i>Type</i> <b>T</b> ge Threshold for	Molex Comment Status <b>A</b> 50GBASE-BR40 in Table 16	0-7 should matc	h 50GBASE-ER	Average Therefo with D1.	e receive powe re, the  "Dama 1 50GBASE-B	r (max), which are cor	nsistent with the 25 verage receive pow eristics: -2.4 dBm [	
	<i>lRemedy</i> je from +2.6dBm	to -2 4dBm			SuggestedR	Remedy			
esponse							rage receive power (n	nax)" , row " 50GBA	ASE-BR40 ", change from
ACCE	PT.	Response Status <b>C</b>	sistency with 50	GBASE-ER			nage threshold" , row	50GBASE-BR40	", change from 2.6dBm to -
		, 5	,		-		Response Status	с	
					Response		ricoponico otatao		
					ACCEP		ney are about maintair	ning consistency wi	th 50GBASE-ER
					ACCEP		,		th 50GBASE-ER # <u>93</u>
					ACCEP Group tl	nis with #93, th SC <b>160.6.2</b>	, ney are about maintair	2 <i>L</i> 40	
					ACCEP Group th C/ 160	nis with #93, th SC <b>160.6.2</b> n	, ney are about maintair P <b>8</b> ;	2 <i>L</i> 40	
					ACCEP Group th Cl 160 Palkert, Ton Comment Ty	nis with #93, th SC <b>160.6.2</b> n ype <b>T</b>	hey are about maintair P8: Molex Comment Status	2 <i>L</i> 40	
					ACCEP Group th Cl 160 Palkert, Ton Comment Ty Average	his with #93, th SC <b>160.6.2</b> h ype <b>T</b> e receive powe	hey are about maintair P8: Molex Comment Status	2 <i>L</i> 40	# 93
					ACCEP Group ti Cl 160 Palkert, Ton Comment Ty Average ER SuggestedR	his with #93, th SC <b>160.6.2</b> h ype <b>T</b> e receive powe	ney are about maintair P <b>8</b> : Molex <i>Comment Status</i> r (max) for 50GBASE	2 <i>L</i> 40	# 93
					ACCEP Group ti Cl 160 Palkert, Ton Comment Ty Average ER SuggestedR	his with #93, th SC <b>160.6.2</b> hype <b>T</b> e receive powe Remedy	ney are about maintair P <b>8</b> : Molex <i>Comment Status</i> r (max) for 50GBASE	2 <i>L</i> 40 A -BR40 in Table 160	# 93

 Pa
 82
 Pa

 Li
 40
 3/2

C/ 160	SC 6.2	P83	L <b>20</b>	# 86	C/ 160	SC 160.6.3	P8	3 L45	5 # 10	)5
Effenberge	er, Frank	Futurewei Tec	hnologies		Luo, Yuanqiu		Futur	ewei		
Comment	Туре Т	Comment Status A			Comment Typ	e TR	Comment Status	Α		
	is missing for B	R20.			Note b of waveleng		has @@@ value. In	Note c, 1304.5 nn	n is not 50GBASE-	BR40
Suggested Sugge	-	nto the same category as BR	40 and BR40+.		SuggestedRe	medy				
Response ACCE		Response Status C			calculated	l using the m	Table 160-8 into one aximum distance spe cation for connection	cified in Table 16	0–5 and fiber atten	uation of
C/ 160	SC 160.6.2	P83	L <b>20</b>	# 104	lf fiber att after 0.5d		3R10 is different fron	n BR20/40/40+, co	onsider adding the i	new value
uo, Yuan	•	Futurewei			Response		Response Status	С		
		Comment Status R has @@@ value. 50GBASE- ble 160-7.	BR10 SECQ va	alue in Note C doesn't	,	IN PRINCIPL	,	<b>.</b>		
Suggested	dRemedy				C/ 160	SC 160.10.1	P8	5 L14	4 # 11	13
		eceiver sensitivity (OMAouter ue of SECQ up to 3.2 dB for 5			Wang, Ruoxu <i>Comment Typ</i>		Huaw Comment Status	vei Technologies	-	
Response		Response Status C							of some key spece	
, REJE					Table 160–10—Optical fiber and cable characteristics is lack of some key specs the channel loss (min/max) at different nominal wavelength and transmission ran 50GBASE-BR X. The table needs to be modified as Table 159-10.					nge of
		DD00/40/40			The 50GE	BASE-BR40 is	s based on avalanch	e photodiode (API	D) receiver. As we	
BR10	Rx is different fro	m BR20/40/40+			the ADD i		rong ontical nowar th	na damaga thrach	old and avorage re	
	Rx is different fro	P <b>83</b>	L38	# 87			rong optical power, tl carefully designed t			00110
C/ 160	SC <b>6.3</b> er, Frank	P83 Futurewei Tec		# 87	power (ma Thus the	ax) should be channel inser		o protect the APD d be 10dB in 40kn	based receiver. n cases, to protect	the
C/ <b>160</b> Effenberge Comment	SC <b>6.3</b> er, Frank <i>Type</i> <b>T</b>	P83 Futurewei Tec Comment Status A		# <mark>8</mark> 7	power (ma Thus the	ax) should be channel inser E-BR40 APD	e carefully designed t tion loss (min) shoul	o protect the APD d be 10dB in 40kn	based receiver. n cases, to protect	the
C/ <b>160</b> Effenberge Comment Notes Suggested	SC <b>6.3</b> er, Frank <i>Type</i> <b>T</b> b and c are no lo d <i>Remedy</i>	P83 Futurewei Tec Comment Status A onger true.	hnologies	# <mark>87</mark>	power (ma Thus the 50GBASE <i>SuggestedRe</i> Table 160 The chan	ax) should be channel inser E-BR40 APD <i>medy</i> I-10 should be nel insersion	e carefully designed t tion loss (min) shoul	o protect the APD d be 10dB in 40kn ntain consistency 159-10. in 40km cases. A	based receiver. n cases, to protect with 802.3cn 50GB nd add a footnote:	the ASE-ER.
C/ <b>160</b> Effenberge Comment Notes Suggested	SC 6.3 er, Frank <i>Type</i> <b>T</b> b and c are no lo <i>dRemedy</i> ve notes b and c,	P83 Futurewei Tec Comment Status A	hnologies	# <mark>87</mark>	power (ma Thus the 50GBASE <i>SuggestedRe</i> Table 160 The chan	ax) should be channel inser E-BR40 APD <i>medy</i> I-10 should be nel insersion	e carefully designed t tion loss (min) shoul receiver. It also mai e modified as Table loss should be 10dB	o protect the APD d be 10dB in 40kn ntain consistency 159-10. in 40km cases. A th an optical atten	based receiver. n cases, to protect with 802.3cn 50GB nd add a footnote:	the ASE-ER.

