% 1 SC 1.5 P22 L32 # 2	C/ 1 SC 1.5 P22 L50 # 80
Brown, Matt Huawei Technologies Canada	D'Ambrosia, John Futurewei, U.S. Subsidiary of Huawei
omment Type T Comment Status A	Comment Type E Comment Status A
A new acronym SC-FEC is introduced in Clause 153 and the acronym has been added many clauses and annexes including 45, 80, 154, and 83C.	to SC-FEC is not defined in abbreviations
uggestedRemedy	SuggestedRemedy
Add the acronym SC-FEC "staircase FEC" to the acronym list in 1.5.	Add abbreviation to 1.5 SC-FEC Staircase FEC
Pesponse Response Status C	Response Response Status C
ACCEPT.	ACCEPT IN PRINCIPLE.
1 SC 1.5 P22 L45 # 18	See response to comment 2.
rown, Matt Huawei Technologies Canada	C/ 45 SC 45.2.1.186ab.7 P37 L25 # 71
DQPSK is used separately from DP-DQPSK to define a coding method, rather than	Trowbridge, Steve Nokia
modulation format	Comment Type E Comment Status A
uggestedRemedy	It is not clear to all readers why only the value "1" is supported.
add separate acronym for DQPSK	SuggestedRemedy
	Add an explanatory "NOTE: The FEC states that are optional in the context of Clause 91
esponse Response Status C	
Cesponse Response Status C ACCEPT IN PRINCIPLE	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations."
ACCEPT IN PRINCIPLE	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1,
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5.	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations."
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. 7 1 SC 1.5 P22 L48 # 17	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. / 1 SC 1.5 P22 L48 # 17 rown, Matt Huawei Technologies Canada	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30.
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. / 1 SC 1.5 P22 L48 # 17 rown, Matt Huawei Technologies Canada omment Type E Comment Status A	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. 442
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. 1 SC 1.5 P 22 L 48 # 17 Frown, Matt Huawei Technologies Canada <i>comment Type</i> E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards only defined proper nouns are capitalized, except as required, e.g., first character in	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. 0 Bucket Cl 45 SC 45.2.1.186al P44 L42 # 46 Bruckman, Leon Huawei Huawei Huawei Huawei
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. / 1 SC 1.5 P22 L48 # 17 rown, Matt Huawei Technologies Canada omment Type E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. Bucket Cl 45 SC 45.2.1.186al P44 Bruckman, Leon Comment Type E Comment Status A Bucket Cl 45 Buckman
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. 1 SC 1.5 P 22 L 48 # 17 rown, Matt Huawei Technologies Canada <i>omment Type</i> E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards only defined proper nouns are capitalized, except as required, e.g., first character in sentence or title. <i>uggestedRemedy</i>	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. 0 Bucket Cl 45 SC 45.2.1.186al P44 L42 # 46 Bruckman, Leon Huawei Huawei Huawei Huawei
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. I SC 1.5 P22 L48 # 17 Brown, Matt Huawei Technologies Canada Formment Type E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards only defined proper nouns are capitalized, except as required, e.g., first character in sentence or title.	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. Sucket Cl 45 SC 45.2.1.186al P44 L42 # 46 Bruckman, Leon Huawei Comment Type E Comment Status A Buck The language in this paragraph is different from the one used in similar paragraphs in this
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. I SC 1.5 P22 L48 # 17 Brown, Matt Huawei Technologies Canada Comment Type E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards only defined proper nouns are capitalized, except as required, e.g., first character in sentence or title. BuggestedRemedy change to "generic mapping protocol" Besponse Response Status C	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. Cl 45 SC 45.2.1.186al P44 L42 # 46 Bruckman, Leon Huawei Comment Type E Comment Status A Buck The language in this paragraph is different from the one used in similar paragraphs in this document, see for example 45.2.1.186ad SuggestedRemedy Change: "Registers 1.2276 1.2277 are used to read the value of a 32-bit counter. When
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. If 1 SC 1.5 P22 L48 # 17 frown, Matt Huawei Technologies Canada formment Type E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards only defined proper nouns are capitalized, except as required, e.g., first character in sentence or title. uggestedRemedy change to "generic mapping protocol"	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. Cl 45 SC 45.2.1.186al P44 L42 # 46 Bruckman, Leon Huawei Comment Type E Comment Status A Buck The language in this paragraph is different from the one used in similar paragraphs in this document, see for example 45.2.1.186ad SuggestedRemedy Change: "Registers 1.2276 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the 32-bit counter value, the register 1.2276
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. I SC 1.5 P22 L48 # 17 Brown, Matt Huawei Technologies Canada Comment Type E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards only defined proper nouns are capitalized, except as required, e.g., first character in sentence or title. BuggestedRemedy change to "generic mapping protocol" Besponse Response Status C	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. Bucket Cl 45 SC 45.2.1.186al P44 L42 # 46 Bruckman, Leon Huawei Comment Type E Comment Status A Buck The language in this paragraph is different from the one used in similar paragraphs in this document, see for example 45.2.1.186ad SuggestedRemedy Change: "Registers 1.2276 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the 32-bit counter value, the register 1.2276 is read first,",
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. If 1 SC 1.5 P22 L48 # 17 frown, Matt Huawei Technologies Canada comment Type E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards only defined proper nouns are capitalized, except as required, e.g., first character in sentence or title. uggestedRemedy change to "generic mapping protocol" Pesponse Response Status C ACCEPT IN PRINCIPLE.	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. Cl 45 SC 45.2.1.186al P44 L42 # 46 Bruckman, Leon Huawei Comment Type E Comment Status A Buck The language in this paragraph is different from the one used in similar paragraphs in this document, see for example 45.2.1.186ad SuggestedRemedy Change: "Registers 1.2276 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the 32-bit counter value, the register 1.2276
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. V 1 SC 1.5 P22 L48 # 17 Brown, Matt Huawei Technologies Canada Comment Type E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards only defined proper nouns are capitalized, except as required, e.g., first character in sentence or title. SuggestedRemedy change to "generic mapping protocol" Response Response Status C ACCEPT IN PRINCIPLE.	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. CI 45 SC 45.2.1.186al P44 L42 # 46 Bruckman, Leon Huawei Comment Type E Comment Status A Buck The language in this paragraph is different from the one used in similar paragraphs in this document, see for example 45.2.1.186ad SuggestedRemedy Change: "Registers 1.2276 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the 32-bit counter value, register 1.2276 is read first, "
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. 1 SC 1.5 P22 L48 # 17 rown, Matt Huawei Technologies Canada omment Type E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards only defined proper nouns are capitalized, except as required, e.g., first character in sentence or title. uggestedRemedy change to "generic mapping protocol" esponse Response Status C ACCEPT IN PRINCIPLE.	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. CI 45 SC 45.2.1.186al P44 L42 # 46 Bruckman, Leon Huawei Comment Type E Comment Status A Buck The language in this paragraph is different from the one used in similar paragraphs in this document, see for example 45.2.1.186ad SuggestedRemedy Change: "Registers 1.2276 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the 32-bit counter value, register 1.2276 is
ACCEPT IN PRINCIPLE Will add the acronym DQPSK "Differential Quadrature Phase Shift Keying" to 1.5. I SC 1.5 P22 L48 # 17 Brown, Matt Huawei Technologies Canada Comment Type E Comment Status A "generic mapping procedure" should not be capitalized; see G.709. In 802.3 standards only defined proper nouns are capitalized, except as required, e.g., first character in sentence or title. SuggestedRemedy change to "generic mapping protocol" Response Response Status C ACCEPT IN PRINCIPLE.	are mandatory in the context of Clause 152. Therefore the value of this bit is fixed at 1, since these states are always supported for Clause 152 implementations." Response Response Status C ACCEPT IN PRINCIPLE Overtaken by events, see response to comment 30. C/ 45 SC 45.2.1.186al P44 L42 # 46 Bruckman, Leon Huawei Comment Type E Comment Status A Buck The language in this paragraph is different from the one used in similar paragraphs in this document, see for example 45.2.1.186ad SuggestedRemedy Change: "Registers 1.2276 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the value of a 32-bit counter. When registers 1.2276 and 1.2277 are used to read the 32-bit counter value, register 1.2276 is read first, "

CI 45	SC	45.2.1.186am	P 45	L10	# 47	CI 45	SC	45.2.1.186a	n P 45	L 29	# 103
Bruckman	, Leon		Huawei			Nicholl, G	ary		Cisco System	S	
Comment			mment Status A		Bucket	Comment	Туре	Е	Comment Status A		Bucket
		in this paragrap e for example 4		one used in sim	ilar paragraphs in this				eems quite clumsy "Registe it counter value, the registe		
Suggested	IRemea	ly							and 1.2283 are latched whe ers 1.2281, 1.2282, and 1.2		
			278 and 1.2279 are us	ed to read the 3	2-bit counter value, the				the counter."		
registe	er 1.227	8 is read first,"				Suggestee	dReme	dy			
		registers 1.2278 8 is read first,"	and 1.2279 are used	to read the 32-b	it counter value,	1.228	1, 1.228	82, and 1.22	ast two sentences, perhaps 83 are used to read the 64-	bit counter valu	ue. Register 1.2280 is
Response		Res	ponse Status C						of registers 1.2281, 1.2282 ead. Reads of registers 1.2		
ACCE	PT IN F	PRINCIPLE.							han the current value of the		
1.2278	3, 1.227	9 are used to re	d will also modify the p ad the value of a 32-b	it counter." to re		Sugge sectio		ıg similar lan	guage for the description o	f other 32-bit a	nd 64-bit counters in this
and 1.	2279 ar	e used to read t	the value of a 32-bit co	ounter."		Response	•		Response Status C		
CI 45	SC	45.2.1.186an	P 45	L 29	# 48	ACCE	EPT IN I	PRINCIPLE.			
Bruckman	, Leon		Huawei			See re	esponse	e to commer	nt 48		
Comment			mment Status A		Bucket		•				
		in this paragrap e for example 4		one used in sim	ilar paragraphs in this	C/ 45		45.2.1.186a		L 2	# 49
Suggested	,		0.2.1.10000			Bruckmar Comment	,	Е	Huawei Comment Status A		Bucket
00			.2281, 1.2282, and 1.2	2283 are used to	read the 64-bit counter		,,		graph is different from the	one used in sin	
		ister 1.2280 is r							ble 45.2.1.186ad		
With: "	'Registe	ers 1.2280, 1.22	81, 1.2282, and 1.228	3 are used to rea	ad the value of a 64-bit	Suggestee	dReme	dy			
		n registers 1.228 , register 1.2280	80, 1.2281, 1.2282, an) is read first,"	d 1.2283 are us	ed to read the 64-bit				1.2284, 1.2285, 1.2286, ai r 1.2284 is read first,"	nd 1.2287 are ι	ised to read the 64-bit
Response		Res	ponse Status C			With:	"When	registers 1.2	2284, 1.2285, 1.2286, and ²	1.2287 are use	d to read the 64-bit
ACCE	PT.					counte	er value	e, register 1.	2284 is read first,"		
						Response			Response Status C		
						ACCE	EPT IN I	PRINCIPLE.			
						Modify	y the ex	kisting wordir	ng "Registers 1.2284, 1.228	35, 1.2286, 1.22	287 are used to read the

