C/ 153 SC 153.	2.3.3.1 <i>P</i> 88	L 42	# 1	C/ 152	SC 152.2	P 59	L 40	# 4
Brown, Matt	Huawei Teo	hnologies Canada	1	Brown, Ma	itt	Huawei Techr	nologies Canada	a
Comment Type E	Comment Status X			Comment	Туре Е	Comment Status X		
The acronym FAS Predominantly FA "frame alignment	for frame alignment signal is d S is used thereafter but there a signal".	efined in 1.5 then a re around 19 instai	again in 153.2.3.2.4. nces in Clause 153 of	Subcla invers sublay	ause 152.2 defii e RS-FEC subla ⁄er" rather than	nes the inverse FEC SI as defi ayer. When referring to the sul "inverse FEC" sublayer.	ined in 80.3 whi blayer it should l	ch is used by the be "inverse RS-FEC
SuggestedRemedy				Suggested	Remedy			
Change all instand page 84 line 40.	es of "frame alignment signal"	to "FAS" after the	acronym is defined on	Chang	je "inverse FEC	sublayer" to "inverse RS-FEC	Sublayer at Pa	ge 59 line 41,
Proposed Response	Response Status O			Proposed	Response	Response Status 0		
		1.00	# [o	C/ 152	SC 152.5.1	P61	L 24	# 5
C/1 SC 1.5	P22	L32	# 2	Brown, Ma	itt	Huawei Techr	nologies Canada	a
Brown, Matt	Huawei Leo	chnologies Canada	l	Comment	Type E	Comment Status X		
A new acronym Se many clauses and SuggestedRemedy Add the acronym	C-FEC is introduced in Clause annexes including 45, 80, 154, SC-FEC "staircase FEC" to the	153 and the acrony and 83C. acronym list in 1.5	vm has been added to	Suggester A labe path. Proposed	IRemedy IRemedy I "Transmit fund Response	ction" to downward path and a Response Status O	label "Receive	function" to the upward
				0/ 450				
C/ 153 SC 153.	2.3.1 <i>P</i> 83	L 25	# 3	C/ 153	SC 153.2.3.	1 <i>P</i> 83	L24	# 6
Brown, Matt	Huawei Teo	hnologies Canada		Brown, Ma	nt -		nologies Canada	а
Comment Type E	Comment Status X	d near the beginni	na Clause 153	Comment It is no	<i>Type</i> E ot immediately c	bbvious which path is transmit	function and wh	nich is receive function.
Predominantly SC SC-FEC is used ir several instances	-FEC is used thereafter but in r other clauses including 45, 80 where "staircase FEC" is reuse	nany places throug , 154, and 83C.Ho d.	wever, there are	Suggested A labe path.	<i>Remedy</i> I "Transmit fund	ction" to downward path and a	label "Receive	function" to the upward
SuggestedRemedy				Proposed	Response	Response Status 0		
Change all instand 81 line 9, with som	es of "staircase FEC" to SC-FE ne exceptions such as the defin	EC after the acrony ition list in Figure 1	m is defined on page 53-1 and similar.	·	·			
Proposed Response	Response Status 0	-						

C/ 154	SC 154.1	P 100	L 8	# <u>7</u>	C/ 154	SC 154.1	P 101	L 26	# <u>1</u> 0
Brown, Ma	att	Huawei Techno	logies Canada		Brown, Ma	tt	Huawei Tec	hnologies Canad	a
Comment	Туре Е	Comment Status X			Comment	Туре Е	Comment Status X		
lt is no The te	ot clear why "bla erm "black link" is	ck link" deserves quotes and ot s used throughout this clause so	her terms like " o no quotes are	DWDM channel" don't. required.	Note t The m	hat this might be edium for ZR is	e considered technical. not SMF but rather a more o	complex "black lir	ık".
Suggestee	dRemedy				Suggested	IRemedy			
Remo Two ir page	ove quotes from " nstances: 100, line 8	black link".			In Figu Chang To "Zf	ıre 154-1 le "ZR = PMD F R = PMD FOR B	OR SINGLE MODE FIBER" LACK LINK" or similar		
page	106, line 46				Proposed	Response	Response Status 0		
Proposed	Response	Response Status 0							
					C/ 154	SC 154.1	P101	L 23	# 11
C/ 154	SC 154.1	P 100	L 8	# 8	Brown, Ma	tt	Huawei Tec	hnologies Canad	a
Brown, Ma	att	Huawei Techno	logies Canada		Comment	Туре Е	Comment Status X		
Comment	Туре Т	Comment Status X			At the	bottom of Figur	e 154-1, the order of definition	ons should be alp	hanumeric. Also, SC-
The te	erm "black link" is	s an important element through	out this clause	and will be in other	FEC is	s missing from c	efinition list.		
Clause that th	es (e.g., 400GBA e term "black lin	SE-ZR PMD) and therefore a d	efinition should	be added to 1.4. Note	Suggested	lRemedy			
Cuerenter					Move	RS-FEC to after	PMD.		
Suggested	ofinition for "bloc	sk link" to 1.4			Add S	C-FEC after RS	-FEC.		
					Proposed	Response	Response Status 0		
Proposed	Response	Response Status O							
					C/ 154	SC 154.5.3	P104	L 46	# 12
C/ 154	SC 154.1	P 100	L 8	# 9	Brown, Ma	tt	Huawei Tec	hnologies Canad	a
Brown, Ma	att	Huawei Techno	logies Canada		Comment	Туре Т	Comment Status X		
Comment	Type E	Comment Status X			Presu	mably, the "two	DQPSK symbol streams" a	re extracted from	each of two "orthogonal
Typica since	ally we use the te both references	erm "(see xxx)" for cases where in this sentence point to the sar	you have "(def ne subclause c	ined in 154.6)". Also, nly one reference is	polariz this.	ations" as mod	ulated by the transmit function	on (see 154.5.2).	Text in 154.2 supports
neces	sary. I would arg	ue that the references are not r	necessary at all	since this is an	Suggested	IRemedy			
Introd	uctory sentence	and its implicit that everything is	s going to be sp	becified later in the	Chang	e:			
Suggester	d Domody				The P	MD Receive fun	ction shall convert the comp	osite optical sign	al received from the
Do or	anemeuy	n.			MDI in	to two DQPSK	sympol streams for delivery.		
1. Rei	move both refere	y. ences. (preferred)			The P	MD Receive fun	ction shall convert the comp	osite optical sign	al received from the
2. Cha	ange "defined in"	and "also defined in" to "see".			MDI i	nto two DQPSK	symbol streams, each from	one of two orthog	gonal polarizations, for
3. Rer	move the first ref	erence and in the second chan	ge "also defined	d in" to "see".	delive	y…" or similar –	_		
Proposed	Response	Response Status O			Proposed	Response	Response Status 0		

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/ 154	SC 154.7.3	P111	L13	# 13	C/ 152	SC 152.1	P58	L13	# 16
Brown, Ma	att	Huawei Techr	nologies Canada		Brown, Ma	itt	Huawei Tec	hnologies Canada	a
Comment	Туре Т	Comment Status X			Comment	Туре Т	Comment Status X		
In Tab the ta DGD_ consis Suggester In the "Maxi	ble 154-10, footnot ble. Previously Pl _max as a descrip stency and clarity <i>dRemedy</i> first column of ro mum differential g	ote a, there is a disconnect be MDs, a similar table (e.g., Tab tion, whereas here the descr , include the DGD_max term w 2 change the description to group delay, DGD_max"	etween the parar ole 124-11 in 803 iption is spelled in the descriptio	neter DGD_max and 2.3-2018) included out in words. For n cell.	When conve a FEC MAC o 200G) Howe ZR Ph for net	the inverse FE rsion to the 100 c other than the device and the KS specified by ver, as the intro tY. To encoura w PHY types it	C was adopted as a baseline OGBASE-ZR but rather as ret Clause 91 RS(544,514) FEC PMD device. The inverse FE 802.3bs for 400GE and 200 ductory subclause is written ge general reuse of this subl should be defined generically	e is was meant no usable sublayer fo C or (b) permit cor C is analogous to GE (see Clause 1 it is targetting spe ayer and to avoid /.	t only to enable or either (a) converting to rection between the the 400GXS and 18 in 802.3-2018). ccifically the 100GBASE- reworking this clause
Proposed	Response	Response Status 0			Suggested	Remedy			
Cl 83C Brown, Ma Comment Figure Suggester Add 1 See F Proposed	SC 83C.4.2 att Type T e 83C-9 and Figur dRemedy 00GAUI-4 in addi Figure 135A-8 in 8 Response	P120 Huawei Techr Comment Status X re 83C-10 should include both tion to 100GAUI-2. 02.3cd-2018 as an example. Response Status O	L 11 nologies Canada n 100GAUI-4 and	# 14	In Tis2 FEC s differe In Figu Chang chang chang If any the cla	.1, change the pecified in Clain nt FEC is used ure 152-1 chan e the definition ge the title of 83 ure 83C-9 and e "SC-FEC" to e "100GBASE- e "100GBASE- examples speci- auses specific to <i>Response</i>	second sentence to: "This si use 91 is used across a chip- for the PMD." ge "100GBASE-ZR" to "FEC" list. 0C.4 to "Partitioning examples Figure 83C-10 "FEC" (two places) ZR PMA" to "PMA" ZR" to "100GBASE-Z/P" or a lific to the 100GBASE-Z/P" or a lific to the 100GBASE-ZR PH o 100GBASE-ZR (153 or 154 Response Status 0	iblayer is used in to-chip or chip-to- ' and "100GBASE s with Inverse RS add "100GBASE-F IY are required the t).	cases where the RS- module interface and a E-ZR PMA" to "PMA and -FEC"
C/ 83C	SC 83C.4.2	P 120	L11	# 15					
Brown, Ma	att	Huawei Techr	nologies Canada		C/ 1	SC 1.5	P22	L48	# 17
Comment	Туре Т	Comment Status X			Brown, Ma	itt	Huawei Tec	hnologies Canada	а
Figure exam	e 83C-9 and Figur ples of Clause 13	e 83C-10 should be in Anne» 5 PMA not Clause 83 PMA>	x 135A not 83C,	as they are primarily	Comment "gene	<i>Type</i> E ric mapping pro	Comment Status X becedure" should not be capita	lized; see G.709.	In 802.3 standards,
Suggeste	dRemedy				senter	nce or title.	ouns are capitalized, except	as required, e.g.,	
Add A	Annex 135A to 802 x 135A.	2.3ct and amend by moving F	Figure 83C-9 and	Figure 83C-10 to	Suggested	Remedy			
Proposed	Response	Response Status 0			chang	e to "generic m	apping protocol"		
					Proposed	Response	Response Status 0		

