C/ 1	SC 1.4.160a	P 23	L14	# I <u>-</u> 1	C/ 1	SC 1.4.181a	P23	L 20	# <mark>I-</mark> 3
lolfe, Ber	njamin	Blind Creek As	ssociates		Rolfe, Benja	amin	Blind Cr	eek Associates	
Comment	t Type E	Comment Status D			Comment 7	Type GR	Comment Status R	1	
The te 10.6]		e used in its own definition. [IE	EE Standards S	Style Manual, clause	for use	in this standar	d, and redefining the terr	n to be WDM specifi	d) definition is adequate c is a bad idea. All terms
Suggeste	dRemedy						ards are incorporated int s not need further polluti		
transr	mission path betw	e input, output, and transfer ch veen TP2 to TP3 are specified path is implemented.			definitio channe	ons clause of a I spacing, crea	standard. If you really r te a new term such as "l more consistent with th	nust have a DWM sp DWM channel spacir	pecific definition of ng" or "DWDM channel
'	l Response POSED ACCEPT	Response Status W IN PRINCIPLE.			anyone	skilled in the a	el spacing" is a commor art of communications in channels, which is how y	multi-channel mediu	ms, understood to be
Modif	v black link defint	ion to "A methodology where	the input output	and transfer			stating (slightly obscurely		
chara withou	cteristics of the u ut specifying	ni-directional transmission pat			Suggestedl Delete	R <i>emedy</i> term from clau	se 1.4.		
now t	ne transmission p	oath is implemented."			Response		Response Status V	1	
C/ 154	SC 154.6	P 108	L 34	# I-2	REJEC	т.			
Rolfe, Ber	njamin	Blind Creek As	ssociates						
Rolfe, Benjamin Blind Creek Associates					The co	mmentor has n	ot shown how the definit	ion is inconsistent w	ith in-force ITI I-T
-	t Type GR	Comment Status R				mmentor has n rds and industr	ot shown how the definit y usage.	ion is inconsistent w	ith in-force ITU-T
Comment					standa	rds and industr	y usage.		-
omment G.694		Comment Status R			standar <i>Cl</i> 80	rds and industr SC 80.1.4	y usage. P 50	L 54	th in-force ITU-T # [<u>I-4</u>
Comment G.694 Suggeste	4.1 should listed in	Comment Status R n the bibliography (informative			standar C/ 80 Rolfe, Benja	rds and industr SC 80.1.4 amin	y usage. P 50 Blind Cr	L 54 eek Associates	# [-4
Comment G.694 Suggeste Add C Response REJE	4.1 should listed in <i>dRemedy</i> G.694.1 to the bib e ECT.	Comment Status R n the bibliography (informative liography Response Status W	e reference).		standar C/ 80 Rolfe, Benji Comment 7 Abbrev	rds and industr SC 80.1.4 amin <i>Type</i> E	y usage. P 50 Blind Cr <i>Comment Status</i> D ns should be spelled out	L 54 eek Associates	# <u>1-4</u> bucke
Comment G.694 Suggeste Add C Response REJE The n	4.1 should listed in <i>dRemedy</i> G.694.1 to the bib e CT.	Comment Status R n the bibliography (informative liography	e reference).	e 2018 version of the	standar C/ 80 Rolfe, Benja Comment 7 Abbrev 153.3.2 Suggested	rds and industr SC 80.1.4 amin Type E iations/acronyr 2.2.2 where it is	y usage. P50 Blind Cr <i>Comment Status</i> D ns should be spelled out spelled out.	L 54 eek Associates	# [<u>1-4</u> bucke
omment G.694 uggeste Add C esponse REJE The n	4.1 should listed in <i>dRemedy</i> G.694.1 to the bib e CT. cormative reference	Comment Status R n the bibliography (informative liography Response Status W	e reference).	2018 version of the	standar C/ 80 Rolfe, Benji Comment T Abbrev 153.3.2 Suggested spelled Proposed F	rds and industr SC 80.1.4 amin Type E iations/acronyr 2.2 where it is Remedy out at first use Response	y usage. P50 Blind Cr <i>Comment Status</i> D ns should be spelled out spelled out.	<i>L</i> 54 eek Associates at first use, which a	# <u>1-4</u> bucke

C/ 154	SC 154.6	P 107	L 38	# 1-5	C/ 45	SC 45.2.1.18	6aa.1	P 37	L 32	# 1-7
Rolfe, Bei	njamin	Blind Creek A	Associates		Rolfe, Be	njamin		Blind Creek	Associates	
Comment	Type E Con	nment Status A			Commen	t Type E	Commen	t Status R		
DWD	M should be spelled out	at first use. Which a	ppears to be her	e.	"Inve	rse RS-FEC deco	der" should b	e "Inverse RS-	FEC (IFEC) dec	oder"
00	dRemedy nd acronym at first use				00	edRemedy dicated in the com	ment			
Response ACCE	e Res EPT IN PRINCIPLE.	oonse Status C			Respons REJI		Response	Status C		
first u	ne 2020 SA style manual se of the full term (the fin ocument, and then the fin	st time in the introduc	ction, then the fir	st time in the body of	1.22		FEC control			sponse, control register s part of a register name
	y 1.4.35b to read "IEEE & ength division multiplexir					onse to comment	I-8 was:			
modu	lation, and coherent dete e 154.)	ection with reach up to	o at least 80 km.	(See IEEE Std 802.3,	Adop	t option 1 from ://www.ieee802.or	g/3/ct/public/	20_11/trowbrid	ge_3ct_01a_201	116.pdf slides 5-13.
	y the first sentence of 15				Repl	ace the current ab	breviation of	IFEC in 1.5 wit	h "inverse RS-FE	EC"
togeti wave	her with the associated menotic the second second terms in the second seco	iedium, which is a sir ig (DWDM) channel i	ngle-mode fiber l which mav conta	based dense in one or more optical	C/ 1	SC 1.5		P 24	L 4	# I-8
	fiers and is specified usir				Rolfe, Be			Blind Creek		
C/ 45	SC 45.2.1.186ah.2	P 42	L38	# 1-6	Commen		Commen	t Status A		
Rolfe, Bei Comment Abbre	njamin <i>Type</i> E Con eviations/acronyms shoul	Blind Creek A nment Status D	Associates	buck	IFEC E.g. ret FEC place	IFEC as used in the draft text is an abbreviation for inverse RS-FEC (without "sublayer"). E. g. "Inverse RS-FEC decoder", "Inverse RS-FEC Reed-Solomon decoder", "Inverse RS- FEC align status" and so on. Also, the abbreviation is not used consistently. In many places the full term is used. In other places IFEC is used. An abbreviation is not really needed if the full term is used everywhere (which I prefer). But if you have it, use it.				
Suggeste						dRemedy	,		p , , , ,	
•	ed out at first use						FEC and use	the term "Inve	rse RS-FEC" cor	nsistently throughout.
,		oonse Status W			Respons	е	Response	Status C		
PROF	POSED ACCEPT IN PRI	NCIPLE.			•	EPT IN PRINCIPL	•			
The a	bbreviation is spelled out	t in its first use in 45.2	2.1.186ah.			t option 1 from ://www.ieee802.or	a/3/ct/public/	20 11/trowbrid	ae 3ct 01a 201	116.pdf slides 5-13.
Chan	ge "has achived FAS loc	k" to "has achieved fr	rame alignment s	signal (FAS) lock"		ace the current ab		_		
COMMEN	R/technical required ER/e IT STATUS: D/dispatche RDER: Comment ID					ed U/unsatisfied 2	Z/withdrawn	Comn	nent ID 1-8	Page 2 of 27 12/14/2020 12:5