2286, 1.2287 are used to read the value of a 64-bit counter. When registers 1.2284, 1.2285, 1.2286, and 1.2287 are used to read the 64-bit counter value, the register 1.2284 is read first," to read "Registers 1.2284, 1.2285, 1.2286, and 1.2287 are used to read the value of a 64-bit counter. When registers 1.2284, 1.2285, 1.2286, and 1.2287 are used to read the 64-bit counter value, register 1.2284 is read first,"

C/ 80	SC 80.1	P 48	L 3	# 109	CI 80	SC 80.1.3	P 48	L10	# 104
Nicholl, G	Bary	Cisco Systen	าร		Nicholl, C	Sary	Cisco System	าร	
<i>Comment</i> Don't		<i>Comment Status</i> A te Figure 80-1 to show the sta	ack for a 100Gl	BASE-Z PHY ?	Commen Need		Comment Status A t of list item h to be consiste	nt with changes	Bucket made by 802.3cu
•	te Figure 80-1 to	show the 100GBASE-Z PHY	stackup.		Chan		specified in Clause 89 for 40 or 100GBASE-ZR use a single		
In Fig	EPT IN PRINCIPL	"100GBASE-R or 100GBAS	E-P" to read "1	00GBASE-R,	to "The 100G	MDIs as specifie	d in Clause 89 for 40GBASE- 100GBASE-LR1, and Clause	FR, Clause 140	for 100GBASE-DR,
	,				Response		Response Status C		
C/ 80	SC 80.1	P 48	L 7	# 19	ACCI	EPT IN PRINCIP	_E.		
Brown, M	latt	Huawei Tech	nologies Canad	la	See i	esponse to comr	nent 19.		
Comment 802.3	51	<i>Comment Status</i> A baragraph, adding 100GBASE	-FR1 and 1000	Bucket GBASE-LR1	C/ 80	SC 80.1.4	P 48	L15	# <u>1</u> 10
Suggeste	dRemedy				Nicholl, C	Sary	Cisco System	าร	
00		based on changes in 802.3ct	ı		Commen	t Туре Т	Comment Status A		
Response		Response Status C			don't	we need to add a	the description for 100GBASI a new decription below 100GE fining (see Table 80-4b). ?		
Claus Claus in Cla	e 140 for 100GB e 154 for 100GB ause 89 for 40GB	ASE-ZR use a single lane da ASE-FR, and Clause 140 for	ta path" to reac 100GBASE-DF	"The MDIs as specified R, 100GBASE-FR1 and	Delet	00GBASE-Z just	ing instruction and add to nev below the current description <i>Response Status</i> C		
100G	BASE-LRT and C	Clause 154 for 100GBASE-ZF	cuse a single la	ane data path	ACC	EPT IN PRINCIP	LE.		

Delete reference and proposed modifications to the sixth paragraph of 80.1.4. Add new 8th paragraph to 80.1.4 stating "100GBASE-Z represents a family of Physical Layer devices using the Clause 82 Physical Coding Sublayer for 100 Gb/s operation over multiple PCS lanes (see Clause 82) and a PMD implementing DP-DQPSK modulation. Some 100GBASE-Z Physical Layer devices also use the transcoding and FEC of Clause 91, the FEC of Clause 153, or the FEC of Clause 74."

C/ 80 SC 80.1.4

C/ 80	SC 80.1.4	P 56	L 32	# 79	CI 80	SC 80.1.5	P 49	L 6	# 50
D'Ambros	sia, John	Futurewei, U.S	6. Subsidiary of	Huawei	Bruckma	n, Leon	Huawei		
	ription for 100 GB				Comment Missi	t <i>Type</i> E ng the "R"	Comment Status D		
reach		0GBASE-R encoding over on km (see Clause154). There i			<i>Suggeste</i> Chan		Z" to "100GBASE-ZR"		
Suggeste	dRemedy				Proposed	Response	Response Status Z		
	ge description to	0GBASE-R encoding over a s	inalo wavolonat	h/fraguancy on a	REJE	CT.			
		with reach up to at least 80 k			This o	comment was W	ITHDRAWN by the commenter	r.	
Response ACCE	e EPT IN PRINCIPL	Response Status C			WITH	IDRAWN			
					CI 80	SC 80.2.3	P 49	L 42	# <u>1</u> 06
		00Gb/s PHY using 100GBAS reach up to at least 80 km (se			Nicholl, G	Bary	Cisco Systems	s	
using	100GBASE-R er	coding over one DWDM char	nel in each direc	ction of transmission,	Comment	Туре Е	Comment Status A		Bucket
with r	each up to at leas	at 80 km (see Clause 154)" P 49	L 6	# 105			states "as changed by IEEE ext does not include the change		
Nicholl, G		۲ 49 Cisco System		# 105	Suggeste	dRemedy			
Comment	t Type T	Comment Status A		Bucket			anges made by 802.3cu, speci LR1 PMDs (see 802.3cu D1.1)		e to the 100GBASE-
	e 80-4b should onl Insistent with Tab	y have PMD columns for 100	GBASE-ZR. Bas	sically this table should	Response	e	Response Status C		
	dRemedy				ACCE	EPT IN PRINCIP	LE.		
Remo 100G CPPI 100G 100G	ove the following on BASE-SR10 PMI				and 1		LR1 PHYs from 802.3cu chan HYs" to read "100GBASE-DR, "		
		ying in the table. This is a nev eed for strickthrough or underl		are not updating an					
Response ACCI		Response Status C							