C/ 1	SC 1.5	P 22	L 45	# <u>1</u> 8	CI 80	SC 80.2.4	P 50	L 5	# 21
Brown, Matt	t	Huawei Techi	nologies Canada		Brown, Ma	att	Huawei Techno	ologies Canada	
Comment T	ype E	Comment Status X			Comment	Туре Т	Comment Status X		
DQPSK	is used separa	ately from DP-DQPSK to define	ne a coding meth	od, rather than	100G	BASE-ZR PMA	(specified in 153)) is not a 1000	GBASE-R PMA	(specified in 83).
modulat	tion format				Suggeste	dRemedy			
SuggestedF	Remedy				Remo	ove ", with the ex	ception of		
add sep	parate acronym	for DQPSK			100G	BASE-ZR which	is specified in Clause153."		
Proposed R	esponse	Response Status O			"The I specif	PMA specific to fied in Clause 15	the 100GBASE-ZR PHY is 53."		
C/ 80	SC 80.1	P 48	L 7	# 19	Proposed	Response	Response Status O		
3rown, Matt	t	Huawei Techi	nologies Canada						
Comment T	ype E	Comment Status X			C/ 152	SC 152.1.1	P 48	L 12	# 22
802.3cu	i updates this p	aragraph, adding 100GBASE	-FR1 and 100GE	BASE-LR1	Brown, Ma	att	Huawei Techno	ologies Canada	
SuggestedF	Remedy	han a han a han an a ba a a a a a a a a a a a a a a a			Comment	Type T	Comment Status X		
update 1	this paragraph	based on changes in 802.3ct	1		The H	S-FEC acronym	n is introduced in the first senter	nce.	
Proposed R	esponse	Response Status O			Suggester In sec	<i>dRemedy</i> cond sentence c	hange "Reed-Solomon FEC" to	"RS-FEC".	
C/ 80	SC 80.3.2	P 50	L 30	# 20	Proposed	Response	Response Status O		
Brown, Matt	t	Huawei Techi	nologies Canada						
Comment T	уре Т	Comment Status X			C/ 152	SC 152.1	P 59	L35	# 23
For 100	GBASE-ZR a r	new class of PHY, 100GBASE	E-Z, was defined	so it should be added	Brown, Ma	att	Huawei Techno	ologies Canada	
	St OF PHY typs	alter 100GBASE-P. Also, F	igure 80-4a, mu	st be underlined.	Comment	Туре Т	Comment Status X		
add "10	GBASE-Z" af	ter "100GBASE-P" with appro	opriate grammar a	and markup	For Fi Claus	igure 152-1… Tł e 83.	ne PMA above the Inverse RS-F	EC is defined i	n Clause 135 not
mark up	o all new and d	elete text			Suggeste	dRemedy			
-roposed R	esponse	Response Status O			In not	e 1, change "CL	AUSE 83" to "CLAUSE 135"		

C/ 152 SC 152.2	P 60	L60	# 24	C/ 152	SC 152.5		P60	L 28	# 27
Brown, Matt	Huawei Techr	nologies Canada		Brown, M	latt	ŀ	luawei Tecl	hnologies Canada	a
Comment Type T	Comment Status X			Commen	t Type E	Comment St	atus X		
The SIGNAL_OK para and alignment proces	ameter is sent upward and thus s rather than FEC codeword a	s is affected by th lignment process.	e 64B/66B block lock	There	e is a reference	e to "The FEC optio	nal states ir	n Clause 91". This	s is a bit vague.
SuggestedRemedy				Suggeste	earemeay	ional atatos in Figur	010 "		
Change the last sente "The value is set to O when align_status is f	ence of 152.2 to the following (I K when align_status (see 152. alse."	based on test in 8 6.13) is true. The	2.2): value is set to FALSE	Proposed	l Response	Response Sta	atus O		
Proposed Response	Response Status O			C/ 152	SC 152.5		P 60	L 2 7	# 28
				Brown. M	latt	F	luawei Tecl	hnologies Canada	a
C/ 152 SC 152.6.1	3 P76	L14	# 25	Commen	t Type E	Comment St	atus X	5	
Brown, Matt Comment Type T tx_align_status does	Huawei Techr <i>Comment Status</i> X not appear in Figure 82-14.	nologies Canada		It is r perpe Note objec	not necessary to etually valid. It i that for KR (ba stive to support	o give a reason for is sufficient to say s ackplane) and CR (t EEE.	a specificat imply that t winax) PHY	ion and the reasc he EEE deep slea 's being specified	on given may not be ep is not supported. I by 802.3ck there is r
SuggestedRemedy				Suggeste	dRemedy				
Change "tx_align_sta	tus" to "rx_align_status".			Delet	te "since all PH	IY types using this	ublayer are	e optical".	
Proposed Response	Response Status O			Proposed	l Response	Response Sta	atus O		
C/ 152 SC 152.3	P 60	L11	# 26	C/ 152	SC 152.5.	4.2.3	P 72	L 5	# 29
Brown, Matt	Huawei Techr	nologies Canada		Brown, M	latt	F	luawei Tecl	hnologies Canada	a
Comment Type T	Comment Status X			Commen	t Type T	Comment St	atus X		
The sentence refers t sublayer and the PMI	o "The restriction that all PMA O sublayer consist of four or fev	service interfaces wer lanes is remov	between the RS-FEC ved below the Inverse	Since cond	e FEC optional itional.	states are mandato	ry for Inver	se RS-FEC amp_	_bad_count is not
RS-FEC sublayer." It	is not clear where this restriction	on is coming from		Suggeste	edRemedy				
SuggestedRemedy				Delet	te "if the optionation	al states are suppo	ted in the F	EC synchronizat	ion process"
Provide information ir	idicating the source of this rest	triction, perhaps a	subclause number.	Proposed	l Response	Response Sta	atus O		
Proposed Response	Response Status O			•	-				

C/ 152	SC 152.6.6	P 75	L18	# <u>3</u> 0	C/ 152	SC 152.5.2.1	P 62	L 2	# 33
Brown, Ma	att	Huawei Techi	nologies Canada		Brown, Ma	tt	Huawei Tech	nologies Canada	a
Comment	Туре Т	Comment Status X			Comment	Туре Т	Comment Status X		
Since 152.5 uncon	FEC optional sta .4.2.1 the variable iditionally forced t	tes are mandatory an associ that controls the state mach o true.	ated ability bit is n nince, fec_optional	ot required. In _states, is	The se optiona "Note t are ma	entence below is al state. This sho that the FEC option andatory in the co	unecessarily wordy. The refe uld be more than a note. onal states within the dotted wrest of the Inverse RS-FEC	erence figure cle line of Figure 9	arly indicates the 1-8, and transition A,
Suggested	dRemedy				Suggostop	Pomody		Sublayer.	
Delete Delete Delete Delete	e 152.6.6. e "fec_optional_st e row for 1.2201.7 e 45 2 1 186ab 7	ates"row in Table 152-2. in Table 45-150ab.			Chang	e the sentence to tory for the Inver	b: "The FEC optional states a se RS-FEC."	and transition A	in Figure 91-8 are
Proposed	Response	Response Status O			Proposed	Response	Response Status O		
					C/ 152	SC 152.5.2.6	P 63	L 44	# 34
C/ 152	SC 152.5.1	P 61	L 24	# 31	Brown, Ma	tt	Huawei Tech	nologies Canada	a
Brown, Ma	att	Huawei Techr	nologies Canada		Comment	Туре Т	Comment Status X		
In Figure In Fig	ure 152-2, it is no re function.	t immediately clear which pa	th is transmit func	tion and which is is	For the is 20. ⁻ 100G 2	e phrase "distribu The wording abov 20-lane PCS wer	ted to multiple PCS lanes", l /e likely came from Clause & e defined.	think for the Inv 2 where both a	/erse RS-FEC "multipl 40G four-lane and
Suggestee	dRemedy				Suggestea	Remedy			
Add la right (abel "Transmit Fu upward) path.	nction" to the left (downward) path and "Receiv	e Function" to the	Chang Proposed	e "multiple PCS	anes" to "20 PCS lanes".		
Proposed	Response	Response Status O			FTOposed	response			
CI 152	SC 152 5 1	D61	/ 40	# 22	C/ 153	SC 153.2.1	P 82	L16	# 35
Brown M	00 102.0.1			# 52	Brown, Ma	tt	Huawei Tech	nologies Canada	a
	all Trino T		nologies Carlada		Comment	Туре Е	Comment Status X		
In Fig where	ure 152-2, the lay the below layer o	er below might be either a Fl can be more than one, the va	EC or a PMA subla ariable inst (italicize	ayer. For the case ed) is used (see	It is mo 100GA be req	ore likely the SC- UI-4 or 100GAU uired. It is also p	FEC will connect to the PCS I-2 in which case RS-FEC w ossible the interface could be	through a Clau ould be in use a e C2C or C2M.	se 135 PMA using nd Inverse FEC would
Figure	e 120-5).				Suggestea	Remedy			
Suggested In Fig For th	<i>dRemedy</i> ure 152-2… e signals below th ar to Figure 120-5	ne Inverse RS-FEC change " add legend text:	'FEC:IS" to "inst:IS	" with inst italicized.	Chang "The F service throug	e the paragraph CS may be conr e interface (see A h Annex 135G) ir	to: ected to the SC-FEC using nnex 83A, Annex 83B, Anne n which case a PMA (see An	an optional insta ex 83D, Annex 8 nex 83) or Inver	antiation of the PMA 3E, and Annex 135D
Simila "inst -	- PMA or FEC, de	pending on which sublayer i	s below this PMA"		152) is	a client of the F	EC service interface."	,	se FEC (see Clause