12/14/2020 12:57:40 PM

Rolfe, Benjamin Blind Creek Associates Rolfe, Benjamin Blind Creek Associates Comment Type E Comment Status A Abbreviations/acronyms should be spelled out at first use, which appears to be here (?) SuggestedRemedy This statement is (still) wrong: "The supplier of a protocol implementation that is claimed to conform to Clause 152, Inverse RS-FEC sublayer, shall complete the following protocol implementation conformance statement (PICS) proforma." Response Posponse Status C											
Comment Type E Comment Status A Abbreviations/acronyms should be spelled out at first use, which appears to be here (?) SuggestedRemedy spell out the abbreviation at the first use. Response Response Status C ACCEPT IN PRINCIPLE. Change: "The FAS is the frame alignment signal. This is similar in concept" The frame alignment signal (FAS) is similar in concept" For point 2 in the same list, Change: "The MFAS is a multi-frame alignment signal. This field counts from ." To: "The multi-frame alignment signal (MFAS) is a field that counts from ." "The multi-frame alignment signal (MFAS) is a field that counts from ." "The multi-frame alignment signal (MFAS) is a field that counts from ."	C/ 153	SC 153.2.3.2.4	P84	L 45	# <u>I-9</u>	C/ 152	SC 152.7.1	P 77	L 6	# <u>I-</u> 10	
Abbreviations/acronyms should be spelled out at first use, which appears to be here (?) SuggestedRemedy spell out the abbreviation at the first use. Response Response Status C ACCEPT IN PRINCIPLE. Change: "The FAS is the frame alignment signal. This is similar in concept" To: "The frame alignment signal (FAS) is similar in concept" For point 2 in the same list, Change: "The multi-frame alignment signal. This field counts from ." To: "The multi-frame alignment signal (MFAS) is a field that counts from ." "The multi-frame alignment signal (MFAS) is a field that counts from ." "The multi-frame alignment signal (MFAS) is a field that counts from ." "The multi-frame alignment signal (MFAS) is a field that counts from ." "The multi-frame alignment signal (MFAS) is a field that counts from ." "The multi-frame alignment signal (MFAS) is a field that counts from ."	Rolfe, Benja	amin	Blind Creek A	ssociates		Rolfe, Benj	amin	Blind Creek A	ssociates		
SuggestedRemedy spell out the abbreviation at the first use. Response Response Status C ACCEPT IN PRINCIPLE. Change: "The FAS is the frame alignment signal. This is similar in concept." To: "The frame alignment signal (FAS) is similar in concept" For point 2 in the same list, Change: "The MFAS is a multi-frame alignment signal. This field counts from ." "The multi-frame alignment signal (MFAS) is a field that counts from ." "The multi-frame alignment signal (MFAS) is a field that counts from ."	Comment Ty	ype E	Comment Status A			Comment 7	Type TR	Comment Status R			
<i>SuggestedRemedy</i> Delete the paragraph "The supplier of a protocol implementation that is claimed to conform to Clause 152, Inverse RS-FEC sublayer, shall complete the following protocol implementation conformance statement (PICS) proforma." here, in 153.4.1 and 154.11.1, and anywhere else it appears in this draft.	SuggestedR spell out Response ACCEP Change "The FA To: "The fra For poin "The MF To:	Abbreviations/acronyms should be spelled out at first use, which appears to be here (?) SuggestedRemedy spell out the abbreviation at the first use. Response Response Status C ACCEPT IN PRINCIPLE. Change: "The FAS is the frame alignment signal. This is similar in concept ." To: "The frame alignment signal (FAS) is similar in concept" For point 2 in the same list, Change: "The MFAS is a multi-frame alignment signal. This field counts from ."				 implementation conformance statement (PICS) proforma." This is stating a requirement on the user of the standard. It is not stating a requirement for the implementation, but for the implementer. The behavior of the implementer is (still) outside the scope of this standard. I know, it has always been that wayand it has always been wrong. And BTW totally unnecessary as 80.7 says he same thing, but correctly. You should stop repeating this invalid use of shall in the individual PICS clauses. Just sayin'. Alternately I suppose we could amend the scope of the standard to include human behavior, but I would strongly recommend against that solution. Also (still) wrong in 153.4.1 and 154.11.1. FYI: the correct resolution detail when you reject this comment is "this amendment conforms to the style of the base standard being amended" which is the IEEE-SA way of 					
to Clause 152, Inverse RS-FEC sublayer, shall complete the following protocol implementation conformance statement (PICS) proforma." here, in 153.4.1 and 154.11.1, and anywhere else it appears in this draft.	The filt	alu-iranie alignini	ent signal (INFAS) is a neiu	that counts from	l.	Suggested	Remedy				
Response Response Status W						to Clau implem	se 152, Inverse entation confor	RS-FEC sublayer, shall com mance statement (PICS) pro	plete the followi	ing protocol	
						Response		Response Status W			

REJECT.

This is boiler-plate text that appears in front of essentially every PICS table in the entire base standard.

This does not put a requirement on every implementer, only on those implementers that are claiming they conform to this clause.

C/ 153	SC 153.2.4.2	P 92	L 4	# <mark>I-11</mark>	C/ 153	SC 153.2.4.3	P 92	L 20	# <u>I-</u> 12
Rolfe, Ben	jamin	Blind Creek A	ssociates		Rolfe, Ber	njamin	Blind Creek A	Associates	

Rolfe, Benjamin

Comment Type **TR** Comment Status A

"However, an implementation shall ensure that all possible frame alignment positions are evaluated." is an incorrect use of "shall". This is not stating a verifiable requirement: the "all possible" is an unbounded (infinite) set. There would need to be (likely is) a finite set of frame alignment positions that should be evaluated. To be a valid requirement, you would need to change "possible" to "defined" and then provide a reference to where the defined set of frame alignment positions is enumerated and defined. Then at least you have a valid statement of a requirement. Tho the prior sentence suggests such specification is out of scope of this standard (kind of what "not specified" means). Also, does the SLIP function evaluate every defined position every time, or as suggested by the first sentence, only the next one in the (undefined) list of valid positions? I can see why y'all decided to leave this "implementation dependent" :-).

SuggestedRemedy

Delete "However, an implementation shall ensure that all possible frame alignment positions are evaluated."

Response

Response Status W

ACCEPT IN PRINCIPLE.

While significant freedom is allowed regarding how an implementation finds the FAS pattern, and there is no expectation that an implementation test additional positions after the FAS pattern has been located, there is a requirement that an implementation can find FAS pattern in any possible position.

Change:

"However, an implementation shall ensure that all possible frame alignment positions are evaluated."

To.

"An implementation shall ensure that the FAS pattern can be detected in any possible position."

Rolle, benjamin		Billio Greek Associates
Comment Type	TR	Comment Status A
"The synchro	nizatior	n state diagram determines" really isn't correct The diagra

ram specifies something, it can illustrate something, it can even indicate something, but it can not determine anything. A diagram an specify how the synchronization process determines something, which is what I suspect you mean.

SuggestedRemedy

change to: The synchronization process determines when the SC-FEC has detected the location of the frame alignment sequence in the received bit stream for a given lane of the PMA service interface.

Response Response Status W

ACCEPT IN PRINCIPLE.

Numerous other clauses use similar wording, so in principle, it could be left as is without any risk to implementations.

However, it is more accurate to Change:

"The synchronization state diagram determines when the SC-FEC has detected the location of the frame alignment sequence in the received bit stream for a given lane of the PMA service interface."

To:

"The SC-FEC sublayer uses this process to detect the location of the frame alignment sequence in the received bit stream on each lane of the PMA service interface.

C/ 154	SC 154.1	P101	L 11	# <u>I-</u> 13
Rolfe, Benj				
Comment	Type TR	Comment Status R		
The st	atement "shall h	e connected" is inannronriate	in an overview	subclause This is a

The statement "shall be connected" is inappropriate in an overview subclause. This is a statement of fact relevant to the purpose of the overview, which is providing context.

SuggestedRemedy

Change "shall" to "is".

Response Response Status W

REJECT

The current wording is consistent with the wording in other in-force optical clauses.

C/ 154	SC 154.1.1	P102	L 40	# I <u>-</u> 14	C/ 154	SC	154.9.1	P116	L 7	# I <u>-</u> 16
Rolfe, Be	enjamin	Blind Creek A	Associates		Rolfe, Be	njamin		Blind Creek A	ssociates	
Commer	nt Type TR	Comment Status R			Comment	t Type	Е	Comment Status D		Bucket
prec	ise definition of "s	ficiently random" is cited in a ufficiently random" nor do I ur	nderstand how a	n implementation				to be removed prior to SA ba ne to SA ballot. Stuff happen		
		lomness of bit errors on the n			Suggeste	dReme	dy			
		cify a minimum performance ı /hich it will operate. However			Remove note Editor's note that was meant to be removed before SA ballot					
	edRemedy				Proposed	l Respo	nse	Response Status W		
Prov		sufficiency is verified.	PROPOSED ACCEPT.							
Respons	se	Response Status W			C/ 154	SC	154.9.5	P 116	L 46	# I-17
, REJI	ECT.				Rolfe, Be	njamin		Blind Creek A	ssociates	
The	current wording is	consistent with the wording i	in other in-force of	optical clauses.	Comment	t Type	TR	Comment Status R		
by th rand that	ne FEC (Clause 18 om to meet this re	et frames with minimum interp 53) and PCS (Clause 82). If th equirement, then the BER sha frame loss ratio of less than 6 gap."	he error statistics all be less than	are not sufficiently	chang	ge after -SA and	the public d 802.3.	applicable codes, regulations ation of this standard and all		
C/ 154 Rolfe, Be	SC 154.7.2	P 111 Blind Creek A	L 29 Associates	# <u>I-15</u>	100G	BASE-2	ZR PMD c	plementers responsibility to a omplies with applicable local gnetic interference.		
Commen	2	Comment Status R			Response			Response Status W		
	21	a table) is informative. Thus	s "shall be able to	o tolerate" (stating a	, REJE	CT.				
requ table	irement) can not a (correctlly). The	appear in a note to a table. Th note appears (I'm guessing) t reshold". For sure, "shall" in	ne rquirement (3 to be explanator	dBm) is stated in the y text (informative)	This i stand		cal with te	xt that appears in every optic	al PMD clause i	n the in-force base
Suggeste	edRemedy				C/ 80	SC	80.1.4	P 51	L 4	# I-18
	nge to "Damage tl ated without dama	nreshold is the average optica age. "	al signal average	power level that is	Huber, Th			Nokia		
Respons RE.II	se ECT.	Response Status W			Comment The e		E nstruction	Comment Status D is missing the word 'Table'		bucket
The This	current wording is	optical clauses. to IEEE-SA Style Guide		ge the e	editing inst	truction to read as follows: In td 802.3cu-xx) as follows (un				

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 153	SC 153.2.1	P82	L 7	# I-19
Huber, The	omas	Nokia		
Comment	Type T	Comment Status D		bucket

The description of the sources from which the SC FEC receives information (PCS, Inverse RS-FEC, or PMA) and the destinations to which it sends information (PCS or PMA) are not consistent.