Pa **85** Li **14** 

	P85	L18	# <u>1</u> 06	C/ 160 SC 10.2	P86	L <b>8</b>	# <u>7</u> 7
uo, Yuanqiu	Futurewei			Effenberger, Frank	Futurewei Teo	chnologies	
Comment Type TR	Comment Status A			Comment Type T	Comment Status A		
Table 160-10 talks abo	ut 1310nm. This wavelength is	s not used in Bi	Di spec.	Replace the red text	for BR20 with the average valu	e of BR10 and E	3R40.
SuggestedRemedy				SuggestedRemedy			
,	/ith BiDi wavelengths 1270nm,	1330nm 1314	nm 1289nm	,	alues for BR20 reflectance is:		
	-	,	,	-22			
Response	Response Status C			-29			
ACCEPT IN PRINCIPL See #113	E.			-34			
366 #113				-37 -39			
C/ 160 SC 10.2.1	P85	L 38	# 88	-40			
ffenberger, Frank	Futurewei Tech	hnologies		Response	Response Status <b>C</b>		
Comment Type T	Comment Status A	mologico		ACCEPT.			
• ·	R20 is not really true: 15dB wa	as isut a made i	in number				
	20 IS NOT really true. 150D wa	is jour a made u		C/ 160 SC 160.10	.2.2 P86	L <b>8</b>	# 108
SuggestedRemedy				Luo, Yuangiu	Futurewei		
	at begins, "The maximum link	distance for 50	GBASE-BR20". The		Comment Status A		
other sentences are sti	ll valid, so they can stand.			Comment Type TR			2.40
Response	Response Status C			BR20 values in Table	e 160-11 are all filled as "betwe	en BR10 and Br	<b>\40</b> "
ACCEPT.				SuggestedRemedy			
C/ 160 SC 160.10.2.	1 <i>P</i> 85	L39	# 107	Decide values for BF	R20 and fill them in Table 160-1	1	
	I 703	L 39	# 107	Response	Response Status C		
₋uo, Yuanqiu	Futurewei			ACCEPT IN PRINCI	•		
Comment Type TR	Comment Status A			See #77			
BR20 value is still @@	@			C/ 160 SC 160.11	P87	L <b>22</b>	# 109
							105
SuggestedRemedy				Luo, Yuanqiu	Futurewei		
,	0 and fill it in 160.10.2.1						
Decide a value for BR2				Comment Type TR	Comment Status A		
Decide a value for BR2 Response	Response Status C			Comment Type TR PICS forms in 160.1			
Decide a value for BR2 Response ACCEPT IN PRINCIPL	Response Status C			21			
Decide a value for BR2 Response	Response Status C			PICS forms in 160.1 SuggestedRemedy	1 are all empty		
Decide a value for BR2 Response ACCEPT IN PRINCIPL	Response Status C			PICS forms in 160.1 SuggestedRemedy Fill the PICS forms in	1 are all empty		
Response ACCEPT IN PRINCIPL	Response Status C			PICS forms in 160.1 SuggestedRemedy	1 are all empty n Cl.160.11 <i>Response Status</i> <b>C</b>		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 87	Page 7 of 7
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	Li <b>22</b>	3/26/2020 7:17:59 PM
SORT ORDER: Page, Line		