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 153.2.3.2	.4 P84	L 22	# 36	C/ 153	SC 153.3.2.	3.1	P 96	L 25	# 39
Brown, Matt	Huawei Tech	nologies Canada		Brown, Ma	att		Huawei Techi	nologies Canada	
Comment Type E	Comment Status X			Comment	Type E	Comment	Status X		
Need to spell out first ir	nstance of each acronym wit	hin each Clause.		The se	entence should	end with a peri	od not a comm	a, since it is follo	wed by sentences
SuggestedRemedy	e to:			rather would	than phrases. I be appropriate.	However, since	this is defining	a procedure with	a 3 steps a lettered list
"The generic mapping p	procedure (GMP) mapper ins	serts"		Suggested	dRemedy				
Proposed Response	Response Status O			Conve	ert the procedure	e sentences to	a lettered list.		
				Proposed	Response	Response	Status O		
C/ 153 SC 153.3.2.1	P 95	L 20	# 37				B		
Brown, Matt	Huawei Tech	nologies Canada		C/ 154	SC 154.1		P100	L10	# 40
Comment Type E	Comment Status X			Brown, Ma	att		Huawei Techi	nologies Canada	
Figure 153-9 is the 100	GBASE-ZR PMA.			Comment	Туре Е	Comment	Status X		
SuggestedRemedy Change "100GBASE-R	" to "100GBASE-ZR".			In the at first bracke	spelled out wor tuse in clause t ets.	ding of DP-DQ he spelled out	PSK the hyphe version should	n is in the wrong occur first follow	place (see 1.5). Also, ed by the acronym in
Proposed Response	Response Status O			Suggested	dRemedy				
	·			Chang DP-D0	ge: QPSK (dual pola	arization - differ	ential quadratu	re phase shift ke	ying) format
C/ 153 SC 153.3.2.2	.2 P95	L 44	# 38	to: "dual-	polarization diffe	erential quadrat	ure phase shift	keying (DP-DQF	PSK)"
Comment Type E Need to spell out first ir	Comment Status X	hin each Clause.		Proposed	Response	Response	Status O		
SuggestedRemedy				C/ 154	SC 154.1		P 101	L 23	# 41
Change start of senten	ce to:			Brown, Ma	att		Huawei Techi	nologies Canada	
"The differential quadra	ture phase shift keying (DQI	PSK) encode …"		Comment	Type E	Comment	Status X	0	
Proposed Response	Response Status 0			In Fig from le	ure 154-1, the le egend.	egend list shou	d be in alphanu	umeric order. Als	o, SC-FEC is missing
				Suggested Move Add S	dRemedy RS-FEC to afte C-FEC after RS	r PMD. S-FEC.			
				Proposed	Response	Response	Status O		

	SC 154.1	P101	L 26	# 42	C/ 154	SC 154.5.3	P 104	L 51	# <u>4</u> 5
Brown, M	latt	Huawei Techr	ologies Canada		Brown, Ma	att	Huawei Tech	nologies Canada	1
Commen	t Туре Т	Comment Status X			Comment	Туре Т	Comment Status X		
In Fig says	gure 154-1, the leg 100GBASE-ZR is	end list note says ZR is a PN for transmission across a bla	1D for 80 km SMF. ack link.	The introduction	Each chang	DQPSK stream car e, it must be referri	ries 50 Gb/s not 100 Gb/s ng to the DQPSK signal o	. Since this is ref n one of the pola	erring to a phase rization states.
Suggeste	edRemedy				Suggestee	lRemedy			
Char	nge "PMD FOR SI	NGLE MODE FIBER 80 km"			Chang	ge "DQPSK 100 Gb	/s signal" to "DQPSK 50 (Gb/s signal".	
IO "PME or "PME	D for BLACK LINK	" "			Proposed	Response	Response Status O		
or sir	milar				C/ 45	SC 45.2.1.186a	I P 44	L 42	# 46
Proposed	d Response	Response Status 0			Bruckman	, Leon	Huawei		
					Comment	Туре Е	Comment Status X		
C/ 154	SC 154.2.	P102	L 25	# 43	The la docun	nguage in this para nent, see for examp	graph is different from the le 45.2.1.186ad	e one used in sim	ilar paragraphs in this
Brown, M	latt	Huawei Techr	iologies Canada		Suggestee	Remedy			
Commen The p	<i>it Type</i> T parameter "rx_sym	Comment Status X abol" is never defined in this (Clause.		Chang registe	ge: " Registers 1.22 ers 1.2276 and 1.22	76 1.2277 are used to rea ?77 are used to read the 3	d the value of a 3 2-bit counter valu	32-bit counter. When Je, the register 1.2276
Suggeste	edRemedy				is read	d first,",			
Defin	ne "rx_symbol".				With:	"Registers 1.2276 a	and 1.2277 are used to rea	ad the value of a	32-bit counter. When
Proposed	d Response	Response Status 0			registe read f	ers 1.2276 and 1.22 irst, "	are used to read the 3	2-bit counter valu	ie, register 1.2276 is
					Proposed	Response	Response Status O		
C/ 154	SC 154.3.2	P 102	L 50	# 44					
Brown, M	latt	Huawei Techr	ologies Canada		C/ 45	SC 45.2.1.186a	m P45	L10	# 47
Brown, M Commen	natt <i>Type</i> E	Huawei Techr Comment Status X	nologies Canada		<i>Cl</i> 45 Bruckman	SC 45.2.1.186a , Leon	m P 45 Huawei	L10	# [47
Brown, M <i>Commen</i> Edito	latt <i>t Type</i> E pr's note should be	Huawei Techr <i>Comment Status</i> X in prescribed format (not red	iologies Canada italic text).		Cl 45 Bruckman <i>Comment</i>	SC 45.2.1.186a , Leon <i>Type</i> E	m P45 Huawei Comment Status X	L10	# 47
Brown, M Commen Edito Suggeste Crea	latt <i>t Type</i> E or's note should be <i>edRemedy</i> ite editor's notes us	Huawei Techr <i>Comment Status</i> X in prescribed format (not red sing proper format.	nologies Canada ⊨italic text).		CI 45 Bruckman Comment The la docun	SC 45.2.1.186a , Leon <i>Type</i> E Inguage in this para tent, see for examp	m P45 Huawei Comment Status X graph is different from the le 45.2.1.186ad	L10	# 47
Brown, M Commen Edito Suggeste Crea Singl	latt <i>t Type</i> E br's note should be <i>edRemedy</i> te editor's notes us le-cell table in "Edi val places in Claur	Huawei Techr <i>Comment Status</i> X in prescribed format (not red sing proper format. tor's note" table format.	nologies Canada italic text).	L	CI 45 Bruckman Comment The la docun Suggested	SC 45.2.1.186a , Leon <i>Type</i> E Inguage in this para tent, see for examp <i>Remedy</i>	m P45 Huawei Comment Status X graph is different from the le 45.2.1.186ad	L10	# [47 ilar paragraphs in this
Brown, M Commen Edito Suggeste Crea Singl Seve Proposed	latt <i>at Type</i> E or's note should be <i>edRemedy</i> te editor's notes us le-cell table in "Edi eral places in Claus <i>d Response</i>	Huawei Techr Comment Status X in prescribed format (not red sing proper format. tor's note" table format. se 154. Response Status O	nologies Canada l italic text).		Cl 45 Bruckman Comment The la docun Suggestee Chang registe	SC 45.2.1.186a , Leon <i>Type</i> E inguage in this para hent, see for examp <i>dRemedy</i> ge: "When registers or 1.2278 is read fir	m P45 Huawei Comment Status X Igraph is different from the le 45.2.1.186ad 1.2278 and 1.2279 are us st,"	L10 e one used in sim	# 4 <u>7</u> ilar paragraphs in this 2-bit counter value, the
Brown, M Commen Edito Suggeste Crea Singl Seve Proposed	latt <i>at Type</i> E br's note should be <i>edRemedy</i> te editor's notes us le-cell table in "Edi eral places in Claus <i>d Response</i>	Huawei Techr <i>Comment Status</i> X in prescribed format (not red sing proper format. tor's note" table format. se 154. <i>Response Status</i> O	nologies Canada		Cl 45 Bruckman Comment The la docun Suggested Chang registe With: registe	SC 45.2.1.186a , Leon Type E Inguage in this para hent, see for examp dRemedy ge: "When registers er 1.2278 is read fir "When registers 1.2 er 1.2278 is read fir	m P45 Huawei Comment Status X Igraph is different from the le 45.2.1.186ad 1.2278 and 1.2279 are used st,"	L10 e one used in sim sed to read the 3 to read the 32-bi	# 4 <u>7</u> ilar paragraphs in this 2-bit counter value, the t counter value,