CI 80 SC 80.2.3

C/ 80	SC 80.2.4	P 50	L 5	# 21	C/ 80	SC 80.3.2		P 50	L30	# 20	
Brown, Ma	att	Huawei Tech	nologies Canada		Brown, Ma	itt	Н	uawei Techr	nologies Canada		
Comment	Туре Т	Comment Status A			Comment	Туре Т	Comment Sta	tus A			Bucket
		pecified in 153)) is not a 100	GBASE-R PMA	(specified in 83).			new class of PHY, after 100GBASE-				lded
	dRemedy	aution of			Suggested				-		
100GI		s specified in Clause153." e end of the paragraph:				00GBASE-Z" a ip all new and c	fter "100GBASE-P lelete text	" with appro	priate grammar a	and markup	
"The F	PMA specific to the	e 100GBASE-ZR PHY is sp	ecified in Clause	153."	Response		Response Sta	tus C			
Response		Response Status C			ACCEI	PT.					
ACCE		Ε.			C/ 80	SC 80.4		P 51	L 49	# 111	
Delete	e the exception as	noted and add new sentend	e at the end of t	he paragraph:			0			π [111	
"The l	PMA specific to the	e 100GBASE-ZR PHY is sp	ecified in 153.3."		Nicholl, Ga		Comment Sta	isco System	5		Duckat
C/ 80	SC 80.3.2	P 49	L 27	# 107	Comment Table 8	• •	odated by 802.3ct	tus A		I	Bucket
Nicholl, G	ary	Cisco System	ıs		Suggested	Remedy					
Comment		Comment Status A		Bucke	Opuale		tion to reflect the c				
as foll		states "Change the first sent re no changes indicated in t					s might be to just s at way you should				
منام من م	المعالية والمعاد		0	· 5			•••				
	o underline".		0		Response		Response Sta				
Suggestee	dRemedy		Ū	, c	Response	PT IN PRINCIP	Response Sta				
Suggestee Pleas	<i>dRemedy</i> e identify the chan	nges to the text with strickthr	Ū	, c	Response ACCEI		Response Stat	tus C	ides made by 80	2.3cu and include	
Suggestee Pleas Response	dRemedy e identify the chan	Response Status C	Ū	, c	Response ACCEI Update	e the editing ins	Response Sta	tus C	iges made by 80	2.3cu and include	2
Suggestee Pleas Response	<i>dRemedy</i> e identify the chan	Response Status C	Ū	, c	Response ACCEI Update	e the editing ins	Response Star LE. tructions to referer 100GBASE-LR1 ir	tus C	uges made by 80	2.3cu and include # 14	•
Suggested Pleas Response ACCE	dRemedy e identify the chan	Response Status C E.	Ū	, c	Response ACCEI Update 100GB	e the editing ins ASE-FR1 and SC 83C.4.2	Response Stat LE. tructions to referen 100GBASE-LR1 ir	tus C nce the chan n the table. P 120	L11	# 14	
Suggested Pleas Response ACCE See re	dRemedy e identify the chan PT IN PRINCIPLE	Response Status C E.	Ū	erline.	Response ACCEI Update 100GB C/ 83C	e the editing ins BASE-FR1 and SC 83C.4.2 tt	Response Stat LE. tructions to referen 100GBASE-LR1 ir	tus C nee the chan the table. P 120 uawei Techr		# 14	
Suggested Pleas Response ACCE See re	dRemedy e identify the chan PT IN PRINCIPLE esponse to commo SC 80.3.2	Response Status C E. ent 20. P 49	ough and/or und	, c	Response ACCEI Update 100GB C/ 83C Brown, Ma Comment	e the editing ins BASE-FR1 and SC 83C.4.2 Itt <i>Type</i> T	Response Stat LE. tructions to referen 100GBASE-LR1 ir H	tus C nece the chan the table. P 120 uawei Techr tus A	L 11 nologies Canada	# [14]
Suggester Pleas Response ACCE See re C/ 80 Nicholl, G	dRemedy e identify the chan PT IN PRINCIPLE esponse to commo SC 80.3.2 ary	Response Status C E. ent 20.	ough and/or und	erline.	Response ACCEI Update 100GB C/ 83C Brown, Ma Comment Figure	e the editing ins BASE-FR1 and SC 83C.4.2 ttt <i>Type</i> T 83C-9 and Fig	Response Stat LE. tructions to referer 100GBASE-LR1 ir H Comment Sta	tus C nece the chan the table. P 120 uawei Techr tus A	L 11 nologies Canada	# [14	
Suggester Pleas Response ACCE See re C/ 80 Nicholl, G Comment "Exan	dRemedy e identify the chan PT IN PRINCIPLE esponse to commo SC 80.3.2 ary Type T nples of inter-subla	Response Status C E. ent 20. P 49 Cisco Systen	ough and/or und <i>L</i> 28 Is	# 108 Bucke	Response ACCEI Update 100GB C/ 83C Brown, Ma Comment Figure Suggested Add 10	e the editing ins BASE-FR1 and SC 83C.4.2 att Type T 83C-9 and Fig Remedy 00GAUI-4 in ad	Response Stat LE. tructions to referer 100GBASE-LR1 ir H Comment Sta	tus C note the chan the table. P 120 uawei Techr tus A include both 2.	L 11 nologies Canada	# [14	
Suggester Pleas Response ACCE See re C/ 80 Nicholl, G Comment "Exan 100Gl	dRemedy e identify the chan PT IN PRINCIPLE esponse to commo SC 80.3.2 ary <i>Type</i> T pples of inter-subla BASE-P". I tho	Response Status C E. ent 20. P49 Cisco Systen Comment Status A ayer service interfaces for 40	ough and/or und <i>L</i> 28 Is	# 108 Bucke	Response ACCEI Update 100GB C/ 83C Brown, Ma Comment Figure Suggested Add 10	e the editing ins BASE-FR1 and SC 83C.4.2 att Type T 83C-9 and Fig Remedy 00GAUI-4 in ad	Response Stat ILE. tructions to referen 100GBASE-LR1 ir H Comment Sta ure 83C-10 should dition to 100GAUI-	tus C nece the chan the table. P 120 uawei Techr tus A include both 2. an example.	L 11 nologies Canada	# [14	
Suggestee Pleas Response ACCE See re C/ 80 Nicholl, G Comment "Exan 100Gl 4b), s	dRemedy e identify the chan PT IN PRINCIPLE esponse to commo SC 80.3.2 ary <i>Type</i> T nples of inter-suble BASE-P". I tho o shouldn't this be	Response Status C E. ent 20. P49 Cisco System Comment Status A ayer service interfaces for 40 bught we were adding a new	ough and/or und <i>L</i> 28 Is	# 108 Bucke	Response ACCEI Update 100GB C/ 83C Brown, Ma Comment Figure Suggested Add 10 See Fi Response	e the editing ins BASE-FR1 and SC 83C.4.2 att Type T 83C-9 and Fig Remedy 00GAUI-4 in ad	Response Stat ILE. tructions to referen 100GBASE-LR1 in H Comment Sta ure 83C-10 should dition to 100GAUI- 802.3cd-2018 as a Response Stat	tus C nece the chan the table. P 120 uawei Techr tus A include both 2. an example.	L 11 nologies Canada	# [14	,
Suggested Pleas Response ACCE See re C/ 80 Nicholl, G Comment "Exam 100Gl 4b), s Suggested	dRemedy e identify the chan PT IN PRINCIPLE esponse to commo SC 80.3.2 ary <i>Type</i> T nples of inter-suble BASE-P". I tho o shouldn't this be	Response Status C E. ent 20. P49 Cisco System Comment Status A ayer service interfaces for 40 pught we were adding a new e included in the list ?	ough and/or und <i>L</i> 28 Is	# 108 Bucke	Response ACCEI Update 100GB C/ 83C Brown, Ma Comment Figure Suggested Add 10 See Fi Response ACCEI	e the editing ins BASE-FR1 and SC 83C.4.2 att Type T 83C-9 and Figure Remedy 00GAUI-4 in ad gure 135A-8 in PT IN PRINCIP	Response Stat ILE. tructions to referen 100GBASE-LR1 in H Comment Stat ure 83C-10 should dition to 100GAUI- 802.3cd-2018 as a Response Stat	tus C nee the chan the table. P 120 uawei Techr tus A include both 2. an example. tus C	L 11 nologies Canada n 100GAUI-4 and	# <u>14</u>	,
Suggestee Pleas Response ACCE See re C/ 80 Nicholl, G Comment "Exan 100Gl 4b), s Suggestee Add re	dRemedy e identify the chan PT IN PRINCIPLE esponse to commo SC 80.3.2 ary <i>Type</i> T nples of inter-suble BASE-P". I tho o shouldn't this be dRemedy eference to the 10	Response Status C E. ent 20. P49 Cisco System Comment Status A ayer service interfaces for 40 pught we were adding a new e included in the list ?	ough and/or und <i>L</i> 28 Is	# 108 Bucke	Response ACCEI Update 100GB C/ 83C Brown, Ma Comment Figure Suggested Add 10 See Fi Response ACCEI The ind	e the editing ins ASE-FR1 and <i>SC</i> 83C.4.2 att <i>Type</i> T 83C-9 and Fig <i>Remedy</i> 00GAUI-4 in ad gure 135A-8 in PT IN PRINCIP dicated figures	Response Stat ILE. tructions to referen 100GBASE-LR1 in H Comment Stat ure 83C-10 should dition to 100GAUI- 802.3cd-2018 as a Response Stat LE. become Figure 13	tus C nee the chan the table. P 120 uawei Techr tus A include both 2. an example. tus C 5A-9 and Fig	L 11 nologies Canada n 100GAUI-4 and	# <u>14</u> d 100GAUI-2.	,
Suggestee Pleas Response ACCE See re C/ 80 Nicholl, G Comment "Exan 100Gl 4b), s Suggestee Add re Response	dRemedy e identify the chan PT IN PRINCIPLE esponse to commo SC 80.3.2 ary <i>Type</i> T nples of inter-suble BASE-P". I tho o shouldn't this be dRemedy eference to the 10	Response Status C E. ent 20. P49 Cisco System Comment Status A ayer service interfaces for 40 bught we were adding a new b included in the list ? 0GBASE-Z PHY Response Status C	ough and/or und <i>L</i> 28 Is	# 108 Bucke	Response ACCEI Update 100GB C/ 83C Brown, Ma Comment Figure Suggested Add 10 See Fi Response ACCEI The ind	e the editing ins ASE-FR1 and <i>SC</i> 83C.4.2 att <i>Type</i> T 83C-9 and Fig <i>Remedy</i> 00GAUI-4 in ad gure 135A-8 in PT IN PRINCIP dicated figures use to comment	Response Stat ILE. tructions to referen 100GBASE-LR1 in H Comment Stat ure 83C-10 should dition to 100GAUI- 802.3cd-2018 as a Response Stat	tus C nee the chan the table. P 120 uawei Techr tus A include both 2. an example. tus C 5A-9 and Fig	L 11 nologies Canada n 100GAUI-4 and	# <u>14</u> d 100GAUI-2.	,
Suggestee Pleas Response ACCE See re Cl 80 Nicholl, G Comment "Exan 100Gl 4b), s Suggestee Add re Response ACCE	dRemedy e identify the chan PT IN PRINCIPLE esponse to commo SC 80.3.2 ary <i>Type</i> T nples of inter-suble BASE-P". I tho o shouldn't this be dRemedy eference to the 10	Response Status C E. ent 20. P49 Cisco System Comment Status A ayer service interfaces for 40 ought we were adding a new e included in the list ? OGBASE-Z PHY Response Status C E.	ough and/or und <i>L</i> 28 Is	# 108 Bucke	Response ACCEI Update 100GB C/ 83C Brown, Ma Comment Figure Suggested Add 10 See Fi Response ACCEI The ind respon	e the editing ins ASE-FR1 and <i>SC</i> 83C.4.2 att <i>Type</i> T 83C-9 and Fig <i>Remedy</i> 00GAUI-4 in ad gure 135A-8 in PT IN PRINCIP dicated figures use to comment	Response Stat ILE. tructions to referen 100GBASE-LR1 in H Comment Stat ure 83C-10 should dition to 100GAUI- 802.3cd-2018 as a Response Stat LE. become Figure 13	tus C nee the chan the table. P 120 uawei Techr tus A include both 2. an example. tus C 5A-9 and Fig	L 11 nologies Canada n 100GAUI-4 and	# <u>14</u> d 100GAUI-2.	
Suggestee Pleas Response ACCE See re Cl 80 Nicholl, G Comment "Exan 100Gl 4b), s Suggestee Add re Response ACCE See re	dRemedy e identify the char PT IN PRINCIPLE esponse to common SC 80.3.2 ary <i>Type</i> T pples of inter-suble BASE-P". I tho o shouldn't this be dRemedy eference to the 10 PT IN PRINCIPLE esponse to common	Response Status C E. ent 20. P49 Cisco System Comment Status A ayer service interfaces for 40 ought we were adding a new e included in the list ? OGBASE-Z PHY Response Status C E.	ough and/or und <i>L</i> 28 Is DGBASE-R, 1000 100GBASE-Z PI	# <u>108</u> # <u>Bucke</u> BBASE-R, and HY type (see Table 80-	Response ACCEI Update 100GB C/ 83C Brown, Ma Comment Figure Suggested Add 10 See Fi Response ACCEI The ind respon	e the editing ins ASE-FR1 and <i>SC</i> 83C.4.2 att <i>Type</i> T 83C-9 and Fig <i>Remedy</i> 00GAUI-4 in ad gure 135A-8 in PT IN PRINCIP dicated figures use to comment	Response Stat ILE. tructions to referen 100GBASE-LR1 in H Comment Stat ure 83C-10 should dition to 100GAUI- 802.3cd-2018 as a Response Stat LE. become Figure 13	tus C nee the chan the table. P 120 uawei Techr tus A include both 2. an example. tus C 5A-9 and Fig	<i>L</i> 11 nologies Canada n 100GAUI-4 and gure 135A-10 res	# <u>14</u> d 100GAUI-2.	

