C/ 153 SC 1	153.2.3.3.1	P 88	L 42	# 1	C/ 152	SC 152.2		P 59	L 40	# 4
Brown, Matt		Huawei Techi	nologies Canada		Brown, Mat	t		Huawei Techr	nologies Canada	
Comment Type	E Com	ment Status A		bucket	Comment T	<i>уре</i> Е	Comment S	tatus A		
	FAS is used the	gnment signal is defi reafter but there are			inverse	RS-FEC subla		ring to the sub	ned in 80.3 which player it should be	n is used by the e "inverse RS-FEC
SuggestedRemed	'y				Suggested	Remedy				
		alignment signal" to	"FAS" after the acr	ronym is defined on	Change	e "inverse FEC	sublayer" to "in\	erse RS-FEC	sublayer at Page	e 59 line 41,
page 84 line 4					Response		Response S	tatus C		
Response ACCEPT IN P Implement the	, RINCIPLE.	onse Status C dy with editorial licer	nse.			PT IN PRINCIPI		he title of 152	.2 and the first se	entence of the sub-
C/1 SC 1	1.5	P 22	L 32	# 2	C/ 152	SC 152.5.1		P 61	L 24	# 5
Brown, Matt		Huawei Tech	nologies Canada		Brown, Mat	t		Huawei Techr	nologies Canada	
Comment Type	T Com	ment Status A			Comment T	vpe E	Comment S	tatus R	-	
A new acronyr	m SC-FEC is intro	oduced in Clause 15	3 and the acronym	has been added to			ovious which pa	th is transmit	function and whic	ch is receive functior
many clauses	and annexes incl	uding 45, 80, 154, a	nd 83C.			-	·			
many clauses SuggestedRemed		uding 45, 80, 154, a	nd 83C.		Suggested	Remedy				
SuggestedRemed	ly	uding 45, 80, 154, a rcase FEC" to the ad			Suggestedł A label	Remedy				
SuggestedRemed Add the acron	<i>ly</i> lym SC-FEC "stai	rcase FEC" to the ac			<i>Suggestedl</i> A label path.	Remedy	ion" to downwa	rd path and a		
SuggestedRemed Add the acron Response	<i>ly</i> lym SC-FEC "stai	-			Suggestedf A label path. Response	Remedy "Transmit func		rd path and a		
SuggestedRemed Add the acron	<i>ly</i> lym SC-FEC "stai	rcase FEC" to the ac			Suggestedf A label path. Response REJEC	Remedy "Transmit funct	ion" to downwa <i>Response</i> S	rd path and a tatus C	label "Receive fu	nction" to the upwar
Add the acron Response ACCEPT.	<i>ly</i> lym SC-FEC "stai	rcase FEC" to the ac		# 3	Suggested/ A label path. Response REJEC No othe An unw	Remedy "Transmit funct T. er clause has th ritten conventic	ion" to downwa <i>Response</i> S is labeling. See	rd path and a <i>tatus</i> C , for example,	label "Receive fu Figure 91-2 from	nction" to the upwar n which this is derive
uggestedRemed Add the acron esponse ACCEPT.	ly lym SC-FEC "stai Respo	rcase FEC" to the ac onse Status C P83	cronym list in 1.5.	# [3]	Suggested/ A label path. Response REJEC No othe An unw	Remedy "Transmit funct T. er clause has th	ion" to downwa <i>Response</i> S is labeling. See	rd path and a <i>tatus</i> C , for example,	label "Receive fu Figure 91-2 from	nction" to the upwar
uggestedRemed Add the acron esponse ACCEPT. 1 153 SC 1 rown, Matt	ly SC-FEC "stai Respo 153.2.3.1	rcase FEC" to the ac onse Status C P83	cronym list in 1.5.	# 3	Suggested/ A label path. Response REJEC No othe An unw	Remedy "Transmit funct T. er clause has th ritten conventic	ion" to downwa <i>Response</i> S is labeling. See n is that the Tx	rd path and a <i>tatus</i> C , for example,	label "Receive fu Figure 91-2 from	nction" to the upwar n which this is derive
SuggestedRemed Add the acron Response ACCEPT. Cl 153 SC 1 Brown, Matt Comment Type A new acronyr	ly SC-FEC "stai Respo 153.2.3.1 E Com m SC-FEC is intro	P83 Huawei Tech Matuk A Huced and defined f	<i>L</i> 25 Lologies Canada near the beginning	Clause 153.	Suggested/ A label path. Response REJEC No othe An unw kinds o	Remedy "Transmit funct T. er clause has th ritten conventio f figures. SC 153.2.3. 1	ion" to downwa <i>Response S</i> is labeling. See n is that the Tx	rd path and a tatus C , for example, direction is do	label "Receive fu Figure 91-2 from own and the Rx d	nction" to the upwar which this is derive irection is up in thes
Add the acron Response ACCEPT. 153 SC 1 Frown, Matt Comment Type A new acronyn Predominantly	ly ym SC-FEC "stai <i>Respo</i> 153.2.3.1 E <i>Com</i> m SC-FEC is intro y SC-FEC is used	rcase FEC" to the ac onse Status C P83 Huawei Tech ment Status A oduced and defined thereafter but in ma	<i>L</i> 25 nologies Canada near the beginning ny places throughc	Clause 153. Dut Clause 153. Only	Suggested/ A label path. Response REJEC No othe An unw kinds o C/ 153 Brown, Mat	Remedy "Transmit funct T. Transmit funct T. Transmit funct ritten convention f figures. SC 153.2.3.1 t	ion" to downwa <i>Response S</i> is labeling. See n is that the Tx	rd path and a tatus C , for example, direction is do <i>P</i> 83 Huawei Techr	label "Receive fu Figure 91-2 from own and the Rx d	nction" to the upwar n which this is derive irection is up in thes
uggestedRemed Add the acron esponse ACCEPT. / 153 SC 1 rown, Matt omment Type A new acronyr Predominantly SC-FEC is use	ly ym SC-FEC "stai <i>Respo</i> 153.2.3.1 E <i>Com</i> m SC-FEC is intro y SC-FEC is used ed in other clause	P83 P83 Huawei Tech ment Status A oduced and defined of thereafter but in ma	<i>L</i> 25 nologies Canada near the beginning ny places throughc	Clause 153. Dut Clause 153. Only	Suggested/ A label path. Response REJEC No othe An unw kinds o C/ 153 Brown, Mat Comment T	Remedy "Transmit funct T. Fr clause has the ritten convention f figures. SC 153.2.3.1 t ype E	ion" to downwa <i>Response S</i> is labeling. See n is that the Tx <i>Comment S</i>	rd path and a tatus C , for example, direction is do P83 Huawei Techr tatus R	label "Receive fu Figure 91-2 from own and the Rx d <i>L</i> 24 hologies Canada	nction" to the upwar n which this is derive irection is up in thes # 6
Add the acron Response ACCEPT. 153 SC 1 rown, Matt Comment Type A new acronyr Predominantly SC-FEC is use several instance	y SC-FEC "stai <i>Respo</i> 153.2.3.1 E Com m SC-FEC is intro y SC-FEC is used ed in other clause ces where "stairc	rcase FEC" to the ac onse Status C P83 Huawei Tech ment Status A oduced and defined thereafter but in ma	<i>L</i> 25 nologies Canada near the beginning ny places throughc	Clause 153. Dut Clause 153. Only	Suggested/ A label path. Response REJEC No othe An unw kinds o C/ 153 Brown, Mat Comment 7 It is not	Remedy "Transmit funct T. er clause has the ritten convention f figures. SC 153.2.3.1 t <i>SC</i> 153.2.3.1 t <i>ype</i> E immediately of	ion" to downwa <i>Response S</i> is labeling. See n is that the Tx <i>Comment S</i>	rd path and a tatus C , for example, direction is do P83 Huawei Techr tatus R	label "Receive fu Figure 91-2 from own and the Rx d <i>L</i> 24 hologies Canada	nction" to the upwar n which this is derive irection is up in thes
Add the acron Response ACCEPT. 153 SC 1 rown, Matt Comment Type A new acronyr Predominantly SC-FEC is use several instant	y ym SC-FEC "stai <i>Respo</i> 153.2.3.1 E <i>Com</i> m SC-FEC is used ed in other clause ces where "stairc y	P83 Huawei Tech ment Status A oduced and defined i thereafter but in ma is including 45, 80, 1 ase FEC" is reused.	<i>L</i> 25 L25 nologies Canada near the beginning ny places throughc [54, and 83C.Howe	Clause 153. out Clause 153. Only over, there are	Suggested/ A label path. Response REJEC No othe An unw kinds o C/ 153 Brown, Mat Comment 7 It is not Suggested/	Remedy "Transmit funct T. er clause has the ritten convention f figures. SC 153.2.3.1 t SC 153.2.3.1 t t ype E immediately of Remedy	ion" to downwa <i>Response S</i> is labeling. See n is that the Tx <i>Comment S</i> pvious which pa	rd path and a tatus C , for example, direction is do P83 Huawei Techr tatus R th is transmit	label "Receive fu Figure 91-2 from own and the Rx d <i>L</i> 24 hologies Canada function and whic	nction" to the upwar n which this is derive irection is up in thes # 6
uggestedRemed Add the acron esponse ACCEPT. 153 SC 1 rown, Matt comment Type A new acronyr Predominantly SC-FEC is use several instan- uggestedRemed Change all ins	y SC-FEC "stai Respondent Respond	P83 P83 Huawei Tech ment Status A oduced and defined of thereafter but in ma	<i>L</i> 25 nologies Canada near the beginning ny places througho 54, and 83C.Howe	Clause 153. out Clause 153. Only over, there are is defined on page	Suggested/ A label path. Response REJEC No othe An unw kinds o C/ 153 Brown, Mat Comment 7 It is not Suggested/	Remedy "Transmit funct T. er clause has the ritten convention f figures. SC 153.2.3.1 t SC 153.2.3.1 t t ype E immediately of Remedy	ion" to downwa <i>Response S</i> is labeling. See n is that the Tx <i>Comment S</i> pvious which pa	rd path and a tatus C , for example, direction is do P83 Huawei Techr tatus R th is transmit	label "Receive fu Figure 91-2 from own and the Rx d <i>L</i> 24 hologies Canada function and whic	nction" to the upwar n which this is derive irection is up in thes # 6
SuggestedRemed Add the acron Response ACCEPT. Cl 153 SC 1 Brown, Matt Comment Type A new acronyr Predominantly SC-FEC is use several instant SuggestedRemed Change all ins	y ym SC-FEC "stai <i>Respo</i> 153.2.3.1 E <i>Com</i> m SC-FEC is intro y SC-FEC is used ed in other clause ces where "stairco y stances of "stairco some exceptions	P83 Huawei Tech ment Status A oduced and defined f thereafter but in ma is including 45, 80, 1 ase FEC" to SC-FEC	<i>L</i> 25 nologies Canada near the beginning ny places througho 54, and 83C.Howe	Clause 153. out Clause 153. Only over, there are is defined on page	Suggested/ A label path. Response REJEC No othe An unw kinds o C/ 153 Brown, Mat Comment 7 It is not Suggested/ A label	Remedy "Transmit funct T. er clause has the ritten convention f figures. SC 153.2.3.1 t SC 153.2.3.1 t t ype E immediately of Remedy	ion" to downwa <i>Response S</i> is labeling. See n is that the Tx <i>Comment S</i> pvious which pa	rd path and a tatus C , for example, direction is do <i>P</i> 83 Huawei Techr tatus R th is transmit f	label "Receive fu Figure 91-2 from own and the Rx d <i>L</i> 24 hologies Canada function and whic	nction" to the upwar n which this is derive irection is up in thes # 6
SuggestedRemed Add the acron Response ACCEPT. I 153 SC 1 Frown, Matt Comment Type A new acronyr Predominantly SC-FEC is use several instance SuggestedRemed Change all ins 81 line 9, with	y ym SC-FEC "stai <i>Respo</i> 153.2.3.1 E <i>Com</i> m SC-FEC is intro y SC-FEC is used ed in other clause ces where "stairca y stances of "stairca some exceptions <i>Respo</i>	P83 P83 Huawei Techi ment Status A oduced and defined i thereafter but in ma is including 45, 80, 1 ase FEC" to SC-FEC such as the definition	<i>L</i> 25 nologies Canada near the beginning ny places througho 54, and 83C.Howe	Clause 153. out Clause 153. Only over, there are is defined on page	Suggested/ A label path. Response REJEC No othe An unw kinds o C/ 153 Brown, Mat Comment 7 It is not Suggested/ A label path.	Remedy "Transmit funct T. er clause has the ritten convention f figures. SC 153.2.3.1 t SC 153.2.3.1 t ype E immediately of Remedy "Transmit funct	ion" to downwa <i>Response S</i> is labeling. See n is that the Tx <i>Comment S</i> pvious which pa	rd path and a tatus C , for example, direction is do <i>P</i> 83 Huawei Techr tatus R th is transmit f	label "Receive fu Figure 91-2 from own and the Rx d <i>L</i> 24 hologies Canada function and whic	nction" to the upwa n which this is derive irection is up in the # 6