CI 45	SC 45.2.1.18	6an <i>P</i> 45	L 29	# 48	C/ 153	SC 153.2	2.3.2.4	P 84	L 43	# 51
Bruckman	, Leon	Huawei			Bruckmar	ı, Leon		Huawei		
Comment The la docum	<i>Type</i> E anguage in this pa nent, see for exar	Comment Status X aragraph is different from th nple 45.2.1.186ad	e one used in sim	ilar paragraphs in this	Comment The la	<i>Type</i> TR ast 3 bytes of	Comr the FAS are	nent Status X 0x24, while ITU-T (G.709 defines the	em as 0x28
Suggestee Chang value, With: count	dRemedy ge: "Registers 1.2 the register 1.22 "Registers 1.228(er. When register	280, 1.2281, 1.2282, and 2 80 is read first, " 0, 1.2281, 1.2282, and 1.22 s 1.2280, 1.2281, 1.2282, a	.2283 are used to 83 are used to re and 1.2283 are us	o read the 64-bit counter ad the value of a 64-bit ed to read the 64-bit	Suggeste Chan in ITL Proposed	dRemedy ge the last 3 I-T G.709 Response	bytes of the F <i>Respo</i>	AS to 0x28 to mak	e them consisten	t with the OTU4 defined
count	er value, register	1.2280 is read first,"			C/ 153	SC 153.	2.3.2.7	P 88	L 5	# 52
Proposed	Response	Response Status O			Bruckmar	ı, Leon		Huawei		
Cl 45	SC 45.2.1.18	6ao P46	L 2	# 49	From 3840 count	G.709 Anne: (the least col er. If this is a	COM C: " LLM = 0 nmon multiple OTL4.4 inter	position shall be a of 240 and 256) f ace as noted in se	aligned with MFAS rame periods." The ction 153.3.2.2.1	S = 0 position every he LLM is the 240- , then we shall have a
Comment The la docum	<i>Type</i> E anguage in this pa nent, see for exar	Comment Status X aragraph is different from th nple 45.2.1.186ad	e one used in sirr	ilar paragraphs in this	simila to 15) We m <i>Suggeste</i>	r requirement when MFAS ay not be ab	t. Note that th =0x00, otherv le to reuse the	is means the LLM vise the requirement OTN HW, or have	shall be forced to nt will never be m e interoperability	a value of nx16 (n=0 iet. issues with such HW.
Chang count With: count	ge: "When registe er value, the regis "When registers er value, register <i>Response</i>	ers 1.2284, 1.2285, 1.2286, ster 1.2284 is read first," 1.2284, 1.2285, 1.2286, an 1.2284 is read first," Response Status, 0	and 1.2287 are u d 1.2287 are used	sed to read the 64-bit I to read the 64-bit	There 1- Ad every 2 - Ju aligne frame clarifi	are 2 option d the followin 3840 (the lease st add a note d with MFAS periods to b cations regar	s: g text: " This ast common n saying: "ITU- = 0 position e able to TBD ding the need	counter 0 position s nultiple of 240 and T G.709 Annex C every 3840 (the lea " and send a liaisic of this synchroniza	shall be aligned v 256) frame perio requires that this ast common multi on to ITU-T SG15 ation and what wi	vith MFAS = 0 position ds." counter 0 position be ple of 240 and 256) /Q11 asking Il happen if we do not
, lopooou	ricoponeo				requir	e it	_	_		
C/ 80	SC 80 1 5	P49	/ 6	# 50	Proposed	Response	Respo	nse Status O		
Bruckman	leon	Huawei	20	" 30						
Comment Missir	<i>Type</i> E ng the "R"	Comment Status X								
Suggestee Chang	d <i>Remedy</i> ge "100GBASE-Z	" to "100GBASE-ZR"								
Proposed	Response	Response Status 0								

C/ 153	SC	153.2.3.3.2	P88	L 53	# 53	C/ 153	SC 15	3.3.2.2.1	P 95	L 38	# <u>5</u> 6
Bruckman	, Leon		Huawei			Bruckman,	Leon		Huawei		
Comment	Туре	TR	Comment Status X			Comment	Гуре I	ER	Comment Status X		
The la it as 0	ist byte x28.	of the FAS i	s indicated as carrying the	value 0x24, whi	ile ITU-T G.709 defines	All thro 24.883	ugh sect 2 GBd. T	ion 153 th 'hen in se	e rates are defined using t ction 154 we start using th	he exact values e approximate v	, e.g. (255/227) × alue 27.9525 GBd.
Suggester	dReme	dy 0.0100" with	"0010 1000" to make it co	neistant with the	OTU4 defined in ITU	Refer a approx	also to se imate val	ction 153 lues.	.3.1 (page 94 line 48) to se	e an example of	f linking the exact and
T G.7	9e 001 09				e OT 04 defined in TTO-	Suggested	Remedy				
Proposed	Respo	nse	Response Status O			Add the Gb/s ±	e approxi 20 ppm (mate rate ∼27.9525	to the text as follows: "a GBd)."	signaling rate o	f (255/227) × 24.8832
						Proposed I	Response	e	Response Status 0		
C/ 153	SC	153.2.4.1.1	P 90	L18	# <u>5</u> 4						
Bruckman	, Leon		Huawei			CI 154	SC 15	4 5 2	P104	/ 41	# 57
Comment	Туре	т	Comment Status X			Druckerson	1.00	4.0.2		241	π 51
ITU-T	G.709	does not rec	uire to verify the 240 coun	ter for FAS aligr	nment/alignment loss.	Bruckman,	Leon		Huawei		
Note t	hat if th	e OTU4-like	signal does not include a	240 counter it w	ill probably include the	Comment	Гуре I	E	Comment Status X		
sixth F to a n	FAS by on 100	e value that GBASE-ZR s	passes this test, so it does signal.	s not help in dete	ecting a misconnection	In this (same	section th page line	ne text is: e 51) simil	"Table 154–4 contains the ar text reads: "Table 154–4	mapping" but 4 shows the map	t in the following section
Suggestee	dReme	dy				Suggested	Remedy				
Remo	ve requ	irement to v	erify the 240 counter from	the fas_valid va	riable.	Make t	he two se	entences	consistent by using either	'contains" or "sh	lows" in both sentences.
Add a G.798 conse	definiti sectio	on for lane II n 8.2.6.2: "A 16320-byte p	D alignment/alignment loss new value of the logical la periods the same value is p	s similar to the o ne marker is acc resent after mo	ne found in ITU-T cepted when in five dulo 20 operation of the	Proposed I	Response	e	Response Status O		

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." Proposed Response

Response Status 0

C/ 153	SC 153.2.5.1	P93	5	L 34	# 55
Bruckman, I	Leon	Huawe	ei		
<i>Comment T</i> Spare li	<i>ype</i> E ne	Comment Status	X		
SuggestedF Remove	Remedy e the spare line				
Proposed R	lesponse	Response Status	0		

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/ 154	SC 154.5.4	P 105	L 16	# 58	C/ 153	SC 153.2.4.4	P 93	L 6	# 61
Bruckman	, Leon	Huawei			Bruckman,	Leon	Huawei		
Comment	Type TR	Comment Status X			Comment	Туре т	Comment Status X		
"SIGN	IAL_DETECT shal	l be a global indicator of the	presence of op	tical signals on both	Undefi	ned variable in F	igure 153-8: "all_fas_valid"		
lanes. condit	ions defined in Ta	SIGNAL_DETECT parameters	er shall be gener	ated according to the	Suggestea	Remedy			
comp	iant 100GBASE-R	signal is being received."			Define	"all_fas_valid".			
The re points lane (equirement is to ve to Table 154-9 the per polarization).	rify that there is an optical s at defines the average input	ignal on both la power for the w	nes, but Table 154-4 hole signal, not per	My sug are co acquire	ggestion: Boolea nsidered to be a ed on each FEC	in variable that is set to true if ligned when fas_lock <x> is tru lane, and each FEC lane has</x>	all FEC lanes a ue for all x, fram a unique lane l	are aligned. FEC lanes e alignment has been number. Otherwise, this
Suggestee	dRemedy				variabl	e is set to faise.			
If the define	optical signal powe it that way in Tab	er is required to be monitore le 154-9.	d per lane (per	polarization), then	Proposed	Response	Response Status O		
lf not,	then change the S	GIGNAL_DETECT definition	to: "SIGNAL_D	ETECT shall be a	C/ 153	SC 153.2.3.3	s.1 <i>P</i> 88	L 43	# 62
Bronocod		Beence of optical signals. a	ind remove on	both lines	Bruckman,	Leon	Huawei		
Fioposeu	Response	Response Status U			Comment	Type TR	Comment Status X		
					The fra	ame start positio	n and the FEC lane number s	hall be maintair	ned during alignment
Cl 154	SC 154.5.4	P105	L 35	# 59	loss to	avoid problems	when loss of alignment happ	ens due to bit e	rrors.
Bruckman	, Leon	Huawei			Suggested	Remedy	was start assisted and the FF		hall ha maintain ad
Comment	Type E	Comment Status X			during	loss of alignmer	ame start position and the FEG	Jiane number s	shall be maintained
Unned					Proposed	Response	Response Status 0		
Suggester	dRemedy	, "for"							
Remo	Ne the unnecesary				C/ 153	SC 153.2.4.2	P 91	L17	# 63
Proposea	Response	Response Status O			Bruckman,	Leon	Huawei		
					Comment	Type TR	Comment Status X		
C/ 153	SC 153.2.4.4	P 93	L 3	# 60	Why is	s fas_match dep	endent on first_fecl and curre	nt_fecl ? It is en	ough to compare to the
Bruckman	, Leon	Huawei			FAS ki	nown sequence.	T C 708 similar interfaces it	is anough to top	t a fixed subset of EAS
Comment	Туре Т	Comment Status X			bytes ((3rd, 4th, 5th)		is enough to tes	a liked subset of PAS
Undef	ined variable in Fig	gure 153-8: "fas_status"			Suggested	Remedy			
Suggestee	dRemedy				Replac	ce: "fas match is	s true if fas valid is true for firs	st fecl and curr	ent fecl,"
Define	e "fas_status"				\ \ /;+L "	faa matah is too	a if the third fourth and fifth -	ototo motok 46 -	known bits of the
Proposed	Response	Response Status O			patterr	n described in 15	53.2.3.2.4,"	cleis maich the	Known bits of the