SuggestedRemedy

Revise the last sentence of the paragraph to include the Inverse RS-FEC as a potential destination: The FEC:IS_UNITDATA_i primitives are defined for i = 0 to 19. The PCS, Inverse RS-FEC, or PMA continuously sends 20 parallel bit streams to the SC-FEC sublayer, each at a nominal signaling rate of 5.15625 GBd. The SC-FEC, or PMA, one per lane, each at a nominal signaling rate of 5.15625 GBd.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 153	SC 153.2.1	P 82	L12	# I-20
Huber, Tho	omas	Nokia		
Comment	Туре Е	Comment Status D		bucket

In the description of when the SIGNAL_OK is set to FAIL, the sentence should begin with "The" rather than "That" for consistency.

SuggestedRemedy

Revise the 3rd sentence, replacing 'That' with 'The': The SIGNAL_OK parameter of the FEC:IS_SIGNAL.indication primitive can take one of two values: OK or FAIL. The value is set to OK when the FEC receive function has identified codeword boundaries as indicated by fec_align_status equal to TRUE. The value is set to FAIL when the FEC receive function is unable to reliably establish codeword boundaries as indicated by fec_align_status equal to FALSE.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 153	SC 153.2.3.2	.6	P88	L 7	# I-21
Huber, Tł	nomas		Nokia		
•		~			

Comment Type TR Comment Status A

Figure 153-5 does not clearly indicate the flow into the 'XOR' functions at the top of the figure. There should be arrowheads on the tops of the vertical lines (as figure 11-3 of ITU-T G.709, on which this figure is based, includes).

SuggestedRemedy

Add arrowheads pointing into the three XOR functions on the vertical lines

Response Response Status C

ACCEPT IN PRINCIPLE.

See suggested remedy to accepted comment I-35.

Add right facing arrows before the squiggles on the two bottom lines. Add upward arrows to the three vertical lines to the XOR (circled plus) at the top

C/ 153	SC 153.2.3.2.7		P88	3	L 40	# I-22	
Huber, Thor	mas		Nokia				
Comment T	уре	Е	Comment Status	D			bucket

It would be better to write the sentence below figure 153-6 in the passive voice (the FEC frame doesn't do the distribution; its contents are distributed)..

SuggestedRemedy

Replace: The entire FEC frame consisting of 4080×4 octets distributes 51 groups of 16 octets to each of the 20 FEC lanes. With: 51 groups of 16 octets are distributed from the FEC frame (consisting of 4080 x 4 octets) to each of the 20 FEC lanes.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 153	SC 153.2.	3.2.7 P88	L 44	# I-23
Huber, Tho	mas	Nokia		
Comment 7	Type ER	Comment Status D		bucket

There is ambiguity in the parsing of the first sentence of the second paragraph after figure 153-6 as to whether it is discussing groups of 16 octets (as intended) or 16 "octet groups". A hyphen will make the intended meaning clear.

SuggestedRemedy

Add a hyphen as shown: At each FEC frame boundary, the assignment of 16-octet groups to FEC lanes is rotated..

Proposed Response Response Status W PROPOSED ACCEPT.

CIA SCA	P123	1	# 1-24	C/ 153	SC 153.2.4	P 91	L 32	# 1-27
Huber, Thomas	Nokia	E	π -24	Huber, Tho		Nokia	- U	# <u>1-21</u>
Comment Type ER	Comment Status D		bucket	Comment 7		Comment Status A		
	tain an editing instruction to a	dd G.798, but t		The res	start_lock variabl	e references a "5_BAD" sta sitions based on fas_bad_co		
SuggestedRemedy				Suggested	Remedy			
	tion to insert a reference for [E		98, Characteristics of	Correc	t the text in the d	efinition of restart_lock to re	ference 15_BAD	
	ork hierarchy equipment functi	onal blocks		Response		Response Status C		
Proposed Response PROPOSED ACCEPT	Response Status W T IN PRINCIPLE.			ACCEF	PT IN PRINCIPL	Ε.		
Add an editing instruc	tion to insert the following refe	rence before [F	1821 as inserted by	See su	ggested remedy	to the accepted comment I-	-37.	
IEEE Std 802.3ca-202 hierarchy equipment f	20 "[Bxx] ITU-T G.798 - Chara functional blocks".	acteristics of opt	tical transport network	row fail		of restart_lock description fro D state)" to "It is set to TRU		
C/ 153 SC 153.2.3.		L 21	# 1-25	C/ 154	SC 154.5.4	P106	L33	# 1-28
Huber, Thomas	Nokia						233	# 1-20
Comment Type E	Comment Status D		bucket	Huber, Tho Comment T		Nokia Comment Status A		
used, modulo 20. Thi	second sentence in the parag s would be more clear if the ir was in parentheses. The cros idea	dication that the	e FAS was inserted	The NC differer	DTE above the tance being the firs	able and the footnote to the t t sentence in the note.	table are largely r	edundant, with the onl
SuggestedRemedy				Suggested				
Revise the second set shown: The receive S	ntence to add a comma after ' C-FEC shall order the receive 6th octet of the FAS (inserted	d FEC lanes ac	cording to the FEC lane	Response	PT IN PRINCIPL	ce from the NOTE in the foo <i>Response Status</i> C E.	thote to the table	and delete the NOTE.
Proposed Response PROPOSED ACCEP1	Response Status W			"The P to a fixe	MD global signal ed OK level. Fixi		e state of SIGNAI	DETECT parameter
C/ 153 SC 153.2.3.	3.5 <i>P</i> 89	L 49	# I-26	SIGNA a valid	L_DETECT from signal is being re	n the PMD sublayer at OK al eceived, e.g., according to the	lows upper layers ne ability to acqui	s to determine whether re frame alignment.
Huber, Thomas	Nokia			NOTE-	Average input po	ower is not a reliable indicati		
Comment Type E	Comment Status D		bucket	amplifie	ed system."			
The first sentence of t after 66B blocks.	he paragraph would be more	clear if it include	ed the words 'that was'					
SuggestedRemedy								
	wn: The GMP demapper extra s inserted according to the pro							
Proposed Response PROPOSED ACCEPT	Response Status W							
TYPE: TR/technical requir	ed FR/editorial required GR/	aeneral require	d T/technical E/editorial C/a	eneral		Comm	ent ID 1-28	Page 7 of 27

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

Comment ID 1-28

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C/ 154 SC	154.8.22	P115	L 45	# I-29	C/ 45	SC	45.2.1.18	6ao	P 48	L 12	# <mark>I-</mark> 31
₋aubach, Mark		IEEE member	/ Self Employed		Trowbridg	e, Stepł	hen		Nokia		
Comment Type	Т	Comment Status R			Comment	Туре	ER	Comm	ent Status D		bucke
		n Interferometric crosstal			Table	45–150	am is for	FEC corre	cted bits		
		r class DP-DQPSK applica nals. Hopefully people we			SuggestedRemedy Change "FEC uncorrected codewords" to "FEC corrected bits" in the Name column of all four rows of the table						e Name column of all
SuggestedRemed	ły										
As was done in other places in this draft, change "Recommendation ITU-T G.698.2" to "Recommendation ITU-T G.698.2 for DP-DQPSK signals" on line 45.					Proposed PROF	•	nse ACCEPT		se Status W		
Response Response Status C REJECT.					CI 78	SC	78.1.4		P 49	L 17	# <u>I-32</u>
The requirements for the values for crosstalk are directly provided in Subclause 154.7. So			Subclause 154.7. So	Trowbridg	e, Stepł	hen		Nokia			
there is no need to make more specific references to the relevant values in G.698.2				ues in G.698.2	Comment	Туре	TR	Comm	ent Status A		
				# 1-30	Additi	onal cla	uses may	be used f	or 100GBASE-ZF	R PHYs	
rowbridge, Steph					Suggeste	dRemec	dy				
Comment Type TR Comment Status A Significant material is missing from clause 30 where corresponding material is present in other projects or amendments. Material relating to clause 152 may not be necessary as this does not directly affect behavior at the external interface, but clause 153-related registers likely need to be added. A key decision is what needs to be visible in clause 30 for				Add clauses 91, 135 and 152 to the list of relevant clauses for 100GBASE-ZR PHYs in Table 78-1							
				ot be necessary as use 153-related	Response ACCE			Respon	se Status C		
the case of cl	, ause 91 RS F	EC on the host board run C and clause 153 SC-FEC	ning across the (C2M interface, with	C/ 80	SC	80.1.4		P 51	L 1	# I-33
SuggestedRemed					Trowbridg	e, Stepł	hen		Nokia		
	•	alent) attrubites:			Comment		т		ent Status A		
aFECCorrecte	edBlocks (ma	y need both Clause 152 a (may need both Clause 1	nd 153 equivaler 52 and 153 equiv	nt) valent)	All 100GBASE-Z Physical Layer devices use clause 153 SC-FEC. Only some use claus 91 RS-FEC and clause 152 Inverse RS-FEC				Only some use clause		
		ay need clause 152 equiv			Suggeste	dRemec	dy				
aRSFECBypa aRSFECBypa aRSFECBypa	assIndicationA assEnable (ma assIndicationE	y need clause 152 equiva Ability (may need clause 1 ay need clause 152 equiva Enable (may need clause y need clause 152 and 15	52 equivalent) alent) 152 equivalent)		modu PMD "Som	lation." t impleme e 100GI	to " ove enting DF	r multiple l -DQPSK n hysical La		lause82), the FE	
Response	R	Response Status C			Response	9		Respon	se Status C		
ACCEPT IN F	PRINCIPLE.				ACCE						
Implement sli https://www.ie license.	des 3 through eee802.org/3/o	ı 13 of ct/public/20_1214/issenhu	nth_3ct_02_2012	14.pdf with editorial							