C/ 154	SC 154.1	P 100	L 8	# <u>7</u>	C/ 154 S	SC 154.1	P100	L 8	# <u>9</u>
Brown, Matt		Huawei Techr	nologies Canada		Brown, Matt		Huawei Techi	nologies Canada	
Comment Ty	pe E	Comment Status A		Bucket	Comment Type	e E	Comment Status A		
The term	n "black link" is emedy quotes from "k ances: D, line 8 S, line 46	k link" deserves quotes and o used throughout this clause black link". <i>Response Status</i> C			since both necessary introductor clause. SuggestedRen Do one of 1. Remove 2. Change	references I would arg ry sentence medy the following both refere "defined in"	erm "(see xxx)" for cases whe in this sentence point to the s gue that the references are no and its implicit that everything g: ences. (preferred) " and "also defined in" to "see ference and in the second cha	ame subclause o it necessary at all g is going to be sp	nly one reference is since this is an pecified later in the
					3. Remove Response	e the first re	Response Status C	ange also defined	ain to see .
/ 154	SC 154.1	P 100	L 8	# 8		IN PRINCIP	,		
rown, Matt		Huawei Techr	nologies Canada			t remedy op			
comment Ty	pe T	Comment Status A			·				
		an important element throug			C/ 154 S	SC 154.1	P 101	L 26	# 10
		SE-ZR PMD) and therefore a		be added to 1.4. Note	Brown, Matt		Huawei Techi	nologies Canada	
		<" is never succinctly defined	in this clause.		Comment Type	e E	Comment Status A		
uggestedRe	2						e considered technical.		
Add defir	nition for "blacl	Clink" to 1.4.					not SMF but rather a more co	omplex "black link	
Response		Response Status C			SuggestedRen	2			
	IN PRINCIPL	E. nk" needs to be added to 1.4	ł.		0	R = PMD F	OR SINGLE MODE FIBER" BLACK LINK" or similar		
	ct definition is	ſBD.		nput and output of the	Response		Response Status C		

C/ 154	SC 154.1	P 101	L 23	# 11	C/ 154	SC 154.7.3	P 111	L13	# <u>1</u> 3
Brown, Matt		Huawei Techr	nologies Canada		Brown, Ma	tt	Huawei Tech	nnologies Canada	
		<i>comment Status</i> A -1, the order of definition on list.	is should be alph	anumeric. Also, SC-		le 154-10, footne	Comment Status A ote a, there is a disconnect b MDs, a similar table (e.g., Ta		
SuggestedR Move RS	C C				DGD_I	max as a descript tency and clarity	otion, whereas here the desc , include the DGD_max term	cription is spelled	out in words. For
Response ACCEP ⁻	Re T IN PRINCIPLE.	esponse Status C					w 2 change the description group delay, DGD_max" <i>Response Status</i> C	to:	
	olution to comment		1.40	" [10]	ACCE	PT.			
7 154 Brown, Matt	SC 154.5.3	P 104 Huawei Techr	L 46 nologies Canada	# 12	C/ 83C	SC 83C.4.2	P120	L11	# 14
omment Ty	ype T C	comment Status A	0		Brown, Ma	tt	Huawei Tech	nnologies Canada	a
polarizat	ably, the "two_DQPS tions" as modulated	SK symbol streams" are by the transmit function	extracted from e (see 154.5.2). T	each of two "orthogonal ext in 154.2 supports	Comment Figure		Comment Status A re 83C-10 should include bo	oth 100GAUI-4 an	d 100GAUI-2.
this. <i>uggestedR</i> Change:	:					00GAUI-4 in add	ition to 100GAUI-2. 302.3cd-2018 as an example	9.	
MDI into To:	o two DQPSK symbo	shall convert the compo- ol streams for delivery." shall convert the compo-	1 0		Response	•	Response Status C		
MDI into delivery.	o two DQPSK symb ." or similar	ol streams, each from o				nse to comment	ecome Figure 135A-9 and F 15. Make the indicated char		
Response		esponse Status C				3.			
ACCEP	T IN PRINCIPLE.				CI 83C	SC 83C.4.2	P 120	L11	# 15
		ning optical composite s			Brown, Ma	tt	Huawei Tech	nnologies Canada	a
		mitted and therefore it is DSP) has to retrieve the				83C-9 and Figu	Comment Status A re 83C-10 should be in Anne		as they are primarily
		original polarizations ma		ne significant rotation			85 PMA not Clause 83 PMA>	>	
during tr	ransmission over the	e fiber with editorial licen	ISE.		Suggested Add Ai Annex	nnex 135A to 80	2.3ct and amend by moving	Figure 83C-9 and	d Figure 83C-10 to
					Response		Response Status C		
					ACCEI Implen		•		135A-9 and Figure 830
				T/technical E/editorial G/			Comn		

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 15

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C/ 152 SC 1	52.1	P 58	L13	# <u>1</u> 6	C/ 1	SC 1.5		P 22	L 45	# <u>1</u> 8
Brown, Matt		Huawei Tech	nologies Canada		Brown, M	att	Hu	awei Techno	logies Canada	
Comment Type	T Cor	nment Status A			Comment	Туре Е	Comment Stat	tus A		
conversion to the a FEC other tha MAC device an 200GXS specif However, as th ZR PHY. To en	ne 100GBASE an the Clause S id the PMD dev ied by 802.3bs e introductory s icourage gener	91 RS(544,514) FEC vice. The inverse FEC for 400GE and 200G	able sublayer for or (b) permit corre is analogous to the E (see Clause 11) is targetting spec	either (a) converting to ection between the he 400GXS and 8 in 802.3-2018). ifically the 100GBASE-	modu Suggeste add s Response	lation format dRemedy eparate acrony	arately from DP-DQF /m for DQPSK <i>Response State</i> IPLE		a coding metho	od, rather than
SuggestedRemedy	•	e denned generiodily.			Will a	dd the acronyr	n DQPSK "Differentia	al Quadrature	e Phase Shift Ke	eying" to 1.5.
FEC specified	n Clause 91 is			ases where the RS- nodule interface and a	C/ 80	SC 80.1		P 48	L 7	# 19
different FEC is			and "100GBASE."	ZR PMA" to "PMA and	Brown, M	att	Hu	awei Techno	logies Canada	
update the defi	nition list.				Comment	Туре Е	Comment Stat	tus A		Bucke
Change the title In Figure 83C-9		Partitioning examples	with Inverse RS-F	EC"	802.3	cu updates thi	s paragraph, adding [·]	100GBASE-F	R1 and 100GB	ASE-LR1
change "SC-FE					Suggeste	dRemedy				
change "100GE	BASE-ZR PMA	" to "PMA"			updat	e this paragra	oh based on changes	in 802.3cu		
		00GBASE-Z/P" or ad 100GBASE-ZR PHY			Response	9	Response State	us C		
		ASE-ZR (153 or 154)		g	ACCE	EPT IN PRINC	IPLE.			
used. Now that second case w	RINCIPLE. clause was cro P802.3ck has here clause 15	conse Status C eated, SC-FEC was the adopted the optional 2 could be used. edy with editorial licent	interleaved 100G		Claus Claus in Cla	e 140 for 1000 e 154 for 1000 use 89 for 400	anguage "The MDIs a GBASE-DR, and GBASE-ZR use a sing GBASE-FR, and Clau d Clause 154 for 100	gle lane data ise 140 for 10	path" to read "T)0GBASE-DR, 1	he MDIs as specified 00GBASE-FR1 and
C/ 1 SC 1.	5	P 22	L 4 8	# 17	CI 80	SC 80.3.2		P 50	L 30	# 20
Brown, Matt			nologies Canada	π 11	Brown, M	att	Hu	awei Techno	logies Canada	
,	E Coi	mment Status A	nologies Canada	Bucket	Comment		Comment Stat			Bucke
"generic mappi	ng procedure"	should not be capitalized, except as		n 802.3 standards,			a new class of PHY, os after 100GBASE-F			so it should be added st be underlined.
sentence or title		capitalized, except a	s required, e.g., in		Suggeste	-				
SuggestedRemedy		rotoool"				100GBASE-Z" up all new and	after "100GBASE-P" delete text	' with approp	riate grammar a	nd markup
change to "gen					Response		Response State	us C		
Response ACCEPT IN PF		oonse Status C			ACCE	EPT.				
Change to "ger	neric mapping p	procedure"								

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 20

C/ 80	SC 80.2.4	P 50	L 5	# 21	C/ 152	SC 152.2	P 60	L 4	# 24
Brown, Ma	tt	Huawei Techn	ologies Canada		Brown, Ma	tt	Huawei Techr	nologies Canada	
Comment	Туре т	Comment Status A			Comment	Туре т	Comment Status A		
	· ·	specified in 153)) is not a 1000	GBASE-R PMA	(specified in 83).			ameter is sent upward and thu s rather than FEC codeword a		
Suggested					Suggested	•		0 1	
100GE Add ne	ew sentence at t	ception of is specified in Clause153." he end of the paragraph: he 100GBASE-ZR PHY is spe	cified in Clause	153."	Chang "The v	e the last sente	ence of 152.2 to the following (K when align_status (see 152. alse."		
Response	·	Response Status C			Response		Response Status C		
	PT IN PRINCIPI				ACCE	PT IN PRINCIP e the last two s	,	ated replacemen	t.
		s noted and add new sentence he 100GBASE-ZR PHY is spe		ne paragraph:	[Editor	's Note: Line nເ	umber changed to 4]		
C/ 152	SC 152.1.1	P58	L 12	# 22	C/ 152	SC 152.6.13	3 P 76	L14	# 25
Brown, Ma	tt	Huawei Techn	ologies Canada		Brown, Ma	tt	Huawei Techr	nologies Canada	
Comment The R		Comment Status A is introduced in the first sente	nce.	bucket	<i>Comment</i> tx_alig		Comment Status A not appear in Figure 82-14.		bucke
S <i>ugg</i> estea In seco		ange "Reed-Solomon FEC" to	"RS-FEC".		S <i>ugg</i> ested Chang		tus" to "rx_align_status".		
Response ACCE		Response Status C			Response ACCE	PT.	Response Status C		
		in comment changed to page	58.						
C/ 152	SC 152.1	P 59	L 35	# 23					
Brown, Ma	tt	Huawei Techn	ologies Canada						
Comment For Fig 83.		Comment Status A PMA above the Inverse RS-FI	EC is defined in	<i>bucket</i> Clause 135 not Clause					
Suggested In note		AUSE 83" to "CLAUSE 135"							
Response ACCE	-	Response Status C							