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	1 P 90	L 32	# 64	C/ 153	SC 153.2.4.1.	1 <i>P</i> 90	L15	# 67
Bruckman	ı, Leon	Huawei			Bruckman	, Leon	Huawei		
Comment	Туре Т	Comment Status X			Comment	Туре Т	Comment Status X		
Wher	e is the fec_alignm	ent_valid variable set ? It c	loes not show up	in the state machines.	The al ITU-T	ignment scheme G.798 alignment	can be simplified. Also the schemes for similar signals	scheme is not co	onsistent with similar
Suggester Add s state	<i>dRemedy</i> etting of fec_alignr and TRUE in ALIG	ment_valid to Figure 153-8, N_ACQUIRED state	FALSE in LOSS	_OF_ALIGNMENT	Suggested Replac	IRemedy ce: "Boolean varia	ble that is set to true if the	received 6-octet	sequence is a valid
Proposed	Response	Response Status O			trame variab known value	alignment signal. le bits. The seque bits of the patter in the range 0 to 2	ne frame alignment signa ence is considered to be val n described in 153.2.3.2.4, 239 with the most-significan	id if four of the fi and the 6th octe t bit transmitted	irst five octets match the trepresents a numerical first.
C/ 153	SC 153.2.4.1.1	1 P 90	L 34	# 65		5			
Bruckmar	n, Leon	Huawei			With: ' alignm	'Boolean variable lent signal. The fr	that is set to true if the rece ame alignment signal consi	eived 5-octet sec ists of 40 known	quence is a valid frame
Comment What	<i>Type</i> E is the difference be	<i>Comment Status</i> X etween: "fas_lock <x> is tru</x>	e for all x" and "fr	ame alignment has	consic in 153	lered to be valid if .2.3.2.4."	a subset of 4 octets match	the known bits	of the pattern described
been	acquired on each F	FEC lane" ?		5	Proposed	Response	Response Status 0		
Suggester Remo	dRemedy ove: "frame alignme	ent has been acquired on e	ach FEC lane"						
Proposed	Response	Response Status 0			C/ 153	SC 153.2.4.2	P 91	L14	# 68
ropoodu	Response				Bruckman	, Leon	Huawei		
					Comment	Туре Т	Comment Status X		
Cl 153 Bruckmar	SC 153.2.1 n. Leon	P 82 Huawei	L10	# 66	The al similar	ignment loss scho ⁻ ITU-T G.798 alig	eme can be simplified. Also nment schemes for similar	the scheme is r signals.	not consistent with
Comment	Type TR	Comment Status X			_				
The S fec_a fec_a pre-Fl	BIGNAL_OK param lign_status. lign_status is false EC high BER. Acco	eter of the FEC:IS_SIGNA if any lane looses alignme ording to the text in this cas	L.indication primi nt, but this happe se receiver may b	tive is driven by Ins frequently due to e impaired frequently.	Suggested Replac valid fi compa octets	<i>Remedy</i> ce: "This function rame alignment se arison using the va match the known	compares the values of firs equence has been detected ariable fas_match. fas_mat bits of the pattern describe	t_fecl and curre and returns the ch is true if the t	nt_fecl to determine if a result of the hird, fourth and fifth and the 6th octet of
Suggester Add p I sugg	dRemedy ersistency check c gest a 3msec persi	of fec_align_status before c stency check to be in line v	hanging SIGNAL <i>v</i> ith ITU-T G.798	_OK to not OK.	first_fe 6th oc 20. Ot	ecl (interpreted wi tet of current_fecl herwise, fas_mate	th the most significant bit tr (interpreted with the most ch is false."	ansmitted first) r significant bit tra	nodulo 20 is equal to the nsmitted first) modulo
Proposed	Response	Response Status O			With: ' valid fi compa octets is false	'This function con rame alignment so arison using the va match the known e."	npares the values of first_fe equence has been detected ariable fas_match. fas_mat bits of the pattern describe	ecl and current_f I and returns the ch is true if the t ed in 153.2.3.2.4	ecl to determine if a result of the hird, fourth and fifth . Otherwise, fas_match
					Proposed	Response	Response Status 0		

C/ 153	SC 153.2.4.4	P 92	L13	# 69	C/ 153	SC 153.2.3.4	4 P85	L6	# 72
Bruckman,	Leon	Huawei			Trowbridge	e, Steve	Nokia		
Comment There	<i>Type</i> T is no action in FA	Comment Status X S_COMPARE state			Comment Unclea	<i>Type</i> E ar Wording	Comment Status X		
Suggested Add th Proposed I	Remedy e FAS_COMPAR Response	E function to the FAS_CO Response Status O	MPARE state		Suggested Chang differe distribi algorit space	<i>Remedy</i> ge "GMP is a ge nce between the ution algorithm" hm to accommo in which it is ca	neric mechanism that can acc e payload and the space in wh to "GMP is a generic mechan odate an arbitrary signaling rat rried"	ommodate arb ich it is carried ism that uses a e difference be	itrary signaling rate I that uses a sigma/delta a sigma/delta distribution tween a payload and the
C/ 153	SC 153.2.4.1.	1 P 90	L 37	# 70	Proposed	Response	Response Status O		
Bruckman,	Leon	Huawei							
Comment Why is first_fe	<i>Type</i> T the fec_lane var cl, and it is only u	Comment Status X iable required ? It will alway ised in the 2_GOOD state	ys be assigned the to set the value of	e same value as the	<i>Cl</i> 80 D'Ambrosi	SC 80.1.4 a, John	P 56 Futurewei, U.	L 32 S. Subsidiary c	# <u>79</u> f Huawei
Remov Remov Proposed I	Remedy ve the fec_lane va Response	ariable and replace fec_lan Response Status O	e with first_fecl in	th 2_GOOD state.	Descri 100Gb reach lanes"	ption for 100 GE b/s PHY using 10 up to at least 80 in the draft	BASE-ZR states 00GBASE-R encoding over or) km (see Clause154). There	ne WDM lane of the	on a DWDM system, with e terminology "WDM
<i>Cl</i> 45 Trowbridge	SC 45.2.1.186	ab.7 P37 Nokia	L 25	# [71	Suggested Chang 100Gt define	<i>Remedy</i> je description to b/s PHY using 10 d frequency arid	00GBASE-R encoding over a , with reach up to at least 80 l	single wavelen (m (see Clause	gth/frequency on a a154).
<i>Comment</i> It is no	<i>Type</i> E t clear to all read	Comment Status X ers why only the value "1" i	s supported.		Proposed	Response	Response Status O	,	,
Suggested Add ar are ma since t Proposed I	Remedy explanatory "NC ndatory in the co hese states are a Response	TE: The FEC states that a ntext of Clause 152. There lways supported for Clause <i>Response Status</i> O	re optional in the fore the value of t e 152 implementa	context of Clause 91 his bit is fixed at 1, ions."	C/ 1 D'Ambrosi <i>Comment</i> SC-FE	SC 1.5 a, John <i>Type</i> E EC is not defined	P 22 Futurewei, U.s <i>Comment Status</i> X d in abbreviations	L 50 S. Subsidiary c	# <mark>80</mark> f Huawei
					Suggested Add al SC-FE	<i>Remedy</i> bbreviation to 1. EC Staircase	5 9 FEC		
					Proposed	Response	Response Status O		

C/ 154	SC 154.3.2	P 102	L 51	# 81	C/ 154	SC 154.2	P 102	L 26	# 84			
D'Ambros	ia, John	Futurewei, U.S	S. Subsidiary of	Huawei	Schmitt, N	latt	CableLabs					
Comment the fo editor	t <i>Type</i> E Illowing text "Add 's note.	Comment Status X itional information on skew va	riation to be add	led." appears to be an	Comment Type E Comment Status X The font (or font size) of the last paragraph in 154.2 does not seem to match the text around it.							
Suggester	dRemedy				Suggester	dRemedy						
chang	ge noted stateme	nt to an editor's note.			Adjus	t font and/or fon	t size as necessary to match s	urrounding text.				
Proposed	l Response	Response Status O			Proposed	Response	Response Status O	-				
C/ 154	SC 154.3.2	P103	L10	# 82	C/ 154	SC 154.6	P106	L 41	# 85			
D'Ambros	ia, John	Futurewei, U.S	S. Subsidiary of	Huawei	Schmitt, N	latt	CableLabs					
Comment	tType ER	Comment Status X			Comment	Туре Е	Comment Status X					
"89.7. Claus Suggester delete	2 needs to be up se 89 is about 400 <i>dRemedy</i> e noted comment	dated for multi-lane implement GBASE-FR - which is not in se	ntations" cope for 802.3ct		single and w disting Suggester	optical frequence avelength are the ctly different. The dRemedy	cy (often also referred to as wa e same and interchangeable; i herefore, the statement is argue the sentence to read as follows	velength)". Thi n reality, they a ıbly misleading,	s implies that frequency ire directly related but /incorrect.			
Proposed	Response	Response Status O			freque	ency (often also	referred to by it's associated w	avelength)". O	r something similar.			
					Proposed	Response	Response Status O	- /	-			
C/ 154	SC 154.6	P107	L 27	# 83								
D'Ambros	ia, John	Futurewei, U.S	S. Subsidiary of	Huawei	C/ 154	SC 154.7.1	P 109	L 37	# 86			
Comment	tType E	Comment Status X			Schmitt, N	latt	CableLabs					
Ihere	e is a black squar	e in Fig 154-3 that does not a	ppear to belong	in the figure	Comment	Туре Т	Comment Status X					
Suggeste delete	<i>dRemedy</i> e noted black squ	lare			In Tat to be	ble 154-8, there resolved.	is a TBD for "Skew between th	e two polarizatio	ons (max)" that needs			
Proposed	Response	Response Status 0			Suggeste	dRemedy						
					Propo John more evider will pla	se changing "TE DeAndrea at the stringent 6 ps re nce that a relaxa an to present on	BD" to "10" [ps] to align with ITU November plenary (deandrea equirement in the CableLabs Pi ation to 10 ps is harmful, I propo this at the interim in January.	J requirement. _3ct_01) shows HYv1.0 spec; ho ose adopting th	The contribution from data to support the owever, barring e ITU requirement. I			
					Proposed	Response	Response Status 0					