SORT ORDER: Clause, Subclause, page, line

CI 83C	SC 83C.4.2	P 120	L11	# 15	C/ 152	SC 152.1	F	°59	L 35	# 23
Brown, Ma	att	Huawei Tech	nologies Canada	1	Brown, Ma	att	Hua	awei Techno	ologies Canada	
Comment	Туре Т	Comment Status A			Comment		Comment Statu			bucket
		33C-10 should be in Anne MA not Clause 83 PMA>		as they are primarily	For Fig 83.	gure 152-1. Th	e PMA above the Inv	erse RS-FE	C is defined in C	Clause 135 not Clause
Suggested	lRemedy				Suggested	IRemedy				
Add A Annex		ct and amend by moving l	Figure 83C-9 and	Figure 83C-10 to		-	LAUSE 83" to "CLAU			
Response		Response Status C			Response ACCE		Response Statu	sC		
Impler		emedy, so Figure 83C-9 b 10, and see response to o		135A-9 and Figure 83C-	C/ 152	SC 152.1.1		258	L12	# 22
C/ 152	SC 152.1	P58	L13	# 16	Brown, Ma		Hua Comment Statu		ologies Canada	bucket
Brown, Ma			nologies Canada		Comment	51	m is introduced in the			DUCKEI
Comment		Comment Status A		,				lingt genten		
		as adopted as a baseline i	s was meant not	only to enable	Suggested		change "Reed-Solom	on FEC" to	"RS-FEC"	
conve	rsion to the 100GBA	SE-ZR but rather as reus	able sublayer for	either (a) converting to			0		10-1 20 .	
		ise 91 RS(544,514) FEC of device. The inverse FEC			Response ACCE		Response Statu	s C		
200G)	(S specified by 802.	3bs for 400GE and 200G	E (see Clause 1'	18 in 802.3-2018).			18 in comment chang	ed to page	58.	
		ory subclause is written it				SC 152.1.1	•			# 440
for nev	w PHY types it shou	eneral reuse of this sublay ld be defined generically.	rel and to avoid i	eworking this clause	C/ 152			°58	L12	# 112
Suggested					Nicholl, G	2		co Systems		
••	•	nd sentence to: "This sub	layer is used in o	cases where the RS-	Comment	51	Comment Statu d in cases where the		non EEC specifi	ed in Clause 91 is
		1 is used across a chip-to	-chip or chip-to-	module interface and a			o-chip or chip-to-mod			
	nt FEC is used for t ure 152-1 change "1	ne PMD." 00GBASE-ZR" to "FEC" a	and "100GBASE	-ZR PMA" to "PMA and			53 is used between t	he PMD sub	players of two co	nnected 100GBASE-
update	e the definition list.				ZR PH	IYS."				
In Figu	µe the title of 83C.4 ⊧ µre 83C-9 and Figur e "SC-FEC" to "FEC		with Inverse RS-	FEC"	l thoug make	ght we had agre the clause gen	eed in Hawaii to remo eric (and not specific	ove the refe to only 100	rence to 100GB GBASE-ZR) ?	ASE-ZR in order to
	e "100GBASE-ZR F				Suggested	lRemedy				
If any	examples specific to	to "100GBASE-Z/P" or ad the 100GBASE-ZR PHY	are required the				ption to remove refer be used for other PH		GBASE-ZR and	make the clause
	•)GBASE-ZR (153 or 154).			Response		Response Statu	s C		
Response		Response Status C			ACCE	PT IN PRINCI	PLE.			
	PT IN PRINCIPLE. time this clause was	s created, SC-FEC was th	ne only known ca	se where it would be	See re	sponse to com	nment #16			
used.	Now that P802.3ck	has adopted the optional i								
		e 152 could be used. emedy with editorial licens	20							
mpier	nent the proposed f	emedy with editorial licens	50.							
YPE: TR	technical required	ER/editorial required GR/	general required	T/technical E/editorial G	/general			C/ 152		Page 6 of 24
	T STATUS: D/dispa	tched A/accepted R/reje	cted RESPON	ISE STATUS: O/open W/	written C/closed	Z/withdrawn		SC 152	.1.1	1/22/2020 2:45:19