C/ 80 SC 80.3.2	P53	L 44	# <u>I-34</u>	C/ 153 SC 153.4.1	P 91	L 32	# <u>1-</u> 37
Trowbridge, Stephen	Nokia			Lewis, David	Lumentum I	nc.	
Comment Type TR	Comment Status A			Comment Type T	Comment Status A		
By earlier conventior	n, this should be called 100GBA	∖SE-Z			start_lock says it is set to true		
SuggestedRemedy				state). However, the when fas_bad_count	state diagram in Fig 153-7 sl	hows a transition	to the 15_BAD state
Change 100GBASE-	R to 100GBASE-Z in the title o	of Figure 80-4a		SuggestedRemedy	. – 15.		
Response	Response Status C				e of restart_lock description f	rom: "It is set to T	PLIE when 5 EASs in a
ACCEPT.					BAD state)" to "It is set to TR		
C/ 153 SC 153.2.3	B.2.6 P88	L 5	# I-35	Response	Response Status C		
Trowbridge, Stephen	Nokia			ACCEPT.			
Comment Type ER	Comment Status A				2.4		"
Missing arrowheads	on Figure 153-5			C/FM SC FM	P 13	L 47	# 1-38
SuggestedRemedy				Issenhuth, Tom		consulting, LLC,H	uawei Technologies Co.,
	ws before the squiggles on the es to the XOR (circled plus) at th		Add upward arrows to	Comment Type E Amendment ordering	Comment Status D has been changed with 802.	3ct preceeding 8	bucke 02.3cp
Response	Response Status C			SuggestedRemedy			
ACCEPT.				Remove 802.3cp fro	m the list		
CIA SCA	P123	L11	# <u>I-36</u>	Proposed Response PROPOSED ACCEF	Response Status W		
Trowbridge, Stephen	Nokia						
	Comment Status D		bucket	C/FM SC FM	P 14	L 8	# I-39
Comment Type ER							
	ibliographic reference to ITU-T	G.798		Issenhuth, Tom	Issenhuth C	onsulting, LLC,H	uawei Technologies Co.,
51		G.798		Issenhuth, Tom Comment Type E	Issenhuth C Comment Status D	consulting, LLC,H	0
Missing addition of b SuggestedRemedy Insert [Bxx] ITU-T G.				Comment Type E			bucke
Missing addition of b SuggestedRemedy	ibliographic reference to ITU-T			Comment Type E	Comment Status D		bucke
Missing addition of b SuggestedRemedy Insert [Bxx] ITU-T G. functional blocks Proposed Response	ibliographic reference to ITU-T 798-Characteristics of optical tr <i>Response Status</i> W			Comment Type E Amendment ordering	Comment Status D g has been changed with 802.		bucket
Missing addition of b SuggestedRemedy Insert [Bxx] ITU-T G.	ibliographic reference to ITU-T 798-Characteristics of optical tr <i>Response Status</i> W			Comment Type E Amendment ordering SuggestedRemedy	Comment Status D g has been changed with 802.		bucket



C/ 154	SC 154.7.3	P111	L	# <u>1-</u> 42	
Stassar, P	eter	Huawei Techno	logies Co.	, Ltd	

Comment Type TR Comment Status A

The black link characteristics in Table 154-10 are specifically to satisfy the project objective of 80 km over a DWDM link. This can only be done on by defining a black link "appropriate for the inclusion of one or more optical amplifiers" (thus without actually requiring it). Then fiber loss is not specified. The specification methodology is based upon that principle. Because of the intent to serve unamplified applications it would be useful to add one or more table(s) with an illustrative (thus informative) power budget for unamplified applications operating over shorter distances than 80 km. This illustrative power budget could contain an example of a fiber loss specification and the addition of an optical path (e.g. dispersion) penalty, without "destroying" the fundamental principle of black link specification methodology.

SuggestedRemedy

A proposal for a new Table and associate informative content will be made in a presentation (pending)

Response Response Status C

ACCEPT IN PRINCIPLE.

Implement slides 14, 15, 16, and 17 in https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_02b_201203.pdf with editorial license.

Create informative annex 154A from the examples in https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_01_201203.pdf with editorial license.

C/ 154 SC 154.7.2 P111 L31 # [<u>-43</u>	C/ 154 SC 154.8.14 P114 L46 # [-44
Schmitt, Matthew Cable Television Laboratories Inc. (CableLabs)	Schmitt, Matthew Cable Television Laboratories Inc. (CableLabs)
Comment Type T Comment Status A	Comment Type E Comment Status A
The inclusion of note "b" in table 154-9 might be interpreted to imply that we're either defining two PHYs or that both data points are not mandatory, which was not the intent. also not necessary to convey the requirements accurately, and therefore could be remove <i>SuggestedRemedy</i>	
Delete note "b" from Table 154-9.	SuggestedRemedy
Response Response Status C	Change the name of the parameter (including the section title) to "Receiver OSNR(193.6) [amplified]" in order to match Table 154-9.
ACCEPT IN PRINCIPLE.	Response Response Status C
See resolution to comment # i-42.	ACCEPT IN PRINCIPLE.
The resolution to comment I-42 was:	See resolution to comment # i-42.
Implement slides 14, 15, 16, and 17 in	The resolution to comment i-42 was:
https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_02b_201203.pdf with editorial license.	Implement slides 14, 15, 16, and 17 in https://www.ieee802.org/3/ct/public/20 11/stassar 3ct 02b 201203.pdf with editorial
Create informative annex 154A from the examples in	license.
https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_01_201203.pdf with editorial lice	se. Create informative annex 154A from the examples in https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_01_201203.pdf with editorial license.

C/ 154 SC 154.8.15 P115 L1 # 1-45	C/ 154 SC 154.7.2 P111 L20 # 1-46				
Cable Television Laboratories Inc. (Cable Labs)	Schmitt, Matthew Cable Television Laboratories Inc. (CableLabs)				
Comment Type E Comment Status A	Comment Type T Comment Status A				
In clause 154.8.15, the parameter in question is called out as "OSNR(193.6) [unamplified]", without indication that it is a receiver requirement. However, in Table 154-9, the parameter is listed as "Receiver OSNR(193.6) [unamplified]", which makes that clear but does not match the text in Table 154.9. SuggestedRemedy Change the name of the parameter including the section title to "Receiver	In looking at Table 154-9, it's not clear that "Average receive power [amplified] (min)" is intrinsically linked to "Receiver OSNR(193.6) [amplified] (min)"; you only learn about the linkage by looking at clause 154.8.12. The same situation exists with "Average receive power [unamplified] (min)" and "Receiver OSNR(193.6) [unamplified] (min)", whose linkage is only clarified by clause 154.8.13. This could lead to confusion with the actual requirements.				
OSNR(193.6) [unamplified]" in order to match Table 154-9.	SuggestedRemedy				
Response Response Status C ACCEPT IN PRINCIPLE.	Consider adding a note or notes to Table 154-9 to clarify these linkages. Alternately, consider replacing or supplementing the table with a graph that shows what is required an what isn't.				
See resolution to comment # i-42.	Response Response Status C				
The resolution to comment i-42 was:	ACCEPT IN PRINCIPLE. See resolution to comment # i-42.				
Implement slides 14, 15, 16, and 17 in https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_02b_201203.pdf with editorial license.	The resolution to comment i-42 was:				
Create informative annex 154A from the examples in https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_01_201203.pdf with editorial license.	https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_02b_201203.pdf with editorial license.				
	Create informative annex 154A from the examples in https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_01_201203.pdf with editorial licens				
	CI 153 SC 153.2.3.2.6 P88 L4 # 1-47				
	Dawe, Piers J G NVIDIA				
	Comment Type E Comment Status A				
	Some lines that pass through squiggle-breaks have arrowheads there, others don't. Three lines going up to (+) don't have arrows. The arrow pointing to p15 is not quite horizontal.				
	SuggestedRemedy				
	Tidy up				
	Response Response Status C				
	ACCEPT IN PRINCIPLE.				
	See suggested remedy to accepted comment I-35.				