C/ 154 SC 154.7.	1 P109	L 43	# <u>8</u> 7	C/ 154	SC 154.7.2	P 110	L 28	# 90
Schmitt, Matt	CableLabs			Schmitt, Ma	att	CableLabs		
Comment Type T	Comment Status X			Comment	Туре т	Comment Status X		
In Table 154-8, then	e is a TBD for "Average launch p	ower of OFF tra	ansmitter, each lane	In Tabl	e 154-9, there is	s a TBD for "Receiver reflecta	nce (max)" that	needs to be resolved.
(max)" that needs to	be resolved.			Suggested	Remedy			
SuggestedRemedy				Propos	e changing "TB	D" to "20" [dB] to align with Ca	ableLabs and O	IF specifications, as
Propose changing " the contribution from	I BD" to "-35" [dBm] to align with n John DeAndrea at the Novemb	other industry (er plenary (dea	proups, as proposed in drea 3ct 01).	was pr	oposed in the property will prepa	resentation from myself and A re a presentation that includes	tul S. from NEL	America at the call in
Proposed Response	Response Status O			interim				induction for the bundley
				Proposed I	Response	Response Status 0		
	1 <i>P</i> 109	L 44	# 88					
Schmitt, Matt	CableLabs			C/ 154	SC 154.7.3	P 110	L 52	# 91
Comment Type T	Comment Status X			Schmitt, Ma	att	CableLabs		
In Table 154-8, then	e is a TBD for "Optical return los	s tolerance (ma	x)" that needs to be	Comment	Туре Т	Comment Status X		
resolved.				In Tabl	e 154-10, there	is a TBD for "Minimum optica	l return loss at ⁻	TP2" that needs to be
SuggestedRemedy				resolve	ed.			
Propose changing "	TBD" to "25" [dB] to align to Cab	leLabs requirem	nent, with the caveat	Suggested	Remedy			
that used in the Cab slightly relaxed relat	of this figure shall be done in the bleLabs spec, hence the CableLa ive to the ITU requirement, and I	abs requirement based on the pro	of -25 dB). That's esentation on	Propos functio needeo	se eliminating th nally equivalent d here. I will pre	is parameter from the table (d to the Tx Reflectance parame pare a presentation on this pr	eleting the entir ter in Table 154 oposal for the J	e row). I believe this is 4-8, and therefore is not lanuary interim.
reflectance by myse have minimal impac January interim.	If and Atul S. from NEL America t on performance. Will prepare a	at the call in De a presentation th	ecember, this should nat includes this for the	Proposed I	Response	Response Status 0		·
Proposed Response	Response Status O			C/ 154	SC 154.7.3	P 110	L 53	# 92
				Schmitt, Ma	att	CableLabs		
C/ 154 SC 154.7.	1 <i>P</i> 109	L 46	# 89	Comment	Туре Т	Comment Status X		
Schmitt, Matt	CableLabs			In Tabl	le 154-10, there	is a TBD for "Maximum discre	ete reflectance b	between TP2 and TP3"
Comment Type T	Comment Status X			that ne	eas to be resolv	/ea.		
In Table 154-8, ther	e is a TBD for "Transmitter reflec	ctance (max)" th	at needs to be resolved.	Suggested	Remedy		- I - Alia - Alia - Ali	
				Propos	se eliminating th	is parameter from the table (d	eletina the entir	e row). With the

SuggestedRemedy

Propose changing "TBD" to "20" [dB] to align with CableLabs and OIF specifications, as was proposed in the presentation from myself and Atul S. from NEL America at the call in December. Will prepare a presentation that includes this recommendation for the January interim.

Proposed Response Response Status 0

combination of Tx Reflectance (Table 154-8), Return Loss Tolerance (Table 154-8), and Receiver Reflectance (154-9), this parameter is not needed and is effectively redundant. I will prepare a presentation ont his proposal for the January interim.

Proposed Response Response Status **0**

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/ 154	SC 154.8	P111	L17	# 93	C/ 154 SC 154.7	1 <i>P</i> 109	L 43	# 96
Schmitt N	/att	Cablel abs			Maniloff Fric	Ciena		
Comment	Туре Т	Comment Status X			Comment Type E	Comment Status X		
Claus	e 154.8 contains	definitions of optical parameter	ers and measure	ement methods.	The Tx power being	referred to here is for Tx disable	ed.	
Howe	ver, in comparing	g the list of optical parameters	in Tables 154-8	, -9, and -10 with this	SuaaestedRemedv			
	appears that a n	umber of parameters have no	definition.		Change Description	n text to "disabled transmitter".		
Suggester	arkemeay	ns for each parameter in Table	oc 154 8 0 on	d 10 and if nocossany	Proposed Response	Response Status O		
for ea encou	ich where there c urage contribution	surrently isn't a definition simply	y listing the text	as TBD in order to	· ·			
Proposed	Response	Response Status 0			C/ 154 SC 154.8	.12 P113	L 5	# 97
					Maniloff, Eric	Ciena		
~			1.00	"	Comment Type E	Comment Status X		
C/ 154	SC 154.5.4	P105	L 22	# 94	Text reading "define	es the range over which the requ	irement for OSN	NR(193.6) needs to be
Maniloff, E		Ciena			met" is misleading.	This apples to 154.8.13 as well.		
Comment	Type E	Comment Status X			SuggestedRemedy			
Defini define	ition of "Both Lan ed.	ies" is ambiguous. The lanes b	eing referred to	here should be	Change wording to be met at the minim	"defines the input power range o num OSNR defined by OSNR(19	over which the B 93.6)".	ER requirement must
Suggestee	dRemedy				Proposed Response	Response Status O		
Chang	ge wording to so	mething along the lines of "on	each polarizatio	n state".				
Proposed	Response	Response Status O			C/ 154 SC 154.8	.14 <i>P</i> 113	L17	# 98
					Maniloff, Eric	Ciena		
C/ 154	SC 154.6	P 107	L 34	# 95	Comment Type E	Comment Status X		
Maniloff, E	Eric	Ciena			Power range for OS	SNR measurement is not specifie	ed.	
Comment	Туре Е	Comment Status X			SuggestedRemedy			
Black The a	link loss budget mplified case is t	does not support the full 80km the primary application, and th	reach for unan e only applicatio	plified applications. In with all parameters	Add text indicating Table 154-9	that OSNR requirement must be	met over power	r range as specified in
define	ed. This should b	e noted in the Black Link desc	ription.		Proposed Response	Response Status 0		
Suggestee	dRemedy							
Note t based	that the primary a d on the Tx powe	application is amplified, as the r and Rx power specs, along to	unamplified cas o fiber loss.	e will not reach 80km				

Proposed Response Response Status **0**

C/ 154	SC 154 8 15	P113	1 24	# 00	C/ 154	SC	154 7 2		P110	/ 28	# 102
Maniloff F		Ciena		# <u>5</u> 5	Zhang Bo		104.7.2		Innhi	220	# []02
Comment	Type F	Comment Status X			Comment	Type	TR	Comme	ent Status X		
Text r	eading " with likely	shorter links than 80 km" is	awkward.		Sugae	est fill in	the value	instead of	TBD. In line with	recent presentat	ion
Suggestee	dRemedy				(http:// we are	/www.ie e in sup	eee802.or	g/3/ct/publi	c/tf_interim/19_12	219/schmitt_3ct_	01_191219.pdf) which
Chang usage the m	ge wording to "The of the same rece aximum reach of t	e requirement for OSNR(193. iver for unamplified application hese applications to less that	6) [unamplified] ons. DWDM cha n the 80km max	is intended to specify nnel loss will likely limit imum reach specified."	Suggested -20dB	dRemed '	dy				
Proposed	Response	Response Status O			Proposed	Respor	nse	Respon	se Status O		
C/ 154	SC 154.7.1	P109	L 25	# 100	CI 45	SC	45.2.1.18	6an	P 45	L 29	# 103
Zhang, Bo)	Inphi			Nicholl, G	arv			Cisco Systen	ns	
Comment	Type TR	Comment Status X			Comment	Type	Е	Comme	ent Status X		
Simila power Suggested averag	ir to receiver chara to amplified and i <i>dRemedy</i> ge channel output iplified] (min): -8df	acteristics spec table, sugges unamplified cases. power [amplified] (min): -10c Bm @193.6THz	it separate the a	nannel output power	registe read, a than th	ed to re ers 1.22 and rea he curre	ead the 64 281, 1.228 ads of regi ent value	beems qu l-bit counte 2 and 1.22 sters 1.228 of the coun	r value, the regist 83 are latched wh 1, 1.2282, and 1. ter."	ters 1.2280, 1.22 ter 1.2280 is read nen (and only who 2283 return the la	1, 1.2282, and 1.2283 I first, the values of en) register 1.2280 is atched value rather
Proposed	Response	Response Status O			Suggested	dRemed	dy 				
, C/ 154	SC 154.7.1	P109	L46	# 101	Sugge 1.228 read f when)	est split 1, 1.228 irst and registe	ing into at 32, and 1. the value er 1.2280	least two s 2283 are us s of registe s read. Rea	entences, perhap sed to read the 64 ers 1.2281, 1.2282 ads of registers 1.	os something like 1-bit counter valu 2 and 1.2283 are .2281. 1.2282. ar	"Registers 1.2280, e. Register 1.2280 is latched when (and only nd 1.2283 always return
Zhang Bo		Inphi			the lat	ched va	alue rathe	r than the o	current value of th	e counter."	,
Comment Sugge	<i>Type</i> TR est fill in the value	Comment Status X instead of TBD. In line with re	ecent presentat	on	Sugge sectio	est usin n.	g similar l	anguage fo	r the description o	of other 32-bit an	d 64-bit counters in this
(http:// we are	/www.ieee802.org e in support of.	/3/ct/public/tf_interim/19_121	9/schmitt_3ct_0	01_191219.pdf) which	Proposed	Respor	nse	Respons	se Status O		
Suggestee -20dB	dRemedy										
Proposed	Response	Response Status O									