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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	SC 152.1.2	P 59	L 36	# 113	C/ 152	SC 152.	.3		P 60	L11	# 26
licholl, Gary		Cisco System	าร		Brown, Ma	itt			Huawei Tech	nologies Canada	1
omment Typ	e T	Comment Status A			Comment	Туре Т		Comment S	Status A		
Figure 152	2-1 makes Claus	se 152 specific to the 1000	GBASE-ZR FEC a	and PMA.							es between the RS-FE
uggestedRer	•									wer lanes is rem	oved below the Invers m.
		the Inverse RS-FEC sublection (1), and update any other			Suggestea	Remedy					
lesponse		Response Status C		oladoo do hoococal ji	Provid	e informatio	on indi	icating the sou	rce of this res	triction, perhaps	a subclause number.
•	IN PRINCIPLE.				Response			Response S	tatus C		
	onse to commen	t #16			ACCE	PT IN PRIN	ICIPL	E.			
/ 152 §	SC 152.2	P 59	L 40	# 4	Chang "The r		at all l	DMA service ir	terfaces betw	ioon the RS_EEC	sublayer and the PM
Brown. Matt			nologies Canada	<i>n</i> 4							RS-FEC sublayer."
,	. F	Comment Status A	noiogies Canada		to						
comment Typ		the inverse FEC SI as defi	inad in 90.2 which	is used by the							sublayer and the PN the Inverse RS-FEC
inverse RS	S-FEC sublayer.	When referring to the suberse FEC states dent erse FEC" sublayer.			sublay			of lewel lanes	(see 91.5) is	Terrioved below	
uggestedRer											But once you termina
••	•	layer" to "inverse RS-FEC	sublaver at Page	e 59 line 41	the FE lanes.	C and go b	ack to	o the 20 PCS la	ane format, yo	ou are no longer l	ocked at 4 or fewer
Change 1			, 5		lance.						
•		Response Status C	, ,		C/ 152	SC 152.	.5		P 60	L27	# 28
Response ACCEPT I	IN PRINCIPLE.	Response Status C	, ,		C/ 152		.5				# 28
Response ACCEPT I Make the i	IN PRINCIPLE.		, ,		C/ 152 Brown, Ma	itt	.5		Huawei Tech	L 27 Inologies Canada	1
Response ACCEPT I Make the clause.	IN PRINCIPLE. indicated correc	Response Status C tion in both the title of 152	2.2 and the first se	entence of the sub-	C/ 152 Brown, Ma Comment	itt Type E		Comment S	Huawei Tech Status A	inologies Canada	a buc
ACCEPT I Make the i clause.	IN PRINCIPLE.	Response Status C tion in both the title of 152 P 60	2.2 and the first se		CI 152 Brown, Ma Comment It is no perpet	itt <i>Type</i> E t necessary ually valid.	y to gi It is si	Comment S ve a reason fo ufficient to say	Huawei Tech Status A r a specification simply that the	nologies Canada on and the reaso le EEE deep slee	a buc n given may not be p is not supported.
esponse ACCEPT I Make the i clause.	IN PRINCIPLE. indicated correc	Response Status C tion in both the title of 152 P 60	2.2 and the first se	entence of the sub-	CI 152 Brown, Ma Comment It is no perpet Note th	tt <i>Type</i> E t necessary ually valid. nat for KR (l	y to gi It is su backp	Comment S ve a reason fo ufficient to say plane) and CR	Huawei Tech Status A r a specification simply that the	nologies Canada on and the reaso le EEE deep slee	a buo n given may not be
ACCEPT I Make the i clause.	IN PRINCIPLE. indicated correc SC 152.2	Response Status C tion in both the title of 152 P 60	2.2 and the first se	entence of the sub-	CI 152 Brown, Ma Comment It is no perpet Note th objecti	tt Type E t necessary ually valid. nat for KR (l ve to suppo	y to gi It is su backp	Comment S ve a reason fo ufficient to say plane) and CR	Huawei Tech Status A r a specification simply that the	nologies Canada on and the reaso le EEE deep slee	a buc n given may not be p is not supported.
ACCEPT I Make the i clause. 1 152 Strown, Matt comment Typ The SIGN.	IN PRINCIPLE. indicated correc SC 152.2 Pe T IAL_OK paramet	Response Status C tion in both the title of 152 P60 Huawei Tech Comment Status A ter is sent upward and thu	2.2 and the first sec L4 nologies Canada is is affected by th	# 24	Cl 152 Brown, Ma Comment It is no perpet Note th objecti Suggested	att Type E t necessary ually valid. hat for KR (i ve to suppo Remedy	y to gi It is su backp ort EE	Comment S ve a reason fo ufficient to say plane) and CR E.	Huawei Tech Status A r a specification simply that the (twinax) PHYs	nologies Canada on and the reaso le EEE deep slee s being specified	a buc n given may not be p is not supported.
Response ACCEPT I Make the clause. A 152 Brown, Matt Comment Typ The SIGN and alignn	IN PRINCIPLE. indicated correc SC 152.2 be T IAL_OK paramet nent process rat	Response Status C tion in both the title of 152 P60 Huawei Tech Comment Status A	2.2 and the first sec L4 nologies Canada is is affected by th	# 24	Cl 152 Brown, Ma Comment It is no perpet Note th objecti Suggested	att Type E t necessary ually valid. hat for KR (i ve to suppo Remedy	y to gi It is su backp ort EE	Comment S ve a reason fo ufficient to say ane) and CR E. vpes using this	Huawei Tech Status A r a specification simply that the (twinax) PHYs sublayer are	nologies Canada on and the reaso le EEE deep slee s being specified	a buc n given may not be p is not supported.
Response ACCEPT I Make the clause. 2/ 152 S Brown, Matt Comment Typ The SIGN and alignn SuggestedRer	IN PRINCIPLE. indicated correc SC 152.2 De T IAL_OK paramet ment process rat	Response Status C tion in both the title of 152 P60 Huawei Tech Comment Status A ter is sent upward and thu ther than FEC codeword a	2.2 and the first sec L4 nologies Canada is is affected by th lignment process	entence of the sub- # 24	CI 152 Brown, Ma Comment It is no perpet Note th objecti Suggested Delete Response	Itt Type E t necessary ually valid. I nat for KR (f ve to suppo Remedy "since all F	y to gi It is su backp ort EE	Comment S ve a reason fo ufficient to say plane) and CR E.	Huawei Tech Status A r a specification simply that the (twinax) PHYs sublayer are	nologies Canada on and the reaso le EEE deep slee s being specified	a buc n given may not be p is not supported.
ACCEPT I Make the i clause. 152 Brown, Matt Comment Typ The SIGN and alignn SuggestedRer Change th "The value	IN PRINCIPLE. indicated correc SC 152.2 be T IAL_OK paramet ment process rat medy ne last sentence	Response Status C tion in both the title of 152 P60 Huawei Tech Comment Status A ter is sent upward and thu ther than FEC codeword a of 152.2 to the following (nen align_status (see 152.	2.2 and the first sec <i>L</i> 4 nologies Canada is is affected by th lignment process based on test in 8	# 24 # 24 he 64B/66B block lock 32.2):	Cl 152 Brown, Ma Comment It is no perpet Note th objecti Suggested Delete	Itt Type E t necessary ually valid. I nat for KR (f ve to suppo Remedy "since all F	y to gi It is su backp ort EE	Comment S ve a reason fo ufficient to say ane) and CR E. vpes using this	Huawei Tech Status A r a specification simply that the (twinax) PHYs sublayer are	nologies Canada on and the reaso le EEE deep slee s being specified	a buc n given may not be p is not supported.
Response ACCEPT I Make the clause. 7 152 Brown, Matt Comment Typ The SIGN, and alignn CuggestedRer Change th "The value when align	IN PRINCIPLE. indicated correc SC 152.2 De T IAL_OK paramet ment process rat medy De last sentence e is set to OK wh n_status is false	Response Status C tion in both the title of 152 P60 Huawei Tech Comment Status A ter is sent upward and thu ther than FEC codeword a of 152.2 to the following (nen align_status (see 152.	2.2 and the first sec <i>L</i> 4 nologies Canada is is affected by th lignment process based on test in 8	# 24 # 24 he 64B/66B block lock 32.2):	CI 152 Brown, Ma Comment It is no perpet Note th objecti Suggested Delete Response	Itt Type E t necessary ually valid. I nat for KR (f ve to suppo Remedy "since all F	y to gi It is su backp ort EE	Comment S ve a reason fo ufficient to say ane) and CR E. vpes using this	Huawei Tech Status A r a specification simply that the (twinax) PHYs sublayer are	nologies Canada on and the reaso le EEE deep slee s being specified	a buc n given may not be p is not supported.
Response ACCEPT I Make the clause. 7 152 Brown, Matt Comment Typ The SIGN, and alignn SuggestedRer Change th "The value when aligr Response ACCEPT I	IN PRINCIPLE. indicated correc SC 152.2 be T IAL_OK paramet medy he last sentence e is set to OK wh n_status is false IN PRINCIPLE.	Response Status C tion in both the title of 152 P60 Huawei Techt Comment Status A ter is sent upward and thu ther than FEC codeword a of 152.2 to the following (in en align_status (see 152.	2.2 and the first sec <i>L</i> 4 nologies Canada is is affected by th lignment process based on test in 8 .6.13) is true. The	entence of the sub- # 24 the 64B/66B block lock 32.2): value is set to FALSE	CI 152 Brown, Ma Comment It is no perpet Note th objecti Suggested Delete Response	Itt Type E t necessary ually valid. I nat for KR (f ve to suppo Remedy "since all F	y to gi It is su backp ort EE	Comment S ve a reason fo ufficient to say ane) and CR E. vpes using this	Huawei Tech Status A r a specification simply that the (twinax) PHYs sublayer are	nologies Canada on and the reaso le EEE deep slee s being specified	a buc n given may not be p is not supported.
Response ACCEPT I Make the clause. 7 152 S Brown, Matt Comment Typ The SIGN and alignn SuggestedRer Change th "The value when align Response ACCEPT I Change th	IN PRINCIPLE. indicated correc SC 152.2 be T IAL_OK paramet medy he last sentence e is set to OK wh n_status is false IN PRINCIPLE.	Response Status C tion in both the title of 152 P60 Huawei Techt Comment Status A ter is sent upward and thu ther than FEC codeword a of 152.2 to the following (nen align_status (see 152. " Response Status C ences of 152.2 to the indica	2.2 and the first sec <i>L</i> 4 nologies Canada is is affected by th lignment process based on test in 8 .6.13) is true. The	entence of the sub- # 24 the 64B/66B block lock 32.2): value is set to FALSE	CI 152 Brown, Ma Comment It is no perpet Note th objecti Suggested Delete Response	Itt Type E t necessary ually valid. I nat for KR (f ve to suppo Remedy "since all F	y to gi It is su backp ort EE	Comment S ve a reason fo ufficient to say ane) and CR E. vpes using this	Huawei Tech Status A r a specification simply that the (twinax) PHYs sublayer are	nologies Canada on and the reaso le EEE deep slee s being specified	a buc n given may not be p is not supported.