C/ 152 SC 152.3 P60 L11 # 26	C/ 152 SC 152.5	P 60	L 27	# <u>2</u> 8
Brown, Matt Huawei Technologies Canada	Brown, Matt	Huawei Tec	hnologies Canada	a
Comment Type T Comment Status A	Comment Type E	Comment Status A		buck
The sentence refers to "The restriction that all PMA service interfaces between the RS-FEC sublayer and the PMD sublayer consist of four or fewer lanes is removed below the Inverse RS-FEC sublayer." It is not clear where this restriction is coming from. SuggestedRemedy	perpetually valid. It is su	ve a reason for a specificat ufficient to say simply that t blane) and CR (twinax) PHY E.	the EEE deep slee	ep is not supported.
Provide information indicating the source of this restriction, perhaps a subclause number.	SuggestedRemedy			
	Delete "since all PHY ty	ypes using this sublayer are	e optical".	
Response Response Status C ACCEPT IN PRINCIPLE.	Response	Response Status C		
Change:	ACCEPT.			
"The restriction that all PMA service interfaces between the RS-FEC sublayer and the PMD				
sublayer consist of four or fewer lanes is removed below the Inverse RS-FEC sublayer." to	C/ 152 SC 152.5.4.2.	.3 P73	L 5	# 29
"The restriction that all PMA service interfaces between the RS-FEC sublayer and the PMD	Brown, Matt	Huawei Tecl	hnologies Canada	a
sublayer consist of four or fewer lanes (see 91.3) is removed below the Inverse RS-FEC	Comment Type T	Comment Status A		
sublayer."		tes are mandatory for Inver	se RS-FEC amp_	_bad_count is not
The indicated restriction is described in the final paragraph of 91.3. But once you terminate	conditional.			
The indicated restriction is described in the inial paragraph of 31.5. Dut once you terminate				
	SuggestedRemedy			
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes.	SuggestedRemedy	tates are supported in the F	EC synchronizat	ion process"
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes.	Delete "if the optional st	tates are supported in the F	FEC synchronizat	ion process"
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes.	Delete "if the optional st Response	Response Status C	FEC synchronizat	ion process"
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes.	Delete "if the optional st Response ACCEPT IN PRINCIPLE	Response Status C E.	FEC synchronizat	ion process"
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes. Cl 152 SC 152.5 P60 L28 # 27 Brown, Matt Huawei Technologies Canada	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha	Response Status C E. anged to 73]	·	
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes. Cl 152 SC 152.5 P60 L28 # 27 Brown, Matt Huawei Technologies Canada	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha	Response Status C E.	·	
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes.	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha Implement the proposed	Response Status C E. anged to 73]	·	
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes. 7 152 SC 152.5 P60 L28 # 27 rown, Matt Huawei Technologies Canada <i>Comment Type</i> E Comment Status R There is a reference to "The FEC optional states in Clause 91". This is a bit vague.	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha Implement the proposed 33, page 72. C/ 152 SC 152.6.6	Response Status C E. anged to 73] d remedy. Delete the same	e words also unde	r restart_lock on line # 30
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes.	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha Implement the proposed 33, page 72. C/ 152 SC 152.6.6 Brown, Matt	Response Status C E. anged to 73] d remedy. Delete the same P 75 Huawei Tec	e words also unde	r restart_lock on line # 3 <u>0</u>
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes.	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha Implement the proposed 33, page 72. C/ 152 SC 152.6.6 Brown, Matt Comment Type T	Response Status C E. anged to 73] d remedy. Delete the same P75 Huawei Tech Comment Status A	e words also unde <i>L</i> 18 hnologies Canada	r restart_lock on line # <u>30</u>
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes.	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha Implement the proposed 33, page 72. C/ 152 SC 152.6.6 Brown, Matt Comment Type T Since FEC optional stat	Response Status C E. anged to 73] d remedy. Delete the same P75 Huawei Tech Comment Status A tes are mandatory an assoc e that controls the state made	e words also unde <i>L</i> 18 hnologies Canada ciated ability bit is	r restart_lock on line # <u>30</u>
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes. 7 152 SC 152.5 P60 L28 # 27 rown, Matt Huawei Technologies Canada comment Type E Comment Status R There is a reference to "The FEC optional states in Clause 91". This is a bit vague. <i>LuggestedRemedy</i> Change to "The optional states in Figure 91-8" <i>Response Response Status</i> C REJECT. There doesn't seem to be a lot of consistency across various clauses about how these states are described. However, Clause 45 has created a specific variable "FEC optional states" seems a safe way to refer to	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha Implement the proposed 33, page 72. Cl 152 SC 152.6.6 Brown, Matt Comment Type T Since FEC optional statt 152.5.4.2.1 the variable unconditionally forced to	Response Status C E. anged to 73] d remedy. Delete the same P75 Huawei Tech Comment Status A tes are mandatory an assoc e that controls the state made	e words also unde <i>L</i> 18 hnologies Canada ciated ability bit is	r restart_lock on line # <u>30</u>
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes. 7/ 152 SC 152.5 P60 L28 # 27 Frown, Matt Huawei Technologies Canada Comment Type E Comment Status R There is a reference to "The FEC optional states in Clause 91". This is a bit vague. SuggestedRemedy Change to "The optional states in Figure 91-8" Response Response Status C REJECT. There doesn't seem to be a lot of consistency across various clauses about how these states are described. However, Clause 45 has created a specific variable "FEC optional states supported", so calling these the "FEC optional states" seems a safe way to refer to them. The intro paragraph of 152.5 is simply a high-level intro of what is or is not supported in the	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha Implement the proposed 33, page 72. Cl 152 SC 152.6.6 Brown, Matt Comment Type T Since FEC optional statt 152.5.4.2.1 the variable unconditionally forced to SuggestedRemedy Delete 152.6.6.	Response Status C E. anged to 73] d remedy. Delete the same P75 Huawei Tech Comment Status A tes are mandatory an assoc e that controls the state mad o true.	e words also unde <i>L</i> 18 hnologies Canada ciated ability bit is	r restart_lock on line # <u>30</u>
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes. Cl 152 SC 152.5 P60 L28 # 27 Brown, Matt Huawei Technologies Canada Comment Type E Comment Status R There is a reference to "The FEC optional states in Clause 91". This is a bit vague. SuggestedRemedy Change to "The optional states in Figure 91-8" Response Response Status C REJECT. There doesn't seem to be a lot of consistency across various clauses about how these states are described. However, Clause 45 has created a specific variable "FEC optional states supported", so calling these the "FEC optional states" seems a safe way to refer to them.	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha Implement the proposed 33, page 72. Cl 152 SC 152.6.6 Brown, Matt Comment Type T Since FEC optional statt 152.5.4.2.1 the variable unconditionally forced to SuggestedRemedy Delete 152.6.6.	Response Status C E. anged to 73] d remedy. Delete the same P75 Huawei Tech Comment Status A tes are mandatory an assoce that controls the state made o true. tates "row in Table 152-2. 'in Table 45-150ab.	e words also unde <i>L</i> 18 hnologies Canada ciated ability bit is	r restart_lock on line # <u>30</u>
the FEC and go back to the 20 PCS lane format, you are no longer locked at 4 or fewer lanes. Cl 152 SC 152.5 P60 L28 # 27 Brown, Matt Huawei Technologies Canada Comment Type E Comment Status R There is a reference to "The FEC optional states in Clause 91". This is a bit vague. SuggestedRemedy Change to "The optional states in Figure 91-8" Response Response Status C REJECT. There doesn't seem to be a lot of consistency across various clauses about how these states are described. However, Clause 45 has created a specific variable "FEC optional states supported", so calling these the "FEC optional states" seems a safe way to refer to them. The intro paragraph of 152.5 is simply a high-level intro of what is or is not supported in the clause. The detail in 152.5.2.1 includes the specific description that the FEC optional states	Delete "if the optional st Response ACCEPT IN PRINCIPLE [Editor's note - page cha Implement the proposed 33, page 72. Cl 152 SC 152.6.6 Brown, Matt Comment Type T Since FEC optional stat 152.5.4.2.1 the variable unconditionally forced to SuggestedRemedy Delete 152.6.6. Delete "fec_optional_stat Delete row for 1.2201.7	Response Status C E. anged to 73] d remedy. Delete the same P75 Huawei Tech Comment Status A tes are mandatory an assoce that controls the state made o true. tates "row in Table 152-2. 'in Table 45-150ab.	e words also unde <i>L</i> 18 hnologies Canada ciated ability bit is	r restart_lock on line # <u>30</u>

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 30

C/ 152 SC 15	52.5.1	P 61	L 24	# <u>3</u> 1	C/ 152	SC 152.5.2.6		P 63	L 44	# 34
Brown, Matt		Huawei Tech	nologies Canada		Brown, Ma	tt	Hu	awei Techn	ologies Canada	a
	2, it is not imme	nment Status R diately clear which pa	th is transmit fund	ction and which is is		e phrase "distribu		CS lanes", I t		<i>bucke</i> verse RS-FEC "multiple" 40G four-lane and
SuggestedRemedy	V				100G 2	20-lane PCS wer	e defined.			
Add label "Tran right (upward) p		to the left (downward) path and "Recei	ve Function" to the	Suggested Chang	-	lanes" to "20 PCS	lanes".		
Response	Resp	oonse Status C			Response		Response Stat	us C		
REJECT. Duplicate of Co	omment #5					PT IN PRINCIPL		ge "multiple	PCS lanes" to	"twenty PCS lanes"
C/ 152 SC 15	52.5.1	P 61	L 40	# 32	C/ 153	SC 153.2.1		P 82	L16	# 35
Brown, Matt		Huawei Tech	nologies Canada		Brown, Ma	tt	Hu	awei Techn	ologies Canad	a
Comment Type	T Con	nment Status A		bucket	Comment	Туре Е	Comment Sta	tus A		
where the below Figure 120-5).		more than one, the va	ariable inst (italiciz	ed) is used (see		UI-4 or 100GAU uired. It is also p				nd Inverse FEC would
SuggestedRemedy	V				Suggested	Remedy				
SuggestedRemedy In Figure 152-2 For the signals Similar to Figure	V 2. s below the Inve ire 120-5, add le	rse RS-FEC change ' gend text: g on which sublayer i			Suggested Chang "The P service	Remedy e the paragraph CS may be conr e interface (see A	to: nected to the SC- Annex 83A, Annex	FEC using a 83B, Annex	n optional insta ‹ 83D, Annex 8	antiation of the PMA 13E, and Annex 135D rse FEC (see Clause
SuggestedRemedy In Figure 152-2 For the signals Similar to Figur "inst PMA or	V 2. s below the Inve re 120-5, add le r FEC, dependin	gend text:			Suggested Chang "The P service throug	Remedy e the paragraph CS may be conr e interface (see A h Annex 135G) ir	to: nected to the SC- Annex 83A, Annex	FEC using a 83B, Annex MA (see Ann	n optional insta < 83D, Annex 8	3E, and Annex 135D
SuggestedRemedy In Figure 152-2 For the signals Similar to Figure	V 2. s below the Inve re 120-5, add le r FEC, dependin	gend text: g on which sublayer i			Suggested Chang "The P service throug	Remedy e the paragraph CS may be conr e interface (see A h Annex 135G) ir	to: nected to the SC- Annex 83A, Anne» n which case a PI	FEC using a 83B, Anne) MA (see Ann Ice."	n optional insta < 83D, Annex 8	3E, and Annex 135D
SuggestedRemedy In Figure 152-2 For the signals Similar to Figure "inst PMA or Response ACCEPT. Cl 152 SC 15	V 2. s below the Inve re 120-5, add le r FEC, dependin	gend text: ig on which sublayer i ponse Status C P 62	is below this PMA		Suggested Chang "The P service throug 152) is Response ACCEI While immed	Remedy e the paragraph CS may be conr e interface (see A h Annex 135G) ir a client of the Fi PT IN PRINCIPL a 100GAUI interfi liately adjacent to	to: hected to the SC- Annex 83A, Anney n which case a PI EC service interfa <i>Response Stat</i> E. face may exist ab o a SC-FEC subla	EC using a 83B, Anne) MA (see Ann ice." us C ove an Inver iver and hen	n optional insta < 83D, Annex 8 lex 83) or Inver se RS-FEC su ce is irrelevant	3E, and Annex 135D
SuggestedRemedy In Figure 152-2 For the signals Similar to Figure "inst PMA or Response ACCEPT. Cl 152 SC 15 Brown, Matt	2. s below the Inve rr E20-5, add le r FEC, dependin <i>Resp</i> 152.5.2.1	gend text: ig on which sublayer i ponse Status C P 62 Huawei Tech	s below this PMA	" # <u>33</u>	Suggested Chang "The P service throug 152) is Response ACCEI While immed can ne	Remedy e the paragraph CS may be conr e interface (see A h Annex 135G) ir a client of the Fi PT IN PRINCIPL a 100GAUI interfi liately adjacent to ver be a physica	to: hected to the SC- Annex 83A, Anney n which case a PI EC service interfa <i>Response Stat</i> E. face may exist ab o a SC-FEC subla I instantion of any	EC using a 83B, Anne) MA (see Ann ice." us C ove an Inver over and hen clause 153	n optional insta < 83D, Annex 8 lex 83) or Inver se RS-FEC su ce is irrelevant 8 interface.	3E, and Annex 135D rse FEC (see Clause blayer, it is never t for this clause since it
SuggestedRemedy In Figure 152-2 For the signals Similar to Figure "inst PMA or Response ACCEPT. C/ 152 SC 15 Brown, Matt Comment Type The sentence b optional state. 1 "Note that the F are mandatory i SuggestedRemedy Change the ser	2. s below the Inve rr 120-5, add le r FEC, dependin <i>Resp</i> 152.5.2.1 T <i>Con</i> below is uneces This should be FEC optional str or in the context of entence to: "The	gend text: Ig on which sublayer i ponse Status C P62 Huawei Techi mment Status A issarily wordy. The reference more than a note. ates within the dotted of the Inverse RS-FEC FEC optional states a	<i>L2</i> nologies Canada erence figure clea line of Figure 91- C sublayer."	# 33 <i>bucket</i> rly indicates the 8, and transition A,	Suggested Chang "The P service throug 152) is Response ACCEI While a immed can ne The cu implem Chang "The P instant Annex	Remedy e the paragraph CS may be conre- interface (see A h Annex 135G) ir a client of the Fi PT IN PRINCIPL a 100GAUI interf liately adjacent to ver be a physica irrent text referen- nentation, but C2 e the paragraph CS or Inverse R iation of the PMA	to: nected to the SC- Annex 83A, Anney n which case a PI EC service interfa <i>Response Stat</i> E. face may exist ab o a SC-FEC subla il instantion of any neces the C2M Ann C should not be o to: S-FEC may be co A service interface ase a PMA (see A	FEC using a (a 83B, Anne) MA (see Anno (ce." us C byer and hen (Clause 153 hex83x which excluded. by charted to t (see Anne)	n optional insta < 83D, Annex 8 lex 83) or Inver se RS-FEC su ce is irrelevant B interface. n is most proba the SC-FEC us < 83A, Annex 8	3E, and Annex 135D rse FEC (see Clause blayer, it is never for this clause since it able for an
SuggestedRemedy In Figure 152-2 For the signals Similar to Figure "inst PMA or Response ACCEPT. CI 152 SC 18 Brown, Matt Comment Type The sentence b optional state. 1 "Note that the F are mandatory i SuggestedRemedy	2. s below the Inve re 120-5, add le r FEC, dependin <i>Resp</i> 152.5.2.1 T Con below is uneces This should be FEC optional star in the context of wentence to: "The the Inverse RS-	gend text: Ig on which sublayer i ponse Status C P62 Huawei Techi mment Status A issarily wordy. The reference more than a note. ates within the dotted of the Inverse RS-FEC FEC optional states a	<i>L2</i> nologies Canada erence figure clea line of Figure 91- C sublayer."	# 33 <i>bucket</i> rly indicates the 8, and transition A,	Suggested Chang "The P service throug 152) is Response ACCEI While a immed can ne The cu implem Chang "The P instant Annex	Remedy e the paragraph CS may be conre- interface (see A h Annex 135G) ir a client of the Fi PT IN PRINCIPL a 100GAUI interf liately adjacent to ver be a physica urrent text referen- nentation, but C2 e the paragraph CS or Inverse R iation of the PMA 83E) in which ca	to: nected to the SC- Annex 83A, Anney n which case a PI EC service interfa <i>Response Stat</i> E. face may exist ab o a SC-FEC subla il instantion of any neces the C2M Ann C should not be o to: S-FEC may be co A service interface ase a PMA (see A	FEC using a (a 83B, Anne) MA (see Anno (ce." us C byer and hen (Clause 153 hex83x which excluded. by charted to t (see Anne)	n optional insta < 83D, Annex 8 lex 83) or Inver se RS-FEC su ce is irrelevant B interface. n is most proba the SC-FEC us < 83A, Annex 8	3E, and Annex 135D rse FEC (see Clause blayer, it is never t for this clause since it able for an ing an optional 3B, Annex 83D, and