C/ 154	SC 154.11.4.6	P 122	L 1	# 1-48	C/ 1 SC 1.4.3	5b P23	L 9	# 1-50
Dawe, Pier	rs J G	NVIDIA			Dawe, Piers J G	NVIDIA		
Comment	Туре Е	Comment Status D		Bucket	Comment Type TR	Comment Status R		
Black	Link					53 SC-FEC sublayer does is mu		
	link Response	Response Status W			telecoms style wra this PHY uses a te 100GBASE-R enco	layer does: it takes a 64B/66B e oper. The SC-FEC is quite diffe ecoms style clock domain on the ding". While it may carry a 64B s significantly different to all in-fo	rent to the "KR4 e line. It doesn't /66B stream, wh	" or "KP4" FEC. Also, work by "using at it actually uses is SC-
PROP	OSED ACCEPT.				SuggestedRemedy	0 9	Υ.	,
<i>Cl</i> 153 Dawe, Pier	SC 153.2.3.2. 7	P88 NVIDIA	L 27	# 1-49	encoding, GMP ma	GBASE-R encoding, DP-DQPSI pping, SC-FEC framing, and DF	-DQPSK modul	ation".
Comment		Comment Status D		bucket	that would be more	amed of using all those things, it disruptive.)	could change h	OW THE PHY WORKS, DUT
	e usual font for fig			DUCKCI	Response	Response Status U		
Suggested	Remedy				REJECT.			
Chang	je to Arial				The commentor ha	s not demonstrated how changir	ng it would impro	ove the quality of the
•	Response OSED ACCEPT.	Response Status W			draft. The same co (see https://www.ieee80	omment was submitted as techni 2.org/3/ct/comments/D2P0/8023 vorking group modified the wordi	ical, not required	l in D2.0, comment 139 eents_final_by_clause.pc

-					-				
C/ 1	SC 1.4.35b	P 23	L 8	# <mark>I-51</mark>	C/ 154	SC 154.7.3	P111	L 45	# <u>I-52</u>
Dawe, Pi	iers J G	NVIDIA			Dawe, Pier	rs J G	NVIDIA		
Commer	nt Type T	Comment Status R			Comment	Type TR	Comment Status A		
		n IEEE 802.3 physical coding mat compatible with SONET					bility specifications. The defining independently complete enou		
Clau	se 49.)				receive	er and channel v	vill interoperate. The transmitt	er and receive	r have specified power

1.4.31 100GBASE-P: An IEEE 802.3 family of Physical Layer devices using 100GBASE-R encoding and a PMD that employs pulse amplitude modulation with more than 2 levels. (See IEEE Std 802.3, Clause 80.)

1.4.32 100GBASE-R: An IEEE 802.3 family of Physical Layer devices using 100GBASE-R encoding and a PMD that employs 2-level pulse amplitude modulation. (See IEEE Std 802.3, Clause 80.)

1.4.33 100GBASE-R encoding: The physical coding sublayer encoding defined in Clause 82 for 100 Gb/s operation. (See IEEE Std 802.3, Clause 82.)

DQPSK has a similarity with 100GBASE-P (2 bits/UI), but what the Clause 153 SC-FEC sublayer does is much the same as what the Clause 50 WAN Interface Sublayer does: it takes a 64B/66B encoded stream and puts it in a telecoms style wrapper. The SC-FEC is quite different to the "KR4" or "KP4" FEC. Also, this PHY uses a telecoms style clock domain. It doesn't work by "using 100GBASE-R encoding". While it may carry a 64B/66B stream, what it actually uses is SC-FEC framing. All in all, it's significantly different to "BASE-R" and should be named appropriately so that future projects and implementations with breakout options are not confused. Straw polls two years ago don't alter the technical issue.

SuggestedRemedy

Change the name to 100GBASE-ZW

Response Response Status C

REJECT.

A similar comment was brought forward in D2.1, comment 10 which was rejected due to lack of support to make a change. As stated in the previous comment response, the -ZR nomenclature was adopted by the task force and reaffirmed without opposition.

channel must each be independently complete enough so that any compliant transmitter, receiver and channel will interoperate. The transmitter and receiver have specified power ranges; the channel must have specifications that control the loss or gain for compliant transmitted signals so that the power window at TP3 is met. In G.698.2, 7.4.1 Maximum and minimum mean input power:

"This parameter (together with the maximum and minimum mean channel output power) also places a requirement on the maximum and minimum channel insertion loss (or gain) of the black link.

The requirement is that while the mean channel output power at point SS is within the specified limits, the channel insertion loss (or gain) of the black link for that channel must be such that the power level at point RS is within the maximum and minimum mean input power limits."

So in G.698.2, there is a channel insertion loss (or gain) requirement. Here, with the three pieces specified separately, the channel insertion loss (or gain) spec has got lost in translation, and a channel can be compliant with any amount of loss, even when obviously unusable.

SuggestedRemedy

Add black link specifications in 154.7.3, preferably in Table 154-10, so that a black link will deliver the right power at TP3, giving effect to what G.698.2 says, "while the mean channel output power at point SS [TP2] is within the specified limits, the channel insertion loss (or gain) of the black link for that channel must be such that the power level at point RS [TP3] is within the maximum and minimum mean input power limits". Different for amplified and non-amplified cases. Add associated PICS.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment I-42.

The resolution to comment I-42 was:

Implement slides 14, 15, 16, and 17 in https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_02b_201203.pdf with editorial license.

Create informative annex 154A from the examples in https://www.ieee802.org/3/ct/public/20_11/stassar_3ct_01_201203.pdf with editorial license.

C/1 SC	1.5	P 23	L 5	# <u>1-</u> 53		C/ 154	SC 154.8.11	P114	L 24	# <u>1-</u> 54			
Dawe, Piers J G		NVIDIA				Dawe, Pier	s J G	NVIDIA					
Comment Type	E (Comment Status A			bucket	Comment	Type TR	Comment Status A					
Abbreviation t	hat needs ex	panding				Inadequately defined term. This says "OSNR and OSNR(193.6) are defined in Recommendation ITU-T G.698.2. G.698.2, 7.4.2, says "optical signal-to-noise ratio							
uggestedRemed	'y					(OSNR	imendation I I U-	of the ratio of the signal pow	er in the wanted	channel to the noise			
Add entry for	OSNR, here	or in 154.8				power	density (referred	d to 0.1 nm)" Not "to the	noise power in (0.1 nm". So it's power			
Response		Response Status C								But they aren't. And, what does , the OMA, or something else? I			
ACCEPT IN F	RINCIPLE.					see tha	at 7.2.12, Maxim	um error vector magnitude, h	nas a "signal pov	wer" derived after some			
		l-to-noise ratio" after MFA						ation from a measurement, b ly a different thing.	ut i believe that	USINK existed before			
modify heading to read "Transmitter in-band opti editoral license.		ansmitter in-band optical	signal-to-noise	ratio (OSNR)" wi	th	SuggestedRemedy							
	0.					Provide an unambiguous definition of OSNR							
						Response		Response Status C					
						PT IN PRINCIPI	Ξ.						
				In this	context signal p	ower means average signal p	e signal power.						
						See resolution to comment # i-82.							
						The res	solution to com	ment I-82 was:					
					The current definition for OSNR and OSNR(193.6) is currently in 154.8.11 Transmitte								
						band OSNR(193.6). Make it more generic to apply to other OSNR relevant definitions, wit editorial license.							
						See also resolution to comment #i-42 and I-53 which adds OSNR to 1.5 and spells out							
						abbreviation in its first use in the body in the body of the document in 15							
						The resolution to comment I-42 was:							
						Implement slides 14, 15, 16, and 17 in							
						https:// license		rg/3/ct/public/20_11/stassar_	3ct_02b_201203	3.pdf with editorial			
								nex 154A from the examples i rg/3/ct/public/20_11/stassar_		pdf with editorial licens			
						The res	solution to com	nent I-53 was:					
								ignal-to-noise ratio" after MF/ I "Transmitter in-band optical					

C/ 154	SC 154.7.2	P 111	L 25	# <u>1-</u> 55
Dawe, Piers	s J G	NVIDIA		

Comment Type TR Comment Status R

This draft lacks a sensitivity or stressed sensitivity spec, but has a spec for receiver OSNR tolerance(193.6), defined in 154.8.16 by reference to G.698.2, where 7.4.3 defines it as at: worst EVM_RMS, IQ offset, optical return loss at point SS, receiver connector degradations and measurement tolerances, but excluding chromatic dispersion, non-linear effects, reflections from the optical path, PMD, PDL and optical crosstalk. This would need a great deal of interpretation to turn into an actual measurement, with too much opportunity for alternative choices and disagreement. 802.3 doesn't put measurement tolerances in parameter values like that; they are the measurer's problem not the standard's. Not specifying the receiver for tolerance to chromatic dispersion is contrary to all 802.3 SMF specs since 2002. Not having a specific stressed sensitivity spec is contrary to all 802.3 SMF specs since 1998. It is not clear that receiver OSNR tolerance(193.6) enforces the right receiver sensitivity for the unamplified link.

SuggestedRemedy

Add clear, specific receiver sensitivity criteria, addressing signal strength, sinusoidal jitter, EVM_RMS, IQ offset, chromatic dispersion, and for the amplified case, OSNR. Make the unamplified case a "major option" if it's more onerous than the amplified case. If it makes sense to specify tolerance to OSNR and some other things in one spec item, and chromatic dispersion and some others in another spec item, as G.698.2 does, do so. Because this PMD has its own clock domain, the sinusoidal jitter won't be the usual amount. Add associated PICS.

Response

Response Status U

REJECT.

The comment does not provide a specific proposal or provide evidence that the suggested change will improve the quality of the draft.

Furthermore it is very similar to previously submitted comments #15 to D2.1 and #140 to D2.0 which were both rejected.

Straw poll: I support not making any changes to the draft based on this comment.

Y - 19 N - 5

A - 3

4 - 3

There was no consensus to make a change to the document at this time.