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SC	152.5	1/22/20

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C/ 152 SC 152.5	P 60	L 28	# 27	C/ 152	SC 152.5.1	P6	,,	L 40	# 32
Brown, Matt	Huawei Tech	nologies Canada		Brown, Ma	tt	Huav	wei Techno	ologies Canada	
comment Type E	Comment Status R			Comment	Гуре Т	Comment Status	A		bucke
There is a reference to	"The FEC optional states in	Clause 91". This is	s a bit vague.			yer below might be e			
uggestedRemedy				where Figure		can be more than on	e, the varia	able inst (italiciz	ed) is used (see
Change to "The optional	al states in Figure 91-8"			Suggested	,				
esponse	Response Status C				re 152-2.				
states are described. H	be a lot of consistency acros łowever, Clause 45 has creat	ted a specific varia	able "FEC optional	For the Similar	signals below to Figure 120-5	the Inverse RS-FEC 5, add legend text: epending on which s	•		S" with inst italicized. "
states supported", so c them.	alling these the "FEC optiona	al states" seems a	safe way to refer to	Response		Response Status	С		
	152.5 is simply a high-level in	ntro of what is or is	s not supported in the	ACCE	РТ.				
clause. The detail in 15	52.5.2.1 includes the specific tted line in Figure 91-8 and T	description that th		C/ 152	SC 152.5.1	Pe	61	L 46	# 114
	-			Nicholl, Ga			o Systems		
152 SC 152.5.1	P 61	L 24	# 5	Comment T	5	Comment Status			bucke
rown, Matt	Huawei Tech	nologies Canada			• •	EC sublayer below t		RS-FEC sublay	
omment Type E	Comment Status R					n generic I would sug			
					, ,			5	
It is not immediately ob	ovious which path is transmit	function and which	n is receive function.	Suggested				5	
	ovious which path is transmit	function and which	n is receive function.	Suggested	Remedy	o also show PMA as	an option t	-	se RS-FEC sublayer.
<i>uggestedRemedy</i> A label "Transmit functi	ovious which path is transmit ion" to downward path and a			Suggested Update	Remedy			-	
uggestedRemedy A label "Transmit functi path.	ion" to downward path and a			Suggested Update Response	Remedy	Response Status		-	
uggestedRemedy A label "Transmit functi path. Pesponse	·			Suggested Update Response ACCEF	Remedy Figure 152-2 to	Response Status _E.		-	
uggestedRemedy A label "Transmit functi path. esponse REJECT.	ion" to downward path and a Response Status C	label "Receive fun	nction" to the upward	Suggested Update Response ACCEF	Remedy Figure 152-2 to PT IN PRINCIP sponse to comr	Response Status LE. nent #32	c	below the Invers	se RS-FEC sublayer.
uggestedRemedy A label "Transmit functi path. esponse REJECT. No other clause has thi	ion" to downward path and a	label "Receive fun Figure 91-2 from	nction" to the upward which this is derived.	Suggested Update Response ACCEF See res Cl 152	Remedy Figure 152-2 to PT IN PRINCIP sponse to comr SC 152.5.2 .	Response Status LE. nent #32	C 52	below the Invers	
uggestedRemedy A label "Transmit functi path. esponse REJECT. No other clause has thi	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example,	label "Receive fun Figure 91-2 from	nction" to the upward which this is derived.	Suggested Update Response ACCEF See res C/ 152 Brown, Ma	Remedy Figure 152-2 to PT IN PRINCIP sponse to comr SC 152.5.2 . ⁴	Response Status LE. nent #32	C 52 wei Techno	below the Invers	se RS-FEC sublayer. # 33
uggestedRemedy A label "Transmit functi path. esponse REJECT. No other clause has thi An unwritten convention kinds of figures.	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example,	label "Receive fun Figure 91-2 from	nction" to the upward which this is derived.	Suggested Update Response ACCEF See res CI 152 Brown, Ma Comment	Remedy Figure 152-2 to PT IN PRINCIP sponse to comr SC 152.5.2. tt Type T	Response Status LE. nent #32 Pe Huav Comment Status	C 52 wei Techno	L2	e RS-FEC sublayer. # <u>33</u> bucke
aggestedRemedy A label "Transmit functi path. esponse REJECT. No other clause has thi An unwritten convention kinds of figures. 152 SC 152.5.1	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example, n is that the Tx direction is do	label "Receive fun Figure 91-2 from own and the Rx dir <i>L</i> 24	nction" to the upward which this is derived. rection is up in these	Suggested Update Response ACCEF See res C/ 152 Brown, Ma Comment T The se optiona	Remedy Figure 152-2 to PT IN PRINCIP sponse to comr SC 152.5.2. tt <i>SC</i> 152.5.2. tt <i>Sype</i> T ntence below is al state. This sh	Response Status LE. nent #32 Huav Comment Status unecessarily wordy. puld be more than a	C wei Techno A The reference note.	L2 blogies Canada	# 33 bucke
A label "Transmit functi path. esponse REJECT. No other clause has thi An unwritten convention kinds of figures. 152 SC 152.5.1 rown, Matt	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example, n is that the Tx direction is do <i>P</i> 61 Huawei Tech	label "Receive fun Figure 91-2 from own and the Rx dir	nction" to the upward which this is derived. rection is up in these	Suggested Update Response ACCEF See res C/ 152 Brown, Ma Comment T The se optiona "Note t	Remedy Figure 152-2 to PT IN PRINCIP sponse to comr SC 152.5.2. ⁴ tt <i>Sype</i> T ntence below is al state. This sh hat the FEC op	Response Status LE. nent #32 I Pf Huav Comment Status unecessarily wordy. build be more than a tional states within th	C 22 wei Technor A The reference note. e dotted lir	L2 blogies Canada ence figure clear ne of Figure 91-i	# 33 bucke
A label "Transmit functi path. esponse REJECT. No other clause has thi An unwritten convention kinds of figures. 1 152 SC 152.5.1 rown, Matt comment Type E	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example, n is that the Tx direction is do <i>P</i> 61 Huawei Tech <i>Comment Status</i> R	Iabel "Receive fun Figure 91-2 from own and the Rx dir <i>L</i> 24 nologies Canada	which this is derived. rection is up in these	Suggested Update Response ACCEF See res Cl 152 Brown, Ma Comment T The se optiona "Note t are ma	Remedy Figure 152-2 to PT IN PRINCIP sponse to comm SC 152.5.2. tt Type T ntence below is al state. This sh hat the FEC op ndatory in the c	Response Status LE. nent #32 Huav Comment Status unecessarily wordy. puld be more than a	C 22 wei Technor A The reference note. e dotted lir	L2 blogies Canada ence figure clear ne of Figure 91-i	# 33 bucke
uggestedRemedy A label "Transmit functi path. esponse REJECT. No other clause has thi An unwritten convention kinds of figures. 1 152 SC 152.5.1 rown, Matt omment Type E	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example, n is that the Tx direction is do <i>P</i> 61 Huawei Tech	Iabel "Receive fun Figure 91-2 from own and the Rx dir <i>L</i> 24 nologies Canada	which this is derived. rection is up in these	Suggested Update Response ACCEF See res C/ 152 Brown, Ma Comment T The se optiona "Note t are ma Suggested	Remedy Figure 152-2 to T IN PRINCIP sponse to comm SC 152.5.2. tt Type T ntence below is al state. This sh hat the FEC op ndatory in the c Remedy	Response Status LE. nent #32 General Huav Comment Status unecessarily wordy. build be more than a tional states within th ontext of the Inverse	C 32 wei Technor 5 A The referent note. e dotted lir RS-FEC s	L2 blogies Canada ence figure clear ne of Figure 91-i sublayer."	# 33 <i>bucke</i> rly indicates the 8, and transition A,
uggestedRemedy A label "Transmit functi path. esponse REJECT. No other clause has thi An unwritten convention kinds of figures. 1 152 SC 152.5.1 Grown, Matt formment Type E In Figure 152-2, it is no receive function.	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example, n is that the Tx direction is do <i>P</i> 61 Huawei Tech <i>Comment Status</i> R	Iabel "Receive fun Figure 91-2 from own and the Rx dir <i>L</i> 24 nologies Canada	which this is derived. rection is up in these	Suggested Update Response ACCEF See res Cl 152 Brown, Ma Comment 5 The se optiona "Note t are ma Suggested Change	Remedy Figure 152-2 to PT IN PRINCIP sponse to comm SC 152.5.2. tt <i>Sype</i> T ntence below is al state. This sh hat the FEC op ndatory in the c Remedy e the sentence	Response Status LE. nent #32 Comment Status unecessarily wordy. build be more than a tional states within th ontext of the Inverse to: "The FEC optiona	C 32 wei Technor 5 A The referent note. e dotted lir RS-FEC s	L2 blogies Canada ence figure clear ne of Figure 91-i sublayer."	# 33 <i>bucke</i> rly indicates the 8, and transition A,
A label "Transmit functi path. esponse REJECT. No other clause has thi An unwritten convention kinds of figures. 152 SC 152.5.1 rown, Matt omment Type E In Figure 152-2, it is no receive function. uggestedRemedy Add label "Transmit Fu	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example, n is that the Tx direction is do <i>P</i> 61 Huawei Tech <i>Comment Status</i> R	label "Receive fun Figure 91-2 from own and the Rx dir <i>L</i> 24 nologies Canada th is transmit funct	nction" to the upward which this is derived. rection is up in these # <u>31</u> tion and which is is	Suggested Update Response ACCEF See res C/ 152 Brown, Ma Comment T The se optiona "Note t are ma Suggested Chang manda	Remedy Figure 152-2 to T IN PRINCIP sponse to comm SC 152.5.2. tt Type T ntence below is al state. This sh hat the FEC op ndatory in the c Remedy	Response Status LE. nent #32 I PE Huav Comment Status unecessarily wordy. build be more than a tional states within th ontext of the Inverse to: "The FEC optional rse RS-FEC."	C wei Techno A The referent note. e dotted lir RS-FEC s I states an	L2 blogies Canada ence figure clear ne of Figure 91-i sublayer."	# 33 <i>bucke</i> rly indicates the 8, and transition A,
A label "Transmit functi path. esponse REJECT. No other clause has thi An unwritten convention kinds of figures. 152 SC 152.5.1 rown, Matt omment Type E In Figure 152-2, it is no receive function. uggestedRemedy Add label "Transmit Fu right (upward) path.	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example, n is that the Tx direction is do <i>P</i> 61 Huawei Tech <i>Comment Status</i> R ot immediately clear which pa	label "Receive fun Figure 91-2 from own and the Rx dir <i>L</i> 24 nologies Canada th is transmit funct	nction" to the upward which this is derived. rection is up in these # <u>31</u> tion and which is is	Suggested Update Response ACCEF See res C/ 152 Brown, Ma Comment T The se optiona "Note t are ma Suggested Chang manda Response	Remedy Figure 152-2 to PT IN PRINCIP sponse to comm <i>SC</i> 152.5.2. ⁴ tt <i>Type</i> T ntence below is a l state. This sh hat the FEC op ndatory in the c <i>Remedy</i> e the sentence tory for the Invest	Response Status LE. nent #32 Comment Status unecessarily wordy. build be more than a tional states within th ontext of the Inverse to: "The FEC optiona	C wei Techno A The referent note. e dotted lir RS-FEC s I states an	L2 blogies Canada ence figure clear ne of Figure 91-i sublayer."	# 33 <i>bucke</i> rly indicates the 8, and transition A,
uggestedRemedy A label "Transmit function path. tesponse REJECT. No other clause has thi An unwritten convention kinds of figures. / 152 SC 152.5.1 rown, Matt omment Type E In Figure 152-2, it is no receive function. uggestedRemedy Add label "Transmit Furight (upward) path.	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example, n is that the Tx direction is do <i>P</i> 61 Huawei Tech <i>Comment Status</i> R ot immediately clear which pa	label "Receive fun Figure 91-2 from own and the Rx dir <i>L</i> 24 nologies Canada th is transmit funct	nction" to the upward which this is derived. rection is up in these # <u>31</u> tion and which is is	Suggested Update Response ACCEF See res C/ 152 Brown, Ma Comment 7 The se optiona "Note t are ma Suggested Chang manda	Remedy Figure 152-2 to PT IN PRINCIP sponse to comm <i>SC</i> 152.5.2. ⁴ tt <i>Type</i> T ntence below is a l state. This sh hat the FEC op ndatory in the c <i>Remedy</i> e the sentence tory for the Invest	Response Status LE. nent #32 I Pf Huav Comment Status unecessarily wordy. build be more than a tional states within th ontext of the Inverse to: "The FEC optional rise RS-FEC."	C wei Techno A The referent note. e dotted lir RS-FEC s I states an	L2 blogies Canada ence figure clear ne of Figure 91-i sublayer."	# 33 <i>bucke</i> rly indicates the 8, and transition A,
SuggestedRemedy A label "Transmit functi path. Response REJECT. No other clause has thi An unwritten convention kinds of figures. Cl 152 SC 152.5.1 Brown, Matt Comment Type E In Figure 152-2, it is no receive function. SuggestedRemedy Add label "Transmit Fu	ion" to downward path and a <i>Response Status</i> C is labeling. See, for example, n is that the Tx direction is do <i>P</i> 61 Huawei Techt <i>Comment Status</i> R ot immediately clear which para unction" to the left (downward) <i>Response Status</i> C	label "Receive fun Figure 91-2 from own and the Rx dir <i>L</i> 24 nologies Canada th is transmit funct	nction" to the upward which this is derived. rection is up in these # <u>31</u> tion and which is is	Suggested Update Response ACCEF See res C/ 152 Brown, Ma Comment T The se optiona "Note t are ma Suggested Chang manda Response	Remedy Figure 152-2 to PT IN PRINCIP sponse to comm <i>SC</i> 152.5.2. ⁴ tt <i>Type</i> T ntence below is a l state. This sh hat the FEC op ndatory in the c <i>Remedy</i> e the sentence tory for the Invest	Response Status LE. nent #32 I Pf Huav Comment Status unecessarily wordy. build be more than a tional states within th ontext of the Inverse to: "The FEC optional rise RS-FEC."	C wei Techno A The referent note. e dotted lir RS-FEC s I states an	L2 blogies Canada ence figure clear ne of Figure 91-i sublayer."	# 33 <i>bucke</i> rly indicates the 8, and transition A,