C/ 153 SC 153.2.3.2.4 P84	L 22 # 36		C/ 153 SC	153.3.2.3.1	P 96	L 25	# 39
Brown, Matt Huawei Technologi	ies Canada		Brown, Matt		Huawei Techr	ologies Canada	
Comment Type E Comment Status A		bucket	Comment Type	E	Comment Status A		
Need to spell out first instance of each acronym within ea SuggestedRemedy	ach Clause.			rases. Howe	with a period not a comma ever, since this is defining		
Change start of sentece to:	"		SuggestedRemed	lv			
"The generic mapping procedure (GMP) mapper inserts."				-	ntences to a lettered list.		
Response Response Status C ACCEPT.			Response		Response Status C		
			ACCEPT IN F	RINCIPLE.	,		
C/ 153 SC 153.3.2.1 P95	L 20 # 37		It isn't 3 steps	, but two, wi	th a 3rd sentence clarifying	g how the secon	d step is carried out.
Brown, Matt Huawei Technologi	jies Canada			e suggested	remedy with editorial licen	se.	
Comment Type E Comment Status A		bucket	C/ 154 SC	154.1	P 100	L10	# 40
Figure 153-9 is the 100GBASE-ZR PMA.			Brown, Matt		Huawei Techr	ologies Canada	
SuggestedRemedy			Comment Type	Е	Comment Status A		
Change "100GBASE-R" to "100GBASE-ZR".					of DP-DQPSK the hypher		
			at first use in brackets.	clause the s	pelled out version should o	occur first followe	d by the acronym in
Response Response Status C							
Response Response Status C ACCEPT.			SuaaestedRemea	lv			
ACCEPT.	1 44 # 20		SuggestedRemed Change:	ly			
ACCEPT.	L 44 # <u>38</u>		Change: DP-DQPSK (o	-	tion - differential quadratu	^r e phase shift ke	ying) format
ACCEPT. Cl 153 SC 153.3.2.2.2 P95 Brown, Matt Huawei Technologi		buokat	Change: DP-DQPSK (o to:	dual polariza		•	, ,,
ACCEPT. Cl 153 SC 153.3.2.2.2 P95 Brown, Matt Huawei Technologi Comment Type E Comment Status A	jies Canada	bucket	Change: DP-DQPSK (d to: "dual-polariza	dual polariza	ial quadrature phase shift	•	, ,,
ACCEPT. <i>CI</i> 153 SC 153.3.2.2.2 <i>P</i> 95 Brown, Matt Huawei Technologi <i>Comment Type</i> E <i>Comment Status</i> A Need to spell out first instance of each acronym within ea	jies Canada	bucket	Change: DP-DQPSK (o to:	dual polariza		•	, ,,
ACCEPT. <i>Cl</i> 153 SC 153.3.2.2.2 <i>P</i> 95 Brown, Matt Huawei Technologi <i>Comment Type</i> E <i>Comment Status</i> A Need to spell out first instance of each acronym within ea <i>SuggestedRemedy</i>	jies Canada	bucket	Change: DP-DQPSK (d to: "dual-polariza <i>Response</i> ACCEPT IN F	dual polariza tion different PRINCIPLE.	ial quadrature phase shift	keying (DP-DQF	PSK)"
ACCEPT. <i>CI</i> 153 SC 153.3.2.2.2 <i>P</i> 95 Brown, Matt Huawei Technologi <i>Comment Type</i> E <i>Comment Status</i> A Need to spell out first instance of each acronym within ea	jies Canada ach Clause.	bucket	Change: DP-DQPSK (d to: "dual-polariza <i>Response</i> ACCEPT IN F	dual polariza tion different PRINCIPLE.	ial quadrature phase shift Response Status C	keying (DP-DQF	PSK)"
ACCEPT. Cl 153 SC 153.3.2.2.2 P95 Brown, Matt Huawei Technologi Comment Type E Comment Status A Need to spell out first instance of each acronym within ea SuggestedRemedy Change start of sentence to:	jies Canada ach Clause.	bucket	Change: DP-DQPSK (d to: "dual-polariza <i>Response</i> ACCEPT IN F	dual polariza tion different PRINCIPLE.	ial quadrature phase shift Response Status C	keying (DP-DQF	PSK)"

C/ 154 SC 154	4.1	P 101	L 23	# 41	C/ 154	SC 154.2.		P 102	L 25	# 43
Brown, Matt	ł	Huawei Techn	nologies Canada		Brown, Mat	tt		Huawei Tech	nologies Canada	
Comment Type E	Comment Si	tatus A			Comment	Туре Т	Comment	Status A		
•	the legend list should	be in alphanu	meric order. Also	o, SC-FEC is missing	The pa	rameter "rx_sy	/mbol" is never o	defined in this	Clause.	
from legend.					Suggested	Remedy				
SuggestedRemedy					Define	"rx_symbol".				
Move RS-FEC to Add SC-FEC afte					Response		Response S	Status C		
Response	Response St	tatus C			ACCE	PT IN PRINCI	LE.			
ACCEPT IN PRI The current orde	INCIPLE. er is similar to in-force o	clauses, for in	stance 140.				' is consistent w sary in clause 1		rce clauses, for in	stance 121, therefore
by	ED-SOLOMON FORW		CORRECTION"		"DQPS to "DQPS	SK symbol stre	treams"		F	
C/ 154 SC 154	4.1	P 101	L 26	# 42		nally in 154.5. K symbol stre	2 change the two ams"	o instances of		
Brown, Matt	I	Huawei Techr	nologies Canada		to	•				
Comment Type T	Comment St	tatus A			"DQPS	K tx_symbol s	treams"			
	the legend list note sa			F. The introduction	C/ 154	SC 154.3.2		P 102	L 50	# 44
3	E-ZR is for transmission	n across a bla	ack link.		Brown, Mat	tt		Huawei Tech	nologies Canada	
SuggestedRemedy					Comment	Туре Е	Comment	Status A		Bucke
Change "PMD F to	OR SINGLE MODE FI	BER 80 km"			Editor's	s note should b	be in prescribed	format (not red	l italic text).	
"PMD for BLACH	< LINK"				Suggested	Remedy				
or "PMD for DWDM or similar	/ BLACK LINK"				Single-		using proper for ditor's note" tabl use 154.			
_	Response St	tatus C			Response		Response S	Status C		
Response	INCIPLE.				•	PT IN PRINCIP				

C/ 154	SC 154.5.3		P 104	L 51	# <u>4</u> 5	C/ 45	SC	45.2.1.18	6am	P 45	L10	# <u>4</u> 7
Brown, Ma	att		Huawei Techr	nologies Canada		Bruckman	, Leon			Huawei		
Comment	Туре Т	Commen	t Status A		Bucket	Comment	Туре	Е	Comme	ent Status A		Bucke
				Since this is refe one of the pola	erring to a phase rization states.				aragraph is mple 45.2.1		one used in sim	ilar paragraphs in this
Suggested	dRemedy					Suggested	dRemec	dy				
Chang	ge "DQPSK 100	Gb/s signal" t	to "DQPSK 50 G	ib/s signal".			<i>,</i>	0		and 1.2279 are us	ed to read the 32	2-bit counter value, the
Response		Response	Status C			registe	er 1.227	78 is read	first,"			
	PT IN PRINCIPI "100 Gb/s"	LE.						registers 78 is read		1.2279 are used	to read the 32-bi	t counter value,
C/ 45	SC 45.2.1.18	36al	P 44	L 42	# 46	Response	•		Respon	se Status C		
Bruckman,	leon		Huawei			ACCE	PT IN F	PRINCIPL	.E.			
	51	aragraph is d		one used in simi	<i>Bucket</i> ilar paragraphs in this	1.2278	8, 1.227	79 are use	ed to read t		it counter." to rea	ice from "Registers ad "Registers 1.2278
Suggested	dRemedy					C/ 45	SC	45.2.1.18	6an	P 45	L 29	# 48
					2-bit counter. When	Bruckman	, Leon			Huawei		
•	ers 1.2276 and 1 d first,",	.2277 are use	ed to read the 32	2-bit counter valu	e, the register 1.2276	Comment	Туре	Е	Comme	ent Status A		Bucke
With: "	"Registers 1.227 ers 1.2276 and 1				32-bit counter. When e, register 1.2276 is		nent, se	e for exa	aragraph is mple 45.2.′		one used in sim	ilar paragraphs in this
_	,	Deenenee	Status C					<i>,</i>	,	, ,	2283 are used to	read the 64-bit counter
Response ACCE		Response	Status C			value,	the reg	jister 1.22	80 is read	first, "		
ACCE						counte	er. Whe	en register	s 1.2280, 1			ad the value of a 64-bit ed to read the 64-bit

Response

ACCEPT.

counter value, register 1.2280 is read first,"

Response Status C

C/ 45 SC 45.2.1.1	86ao P46	L 2	# 49	C/ 153 S	C 153.2.3.2.4	4 P 8 4	L 43	# <u>5</u> 1
Bruckman, Leon	Huawei			Bruckman, Leo	n	Huawei		
Comment Type E	Comment Status A		Bucket	Comment Type	TR	Comment Status A		bucket
The language in this p document, see for exa	paragraph is different from the	one used in sim	ilar paragraphs in this	The last 3 b	oytes of the F	AS are 0x24, while ITU-T G	.709 defines the	em as 0x28
,	ampic 40.2.1.100au			SuggestedRem	edy			
SuggestedRemedy	tore 4 0004 4 0005 4 0000 a		and to used the CA hit			of the FAS to 0x28 to make	them consisten	nt with the OTU4 defined
	ters 1.2284, 1.2285, 1.2286, a gister 1.2284 is read first,"	anu 1.2207 are u	sed to read the 64-bit	in ITU-T G.	709			
-	-			Response		Response Status C		
	s 1.2284, 1.2285, 1.2286, and r 1.2284 is read first,"	1.2287 are used	I to read the 64-bit	ACCEPT IN Change		Ξ.		
-					1111 0110	1111 0110 0010 0100 0010 (0100 0010 0100)"
Response	Response Status C			to				
ACCEPT IN PRINCIF	LE.			"1111 0110	1111 0110	1111 0110 0010 1000 0010	1000 0010 1000)"
	ording "Registers 1.2284, 1.22		87 are used to read the	C/ 153 S	C 153.2.3.2.	7 P88	L 5	# 52
	iter. When registers 1.2284, 1 to read the 64-bit counter valu		2284 is road first " to	Bruckman, Leo	n	Huawei		
	34, 1.2285, 1.2286, and 1.228			Comment Type		Comment Status A		
counter. When registe	ers 1.2284, 1.2285, 1.2286, ar					LLM = 0 position shall be ali	aned with MFAS	S = 0 position everv
counter value, registe	er 1.2284 is read first,"			3840 (the le	east commor	n multiple of 240 and 256) fra	ame periods." Tl	he LLM is the 240-
C/ 80 SC 80.1.5	P 49	L 6	# 50			4.4 interface as noted in sec that this means the LLM s		
Bruckman, Leon	Huawei					0, otherwise the requirement		
Comment Type E	Comment Status D			We may no	t be able to r	reuse the OTN HW, or have	interoperability	issues with such HW.
Missing the "R"				SuggestedRem	edy			
SuggestedRemedy				There are 2				
•••	-Z" to "100GBASE-ZR"					:: " This counter 0 position shorts on the second s		
0						ng: "ITU-T G.709 Annex C re		
Proposed Response	Response Status Z					position every 3840 (the leas		
REJECT.						e to TBD" and send a liaision he need of this synchronizat		
This comment was W	/ITHDRAWN by the comment	er.		require it	s regarding t	ne need of this synonionizat		
WITHDRAWN				Response		Response Status C		
				ACCEPT IN		Ξ.		
						entence in the 1st paragrap		
						ition shall be aligned with MI and 256) frame periods.	-AS = 0 position	n every 3840 (the least
				common m		and 200) name penous.		