CI 80	SC 80.1.3	P 48	L10	# <u>1</u> 04	C/ 80	SC 80.2.3	P 49	L 42	# <u>1</u> 06
Nicholl, G	ary	Cisco System	IS		Nicholl, G	Bary	Cisco Systems	1	
Comment	tType E	Comment Status X			Comment	t Type E	Comment Status X		
Need	to update the tex	t of list item h to be consiste	ent with changes	made by 802.3cu	The e 802.3	editing instruction Bcu-xx", but the t	n states "as changed by IEEE ext does not include the change	Std 802.3cd-2 s made by 80	2018 and IEEE Std 2.3cu.
Suggeste	dRemedy				Suggeste	dRemedy	5	,	
Chan DR, a to	ge "The MDIs as and Clause 154 fo	specified in Clause 89 for 40 r 100GBASE-ZR use a single	GBASE-FR, Cla e lane data path.	use 140 for 100GBASE- "	Pleas FR1 a	se include the ch and 100GBASE	anges made by 802.3cu, specifi -LR1 PMDs (see 802.3cu D1.1).	ically referenc	e to the 100GBASE-
"The 100G lane o	MDIs as specified BASE-FR1, and ² data path."	I in Clause 89 for 40GBASE- 100GBASE-LR1, and Clause	FR, Clause 140 154 for 100GBA	for 100GBASE-DR, \SE-ZR use a single	Proposea	l Response	Response Status 0		
Proposea	l Response	Response Status 0			C/ 80	SC 80.3.2	P 49	L 27	# <u>1</u> 07
					Nicholl, G	Sary	Cisco Systems	i -	
C/ 80	SC 80.1.5	P 49	L 6	# 105	Comment	t Type 🛛 E	Comment Status X		
Nicholl, G	arv	Cisco System	is		The e	editing instruction	n states "Change the first senter	nce of the sec	ond paragraph of 80.3.2
Comment	tType T	Comment Status X			as fol and n	llows:", but there to underline"	e are no changes indicated in the	following text	t (i.e. no strickthrough
Table	e 80-4b should onl	y have PMD columns for 100)GBASE-ZR. Ba	sically this table should	Suggeste	dRemedy			
0		IC 104-1.			Pleas	se identify the ch	anges to the text with strickthrou	ugh and/or un	derline.
Suggeste	aRemeay				Proposed	l Response	Response Status O		
100G CPPI	BASE-SR10 PME)				·			
100G	BASE-LR4 PMD				C/ 80	SC 80.3.2	P 49	L 28	# 108
100G	BASE-ER4 PMD				Nicholl, G	Sary	Cisco Systems	i	
100G	BASE-SR4 PMD				Comment	t Type T	Comment Status X		
Also	remove all underly	ying in the table. This is a ne	w table and you	are not updating an	"Exar	mples of inter-su	blayer service interfaces for 400	GBASE-R, 100)GBASE-R, and
existi	ng table (so no ne	eed for strickthrough or under	line)		100G	BASE-P". I 1	hought we were adding a new 1	00GBASE-Z	PHY type (see Table 80-
Proposed	l Response	Response Status O			4b), s	so shouldn't this	be included in the list?		
					Suggeste	edRemedy			
					Add r	reference to the	100GBASE-Z PHY		
					Proposed	l Response	Response Status O		

Cl 80 SC 80.1 P48 L3 # 109 Cl 122 SC 152.1.1 P68 L12 # 112 Nicholl, Gary Cisco Systems Comment Type T											
Nicholi, Gary Cisco Systems Comment Type T Comment Status X SuggestedRemedy 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. Proposed Response Response Status O Cit 80 SC 80.1.4 P48 L15 # 110 Nicholi, Gary Cisco Systems Cisco Systems Cisco Systems Comment Type T Comment Status X Cisco Systems Cisco Systems Comment Type T Comment Status X Cisco Systems Cisco Systems Comment Type E Comment Status X Cisco Systems Cisco Systems Comment Type E Comment Status X Cisco Systems Cisco Systems Comment Type E Comment add to new editing instruction to add a description for 100GBASE-P. Proposed Response Response Status X Figure 152-1 P59 L36 # 113 Nicholi, Gary Cisco Systems Comment Type T Comment Status X Figure 152-1 P61 L46 # 114 Nicholi, Gary Cisco Systems Comment Type T Comment Status X Figure 152-1 P61 <td>CI 80</td> <td>SC 80.1</td> <td>P48</td> <td>L3</td> <td># 109</td> <td>C/ 152</td> <td>SC 1</td> <td>52.1.1</td> <td>P58</td> <td>L12</td> <td># 112</td>	CI 80	SC 80.1	P 48	L 3	# 109	C/ 152	SC 1	52.1.1	P 58	L12	# 112
Comment Type T Comment Status X 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. Proposed Response Response Status O Cr 80 SC 80.1.4 P48 L15 # [10] Nicholl, Gary Cisco Systems Cisco Systems Cisco Systems Comment Type T Comment Status X Inbought we had agreed in Hawaii to remove reference to 100GBASE-Z nor or make the clause generic (and not specific to only 100GBASE-ZR and make the clause generic (and not specific to only 100GBASE-ZR and make the clause generic (and not specific to only 100GBASE-ZR and make the clause generic (and not specific to only 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause generic (and not specific to remove reference to 100GBASE-ZR and make the clause genere (and not specific to remove reference to 100	Nicholl, G	ary	Cisco Systems			Nicholl, Ga	iry		Cisco Systems		
Dont 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. Proposed Response Response Status O This sublayer is used in cases where the Reed-Solomon FEC specified in Clause 53 is used between the PMD sublayers of two connected 100G Cl 80 SC 80.1.4 P48 L15 # [11] Nicholl, Gary Cisco Systems Cisco Systems Cisco Systems Comment Type T Comment Status X Rather than changing the description for 100GBASE-R to add DP_DOPSQ modulation, dont we need to add a new decingtion betwo 100GBASE-P. Delest the current defining instruction and add to new editing instruction to add a description of 100GBASE-Z just below the current description for 100GBASE-P. Proposed Response Response Status N Rigues 162.1 Michall, Gary Cisco Systems Comment Type T Comment Status X Rigues 162.1 P51 L49 [11] Nicholl, Gary Cisco Systems Comment Type E Comment Status X Comment Status X Figure 152.1 P61 L46 [14] SuggestedRemedy Update entiting instruction to reflect the changes to Table 80-5 made by 802 3ct. The simplest way to do this ingitible to just show the new rows being added (with unchange now the new rows being added (with unchange	Comment	Туре Т	Comment Status X			Comment	Туре	т	Comment Status X		
SuggestedRenedy Update Figure 80-1 to show the 100GBASE-Z PHY stackup. Proposed Response Response Status 0 Cl 80 SC 80.1.4 P48 L15 # [10] Nicholl, Gary Cisco Systems Comment Type T Comment Status X Rather than changing the description for 100GBASE-R to add DP_DOPSQ modulation, of 100GBASE-Z net description to 100GBASE-R to add DP_DOPSQ modulation, of 100GBASE-Z public between the current description for 100GBASE-P. Proposed Response Response Status 0 Cl 80 SC 80.4 P51 L49 # [11] Nicholl, Gary Cisco Systems Comment Type T Comment Status X Table 80-5 is being updated by 802.3ct. Table 80-5 is ade 90-5 made by 802.3ct. The simplest way to do this might be 10 ustable or the new status S SuggestedRemedy Update enting instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be 10 ustables 0-5 made by 802.3ct. The simplest way to do this might be 10 ustable	Don't	we need to upda	te Figure 80-1 to show the stack	for a 100GB	ASE-Z PHY ?	"This s	ublayer	is used ir	n cases where the Reed-Solon	non FEC spe	ecified in Clause 91 is
Proposed Response Response Status 0 Cl 80 SC 80.1.4 P48 L15 10 Nicholl, Gary Cisco Systems SuggestedRemedy Update scope description to remove reference to 100GBASE-ZR and make the clause generic (and not specific to only 100GBASE-ZR and make the clause generic so that it can be used for other PHYs as well. Proposed Response Rather than changing the description for 100GBASE-P to describe the new 100GBASE-Z SuggestedRemedy Delete the current editing instruction on add at description for 100GBASE-Z. Proposed Response Response Status Cl 80 SC 80.4 P51 L49 Table 80-5 is being updated by 802.3ct SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchnager rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response Response Status Proposed Response Response Status Cl 152 SC 152.5.1 P61 L46 114 Nicholl, Gary Cisco Systems Comment Status X Cisco Systems Comment Status X Comment Type Comment Status X Figure 152-1 P61 <	S <i>ugg</i> ested Updat	<i>dRemedy</i> te Figure 80-1 to	show the 100GBASE-Z PHY sta	ackup.		used a specifi ZR PH	ed in Cla Ys."	chip-to-ci iuse 153	nip of chip-to-module interface is used between the PMD sub	layers of two	connected 100GBASE-
C/ 80 SC 80.1.4 P48 L15 # 110 Nicholl, Gary Cisco Systems Comment Type T Comment Status X Rather than changing the description for 100GBASE-R to add DP_DQPSQ modulation, don't we need to add a new decription bolew 100GBASE-P. O Suggested/Remedy Suggested/Remedy Cisco Systems O Suggested/Remedy Delete the current defining (see Table 80-4b). ? Status O Cisco Systems Cisco Systems Proposed Response Response Status O O Cisco Systems Comment Type T Comment Status X Figure 152-1 bale 80-45 is being updated by 802.3ct Cisco Systems Comment Status X Table 80-5 is being updated by 802.3ct X Vubrickling instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchaged row now shown). That way you should be independent from any changes made in 3ct. Proposed Response Tec Sublayer below the Inverse RS-FEC sublayer. In the spirit keeping the description generic I would suggest also including PMA as an option. SuggestedRemedy Update refigure 152-2 to also show PMA as an option below the Inverse RS-FEC sublayer. In the spirit. Response Response Status O Ci 152 SC 152.5.1 P61 L46 114 Nichol	Proposed	Response	Response Status O			I thoug make	iht we ha the claus	ad agreed e generio	d in Hawaii to remove the refe c (and not specific to only 1000	rence to 100 GBASE-ZR))GBASE-ZR in order to ?
Update scope description to remove reference to 100GBASE-ZR and make the data generic so that it can be used for other PHYs as well. Vicholl, Gary Cisco Systems SuggestedRemedy Delete the current editing instruction and add to new editing instruction to add a description of 100GBASE-P. to describe the new 100GBASE-P. Proposed Response Response Status O Image: Comment Type Comment	CI 80	SC 80 1 4	DA8	/ 15	# 110	Suggestea	Remedy				
Comment Type T Comment Status X Rather than changing the description for 100GBASE-P to add DP_DQPSQ modulation, don't we need to add a new decription below 100GBASE-P to describe the new 100GBASE-Z PHY type we are defining (see Table 80-4b). ? Proposed Response Response Status O SuggestedRemedy Delete the current description for 100GBASE-P. Proposed Response Response Status O Cl 152 SC 152.1.2 P59 L36 # [1]3 Nicholl, Gary Cisco Systems Comment Status X Figure 152-1 makes Clause 152 specific to the 100GBASE-ZR FEC and PMA. SuggestedRemedy Cisco Systems Comment Status X Figure 91-1 in CLause 91), and update any other related text in the clause as nec Nicholl, Gary Cisco Systems Cisco Systems Cisco Systems Comment Type E Comment Status X Figure 91-1 in CLause 91), and update any other related text in the clause as nec SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchnaged rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response Response Status X Proposed Response Response Status O Cisco Systems Cisco Systems SuggestedRemedy <	Nicholl, G	ary	Cisco Systems	213	# 110	Update generi	e scope o c so that	descriptic it can be	on to remove reference to 1000 e used for other PHYs as well.	GBASE-ZR a	and make the clause
Rather than changing the description for 100GBASE-R to add DP_DOPSQ modulation, don't we need to add a new decription below 100GBASE-P to describe the new 100GBASE- SuggestedRemedy Delete the current editing instruction and add to new editing instruction to add a description of 100GBASE-Z just below the current description for 100GBASE-P. Proposed Response Response Status O Cl 80 SC 80.4 P51 L49 # [11] Nicholl, Gary Cisco Systems Comment Type E Comment Status X Table 80-5 is being updated by 802.3ct Status N SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchanged rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response Status O Proposed Response Response Status O Cl 152 SC 152.5.1 P61 L46 # [11] Nicholl, Gary Cisco Systems Cl 152 SC 152.5.1 P61 L46 # [11] Nicholl, Gary Cisco Systems O Cl 152 SC 152.5.1 P61 L46 # [11] Nicholl, Gary Cisco Systems Comment Type T Comment Status X Figure 152.2 shows a FEC sublayer	Comment	Туре Т	Comment Status X			Proposed	Respons	е	Response Status O		
SuggestedRemedy Delete the current editing instruction and add to new editing instruction to add a description of 100GBASE-Z just below the current description for 100GBASE-P. Nicholl, Gary Cisco Systems Proposed Response Response Status O Cl 80 SC 80.4 P51 L49 # 111 Nicholl, Gary Cisco Systems Comment Type E Comment Status X Comment Type E Comment Status X Table 80-5 is being updated by 802.3ct O SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchanged rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response Response Status O Proposed Response Response Status O Cisco Systems Comment Type T Comment Status X SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchanged rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response Response Status O Proposed Response Response Status O Ci 152 SC 152.5.1 P61 L46 </td <td>Rathe don't v Z PHY</td> <td>er than changing t we need to add a Y type we are de</td> <td>he description for 100GBASE-F new decription below 100GBAS fining (see Table 80-4b). ?</td> <td>to add DP_E SE-P to descr</td> <td>QPSQ modulation, ibe the new 100GBASE-</td> <td>C/ 152</td> <td>SC 1</td> <td>52 1 2</td> <td>P59</td> <td>/ 36</td> <td># 113</td>	Rathe don't v Z PHY	er than changing t we need to add a Y type we are de	he description for 100GBASE-F new decription below 100GBAS fining (see Table 80-4b). ?	to add DP_E SE-P to descr	QPSQ modulation, ibe the new 100GBASE-	C/ 152	SC 1	52 1 2	P 59	/ 36	# 113
Delete the current editing instruction and add to new editing instruction to add a description of 100GBASE-Z just below the current description for 100GBASE-P. Proposed Response Response Status O CI 80 SC 80.4 P51 L49 # 111 Nicholl, Gary Cisco Systems Comment Type E Comment Status X Table 80-5 is being updated by 802.3ct SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchnaged rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response Response Status O SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchnaged rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response Response Status O SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchnaged rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response Response Status O SuggestedRemedy Update Equiption generic 1 would suggest also including PMA as an option. SuggestedRemedy Update Figure 152-2 to also show PMA as an option below the Inverse RS-FEC sublayer Update Figure 152-2 to also show PMA as an option below the Inverse RS-FEC sub-	Suggestee	dRemedy				Nicholl Co		02.1.2	Ciaco Sustama	200	# 110
of 100GBASE-Z just below the current description for 100GBASE-P. Proposed Response Response Status O Cl 80 SC 80.4 P51 L49 # 111 Nicholl, Gary Cisco Systems Update the figure to make the Inverse RS-FEC sublayer generic (similar to what was in Figure 91.1 in CLause 91), and update any other related text in the clause as nec SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchanged rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response Response Status X Proposed Response Response Status O Cl 152 SC 152.5.1 P61 L46 # 114 Nicholl, Gary Cisco Systems Cisco Systems Cisco Systems Cisco Systems SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchanged rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response T Comment Type T Comment Status X Figure 152-2 shows a FEC sublayer below the Inverse RS-FEC sublayer. In the spirit keeping the description generic I would suggest also including PMA as an option. SuggestedRemedy Update Figure 152-2 to also show	Delete	e the current editi	ng instruction and add to new e	diting instruct	ion to add a description	Nicholi, Ga	iry Turno	-			
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C/ 80 SC 80.4 P51 L49 III Nicholl, Gary Cisco Systems Image: Signal and update any other related text in the clause as nec Comment Type E Comment Status X Table 80-5 is being updated by 802.3ct SuggestedRemedy Image: Signal and update any other related text in the clause as nec SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchnaged rows now shown). That way you should be independent from any changes made in 3ct. Cl 152 SC 152.5.1 P61 L46 # 114 Nicholl, Gary Cisco Systems Comment Type T Comment Status X SuggestedRemedy Update editing instruction to reflect the changes to Table 80-5 made by 802.3ct. The simplest way to do this might be to just show the new rows being added (with unchnaged rows now shown). That way you should be independent from any changes made in 3ct. Proposed Response Response Status C Proposed Response Response Status O Comment Type T Comment Status X Figure 152-2 shows a FEC sublayer below the Inverse RS-FEC sublayer. In the spirit keeping the description generic I would suggest also including PMA as an option. SuggestedRemedy Update Figure 152-2						Suggested	Remedy				- ()
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Proposed Response Response Status O SuggestedRemedy Update Figure 152-2 to also show PMA as an option below the Inverse RS-FEC sub	rows r	now shown). Tha	t way you should be independer	it from any ch	anges made in 3ct.	Figure keepin	a the de	ows a FE scription	c sublayer below the inverse deneric I would suddest also it	ncludina PM	blayer. In the spirit of IA as an option.
Update Figure 152-2 to also show PMA as an option below the Inverse RS-FEC sub	Proposed	Response	Response Status O			Suggester	Remedv	,			1
						Update	e Figure	152-2 to	also show PMA as an option b	pelow the Inv	verse RS-FEC sublaver.
Proposed Response Status O						Proposed	Respons	е	Response Status O		- · · · ·