C/ 152	SC 152.5.2.6	P 63	L 44	# 34	C/ 152	SC 152.6.13	P76	L14	# 25
Brown, Ma	att	Huawei Techr	nologies Canada		Brown, Ma	itt	Huawei Te	chnologies Canada	1
is 20. ⁻	e phrase "distribu	Comment Status A ted to multiple PCS lanes", I ve likely came from Clause 8 e defined.			Suggested	n_status does i Remedy	Comment Status A not appear in Figure 82-14.		bucke
Suggested	IRemedy				Chang	e "tx_align_sta	us" to "rx_align_status".		
Chang	e "multiple PCS	lanes" to "20 PCS lanes".			Response	D.T.	Response Status C		
	PT IN PRINCIPL	<i>Response Status</i> C E. n clause 82, change "multiple	e PCS lanes" to "	twenty PCS lanes"	ACCE C/ 153 Bruckman	SC 153.2.1	P 82 Huawei	L10	# 66
C/ 152	SC 152.5.4.2	.3 P73	L 5	# 29	Comment		Comment Status R		
conditi S <i>uggested</i>	FEC optional sta ional. IRemedy	Comment Status A tes are mandatory for Inverse tates are supported in the FE		-	fec_ali pre-FE <i>Suggestec</i> Add pe	C high BER. A Remedy ersistency chec	se if any lane looses alignm coording to the text in this c < of fec_align_status before rsistency check to be in line	ase receiver may b changing SIGNAL	e impaired frequently.
[Editor	PT IN PRINCIPL 's note - page ch		vorde also undor	rostart lock on line		havior is consi	Response Status C		
33, pa		d femedy. Delete the same v					ization state diagram in Fig ot when 3ms have transpire		ises lock when
C/ 152 Brown, Ma	SC 152.6.6	P 75	L 18 nologies Canada	# 30			be thinking delays between EE Std 802.3. The value of		
Comment Since 152.5.4 uncond Suggested Delete Delete Delete Delete	Type T FEC optional sta 4.2.1 the variable ditionally forced t <i>IRemedy</i> 152.6.6. "fec_optional_st row for 1.2201.7	Comment Status A tes are mandatory an associa that controls the state mach	ated ability bit is r						
Response ACCEI	945.2.1.186ab.7. PT.	Response Status C							

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: Clause, Subclause, page, line

C/ 153 SC 153.2.1

C/ 153	SC 153.2.1	P 82	L16	# 35	C/ 153	SC 153.2.3	.1	P 83	L 25	# 3
Brown, Ma	att	Huawei Tech	nnologies Canada		Brown, Ma	tt		Huawei Tech	nologies Canada	a
100GA	ore likely the SC- AUI-4 or 100GAU	Comment Status A FEC will connect to the PCS I-2 in which case RS-FEC w ossible the interface could b	vould be in use and		Predor SC-FE	acronym SC-F ninantly SC-FE C is used in ot	EC is introc EC is used t her clauses	including 45, 80, 1	ny places throug 54, and 83C.Ho	phout Clause 153. Only
Suggested	dRemedy						ere "staircas	se FEC" is reused.		
"The F service	e interface (see A	nected to the SC-FEC using Annex 83A, Annex 83B, Ann	ex 83D, Annex 83I	E, and Annex 135D		e all instances		e FEC" to SC-FEC such as the definition		vm is defined on page 153-1 and similar.
152) is	s a client of the F	n which case a PMA (see Ar EC service interface."	inex 63) of inverse	e FEC (see Clause	Response		Respor	nse Status C		
Response		Response Status C				PT IN PRINCIE nent the propo		with editorial licen	se.	
	PT IN PRINCIPL a 100GAUI interf	E. ace may exist above an Inv	erse RS-FEC subl	aver. it is never	C/ 153	SC 153.2.3	.2.4	P 84	L 22	# 36
immed	diately adjacent to	o a SC-FEC sublayer and he	ence is irrelevant fo		Brown, Ma	tt		Huawei Tech	nologies Canada	a
The cu implen Chang "The F instant Annex	urrent text referer nentation, but C2 ge the paragraph PCS or Inverse R tiation of the PMA	S-FEC may be connected to A service interface (see Ann ase a PMA (see Annex 83) o	ch is most probabl o the SC-FEC usin ex 83A, Annex 83B	g an optional 3, Annex 83D, and	<i>Suggested</i> Chang	o spell out first <i>Remedy</i> e start of sente	instance of ece to: g procedure	ent Status A each acronym wit (GMP) mapper ins	hin each Clause.	bucke
C/ 153	SC 153.2.3.1	P 83	L 24	# 6	ACCE	PT.				
	<i>Type</i> E ot immediately ob	Huawei Tech <i>Comment Status</i> R vious which path is transmit	nnologies Canada t function and whic	h is receive function.	Cl 153 Bruckman Comment			P 84 Huawei ent Status A	L 43	# <u>51</u> bucket
Suggested A labe path.	-	on" to downward path and a	a label "Receive fu	nction" to the upward	The las Suggesteo	,	e FAS are (0x24, while ITU-T G	6.709 defines the	em as 0x28
Response		Response Status C				e the last 3 by T G.709	tes of the FA	AS to 0x28 to make	e them consisten	t with the OTU4 defined
REJE(See re	CT. esponse to comm	ent #5			Chang "1111 to	0110 1111 011	PLE. 0 1111 011	nse Status C 0 0010 0100 0010 0 0010 1000 0010		

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: Clause, Subclause, page, line