C/ 153	SC 153.2.3.3.2	P 88	L 53	# <u>5</u> 3
Bruckman	, Leon	Huawei		
Comment	Type TR	Comment Status A		buci
The la it as 0		s indicated as carrying the	value 0x24, whi	e ITU-T G.709 defines
Suggested	dRemedy			
Chang T G.70		"0010 1000" to make it co	nsistent with the	OTU4 defined in ITU-
	09	"0010 1000" to make it con Response Status C	nsistent with the	OTU4 defined in ITU-
T G.70 Response	09		nsistent with the	OTU4 defined in ITU- # <u>5</u> 4
T G.70 Response ACCE	59 PT. SC 153.2.4.1.1	Response Status C		

ITU-T G.709 does not require to verify the 240 counter for FAS alignment/alignment loss. Note that if the OTU4-like signal does not include a 240 counter it will probably include the sixth FAS byte value that passes this test, so it does not help in detecting a misconnection to a non 100GBASE-ZR signal.

SuggestedRemedy

Remove requirement to verify the 240 counter from the fas valid variable.

Response Status C

Add a definition for lane ID alignment/alignment loss similar to the one found in ITU-T G.798 section 8.2.6.2: "A new value of the logical lane marker is accepted when in five consecutive 16320-byte periods the same value is present after modulo 20 operation of the LLM byte value, and the recovery process will enter the in-recovery (IR) state. In the IR state, recovery will be lost and the out-of-recovery (OOR) state be entered, when in each of five consecutive 16320 byte periods a value is received that is not the same as the accepted logical lane marker value. During an OOR period, the last accepted LLM value has to be maintained as lane marker value."

Response

REJECT.

The G.798 process is an "add on" to a base process that acquires frame alignment on a single-lane interface, adding a secondary process that acquires the lane number. In the context of Ethernet, the lane lock is only used for this particular multi-lane interface, and hence it is described more like an AM lock process which requires you see markers for the same lane in multiple occurrences to achieve lock. The current single stage frame alignment process as described requires validation of the 240 counter.

The possible merits of changing to a two stage frame alignment process will be explored in an ad hoc.

C/ 153	SC 153.2.5.1	P 93	L 34	# <u>5</u> 5
Bruckman	, Leon	Huawei		
<i>Comment</i> Spare		Comment Status A		bucket
Suggestee Remo	dRemedy we the spare line			
Response ACCE		Response Status C		
C/ 153	SC 153.3.2.2.	1 P95	L 38	# 56
Bruckman	, Leon	Huawei		
Comment		Comment Status A		bucket

All through section 153 the rates are defined using the exact values, e.g. $(255/227) \times 24.8832$ GBd. Then in section 154 we start using the approximate value 27.9525 GBd. Refer also to section 153.3.1 (page 94 line 48) to see an example of linking the exact and approximate values.

SuggestedRemedy

Add the approximate rate to the text as follows: "...a signaling rate of (255/227) × 24.8832 Gb/s ±20 ppm (~27.9525 GBd)."

Response ACCE		Response Status C		
C/ 154	SC 154.5.2	P 104	L 41	# 57
Bruckmar	n, Leon	Huawei		
Comment	Туре Е	Comment Status A		Bucket

In this section the text is: "Table 154-4 contains the mapping." but in the following section (same page line 51) similar text reads: "Table 154-4 shows the mapping."

SuggestedRemedy

Make the two sentences consistent by using either "contains" or "shows" in both sentences.

Response Response Status C

ACCEPT IN PRINCIPLE. Implement proposed remedy with editorial license.

C/ 154	SC 154.5.4	P 105	L16	# <u>5</u> 8	C/ 153	SC 153.2.4.4	P 93	L3	3	# 60
Bruckman, L	Leon	Huawei			Bruckman,	, Leon	Huawei			
Comment Ty	ype TR	Comment Status A			Comment	Туре Т	Comment Status	4		
		ll be a global indicator of th			Undefi	ined variable in F	igure 153-8: "fas_statu	ıs"		
		SIGNAL_DETECT paramet ble 154-5. The PMD receiv			Suggested	Remedy				
		signal is being received."	er is not required	to verify whether a		e "fas_status"				
The second			sianalan bathla		Response		Response Status	C		
		erify that there is an optical at defines the average inpu			ACCE	PT IN PRINCIPL	•			
	er polarization).	at definee the average inpe		nolo olghai, not por	Chang	je "fas_status" to	"fas_align_status"			
SuggestedR	Remedy				C/ 153	SC 153.2.4.4	P 93	L6	3	# 61
		er is required to be monitor	ed per lane (per l	polarization), then	Bruckman,		Huawei		•	
define it	t that way in Tabl	le 154-9.			Comment		Comment Status			
If not, th	nen change the S	SIGNAL DETECT definition	to: "SIGNAL DI	ETECT shall be a			igure 153-8: "all_fas_v			
		esence of optical signals."					iguic 100-0. all_145_1	and		
Response		Response Status C			Suggested					
Monitori		•	on of the type of f	fault at TP3 to identify	My sug are co	nsidered to be ali	n variable that is set to igned when fas_lock< lane, and each FEC la	is true for all	l x, frame a	alignment has beer
Monitorii interrupt Remove	ing the composit tion of the optica	e signal allows the indication			My sug are co acquire	ggestion: Boolear nsidered to be ali ed on each FEC le is set to false.	igned when fas_lock<>	<> is true for all ne has a uniqu	l x, frame a	alignment has beer
Monitorii interrupt Remove With edi	ing the composit tion of the optica e in 154.5.4 the s litorial license.	E. e signal allows the indication il signal of the link. suggestion that each incom	ing polarization is	s monitored separately.	My sug are coi acquire variabl <i>Response</i> REJEC	ggestion: Boolear nsidered to be ali ed on each FEC le is set to false. CT.	igned when fas_lock≺ lane, and each FEC la <i>Response Status</i> (<> is true for all ne has a uniqu C	l x, frame a	alignment has beer
Monitorii interrupt Remove With edi	ing the composit tion of the optica e in 154.5.4 the s	E. e signal allows the indication I signal of the link.			My sug are coi acquire variabl <i>Response</i> REJEC	ggestion: Boolear nsidered to be ali ed on each FEC le is set to false. CT.	igned when fas_lock<> lane, and each FEC la	<> is true for all ne has a uniqu C	l x, frame a	alignment has beer
Monitorii interrupt Remove With edi X 154 Bruckman, L	ing the composit tion of the optica e in 154.5.4 the s litorial license. SC 154.5.4 Leon	E. le signal allows the indication il signal of the link. suggestion that each incom P 105 Huawei	ing polarization is	s monitored separately. # 59	My sug are coi acquire variabl <i>Response</i> REJEC	ggestion: Boolear nsidered to be ali ed on each FEC le is set to false. CT.	igned when fas_lock<> lane, and each FEC la <i>Response Status</i> _status" already has th	<> is true for all ne has a uniqu C	l x, frame a le lane nur	alignment has beer
Monitorii interrupt Remove With edi 7 154 ruckman, L comment Ty	ing the composit tion of the optica e in 154.5.4 the s litorial license. SC 154.5.4 Leon Type E	E. The signal allows the indication of the link. Suggestion that each incom P 105	ing polarization is	s monitored separately.	My sug are con acquire variabl <i>Response</i> REJEO The va	ggestion: Boolear nsidered to be ali ed on each FEC le is set to false. CT. ariable "fas_align_ SC 153.2.3.3 .	igned when fas_lock<> lane, and each FEC la <i>Response Status</i> _status" already has th	<pre>k> is true for all ne has a uniqu C nis meaning. L4</pre>	l x, frame a le lane nur	alignment has beer mber. Otherwise, th
Monitorii interrupt Remove With edi C/ 154 Bruckman, L Comment Ty Unneces	ing the composit tion of the optica e in 154.5.4 the s litorial license. SC 154.5.4 Leon Type E essary word "for"	E. le signal allows the indication il signal of the link. suggestion that each incom P 105 Huawei	ing polarization is	s monitored separately. # 59	My sug are co acquire variabl <i>Response</i> REJEC The var <i>CI</i> 153 Bruckman,	ggestion: Boolear nsidered to be ali ed on each FEC le is set to false. CT. ariable "fas_align_ SC 153.2.3.3 .	igned when fas_lock<> lane, and each FEC la <i>Response Status</i> _status" already has th .1 <i>P</i> 88 Huawei	<pre>k> is true for all ne has a uniqu C nis meaning. L4</pre>	l x, frame a le lane nur	alignment has beer mber. Otherwise, th
Monitorii interrupt Remove With edi C/ 154 Bruckman, L Comment Ty Unneces SuggestedR	ing the composit tion of the optica e in 154.5.4 the s litorial license. SC 154.5.4 Leon Type E essary word "for" Remedy	E. The signal allows the indication of the link. Suggestion that each incom P105 Huawei Comment Status A	ing polarization is	s monitored separately. # 59	My sug are co acquire variabl <i>Response</i> REJEC The va <i>Cl</i> 153 Bruckman, <i>Comment</i>	ggestion: Boolean nsidered to be ali ed on each FEC le is set to false. CT. ariable "fas_align_ SC 153.2.3.3 . , Leon <i>Type</i> TR	igned when fas_lock<> lane, and each FEC la <i>Response Status</i> _status" already has th .1 <i>P</i> 88 Huawei <i>Comment Status</i> I	<pre>k> is true for all ne has a uniqu C nis meaning. L4 </pre>	I x, frame a ue lane nur 13	alignment has beer mber. Otherwise, th # <u>62</u>
Monitorii interrupt With edi C/ 154 Bruckman, L Comment Ty Unneces SuggestedR	ing the composit tion of the optica e in 154.5.4 the s litorial license. SC 154.5.4 Leon Type E essary word "for"	E. The signal allows the indication of the link. Suggestion that each incom P105 Huawei Comment Status A	ing polarization is	s monitored separately. # 59	My sug are co acquire variabl <i>Response</i> REJEC The va <i>CI</i> 153 Bruckman, <i>Comment</i>	ggestion: Boolear nsidered to be ali ed on each FEC le is set to false. CT. ariable "fas_align_ SC 153.2.3.3 . , Leon <i>Type</i> TR ame start positior	igned when fas_lock<> lane, and each FEC la <i>Response Status</i> _status" already has th .1 <i>P</i> 88 Huawei	<pre>k> is true for all ne has a uniqu C nis meaning. L4 R mber shall be r</pre>	I x, frame a ue lane nur 13 maintainec	alignment has beer mber. Otherwise, th # <u>62</u>
Monitorin interrupt With edi C/ 154 Bruckman, L Comment Ty Unneces SuggestedR	ing the composit tion of the optica e in 154.5.4 the s litorial license. SC 154.5.4 Leon Type E essary word "for" Remedy	E. The signal allows the indication of the link. Suggestion that each incom P105 Huawei Comment Status A	ing polarization is	s monitored separately. # 59	My sug are co acquire variabl <i>Response</i> REJEC The va <i>CI</i> 153 Bruckman, <i>Comment</i>	ggestion: Boolear nsidered to be ali ed on each FEC le is set to false. CT. ariable "fas_align_ SC 153.2.3.3. , Leon Type TR ame start position o avoid problems	igned when fas_lock<> lane, and each FEC la <i>Response Status</i> 	<pre>k> is true for all ne has a uniqu C nis meaning. L4 R mber shall be r</pre>	I x, frame a ue lane nur 13 maintainec	alignment has beer mber. Otherwise, th # <u>62</u>
Monitorin interrupt With edi C/ 154 Bruckman, L Comment Ty Unneces SuggestedR Remove	ing the composit tion of the optica e in 154.5.4 the s litorial license. SC 154.5.4 Leon Type E essary word "for" Remedy e the unnecesary	E. e signal allows the indication il signal of the link. suggestion that each incom P 105 Huawei Comment Status A / "for"	ing polarization is	s monitored separately. # 59	My sug are con acquire variabl <i>Response</i> REJEC The va <i>CI</i> 153 Bruckman, <i>Comment</i> Ioss to <i>Suggested</i> Add se	ggestion: Boolear nsidered to be ali ed on each FEC le is set to false. CT. ariable "fas_align_ SC 153.2.3.3. , Leon Type TR ame start position o avoid problems	igned when fas_lock<> lane, and each FEC la <i>Response Status</i> _status" already has th .1 <i>P</i> 88 Huawei <i>Comment Status</i> I n and the FEC lane nu when loss of alignmer me start position and f	<pre>k> is true for all ne has a unique c nis meaning. L4 R mber shall be r t happens due</pre>	I x, frame a ue lane nur 13 13 maintainec to bit erro	alignment has beer mber. Otherwise, th # 62 d during alignment rs.
Monitorii interrupt With edi C/ 154 Bruckman, L Comment Ty Unneces SuggestedR Remove Response	ing the composit tion of the optica e in 154.5.4 the s litorial license. SC 154.5.4 Leon Type E essary word "for" Remedy e the unnecesary	E. e signal allows the indication il signal of the link. suggestion that each incom P 105 Huawei Comment Status A / "for"	ing polarization is	s monitored separately. # 59	My sug are con acquire variabl <i>Response</i> REJEC The va <i>CI</i> 153 Bruckman, <i>Comment</i> Ioss to <i>Suggested</i> Add se	ggestion: Boolean nsidered to be ali ed on each FEC le is set to false. CT. ariable "fas_align_ SC 153.2.3.3. , Leon <i>Type</i> TR ame start position o avoid problems <i>Remedy</i> entence: "The fran loss of alignmen	igned when fas_lock<> lane, and each FEC la <i>Response Status</i> _status" already has th .1 <i>P</i> 88 Huawei <i>Comment Status</i> I n and the FEC lane nu when loss of alignmer me start position and f	<pre>k> is true for all ne has a unique c nis meaning. L4 R mber shall be r t happens due the FEC lane n</pre>	I x, frame a ue lane nur 13 13 maintainec to bit erro	alignment has beer mber. Otherwise, th # 62 d during alignment rs.