C/ 153	SC 153.3.2.2.1	P 95	L 38	# <u>1</u> 15	C/ 154	SC	154.7.3	P110	L 39	# <u>1</u> 17
Nicholl, G	ary	Cisco Systems			Nicholl, G	ary		Cisco Systems		
Comment	Туре Е	Comment Status X			Comment	Туре	т	Comment Status X		
"in	this manner opera	tes at a signaling rate of (255	5/227) × 24.883	32 Gb/s ±20 ppm"	The m	naximun	n chromat	tic dispersion in Table 154-10 is	s 2400 ps/nn	n". This corresponds to a
Suggestee Recor	dRemedy mmend doing the n	nath and including the aggrga	ate signalling r	ate (as was done in	distan the P I power	ce of 12 HY to op to the s	20km, whi perate ove solution , a	ich is 50% greater than the 80k er a reach 50% greater than the and compromise the BMP and	m objective e target objec EF.	for this PHY. Requiring tive could add cost and
chang "signa	ling rate of (255/22	27) × 24.8832 Gb/s ±20 ppm'	1		l woul ps/nm	d also r , which	note that th is consist	he OIF 400ZR specification has tent with it's reach objective of	s a chromatio 120km.	c dispersion spec of 2400
to:	ling rate of (255/22	07) x 04 0020 Cb/a ±00 ppm	(~ 27 0525 Ch		Suggestee	dRemed	ly			
Also ii	n section 153.3.1 (page 94, line 49) we use "GE	d" , whereas i	n this section we switch	Chang ps/nm	ge the n , to be	naximum (consister	chromatic dispersion in Table 1 ht with an 80 km reach objective	54-10 from 2	2400 ps/nm to 1600
to usii descri	ng "Gb/s". Suggest iption talks about 'b	being consistent throughtou it streams" I would recomme	t the clause. G and using "Gb/	iven that the earlier s" .	Proposed	Respor	ise	Response Status O		
Proposed	Response	Response Status O								
C/ 153	SC 153.3.2.2.2	P95	L 51	# 116						
Nicholl, G	ary	Cisco Systems								
Comment	Type E	Comment Status X								
"The ppm	signaling rate of e	ach stream of DQPSK symb	ols is (255/227) × 24.8832 GBd ±20						
Suggestee	dRemedy									
Recor sectio chano	mmend doing the n n 153.3.1), so ie:	nath and including the aggrga	ate signalling r	ate (as was done in						
"signa to:	aling rate of of each	stream of DQPSK symbols	is (255/227) ×	24.8832 GBd ±20 ppm"						
"signa (~ 27.	aling rate of of each 9525 GBd)"	stream of DQPSK symbols	is (255/227) ×	24.8832 GBd ±20 ppm						
Note, time.	since we are referi	ng to QPSK symbols here, G	Bd is the corre	ect termiology thisa						
Proposed	Response	Response Status 0								