C/ 153	SC 153.2.3.2.4	P85	L 2	# 1 <u>-</u> 56
Dawe, Pie	rs J G	NVIDIA		
	<i>Type</i> E escribed in 153.2.3.2	<i>Comment Status</i> A 2.4": we are in 153.2.3.2.4	; where do you r	nean?
Suggested Give a	dRemedy a more specific refer	ence		
Chang "as de To:	PT IN PRINCIPLE.			
C/ 154	SC 154.5.4	P106	L 43	# 1-57
Dawe, Pie	ers J G	NVIDIA		

Comment Type T Comment Status A

Requiring a receiver in an amplified link to declare signal detect OK when it's up to 14 dB below sensitivity is a bad requirement.

SuggestedRemedy

The limit in the "Receive conditions" column should be the minimum average input power [unamplified or amplified] according to whether the link is amplified or not. Formally, we can say that we tell that to the PMD through the management interface or otherwise, or we ask the receiver to report that the signal is above each of the limits (when it is) separately, without having to know. As the higher sublayers formally don't know either, the first way seems better. If unamplified ability becomes optional, SD for unamplified would be optional with it. With this change, implementers can do just as this draft allows, or do better if they wish.

Response Response Status C

ACCEPT IN PRINCIPLE.

See resolution to comment #i-28.

Response to comment i-28 was:

Replace the current content of clause 154.5.4 with the following new text: "The PMD global signal detect function shall set the state of SIGNAL_DETECT parameter to a fixed OK level. Fixing the value of SIGNAL_DETECT from the PMD sublayer at OK allows upper layers to determine whether a valid signal is being received, e.g., according to the ability to acquire frame alignment. NOTE-Average input power is not a reliable indication of signal failure in an optically amplified system."

C/ 154 SC	154.7.2	P111	L 22	# <u>1-</u> 58	C/ 153	SC 153.2.3	.2.4	P 84	L 22	# <u>I-60</u>
Dawe, Piers J G		NVIDIA			Dawe, Pier	s J G		NVIDIA		
Comment Type	TR	Comment Status R			Comment	Type TR	Comm	ent Status A		
there is no o	correspondi	nk must comply with chroma ng spec on the receiver. Co	mpare G.698.2:	ax) and (min), but				encoder are far too lese sections, G.70		e implemented with nnex A.
		inimum (residual) chromatic ne the maximum and minimu		atical nath end-to-end	Suggestea	Remedy				
chromatic d	ispersion th	at the system shall be able t	o tolerate."					/ide a sample SC-I		
tolerance to	chromatic	ething very important in trans dispersion is contrary to all 8			to pub		ing and end	of the frame, omit		It may be acceptable ayload if what is
SuggestedReme	•				Response	,		nse Status U		
		he receiver to tolerate the ra ity spec in any 802.3 SMF cl		dispersion, e.g. similar	•	PT IN PRINCI	,			
			ause.		An exa	mple SC-FEC	codeword i	s expected to be g	enerated and prov	vided in the
Response		Response Status U						ads/802.3/, with th	e expected filena	ne 802.3ct-
REJECT. The final se	ntence of th	ne comment reads "Not spec	ifving the receive	r for tolerance to	2021_	downloads.zip				
		contrary to all 802.3 SMF sp			Add to	the end of cla	use 153.2.3	.2.5 SC-FEC Enco	der the following:	
		and draft receiver specificat						ple SC-FEC code	vord is available a	at
		 Instead chromatic dispersion Therefore it is very appropriation 			http://s	tandards.ieee	org/downloa	ads/802.3/."		
		ck link specifications.			C/ 154	SC 154.7.1		P 110	L 30	# I-61
7 154 SC	2 154.5.4	P106	L 45	# 1-59	Zhang, Bo			Inphi Corpora	tion	
		NVIDIA	240	# 1-00	Comment	Туре Е	Comm	ent Status A		
Dawe, Piers J G								Table 154-6 corres		
Comment Type	TR	Comment Status A			Tx_opt	ical_channel_	ndex'. How	ever, there is no va	riable named Tx_	optical_channel_index 54-2 however the cell
		ow isn't a table.				t properly cros				94-2 nowever the cen
SuggestedReme					Suggestea					
		other conditions Unspecified a table and works the same				-	cell sentenc	e to 'The frequency	/ in Table 154-6 c	orresponding to the
	53 SCIISE 85		way.					cy'. The other optio		
	יסואומס	Response Status U			freque	ncies shown ir	Table 154-	6'.		
ACCEPT IN	PRINCIPL	E.			Response		Respor	nse Status C		
See resoluti	on to comn	nent #i-28.			ACCE	PT IN PRINCI	PLE.			
Response to	o comment	i-28 was:				e to "The freque e Tx_optical_c		ole 154–6 where th ex."	e channel index n	umber equals the
"The PMD g to a fixed Ol SIGNAL_DE a valid signa	lobal signa K level. Fixi ETECT fron al is being r age input p	ntent of clause 154.5.4 with t I detect function shall set the ng the value of n the PMD sublayer at OK all eceived, e.g., according to th ower is not a reliable indication	state of SIGNAL ows upper layers e ability to acqui	DETECT parameter to determine whether re frame alignment.			_			
	TUS: D/dis	d ER/editorial required GR/ patched A/accepted R/reje D				U/unsatisfied	Z/withdrav		ent ID 1-61	Page 17 of 27 12/14/2020 12:53

C/ 154 SC 154.7.2	P111	L16	# <u>I-</u> 62	C/ 154	SC 154.7.2	P111	L 23	# <u>1-</u> 64	
Zhang, Bo	Inphi Corpora	tion		Zhang, Bo		Inphi Corpora	ation		
	Comment Status A The frequency in Table 154-6 index'. However, there is no su				neter Receiver C	Comment Status A ISNR (193.6) is missing the u e same Rx table.	nit after 193.6. T	his applies to also two	
SuggestedRemedy				Suggested	Remedy				
	ell sentence to 'The frequency er frequency' or simplify to 'Th			Sugge Response		THz' after 193.6 in three para <i>Response Status</i> C	meters in the Rx	table.	
Response ACCEPT IN PRINCIPI	Response Status C LE.			•	PT IN PRINCIP	,			
change to The neque variable Rx_optical_ch C/ 154 SC 154.7.1	ency in Table 154–6 where the nannel_index." P 110		# [-63		esolution to com		to convoy 100 C		
Zhang, Bo Comment Type E	P110 Inphi Corpora Comment Status D		# 1-63 Bucket	point o Conce	of the requireme erns have been r	parameter name is intended nt and not that it is only applic aised that 193.6 could refer to g THz on the other hand coul	cable at 193.6 Tl o a future, not ye	Hz. et existing, clause of the	
cell.	suppression ratio (SMSR) ha	s an extra comm	a in the Description			193.6 THz channel (even it's easurement bandwidth of 0.1		,	
SuggestedRemedy Suggest remove the c other parameters in th	omma after (SMSR) and befo e table.	re (min), to mak	e it consistence with all	OSNF instea	t related parame d of "dB (0.1 nm	ters. Thus the unit in the rele	vant cells would		
Proposed Response PROPOSED ACCEPT	Response Status W			See also resolution to comment # i-42.					
				The re	solution to com	ment i-42 was:			
					,	l5, 16, and 17 in rg/3/ct/public/20_11/stassar_	3ct_02b_201203	3.pdf with editorial	

license.

Create informative annex 154A from the examples in

Comment ID 1-64

https://www.ieee802.org/3/ct/public/20 11/stassar 3ct 01 201203.pdf with editorial license.

C/ 154	SC 154.7.1	P 110	L 43	# I-65	C/ FM	SC FM	P 3	L 8	# <u>1-66</u>
Zhang, Bo		Inphi Corpora	ition		D'Ambrosi	a, John	Futurewei&n	osp;Technologies	s, U.S. Sub
Comment T	Туре т Сон	mment Status A			Comment	Туре Е	Comment Status D		bucke
defined mentior		he 154.8 definition sec uency of 193.6 THz. H	ction 154.8.11 su lowever, it canno	ubsection a note ot be only specified at a		ance in this spec	escribes the methodology to ificatinon, it should be adde		
	vavelength for this para t frequencies.	ameter. Instead, this p	parameter should	be specified for all	00	lack link" to list o	of keywords		
SuggestedF	Remedy				Proposed		Response Status W		
in section	t remove (193.6) in the on 154.8.11 by removi					OSED ACCEPT			
not add					C/ 153	SC 153.1.2	P 81	L 34	# 1-67
Response		ponse Status C			D'Ambrosi	a, John	Futurewei&n	osp;Technologies	s, U.S. Sub
ACCEP	T IN PRINCIPLE.				Comment		Comment Status D		bucke
	rt (193.6) in the parame the requirement and r					s clause is specif m in 153-1.	ic to 100GBASE-ZR PHYs,	his should be no	ted at the bottom of the
Concer	ns have been raised th	nat 193.6 could refer to	o a future, not ye	t existing, clause of the	Suggested	lRemedy			
	tandard. Adding THz o plicable at the 193.6 T				Add "1	00GBASE-ZR" b	pelow the box labeled "medi	ım" in Fig 153-1.	
only ap				onanner).	Proposed	Response	Response Status W		
				and remove 193.6 from	PROP	OSED ACCEPT			
	related parameters. Th of "dB (0.1 nm)".	ius the unit in the relev	vant cells would	be "dB (12.5 GHZ)"					
	litorial license to updat	e related other subcla	uses.		C/ 154	SC 154.8.12	P 114	L30	# 1-68
See ele	o resolution to comme	nt # i 40			D'Ambrosi	a, John		osp;Technologies	s, U.S. Sub
See als		fill # 1 - 4∠.			Comment	51	Comment Status A		
The res	olution to comment i-4	2 was:			Title o	f subclause does	s not match the name of the	parameter in Tab	ble 154-9
Implem	ent slides 14, 15, 16, a	and 17 in			Suggested	lRemedy			
	www.ieee802.org/3/ct/p		3ct_02b_201203	.pdf with editorial	Add "r	eceive" to subtitle	e after "average"		
license.					Response		Response Status C		
Create	informative annex 154	A from the examples i	in		ACCE	PT IN PRINCIPL	.E.		
				odf with editorial license.	See re	solution to comn	nent # i-42.		
					The re	solution to comn	nent i-42 was:		
							5, 16, and 17 in g/3/ct/public/20_11/stassar_	3ct_02b_201203	.pdf with editorial
							ex 154A from the examples g/3/ct/public/20_11/stassar_		odf with editorial license.
	echnical required ER/	editorial required GR/	aeneral required	T/technical E/editorial G/c	reneral		Comn	ent ID 1-68	Page 19 of 27