C/ 153	SC	153.2.4.2	P 91	L17	# <u>6</u> 3	C/ 153	SC	153.2.4.1.1	P 90	L 34	# <u>6</u> 5
Bruckmar	n, Leon		Huawei			Bruckman	, Leon		Huawei		
Commen	t Type	TR	Comment Status R			Comment	Туре	Е	Comment Status A		bucke
FAŠ Also,	known s	equence. ng to ITU-T	ndent on first_fecl and curre G.798 similar interfaces, it	_		been a Suggested	acquire <i>IReme</i> o	d on each F <i>dy</i>	tween: "fas_lock <x> is tru EC lane" ? nt has been acquired on e</x>		rame alignment has
Suggeste	dReme	dy						Ū	·		
		—	true if fas_valid is true for fir	-		Response ACCE			Response Status C		
		atch is true ibed in 153	if the third, fourth and fifth c .2.3.2.4,"	octets match the	known bits of the	C/ 153	SC	153.2.1	P 82	L10	# 66
Response	е		Response Status C			Bruckman	, Leon		Huawei		
indep As th the m See t	endent is proce nanner o	of acquiring ss is only u of AM lock, onse to cor	798 uses a secondary proc g frame alignment in the firsi sed for this particular multi- where the lock to a particular nment 54 concerning the po	t place. lane interface, it ir lane occurs in	is described more in one step.	pre-FE Suggested Add pe	ign_sta EC high <i>IReme</i> o ersister	atus is false i n BER. Acco <i>dy</i> ncy check of	if any lane looses alignme rding to the text in this cas fec_align_status before o tency check to be in line v	se receiver may b hanging SIGNAL	e impaired frequently. OK to not OK.
C/ 153	SC	153.2.4.1.	I P90	L 32	# 64	Response			Response Status C	Marino-1 0.790	
Bruckmar	n, Leon		Huawei			REJE			Response Status C		
S <i>uggeste</i> Add s	re is the edRemed	<i>dy</i> of fec_aligni	Comment Status R ent_valid variable set ? It do ment_valid to Figure 153-8, N ACQUIRED state			The be the SC fas_ba The co	ehavior C-FEC s ad_cou ommen	synchroniza nt = 5, not w iter may be f	nt with other elements of the tion state diagram in Figur when 3ms have transpired. hinking delays between d Std 802.3. The value of	e 153-7, which lo	oses lock when s, which are not a
Response			Response Status C								
"Bool So af	state dia lean vari fter all tw	iable that is venty FEC	er-lane process. This variat set to true if all FEC lanes anes are aligned, this variat es (e.g., 82, 91)	are aligned".							

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 Z/withdrawn SORT ORDER: Comment ID

C/ 153	SC 153.2.4.1.1	P 90	L15	# <u>6</u> 7	C/ 153	SC	153.2.4.2	P 91	L 14	# 68
Bruckman,	Leon	Huawei			Bruckman	, Leon		Huawei		
Comment	Туре Т	Comment Status R			Comment	Type	т	Comment Status R		

The alignment scheme can be simplified. Also the scheme is not consistent with similar ITU-T G.798 alignment schemes for similar signals

SuggestedRemedy

Replace: "Boolean variable that is set to true if the received 6-octet sequence is a valid frame alignment signal. The frame alignment signal consists of 40 known bits and 8 variable bits. The sequence is considered to be valid if four of the first five octets match the known bits of the pattern described in 153.2.3.2.4, and the 6th octet represents a numerical value in the range 0 to 239 with the most-significant bit transmitted first.

With: "Boolean variable that is set to true if the received 5-octet sequence is a valid frame alignment signal. The frame alignment signal consists of 40 known bits. The sequence is considered to be valid if a subset of 4 octets match the known bits of the pattern described in 153.2.3.2.4."

Response

Response Status C

REJECT.

The proposed remedy is not consistent with the rest of the text, which described the FAS as a 6-octet value rather than 5-octets. The text as written reflects the fact that when striping across lanes, the final octet becomes a lane identifier and hence becomes variable. But it is still part of the 6-octet FAS.

See the response to comment 54 concerning the possible use of a two stage frame alignment process.

The alignment loss scheme can be simplified. Also the scheme is not consistent with similar ITU-T G.798 alignment schemes for similar signals.

SuggestedRemedy

Replace: "This function compares the values of first_fecl and current_fecl to determine if a valid frame alignment sequence has been detected and returns the result of the comparison using the variable fas_match. fas_match is true if the third, fourth and fifth octets match the known bits of the pattern described in 153.2.3.2.4, and the 6th octet of first_fecl (interpreted with the most significant bit transmitted first) modulo 20 is equal to the 6th octet of current_fecl (interpreted with the most significant bit transmitted first) modulo 20. Otherwise, fas_match is false."

With: "This function compares the values of first_fecl and current_fecl to determine if a valid frame alignment sequence has been detected and returns the result of the comparison using the variable fas_match. fas_match is true if the third, fourth and fifth octets match the known bits of the pattern described in 153.2.3.2.4. Otherwise, fas_match is false."

Response Status C

REJECT.

Response

The referenced G.798 process was defined as an "add on" to a base frame alignment process that was developed long before to deal with single-lane interfaces and adapted later for multi-lane interfaces, ignoring the variable bits entirely, then extracting the lane number from the variable bits and making the assumption that it matched while you were acquiring lock.

The process in this document deals only with this multi-lane interface, and is modeled after how alignment marker lock is acquired: not only must any fixed bits match, but the variable bits must match the same lane to lock onto that lane.

See the response to comment 54 concerning the possible use of a two stage frame alignment process.

C/ 153	SC 153.2.4.4	P 92	L13	# 69	C/ 45	SC 45.2.1.18	36ab.7	P 37	L 25	# <u>7</u> 1
Bruckman,	Leon	Huawei			Trowbridge	e, Steve		Nokia		
Comment [®] There	51	Comment Status A			<i>Comment</i> It is no	51		ent Status A nly the value "1" is	supported.	
Response ACCEI Add th transiti	e FAS_COMPAR PT IN PRINCIPLE e FAS_COMPAR	E function to the FAS_CC OMPARE to be "fas_mate	MPARE state. Ch		are ma since t <i>Response</i> ACCE	n explanatory "N andatory in the c hese states are PT IN PRINCIPI	ontext of Cl always sup <i>Respons</i> LE		ore the value of t 152 implementa	context of Clause 91 his bit is fixed at 1, tions."
/ 153	SC 153.2.4.1.	1 <i>P</i> 90	L 37	# 70	C/ 153	SC 153.2.3.4	1	P 85	L 6	# 72
ruckman,	Leon	Huawei			Trowbridge	e, Steve		Nokia		
comment [·]	Type T	Comment Status R			Comment	Туре Е	Comme	ent Status A		
		iable required ? It will alwa			Unclea	ar Wording				
		used in the 2_GOOD state MDIO indication.	to set the value of	the	Suggested					
Response	ve the fec_lane va	ariable and replace fec_lar Response Status C	ne with first_fecl in	th 2_GOOD state.	differe distrib algorit	nce between the ution algorithm"	e payload ar to "GMP is a date an arb	nd the space in wh a generic mechan	nich it is carried t ism that uses a	rary signaling rate hat uses a sigma/delta sigma/delta distribution ween a payload and th
REJE(- · ·	ight have been done with	fewer variables th	s precisely aligns with	Response		Respons	se Status C		
the var curren	riables defined for t_fecl which are c DIO-mapped FEC	r the same purpose in clau compared while acquiring I _lane_mapping <x>) are s</x>	ise 91. You have a ock, and fec_lane	first_fecl and (and more importantly,	ACCE	PT.	·			

CI 80	SC 80.1.4	P 56	L 32	# <u>7</u> 9	C/ 154	SC 154.3.2		P 102	L 51	# 81	
D'Ambrosi	a, John	Futurewei, U	.S. Subsidiary of	Huawei	D'Ambrosi	a, John		Futurewei, U.	S. Subsidiary of	Huawei	
Comment	Туре Е	Comment Status A			Comment	Туре Е	Comment	Status A		E	Bucke
100Gb	o/s PHY using 10	BASE-ZR states 00GBASE-R encoding over c) km (see Clause154). There			editor's	s note.	ditional informa	tion on skew va	riation to be add	ded." appears to be	e an
	in the draft	Kill (see Glause 154). There		terminology wbw	Suggested	,					
Suggested	Remedy				•	e noted statem					
100G		00GBASE-R encoding over a I, with reach up to at least 80				PT IN PRINCIF		Status C			
Response		Response Status C			C/ 154	SC 154.3.2		P 103	L10	# 82	
ACCE	PT IN PRINCIP	LE.			D'Ambrosi	a, John		Futurewei, U.S	S. Subsidiary of	Huawei	
a DWI using	DM system, with 100GBASE-R ei	100Gb/s PHY using 100GBA reach up to at least 80 km (ncoding over one DWDM cha st 80 km (see Clause 154)"	see Clause154)"	to read "100Gb/s PHY	"89.7.2	omment does n 2 needs to be u		cope for 802.3ct ti-lane implemen	ntations"	ł	
									cope for 002.00		
C/ 1	SC 1.5	P 22	L 50	# 80	Suggested					·	
					Suggested						
D'Ambrosi	a, John		L 50 .S. Subsidiary of		Suggested	<i>IRemedy</i> noted commer					
D'Ambrosi Comment	a, John <i>Type</i> E	Futurewei, U			Suggested delete Response ACCE	IRemedy noted commer PT IN PRINCIF	t <i>Response</i> PLE.				
D'Ambrosi Comment SC-FE Suggested	a, John <i>Type</i> E EC is not defined <i>IRemedy</i> bbreviation to 1.	Futurewei, U <i>Comment Status</i> A d in abbreviations 5			Suggested delete Response ACCE Remov Include are TE	IRemedy noted commer PT IN PRINCIF ve the reference e an editor's no	t <i>Response</i> PLE. e to 89.7.2. te stating that t il license) to tal	<i>Status</i> C he requirement ke account of th	s for skew and s	skew variation at TF are 2 logical stream	
D'Ambrosi Comment SC-FE Suggestec Add al SC-FE Response	a, John <i>Type</i> E EC is not defined <i>Remedy</i> bbreviation to 1.3 EC Staircase	Futurewei, U Comment Status A d in abbreviations 5 FEC Response Status C			Suggested delete Response ACCE Remov Include are TE	IRemedy noted commer PT IN PRINCIF ve the reference e an editor's no 3D (with editoria	t <i>Response</i> PLE. e to 89.7.2. te stating that t il license) to tal	<i>Status</i> C he requirement ke account of th	s for skew and s	skew variation at TF are 2 logical stream	
D'Ambrosi Comment SC-FE Suggestec Add al SC-FE Response	a, John <i>Type</i> E EC is not defined <i>Remedy</i> bbreviation to 1.3 EC Staircase	Futurewei, U Comment Status A d in abbreviations 5 FEC Response Status C			Suggested delete Response ACCE Remov Include are TE each f	IRemedy noted commer PT IN PRINCIF ve the reference e an editor's no BD (with editoria rom two incomi SC 154.6	t <i>Response</i> PLE. e to 89.7.2. te stating that t il license) to tal	Status C he requirement ke account of th s are skewed. P107	s for skew and s e fact that there	skew variation at TF are 2 logical stream # <u>83</u>	
D'Ambrosi Comment SC-FE Suggested Add al SC-FE Response ACCE	a, John <i>Type</i> E EC is not defined <i>Remedy</i> bbreviation to 1.3 EC Staircase	Futurewei, U Comment Status A d in abbreviations 5 FEC Response Status C LE.			Suggested delete Response ACCE Remo Include are TE each fr	IRemedy noted commen PT IN PRINCIF ve the reference e an editor's no BD (with editoria rom two incomi SC 154.6 a, John	t <i>Response</i> PLE. e to 89.7.2. te stating that t il license) to tal	Status C he requirement ke account of th s are skewed. P 107 Futurewei, U.3	s for skew and s e fact that there <i>L</i> 27	skew variation at TF e are 2 logical stream # <u>83</u> Huawei	
D'Ambrosi Comment SC-FE Suggestec Add al SC-FE Response ACCE	a, John <i>Type</i> E EC is not defined <i>Remedy</i> bbreviation to 1.3 EC Staircase	Futurewei, U Comment Status A d in abbreviations 5 FEC Response Status C LE.			Suggested delete Response ACCE Remov Include are TE each fr C/ 154 D'Ambrosi Comment	IRemedy noted commen PT IN PRINCIF ve the reference e an editor's no BD (with editoria rom two incomi SC 154.6 a, John <i>Type</i> E	t Response PLE. e to 89.7.2. te stating that t I license) to tal ng polarization: Comment	Status C the requirement ke account of th s are skewed. P 107 Futurewei, U.3 Status A	s for skew and s e fact that there <i>L</i> 27	skew variation at TF are 2 logical stream # <u>83</u> Huawei <i>E</i>	ams
Suggested Add al SC-FE Response ACCE	a, John <i>Type</i> E EC is not defined <i>Remedy</i> bbreviation to 1.3 EC Staircase	Futurewei, U Comment Status A d in abbreviations 5 FEC Response Status C LE.			Suggested delete Response ACCE Removinclude are TE each fr C/ 154 D'Ambrosia Comment There Suggested	IRemedy noted commer PT IN PRINCIF ve the reference e an editor's no D (with editoria rom two incomi SC 154.6 a, John Type E is a black squa	Response PLE. e to 89.7.2. te stating that t il license) to tal ng polarizations <i>Comment</i> re in Fig 154-3	Status C the requirement ke account of th s are skewed. P 107 Futurewei, U.3 Status A	s for skew and s e fact that there <i>L</i> 27 S. Subsidiary of	skew variation at TF are 2 logical stream # <u>83</u> Huawei <i>E</i>	ams