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

Comment ID 1-68

Page 19 of 27 12/14/2020 12:57:41 PM

C/ 154 SC 154.8.13	P 114	L 37	# 1-69	C/ 154	SC 154.8.15		P 115	L115	# <mark>I-</mark> 71
D'Ambrosia, John	Futurewei&nł	bsp;Technologies	, U.S. Sub	D'Ambrosia	a, John	F	uturewei&nt	sp;Technologies	, U.S. Sub
Comment Type ER Co.	mment Status A			Comment	Type ER	Comment St	atus A		
Title of subclause does not m	atch the name of the	parameter in Tab	le 154-9	Title of	subclause does	not match the r	name of the p	parameter in Tab	le 154-9
SuggestedRemedy				Suggested	Remedy				
Add "receive" to subtitle after	"average"			Add "F	Receiver" before '	'OSNR"			
Response Res	ponse Status C			Response		Response Sta	atus C		
ACCEPT IN PRINCIPLE.				ACCEI	PT IN PRINCIPL	E.			
See resolution to comment #	i-42.			See re	solution to comm	nent # i-42. Edit	or's note, sh	ould be line 1.	
The resolution to comment i-4	2 was:			The re	solution to comm	ient i-42 was:			
Implement slides 14, 15, 16, a https://www.ieee802.org/3/ct/ license.		3ct_02b_201203	.pdf with editorial				_11/stassar_3	3ct_02b_201203	pdf with editorial
Create informative annex 154 https://www.ieee802.org/3/ct/j			odf with editorial license.		informative anno /www.ieee802.org				of with editorial license
C/ 154 SC 154.8.14	P 114	L 46	# 1-70						
D'Ambrosia, John	Futurewei&nł	bsp;Technologies	, U.S. Sub						
Comment Type ER Con Title of subclause does not m	mment Status A	narameter in Tah	le 151-0						
SuggestedRemedy Add "Receiver" before "OSNF	\ "								
Response Res ACCEPT IN PRINCIPLE.	ponse Status C								
See resolution to comment #	i-42.								
The resolution to comment i-4	2 was:								
Implement slides 14, 15, 16, a https://www.ieee802.org/3/ct/ license.		_3ct_02b_201203	.pdf with editorial						
Create informative annex 154	A from the examples	in							

C/ 154	SC 154.1	P 101	L 9	# I-72	C/ 154	SC 154.6	P107	L 46	# I-73
D'Ambrosi	ia, John	Futurewei&nb	sp;Technologies	, U.S. Sub	D'Ambrosi	a, John	Futurewei&nb	sp;Technologies	, U.S. Sub
Comment	Type TR	Comment Status A			Comment	Type TR	Comment Status A		
specif with a addres projec	ies the paramete mplification. Whi ss the reach requ t's CSD response	DM channel is specified usin rs in Table 154-10. This tabl ile this meets the objective of irements of the Cable/MSO of e for Broad Market potential. g/3/B10K/public/18_05/schm	e, however targe f the project, it do distribution netwo Data submitted	ets a DWDM channel bes not adequaltely brks noted in the in	provid configi	ed on how the lir ured or operated contradicted in	- The black link is intentionall ik is constructed, so that the end-to-end param the draft by reference to "amp	neter requiremen	its are met.
reach	needs (citing dat	a for <30km, <40km, <60km	, <80km, and <1	20km), as well as	Suggested				
noting	that in the surve	y that a significant amount of	f optical channels	s were not amplified.	00		lack model, based on Black L	ink Output nowe	er versus OSNR similar
Suggestee	dRemedy						ww.ieee802.org/3/ct/public/19		
Devel amplif		cifications that would address	s DWDM channe	ls that do not include	scena	rios are implied b	mitted with proposed values. by the noted OSNR specification	ions. Generic te	ext to describe
Response		Response Status C				nship of paramet ed in noted prese	ters to amplified and unamplif entation.	ied scenarios sh	ould be added. Will be
ACCE	PT IN PRINCIPL	.E.			Response		Response Status C		
See re	esolution to comm	nent #i-42.			ACCE	PT IN PRINCIPL	.E.		
The re	esolution to comn	nent i-42 was:			See re	esolution to comr	nent #i-42.		
	ment slides 14, 1		2 at 0.2 b 201202	ndf with aditarial	The re	solution to com	nent i-42 was:		
license	e.	g/3/ct/public/20_11/stassar_3 ex 154A from the examples i		.por with eononial			5, 16, and 17 in g/3/ct/public/20_11/stassar_3	3ct_02b_201203	.pdf with editorial
		g/3/ct/public/20_11/stassar_3		odf with editorial license.					
							ex 154A from the examples ir g/3/ct/public/20_11/stassar_3		odf with editorial license.

C/ 154	SC 154.1	P101	L 46	# I-74	C/ 154	SC 154.7	P 48	L 48	# I <u>-</u> 76		
D'Ambrosia	a, John	Futurewei&nb	sp;Technologie	es, U.S. Sub	D'Ambrosi	a, John	Futurewei8	nbsp;Technologie	es, U.S. Sub		
Comment	Type TR	Comment Status R			Comment Type E Comment Status R						
provide configi	ed on how the linured or operated	I - The black link is intentionall nk is constructed, I so that the end-to-end param /DM channel may contain one	eter requireme	ents are met.	Following is noted - A PMD that exceeds the operating range requirement while meeting all other specifications is considered compliant (e.g., a 100GBASE-ZR PMD that could operate over 90 km would meet the operating requirement of 2 m to 80 km).						
Suggested	IRemedy				T 1.1.1.1	- hard a second second se	, dala mananahan				
00		hat the DWDM channel may c	ontain one or r	nore optical amplifiers.		obvious and a	idds no value				
Response	0	Response Status C			Suggested						
REJE	ст				Delete	noted text					
		appropriate because the emp	hasis is on "ma	ay contain", reflecting	Response		Response Status C				
the rea		al amplifiers inside the black lin nd the application spaces and ined.			REJECT. The current wording is consistent with the wording in other in-force IEEE Std 802.3-2018 optical clauses.						
C/ 154	SC 154.6	P 107	L 42	# <u>I-75</u>	C/ 154	SC 154.7	P 109	L 52	# I-77		
D'Ambrosia	a, John	Futurewei&nb	sp;Technologie	es, U.S. Sub	D'Ambrosi	a, John	Futurewei8	nbsp;Technologie	es, U.S. Sub		
Comment	Type TR	Comment Status R			Comment	Type TR	Comment Status D		Bucket		
provide configu	ed on how the linured or operated	I - The black link is intentionall nk is constructed, I so that the end-to-end param /DM channel may contain one	eter requireme	ents are met.	operat	154-7 and Tab ion on unampli	le 154-8 contain several par fied links, which are not nec of single-mode fiber.				
		Divi channel may contain one	or more optica	i ampiliers.	Two is	sues					
Suggested Delete		hat the DWDM channel may c	ontain one or r	nore optical amplifiers.	1. To r suppo		rket potential of project - una	amplified DWDM of	channels need to be		
Response REJE0	Ũ	Response Status C			2. This	specification i	s for a single PHY, yet this s ort certain parameters in diff		s to indicate that the rx		
The er optical	nphasis is on "n amplifiers insid	nay contain", which correctly r e the black link, which is cruci	al for the reade	er to understand and	Suggested Delte r	<i>Remedy</i> noted text					
also as	s a background	to the definition of the black lir	nk specification	S.	Proposed PROP	Response OSED ACCEF	Response Status W				

C/ 154 SC 154.7.1	P 110	L 43	# <u>I-</u> 78	C/ 154 S	C 154.8.12		P 114	L 31	# <u>1-</u> 80
D'Ambrosia, John	Futurewei&nb	sp;Technologies	s, U.S. Sub	D'Ambrosia, Jo	hn		Futurewei&nb	sp;Technologie	s, U.S. Sub
Comment Type TR No explanation of the uni	Comment Status A t dB (0.1nm).				nd 154.8.13		ampflied and no		narios for the average eleted and instead point
SuggestedRemedy Editor should add referen	ce to ITU-T G.698.2 Claus	e 7.4.2.		to the mini	mum OSNF	R that is being			
Response ACCEPT IN PRINCIPLE.	Response Status C			average in	4.8.12 ge receive ir out power [a	amplified] defir	nes the input po	wer range over	able 154-9. f. The which the BER NR(193.6) of the target
The response to commer	nt I-42 was:			black link. <i>Response</i>		Response	Status C		
Implement slides 14, 15,	16 and 17 in			•		•			
	3/ct/public/20_11/stassar_3	ct_02b_201203	.pdf with editorial	See resolu	tion to com	ment # i-42			
	154A from the examples ir 3/ct/public/20_11/stassar_3 P 111 Euturewei&nb	L 32	df with editorial license. # [I-79 s, U.S. Sub	Implement	slides 14, 1	ment i-42 was: 15, 16, and 17 rg/3/ct/public/2	in	3ct_02b_201203	3.pdf with editorial
Comment Type TR Note B appears to imply unamplified scenarios an	Comment Status A that a Rx may not need to s d appears to create a poter	support certain p	arameters for				the examples i 20_11/stassar_3		pdf with editorial license.
SuggestedRemedy Delete Note B									
Response ACCEPT IN PRINCIPLE.	Response Status C								
See resolution to comme	nt I-42.								
The resolution to comme	nt I-42 was:								
Implement slides 14, 15, https://www.ieee802.org/ license.	16, and 17 in 3/ct/public/20_11/stassar_3	ct_02b_201203	.pdf with editorial						

C/ 154	SC 154.8.14	P 114	L 47	# <u>I-</u> 81	C/ 154	SC 154.7.1	P110	L 42	# <u>1-82</u>
D'Ambros	ia, John	Futurewei&nb	sp;Technologies	, U.S. Sub	D'Ambrosi	a, John	Futurewei&	nbsp;Technologies	s, U.S. Sub
Comment 154.8	51	<i>Comment Status</i> A both identify amplfied and no	on-amplfiied scer	arios for the average	Comment OSNR	51	Comment Status A 02.3ct D3.0 or 802.3-2018		
		t the references to these stat input power that is being targ		eted and instead point	Suggested	dRemedy efinition for OSN	P		
Suggeste	dRemedy								
	rd 154.8.12				Response		Response Status C		
		SNR (193.6 THz) shall be w eing targeted by the black lin		ven in Table 154-9 for	The cu		or OSNR and OSNR(193.6		
Response ACCE	e Pt in principl	Response Status C E.				OSNR(193.6). M al license.	ake it more generic to apply	y to other OSNR re	elevant definitions, with
See r	esolution to comm	nent # i-42					comment #i-42 and I-53 wh use in the body in the body		
The r	esolution to comm	ient i-42 was:			The re	esolution to com	ment I-42 was:		
		5, 16, and 17 in g/3/ct/public/20_11/stassar_3	3ct_02b_201203	pdf with editorial			5, 16, and 17 in rg/3/ct/public/20_11/stassa	r_3ct_02b_201203	.pdf with editorial
		ex 154A from the examples in g/3/ct/public/20_11/stassar_3		df with editorial license.			nex 154A from the example rg/3/ct/public/20_11/stassa		odf with editorial license.
					The re	esolution to com	ment I-53 was:		
							ignal-to-noise ratio" after M d "Transmitter in-band optic		

editoral license.

C/ 154	SC 154.8.11	P 114	L 22	# I-83	C/ 154	SC 154.	6	P 109	L 41	# <u>1-</u> 84	
D'Ambro	sia, John	Futurewei&nb	sp;Technologies	, U.S. Sub	D'Ambrosia	a, John		Futurewei&r	ıbsp;Technologi	es, U.S. Sub	
Commer	nt Type ER	Comment Status A			Comment	Туре ТВ	2	Comment Status R			
		part of the name of a param use 193.6 is expected to co			The note states - NOTE-Coexistence of DWDM optical signals with characteristics other than the 1000						
Suggest	edRemedy				ZR PM	D over the	same	e black link is not covered b	y this standard.		
Mod	ify (193.6) to be (19	3.6 THz) in parameter name	es		This note is unclear, as the "black link" is just a methodology, and what is contained within						
Respons	e	Response Status C			the sar	ne DWDM	syste	em is similar or not.			
	EPT IN PRINCIPLE				Also, it is not clear whether this standard covers the coexistence of 100GBASE-ZR PMD signaling targeting the two OSNRs.						
See	resolution to comm	ent # i-65.			Suggested						
	resolution to comm	ent i-65 was: arameter name is intended	to convey 193 6	THz is the calibration	Chang Coexis	e Note to tence betw		DWDM links supporting 100 I signaling charateristics is			
poin Con 802. only Inste OSN inste	t of the requirement cerns have been rai 3 standard. Adding applicable at the 19 ad change the mea IR related paramete ad of "dB (0.1 nm)" editorial license to	Response REJEC It's ess than th with er	CT. ential to sta e 100GBAS	ate th SE-ZF the "c	Response Status C at "Coexistence of DWDM R PMD over the same black over the same black link". ested remedy reduces the o	optical signals v k link is not cove	with characteristics other ared by this standard.",				
See	also resolution to c	omment # i-42.									
The	resolution to comm	ent i-42 was:									
		, 16, and 17 in /3/ct/public/20_11/stassar_3	3ct_02b_201203	.pdf with editorial							
-	ite informative anne	x 154A from the examples i	n								

C/ 154 SC 154.8.9	P 114	L13	# I-85	C/ 154	SC 154	.7.2	P 111	L 4	# I <u>-</u> 86
hiasi, Ali	Ghiasi Quantu	um LLC,Inphi Cor	rporation	Ghiasi, Ali			Ghiasi Quar	tum LLC,Inphi Co	orporation
Comment Type TR	Comment Status R			Comment	Туре Т	R	Comment Status A		
	references ITU 698.2, where n real time scope. A shorter					r recei	ver stress test such the tar	get BER must be	met is not defined.
results than longer.				Suggested	-				
uggestedRemedy				Recon - EVN		g a ne	w section defining stress tr	est conitions suci	n as:
	nat receiver receiver will hav Baudrate of 27.9525 GBd th			- at min/max power - at Min OSNR receiver must operate - a sinosidal jitter mask with 2 MHz corner frequency (5UI@20 KHz-0.05UI@ 2 M					
Response	Response Status U				,	ning S	J can be added to the test	instrumentaiton.	
REJECT.				Response			Response Status C		
The comment is not clea optimistic results than lor	ar, especially the statement onger.".	"A shorter captur	e will proivde more	ACCE	PT IN PRI	NCIPL	Ε.		
ITU-T G.698.2 clearly sp		was ag		he dra	is to add a stressed receive ft should be clarified to sta M.				
	m of a statement instead of evidence that it would improv			C/ 1	SC 1.4	160a	P 23	L15	# <u>1-</u> 87
Straw poll:				Ran, Adee			Intel Corpora	ation	
				Comment	Туре Е		Comment Status D		
I supporting rejecting the	e comment as proposed.						ined terms that make this o		gless out of its context.
Yes - 6				A met	nodology s	hould I	not be bound by such spec	fic names.	
No - 4 Abstain - 5							ts are defined for measure y link. The transmission is		the end of patch cords
There was no consensus	s to make a change to the d	raft		Suggested	IRemedy		-		
				00	-	י TP2	and TP3" to "between two l	PHYs".	
				Proposed	Response		Response Status W		
				•	•	CEPT	IN PRINCIPLE.		
				and ou	utput of the	black	y used and understood test link in clause 154. Modify Figure 154-2)" which show	existing definition	by adding "(See IEEE

CI 45 SC 45	2.1.133a.1 P	° 29 L3	30	# I-88	CI 45	SC 45.2.1.1	33e.2	P 33	L 39	# <mark>I-</mark> 90
Ran, Adee	Intel	l Corporation			Ran, Adee			Intel Corpora	tion	
	Comment Status to the right word for the me rrespond" which is more a	eaning of an index	anumber. Des	scriptions of other		orted" is not the	right word for	<i>t Status</i> A the meaning of more appropria		. Descriptions of other
SuggestedRemedy					Suggested	IRemedy				
•	es the optical frequencies to the optical frequencies.	that are supported	d" to "indicate	s the		e "indicates the ponding optica		encies that are s	supported" to "ind	icates the
Change "suppor index number".	ed for each channel index	x number" to "corr	esponding to	each channel		e "supported fo number".	or each channo	el index number	" to "correspondir	ng to each channel
Response	Response Status	s C			Response		Response	Status C		
ACCEPT.					ACCE	PT.				
C/ 45 SC 45	2.1.133e P	2 33 L1	19	# I-89	C/ 45	SC 45.2.1.1	86ao	P 48	L 12	# I-91
Ran, Adee	Intel	l Corporation			Ran, Adee			Intel Corpora	tion	
Comment Type E	Comment Statu	is R			Comment	Туре Т	Commen	t Status D		buck
"Tx Rx different	optical channel ability"				0	,			riable name in 15	3.2.5.4, but the
It is odd that a b	t name in the "Rx optical o	channel control re	gister" starts	with "Tx" The			"uncorrected of	codewords" inste	ead.	
	pit can be maintained with		0		Suggested	-			.	
SuggestedRemedy							codewords" to	o "corrected bits	" (4 times).	
Change "Tx Rx"	to "Rx Tx", in Table 45.10	20 and in 45.2.1.1	133e.1		Proposed	•	,	Status W		
Response	Response Status	s C			PROP	OSED ACCEP	T IN PRINCIP	LE.		
REJECT.	•				0	sponse to com				