	SC 154.2	P102	L 26	# 84
Schmitt, M	/latt	CableLabs		
Comment	Type E	Comment Status R		Bucket
The fo	```	of the last paragraph in 154.2 o	does not seem	to match the text
S <i>ugg</i> ested Adjust		size as necessary to match su	urrounding text.	
<i>Response</i> REJE Stand		Response Status C a NOTE		
C/ 154	SC 154.6	P 106	L 41	# 85
Schmitt, M	/latt	CableLabs		
Comment	Type E	Comment Status A		Bucket
aistine	ctiy almerent. The	erefore, the statement is argua	bly misleading/	re directly related but incorrect.
Suggested Modify	d <i>Remedy</i> y that portion of tl	erefore, the statement is arguance the sentence to read as follows eferred to by it's associated wa	:"the PHY oper	incorrect. ates at a single optical
Suggested Modify	<i>dRemedy</i> y that portion of th ency (often also re	ne sentence to read as follows	:"the PHY oper	incorrect. ates at a single optical
Suggestee Modify freque Response ACCE	dRemedy y that portion of tl ency (often also n e EPT IN PRINCIPL	ne sentence to read as follows eferred to by it's associated wa <i>Response Status</i> C	:"the PHY oper avelength)". Or	incorrect. ates at a single optical
Suggestee Modify freque Response ACCE	dRemedy y that portion of tl ency (often also n e EPT IN PRINCIPL	ne sentence to read as follows eferred to by it's associated wa <i>Response Status</i> C .E.	:"the PHY oper avelength)". Or	incorrect. ates at a single optical
Suggestee Modify freque Response ACCE Implei	dRemedy y that portion of the ency (often also re PT IN PRINCIPL ment the suggest SC 154.7.1	ne sentence to read as follows eferred to by it's associated wa <i>Response Status</i> C .E. ted remedy with editorial licens	:"the PHY oper avelength)". Or se.	incorrect. rates at a single optical r something similar.
Suggested Modify freque Response ACCE Impler Cl 154 Schmitt, M Comment	dRemedy y that portion of the ency (often also re EPT IN PRINCIPL ment the suggest SC 154.7.1 Matt Type T	he sentence to read as follows eferred to by it's associated wa <i>Response Status</i> C .E. ied remedy with editorial licens <i>P</i> 109 CableLabs <i>Comment Status</i> A	:"the PHY oper avelength)". Or se.	incorrect. rates at a single optical something similar. # <u>86</u>
Suggested Modify freque Response ACCE Impler Cl 154 Schmitt, M Comment In Tab	dRemedy y that portion of the ency (often also re EPT IN PRINCIPL ment the suggest SC 154.7.1 Matt Type T	he sentence to read as follows eferred to by it's associated wa <i>Response Status</i> C .E. .ed remedy with editorial licens <i>P</i> 109 CableLabs	:"the PHY oper avelength)". Or se.	incorrect. rates at a single optical something similar. # <u>86</u>
Suggested Modify freque Response ACCE Impler Cl 154 Schmitt, M Comment In Tab	dRemedy y that portion of the ency (often also me EPT IN PRINCIPL ment the suggest SC 154.7.1 Matt <i>Type</i> T ole 154-8, there is resolved.	he sentence to read as follows eferred to by it's associated wa <i>Response Status</i> C .E. ied remedy with editorial licens <i>P</i> 109 CableLabs <i>Comment Status</i> A	:"the PHY oper avelength)". Or se.	incorrect. rates at a single optical something similar. # <u>86</u>

Response

Response Status C

ACCEPT.

C/ 154	SC 1	154.7.1	P109	L 43	# <u>8</u> 7
Schmitt, M	att		CableLabs		
	le 154-8	T B, there is eds to be	Comment Status A a TBD for "Average launch p resolved.	power of OFF tra	ansmitter, each lane
	se chan	, ging "TBD	" to "-35" [dBm] to align with hn DeAndrea at the Novemb		
Response			Response Status C		
Implen	nent pro		E. nedy, but remove "each lane omment #58.	e".	
C/ 154	SC 1	154.7.1	P109	L 44	# 88
Schmitt, M	att		CableLabs		
Comment	Туре	т	Comment Status A		
		there is	a TBD for "Optical return los	s tolerance (ma	x)" that needs to be
		, 11010 10			
In Tab	ed.				
In Tab resolve Suggestea Propos that th that us slightly reflecta have n	ed. Remed se chan e calcul sed in th relaxed ance by	y ging "TBD ation of th le CableLa d relative t myself ar impact on	" to "25" [dB] to align to Cab is figure shall be done in the abs spec, hence the CableLa to the ITU requirement, and ad Atul S. from NEL America performance. Will prepare	bleLabs requirem ITU manner (w abs requirement based on the pro a at the call in De	hent, with the caveat hich is the inverse of of -25 dB). That's esentation on ecember, this should

ACCEPT IN PRINCIPLE.

Assign a value of 25dB for both the transmitter optical return loss tolerance and the black link minimum optical return loss.

C/ 154	SC 154.7.1	P109	L 46	# 89	C/ 154	SC 154.7.3	P110	L 52	# 91
Schmitt, N		CableLabs	L 40	# 09	Schmitt, N		∠ CableLabs	L 32	# 91
Comment		Comment Status A			Comment		Comment Status R		
		a TBD for "Transmitter reflec	tance (max)" th	at needs to be resolved.	In Tab	ble 154-10, there	e is a TBD for "Minimum optica	al return loss at [·]	TP2" that needs to be
Suggestee	dRemedv				resolv	ed.			
Propo was p	se changing "TBI roposed in the pro nber. Will prepar	D" to "20" [dB] to align with Ca esentation from myself and At e a presentation that includes	ul S. from NEL	America at the call in	functio	se eliminating th onally equivalen	his parameter from the table (o t to the Tx Reflectance parame epare a presentation on this p	eter in Table 154	4-8, and therefore is not
Response		Response Status C			Response	1	Response Status C		
	PT IN PRINCIPL	, the TBD for "Transmitter refle	ectance (max)"	to -20.	transr	al return loss at nitter return loss	TP2 is return loss into the blac tolerance parameters are rela a consistent way.		
C/ 154	SC 154.7.2	P 110	L 28	# 90	•				
Schmitt, M	latt	CableLabs			See a	lso response to	comment 88.		
Comment	Туре Т	Comment Status A			C/ 154	SC 154.7.3	P 110	L 53	# 92
In Tab	le 154-9, there is	a TBD for "Receiver reflectar	ice (max)" that	needs to be resolved.	Schmitt, N	latt	CableLabs		
Suggested	dRemedy				Comment	Туре Т	Comment Status R		
		D" to "20" [dB] to align with Ca esentation from myself and At				eeds to be resol	e is a TBD for "Maximum discr ved.	ete reflectance l	between TP2 and TP3"
Decer interin		e a presentation that includes	this recommer	idation for the January	Suggestee	dRemedy			
Response ACCE	PT IN PRINCIPL				combi Recei	nation of Tx Rei ver Reflectance	his parameter from the table (o lectance (Table 154-8), Retur (154-9), this parameter is not ation ont his proposal for the J	n Loss Toleranc needed and is e	e (Table 154-8), and
Chang	ge in Table 154-9	, the TBD for "Receiver reflect	ance (max)" to	-20.	Response	1	Response Status C		
						arameter is inte	nded to put restrictions on cor ack link to ensure that penaltie		

C/154 SC	154.8	P 111	L17	# <u>9</u> 3	C/ 154	SC 1	54.6		P 107	L 34	# <u>9</u> 5
Schmitt, Matt		CableLabs			Maniloff, Ei	ic		C	iena		
Comment Type	-	Comment Status R			Comment	Гуре	Е	Comment Sta	atus A		
However, in a	comparing the	nitions of optical paramete list of optical parameters er of parameters have no	in Tables 154-8		The an	nplified o	case is t		ation, and t	he only application	nplified applications. on with all parameters
uggestedReme	dy				Suggested	Remedy	/				
for each whe	re there curre	or each parameter in Table ntly isn't a definition simply address those gaps.						application is amp r and Rx power s			se will not reach 80km
•		•			Response			Response Sta	atus C		
Response REJECT.	F	esponse Status C				PT IN PF 154.6 is		LE. led to clarify how	a black link	works.	
		r which parameters we ne been provided with propo		ctions to modify the	"This p SMF, b For the	aramete out has b followin	er is not been ade ng paran	ded to allow oper neters:	port amplifi	ed DWDM links (up to at least 80 km of
Comments a	re invited with	specific proposals for par	ameter defintion		Minimu	ım avera	age inpu	3.6) (min) ut power [unampli ઠ) [unamplified]	fied]		
X 154 SC 1aniloff, Eric	154.5.4	P 105 Ciena	L 22	# 94	See als	so resolu	ution to	comment #99.			
Comment Type		Comment Status A			Add cla	arifying t	ext to th	ne beginning of 1	54.7 with ed	itorial license.	
Definition of ' defined.	"Both Lanes" i	s ambiguous. The lanes b	eing referred to	here should be	C/ 154		54.7.1		P 109	L 43	# 96
uggestedReme	-				Maniloff, Ei			-	iena		
Change word	ling to someth	ing along the lines of "on	each polarizatio	n state".	Comment		E	Comment St			
lesponse	F	Response Status C			The Tx	power b	being re	ferred to here is	or Tx disab	ed.	
ACCEPT IN					Suggested						
See resolutio	on to comment	: #58			Chang	e Descri	ption te	xt to "disabled tra	insmitter".		
					Proposed I REJEC	'	se	Response Sta	ntus Z		
					This co	omment	was WI	THDRAWN by th	e comment	er.	

C/ 154	SC 154.8.12	P 113	L 5	# <u>9</u> 7	C/ 154	SC 154.8	.15	P 113	L 24	# <u>9</u> 9
Maniloff, E	Eric	Ciena			Maniloff, E	ric		Ciena		
Comment	Туре Е	Comment Status A			Comment	Туре Е	Co	mment Status A		
	•	e range over which the req appies to 154.8.13 as wel		IR(193.6) needs to be		U	likely shor	ter links than 80 km" is	s awkward.	
Suggested	dRemedy				Suggested		"The requ	iromont for OSNP(103	6) [unamplified]	is intended to specify
		nes the input power range OSNR defined by OSNR(1		ER requirement must	usage	of the same	receiver for	or unamplified applicat	ions. DWDM cha	annel loss will likely limit kimum reach specified."
Response	•	Response Status C			Response		Res	ponse Status C		
Apply		y in 154.8.12 and 154.8.13		// [22]	Chang "The receive	er for unamp	g of 154.8 or OSNR(′ lified appli	193.6) [unamplified] is cations. The associate	d channel loss w	ill likely limit the
<i>Cl</i> 154 Maniloff, E	SC 154.8.14 Eric	P 113 Ciena	L17	# 98		ium reach of ations."	these app	lications to less than 8	Okm specified fo	or amplified
Comment Power		<i>Comment Status</i> A measurement is not specif	ied.		C/ 154	SC 154.7	.1	P109	L 25	# 100
Suggested	e e				Zhang, Bo			Inphi		
	-	OSNR requirement must b	o mot over nowe	range as specified in	Comment			mment Status R		
Table		USINK requirement must b	e mer over power	range as specified in				stics spec table, sugge plified cases.	est separate the a	average channel output
Response	,	Response Status C			Suggested	Remedy				
Chang	PT IN PRINCIPLE	8.14 to:				ge channel o plified] (min)		er [amplified] (min): -10 2193.6THz	dBm. Average c	hannel output power
avera		olified] shall be within the li nplified] range specified in			Response REJE0 The sp	CT.		sponse Status C cal power ranges shou	ild support both :	amplified and

	1 P109	L 46	# <u>1</u> 01	C/ 45	SC 45.2	.1.186an	P 45	L 29	# 103	
Zhang, Bo	Inphi			Nicholl, Ga	ary		Cisco Syster	ns		
Comment Type TR	Comment Status A			Comment	Туре Е	Comm	ent Status A		Bucke	
Suggest fill in the value instead of TBD. In line with recent presentation (http://www.ieee802.org/3/ct/public/tf_interim/19_1219/schmitt_3ct_01_191219.pdf) which we are in support of. SuggestedRemedy					ed to read t rs 1.2281, and reads o	ne 64-bit count I.2282 and 1.2	er value, the regis 283 are latched wl 81, 1.2282, and 1.	ter 1.2280 is read hen (and only whe	81, 1.2282, and 1.2283 I first, the values of en) register 1.2280 is atched value rather	
-20dB'	Response Status C			Suggested	Remedy					
Response ACCEPT IN PRINCI		Suggest spliting into at least two sentences, perhaps something like "Registers 1.2280, 1.2281, 1.2282, and 1.2283 are used to read the 64-bit counter value. Register 1.2280 is read first and the values of registers 1.2281, 1.2282 and 1.2283 are latched when (and only								
See response to cor				when)	register 1.2	280 is read. Re		.2281, 1.2282, an	nd 1.2283 always return	
C/ 154 SC 154.7.2 Zhang, Bo	Inphi	L 28	# 102	Sugge sectior		iilar language f	or the description	of other 32-bit and	d 64-bit counters in this	
Comment Type TR Comment Status A Suggest fill in the value instead of TBD. In line with recent presentation (http://www.ieee802.org/3/ct/public/tf_interim/19_1219/schmitt_3ct_01_191219.pdf) which we are in support of.				Response Response Status C ACCEPT IN PRINCIPLE. See response to comment 48.						
SuggestedRemedy -20dB'				C/ 80	SC 80.1		P 48	L10	# 104	
Response	Response Status C			Nicholl, Ga			Cisco Syster			
ACCEPT IN PRINCI See response to cor	PLE.			Comment	Туре Е		ent Status A m h to be consiste		<i>Bucke</i> made by 802.3cu	
•					Domody					
·				Chang			n Clause 89 for 40 SE-ZR use a singl			
				Chang DR, ar to "The M 100GE	e "The MDI nd Clause 1 1DIs as spe	54 for 100GBA cified in Clause	SE-ZR use a sing e 89 for 40GBASE	le lane data path. -FR, Clause 140 t	use 140 for 100GBASE- " for 100GBASE-DR, \SE-ZR use a single	
				Chang DR, ar to "The M 100GE	e "The MDI nd Clause 1 IDIs as spe BASE-FR1, ata path."	54 for 100GBA cified in Clause and 100GBASI	SE-ZR use a sing e 89 for 40GBASE	le lane data path. -FR, Clause 140 t	" for 100GBASE-DR,	
				Chang DR, ar to "The M 100GE lane da <i>Response</i>	e "The MDI nd Clause 1 IDIs as spe BASE-FR1, ata path."	54 for 100GBA cified in Clause and 100GBASI <i>Respor</i>	SE-ZR use a sing 989 for 40GBASE E-LR1, and Clause	le lane data path. -FR, Clause 140 t	" for 100GBASE-DR,	

as follo and no Suggestedf Please Response ACCEF See res C/ 80 Nicholl, Gar Comment 7 "Examp 100GB, 4b), so t Suggestedf Add ref Response	Type E iting instruction ws:", but there underline". Remedy identify the char PT IN PRINCIP sponse to common SC 80.3.2 ry Type T ples of inter-sul ASE-P". I the shouldn't this b Remedy		entence of the sec n the following tex through and/or ur <i>L</i> 28 ems	xt (i.e. no strickthrough nderline. # <u>108</u> Bucket 00GBASE-R, and		
The edi as follo and no Suggested# Please Response ACCEF See res C/ 80 Nicholl, Gar Comment 7 "Examp 100GB, 4b), so t Suggested# Add ref Response	iting instruction wes:", but there underline". <i>Remedy</i> identify the char PT IN PRINCIP sponse to com <i>SC</i> 80.3.2 ry <i>Type</i> T ples of inter-sul ASE-P". I th shouldn't this b <i>Remedy</i>	n states "Change the first se e are no changes indicated in hanges to the text with strickt <i>Response Status</i> C PLE. Imment 20. <i>P49</i> Cisco Syste <i>Comment Status</i> A Iblayer service interfaces for thought we were adding a ne be included in the list ?	n the following te; through and/or ur <i>L</i> 28 ems - 40GBASE-R, 10	cond paragraph of 80.3.2 xt (i.e. no strickthrough nderline. # <u>108</u> Bucket 00GBASE-R, and		
Please Please Response ACCEF See res C/ 80 Nicholl, Gar Comment 7 "Examp 100GB, 4b), so t Suggested/ Add ref Response	identify the char PT IN PRINCIP sponse to comm SC 80.3.2 ry Type T ples of inter-sul ASE-P". I the shouldn't this b Remedy	Response Status C PLE. Imment 20. P49 Cisco Syste Comment Status A Iblayer service interfaces for thought we were adding a ne be included in the list ?	<i>L</i> 28 ems - 40GBASE-R, 10	# 108 Bucket		
Nicholl, Gar Comment 7 "Examp 100GB, 4b), so t Suggestedh Add ref Response	ry Type T ples of inter-sul ASE-P". I th shouldn't this I Remedy	Cisco Syste Comment Status A Iblayer service interfaces for thought we were adding a ne be included in the list ?	ems ⁻ 40GBASE-R, 10	Bucker		
Comment 7 "Examp 100GB 4b), so t Suggested Add ref Response	Type T ples of inter-sul ASE-P". I th shouldn't this b Remedy	Comment Status A ablayer service interfaces for thought we were adding a ne be included in the list ?	- 40GBASE-R, 10	Bucket		
t Suggested Response	ples of inter-sul ASE-P". I th shouldn't this b Remedy	Iblayer service interfaces for thought we were adding a ne be included in the list ? 100GBASE-Z PHY		00GBASE-R, and		
100GB, 4b), so t Suggestedf Add ref Response	ASE-P". I th shouldn't this b Remedy	thought we were adding a ne be included in the list ? 100GBASE-Z PHY				
See res	PT IN PRINCIP	PLE.				
C/ 80	SC 80.1	P 48	L 3	# 109		
Comment Type T Comment Status A Don't we need to update Figure 80-1 to show the stack for a 100GBASE-Z PHY ? SuggestedRemedy Update Figure 80-1 to show the 100GBASE-Z PHY stackup.						
ACCEF	re 80-1 change	PLE. je "100GBASE-R or 100GBA	ASE-P" to read "1	100GBASE-R,		
1	Nicholl, Ga Comment 7 Don't w Suggested Update Response ACCEF In Figu	Nicholl, Gary Comment Type T Don't we need to upd SuggestedRemedy Update Figure 80-1 to Response ACCEPT IN PRINCIF In Figure 80-1 chang	Nicholl, Gary Cisco Syst Comment Type T Comment Status A Don't we need to update Figure 80-1 to show the SuggestedRemedy Update Figure 80-1 to show the 100GBASE-Z PH Response Response Status C ACCEPT IN PRINCIPLE.	Nicholl, Gary Cisco Systems Comment Type T Comment Status A Don't we need to update Figure 80-1 to show the stack for a 100G SuggestedRemedy Update Figure 80-1 to show the 100GBASE-Z PHY stackup. Response Response Status C ACCEPT IN PRINCIPLE. In Figure 80-1 change "100GBASE-R or 100GBASE-P" to read "		

C/ 80 SC 80.1.4	P 48	L15	# 110	C/ 152	SC 152.1.	1	P58	L12	# <u>1</u> 12
Nicholl, Gary	Cisco Systems	\$		Nicholl, Ga	ary		Cisco System	ıs	
Comment Type T	Comment Status A			Comment	Туре Т	Comment	Status A		
don't we need to add a	ne description for 100GBASE new decription below 100GB/ ining (see Table 80-4b). ?	-R to add DP_D ASE-P to descril	QPSQ modulation, be the new 100GBASE-	used a specif	across a chip-t ied in Clause	o-chip or chip-to	module interfa	ice and the 100G	ified in Clause 91 is BASE-ZR FEC connected 100GBASE-
SuggestedRemedy				ZR PH	1YS.				
	ng instruction and add to new elow the current description f					reed in Hawaii to neric (and not sp			BASE-ZR in order to
Response	Response Status C	Suggested	dRemedy						
ACCEPT IN PRINCIPL						iption to remove n be used for oth			d make the clause
paragraph to 80.1.4 sta using the Clause 82 Ph lanes (see Clause 82) a	roposed modifications to the s ting "100GBASE-Z represents ysical Coding Sublayer for 10 and a PMD implementing DP- Layer devices also use the tra	s a family of Phy 0 Gb/s operation DQPSK modula	ysical Layer devices n over multiple PCS tion. Some		PT IN PRINCI		Status C		
FEC of Clause 153, or t		anscouling and r	LO OI Olause 91, the	C/ 152	SC 152.1.2	2	P 59	L 36	# 113
C/80 SC 80.4	P51	L 49	# 111	Nicholl, Ga	ary		Cisco System	าร	
			# [11]	Comment	Туре Т	Comment	Status A		
Nicholl, Gary	Cisco Systems	i		Figure	152-1 makes	Clause 152 spe	cific to the 100	GBASE-ZR FEC	and PMA.
Comment Type E	Comment Status A		Bucket	Suggested					
Table 80-5 is being upd SuggestedRemedy	ated by 802.3ct			Updat	e the figure to				nilar to what was down e clause as necessary.
simplest way to do this	on to reflect the changes to Ta might be to just show the new way you should be independe	v rows being add	ded (with unchnaged	Response		Response			,
Response	Response Status C	,		See re	esponse to cor	nment #16			
ACCEPT IN PRINCIPL				C/ 152	SC 152.5.	1	P 61	L 46	# 114
Update the editing instr	uctions to reference the chang	ges made by 80	2.3cu and include	Nicholl, Ga	ary		Cisco System	าร	
100GBASE-FR1 and 10	00GBASE-LR1 in the table.	5		Comment		Comment			buck
						a FEC sublayer b ion generic I wou			ayer. In the spirit of as an option.
				Suggested	-				
				lindat	o Figuro 152-2	to also show PM	/A as an optio	n halow tha Inva	rse RS-FEC sublayer.
				Opdat	e i igule 152-2				

Comment ID 114

C/ 153	SC 153.3.2.2.1	P 95	L 38	# 115	C/ 154	SC	154.7.3	P 110	L 39	# 117			
Nicholl, Gary Cisco Systems					Nicholl, G	Nicholl, Gary Cisco Systems							
Comment Type E Comment Status A bucket					Comment	Туре	т	Comment Status A					
SuggestedRe Recomm	manner operates at a emedy end doing the math a 53.3.1), so		,		distar the Pl power	ce of 1 IY to o to the	20km, whi perate ove solution , a	ic dispersion in Table 154-10 ch is 50% greater than the 80 r a reach 50% greater than th and compromise the BMP an ne OIF 400ZR specification h	0km objective fo he target object d EF.	or this PHY. Requiring ive could add cost and			
"signaling	g rate of (255/227) × 2	4.8832 Gb/s ±20 ppr	m"					ent with it's reach objective o					
to: "signaling	a rate of (255/227) × 2	4.8832 Gb/s ±20 ppr	m (~ 27.9525 Gb	/s)	Suggeste	dReme	dy						
Also in se	"signaling rate of (255/227) × 24.8832 Gb/s ±20 ppm (~ 27.9525 Gb/s) Also in section 153.3.1 (page 94, line 49) we use "GBd" , whereas in this section we switch to using "Gb/s". Suggest being consistent throughtout the clause. Given that the earlier description talks about 'bit streams" I would recommend using "Gb/s" .						Change the maximum chromatic dispersion in Table 154-10 from 2400 ps/nm to 1600 ps/nm , to be consistent with an 80 km reach objective.						
							Response Response Status C ACCEPT IN PRINCIPLE.						
Implemer	Resp IN PRINCIPLE. Int remedy to commen al paragraph on page		n Gb/s (2 occurre	nces).			was taken nging the	value from 2,400ps/nm to 1,6	600ps/nm at this	s meeting:			
C/ 153	SC 153.3.2.2.2	P 95	L 51	# 116	Y - 17 N - 5								
Nicholl, Gary		Cisco System	าร		N - 3								
Comment Typ "The sig ppm."	pe E Com gnaling rate of each st	nment Status A ream of DQPSK sym	ibols is (255/227	<i>bucket</i>) × 24.8832 GBd ±20	Imple	nent th	e suggesti	ed remedy.					
SuggestedRe	emedy												
section 1 change:	end doing the math a 53.3.1), so g rate of of each strea	0 00		ate (as was done in 24.8832 GBd ±20 ppm"									
		m of DQPSK symbol	ls is (255/227) ×	24.8832 GBd ±20 ppm									
Note, sind time	ce we are refering to (QPSK symbols here,	GBd is the corre	ct termiology thisa									
Response	Resp	onse Status C											

ACCEPT.