Cl	153
SC	153.2.3.2.4

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C/ 153 SC 15	3.2.3.2.7	P 88	L 5	# 52	C/ 153	SC 153.2.3.3	.1 <i>P</i> 88	L 43	# 62
Bruckman, Leon		Huawei			Bruckman,	Leon	Huawei		
Comment Type 1	rr Com	ment Status A			Comment T	ype TR	Comment Status R		
3840 (the least o	common multip	0 position shall be a e of 240 and 256) fr	ame periods." The	e LLM is the 240-			n and the FEC lane number when loss of alignment hap		
				then we shall have a a value of nx16 (n=0	Suggested	Remedy			
to 15) when MFA	AS=0x00, other	wise the requiremen	nt will never be me			ntence: "The fra oss of alignmen	me start position and the FI t"	EC lane number :	shall be maintained
SuggestedRemedy					Response		Response Status C		
every 3840 (the 2 - Just add a no	ving text: " This least common ote saying: "ITU	multiple of 240 and 2 I-T G.709 Annex C r	256) frame periods equires that this c	ounter 0 position be	such as	e what this mea "frame start po	ns in the context of an IEEE sition" described. During th tion=FALSE, so informatior	e indicated condi	tion,
		every 3840 (the lease or and send a liaision			C/ 153	SC 153.2.3.3	.2 P88	L 53	# 53
clarifications reg							1.1		
	arding the need			nappen n we do not	Bruckman,	Leon	Huawei		
require it				nappen ii we do not	Bruckman, Comment T		Huawei Comment Status A		bucke
	Respo	onse Status C		nappen ir we do not	Comment T	<i>ype</i> TR t byte of the FA		e value 0x24, wh	buone
Response ACCEPT IN PRI Add a new penu	Respo INCIPLE.	onse Status C	oh of 153.2.3.2.7:		Comment T The las it as 0x	<i>ype</i> TR t byte of the FA 28.	Comment Status A	e value 0x24, wh	buone
Response ACCEPT IN PRI Add a new penu "The lane counte	Respo INCIPLE. Iltmate sentence er 0 position sh	onse Status C	oh of 153.2.3.2.7:	every 3840 (the least	Comment T The las it as 0x Suggestedf	ype TR t byte of the FA 28. Remedy 2 "0010 0100" w	Comment Status A		ile ITU-T G.709 defines
Response ACCEPT IN PRI Add a new penu "The lane counte common multiple	Respo INCIPLE. Iltmate sentence er 0 position sh	onse Status C e in the 1st paragrag	oh of 153.2.3.2.7:		Comment T The las it as 0x Suggestedf Change	ype TR t byte of the FA 28. Remedy 2 "0010 0100" w	Comment Status A S is indicated as carrying th		ile ITU-T G.709 defines
Response ACCEPT IN PRI Add a new penu "The lane counte common multiple C/ 153 SC 15	Respo INCIPLE. Itmate sentence er 0 position sh e of 240 and 25	onse Status C e in the 1st paragrap all be aligned with M i6) frame periods. P 88	oh of 153.2.3.2.7: IFAS = 0 position	every 3840 (the least	Comment T The las it as 0x: Suggestedf Change T G.709	ype TR t byte of the FA 28. Remedy 9 "0010 0100" w	Comment Status A S is indicated as carrying th ith "0010 1000" to make it c		ile ITU-T G.709 defines
Response ACCEPT IN PRI Add a new penu "The lane counte common multiple C/ 153 SC 15 Brown, Matt	Respo INCIPLE. Iltmate sentence er 0 position sh e of 240 and 25 3.2.3.3.1	onse Status C e in the 1st paragrap all be aligned with M i6) frame periods. P 88	oh of 153.2.3.2.7: IFAS = 0 position <i>L</i> 42	every 3840 (the least	Comment T The las it as 0x Suggested Change T G.709 Response ACCEF	ype TR t byte of the FA 28. Remedy 9 "0010 0100" w 9 PT.	Comment Status A S is indicated as carrying th ith "0010 1000" to make it c Response Status C	consistent with the	e OTU4 defined in ITU-
ACCEPT IN PRI Add a new penu "The lane counte common multiple of 153 SC 15 Brown, Matt comment Type E The acronym FA	Respo INCIPLE. Iltmate sentence er 0 position shi e of 240 and 25 3.2.3.3.1 E Com	onse Status C e in the 1st paragrag all be aligned with M 6) frame periods. P88 Huawei Tech ment Status A gnment signal is def	oh of 153.2.3.2.7: IFAS = 0 position <i>L</i> 42 Inologies Canada ined in 1.5 then ag	every 3840 (the least # 1 bucket gain in 153.2.3.2.4.	Comment T The las it as 0x Suggested Change T G.709 Response	ype TR t byte of the FA 28. Remedy 9 "0010 0100" w	Comment Status A S is indicated as carrying th ith "0010 1000" to make it c Response Status C		ile ITU-T G.709 defines
Response ACCEPT IN PRI Add a new penu "The lane counte common multiple C 153 SC 15: Brown, Matt Comment Type E The acronym FA Predominantly F	Response INCIPLE. Iltmate sentence er 0 position sha e of 240 and 25 3.2.3.3.1 E Com AS for frame alig FAS is used the	onse Status C e in the 1st paragrag all be aligned with M 6) frame periods. P88 Huawei Tech ment Status A gnment signal is def	oh of 153.2.3.2.7: IFAS = 0 position <i>L</i> 42 Inologies Canada ined in 1.5 then ag	every 3840 (the least # 1 bucket	Comment T The las it as 0x Suggested Change T G.709 Response ACCEF	ype TR t byte of the FA 28. Remedy * "0010 0100" w PT. SC 153.2.3.4	Comment Status A S is indicated as carrying th ith "0010 1000" to make it c Response Status C	consistent with the	e OTU4 defined in ITU-
Response ACCEPT IN PRI Add a new penu "The lane counte common multiple Cl 153 SC 15 Brown, Matt Comment Type E The acronym FA Predominantly F "frame alignmen	Response INCIPLE. Iltmate sentence er 0 position sha e of 240 and 25 3.2.3.3.1 E Com AS for frame alig FAS is used the	onse Status C e in the 1st paragrag all be aligned with M 6) frame periods. P88 Huawei Tech ment Status A gnment signal is def	oh of 153.2.3.2.7: IFAS = 0 position <i>L</i> 42 Inologies Canada ined in 1.5 then ag	every 3840 (the least # 1 bucket gain in 153.2.3.2.4.	Comment T The las it as 0x: SuggestedF Change T G.709 Response ACCEF Cl 153 Trowbridge Comment T	ype TR t byte of the FA 28. Remedy * "0010 0100" w * "0110 0100" w	Comment Status A S is indicated as carrying th ith "0010 1000" to make it c Response Status C P85	consistent with the	e OTU4 defined in ITU-
Response ACCEPT IN PRI Add a new penu "The lane counte common multiple Cl 153 SC 15: Brown, Matt Comment Type E The acronym FA Predominantly F "frame alignmen SuggestedRemedy	Response INCIPLE. Iltmate sentence er 0 position shi e of 240 and 25 3.2.3.3.1 E Com AS for frame alig FAS is used the it signal".	onse Status C e in the 1st paragrag all be aligned with M 6) frame periods. P88 Huawei Tech ment Status A gnment signal is def reafter but there are	oh of 153.2.3.2.7: IFAS = 0 position <i>L</i> 42 Inologies Canada ined in 1.5 then ag around 19 instand	every 3840 (the least # 1 <i>bucket</i> gain in 153.2.3.2.4. Ses in Clause 153 of	Comment T The las it as 0x: SuggestedF Change T G.709 Response ACCEF Cl 153 Trowbridge Comment T	<i>Type</i> TR t byte of the FA 28. Remedy * "0010 0100" w PT. SC 153.2.3.4 , Steve	Comment Status A S is indicated as carrying th ith "0010 1000" to make it c Response Status C P85 Nokia	consistent with the	e OTU4 defined in ITU-
Response ACCEPT IN PRI Add a new penu "The lane counte common multiple Cl 153 SC 15 Brown, Matt Comment Type E The acronym FA Predominantly F "frame alignmen SuggestedRemedy Change all insta	Response INCIPLE. Iltmate sentence er 0 position shi e of 240 and 25 3.2.3.3.1 E Communication C	onse Status C e in the 1st paragrag all be aligned with M 6) frame periods. P88 Huawei Tech ment Status A gnment signal is def reafter but there are	oh of 153.2.3.2.7: IFAS = 0 position <i>L</i> 42 Inologies Canada ined in 1.5 then ag around 19 instand	every 3840 (the least # 1 bucket gain in 153.2.3.2.4.	Comment T The las it as 0x: SuggestedF Change T G.709 Response ACCEF Cl 153 Trowbridge Comment T	ype TR t byte of the FA 28. Remedy * "0010 0100" w * "0010 1000" w * "0010 0100" w * "0010 0100" w * "0010 0100" w * "0010 0100" w * T. SC 153.2.3.4 , Steve ype E * Wording	Comment Status A S is indicated as carrying th ith "0010 1000" to make it c Response Status C P85 Nokia	consistent with the	e OTU4 defined in ITU-
Response ACCEPT IN PRI Add a new penu "The lane counte common multiple C/ 153 SC 15: Brown, Matt Comment Type E The acronym FA Predominantly F "frame alignmen SuggestedRemedy Change all insta page 84 line 40. Response ACCEPT IN PRI	Response INCIPLE. Intraste sentence er 0 position sh. e of 240 and 25 3.2.3.3.1 E Com AS for frame alig AS is used the it signal". Inces of "frame Response INCIPLE.	onse Status C e in the 1st paragrag all be aligned with M 6) frame periods. P88 Huawei Tech ment Status A gnment signal is def reafter but there are	oh of 153.2.3.2.7: IFAS = 0 position <i>L</i> 42 anologies Canada ined in 1.5 then ag around 19 instand	every 3840 (the least # 1 <i>bucket</i> gain in 153.2.3.2.4. Ses in Clause 153 of	Comment T The las it as 0x: Suggestedf Change T G.705 Response ACCEF CI 153 Trowbridge Comment T Unclear Suggestedf Change differen distribu algorith	ype TR t byte of the FA 28. Remedy * "0010 0100" w * "T. SC 153.2.3.4 , Steve ype E * Wording Remedy * "GMP is a gen ce between the tion algorithm" t	Comment Status A S is indicated as carrying th ith "0010 1000" to make it c Response Status C P85 Nokia Comment Status A eric mechanism that can ac payload and the space in w o "GMP is a generic mecha date an arbitrary signaling ra	consistent with the	trary signaling rate that uses a sigma/delta sigma/delta distribution
Response ACCEPT IN PRI Add a new penu "The lane counte common multiple Cl 153 SC 15: Brown, Matt Comment Type E The acronym FA Predominantly F "frame alignmen SuggestedRemedy Change all insta page 84 line 40. Response ACCEPT IN PRI	Response INCIPLE. Intraste sentence er 0 position sh. e of 240 and 25 3.2.3.3.1 E Com AS for frame alig AS is used the it signal". Inces of "frame Response INCIPLE.	onse Status C e in the 1st paragrap all be aligned with M i6) frame periods. P88 Huawei Tech ment Status A gnment signal is def reafter but there are alignment signal" to onse Status C	oh of 153.2.3.2.7: IFAS = 0 position <i>L</i> 42 anologies Canada ined in 1.5 then ag around 19 instand	every 3840 (the least # 1 <i>bucket</i> gain in 153.2.3.2.4. Ses in Clause 153 of	Comment T The las it as 0x: Suggestedf Change T G.705 Response ACCEF CI 153 Trowbridge Comment T Unclear Suggestedf Change differen distribu algorith	ype TR t byte of the FA 28. Remedy 9 "0010 0100" w 9 T. SC 153.2.3.4 , Steve ype E Wording Remedy 9 "GMP is a gen ce between the tion algorithm" t m to accommod	Comment Status A S is indicated as carrying th ith "0010 1000" to make it c Response Status C P85 Nokia Comment Status A eric mechanism that can ac payload and the space in w o "GMP is a generic mecha date an arbitrary signaling ra	consistent with the	trary signaling rate that uses a sigma/delta sigma/delta distribution

C/ 153 SC 153.2.3.4

C/ 153 SC 153.2.4.1.1	P 90	L15	# 67	C/ 153	SC 153.2.4.1.1	P 90	L 18	# 54
Bruckman, Leon	Huawei			Bruckmar	n, Leon	Huawei		

Comment Type **T** Comment Status R

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

SuggestedRemedy

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

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

Response

Response Status C

REJECT.

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

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

0/ 100	00	100.2.4.1.1		/ 50	,	210	π	- 34	
Bruckma	n, Leon			Huaw	ei				
~		_	~		_				

Comment Type Comment Status R т

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

SugaestedRemedv

Remove requirement to verify the 240 counter from the fas valid variable. Add a definition for lane ID alignment/alignment loss similar to the one found in ITU-T G.798 section 8.2.6.2: "A new value of the logical lane marker is accepted when in five consecutive 16320-byte periods the same value is present after modulo 20 operation of the

LLM byte value, and the recovery process will enter the in-recovery (IR) state. In the IR state, recovery will be lost and the out-of-recovery (OOR) state be entered, when in each of five consecutive 16320 byte periods a value is received that is not the same as the accepted logical lane marker value. During an OOR period, the last accepted LLM value has to be maintained as lane marker value."

Response Response Status C

REJECT

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

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

C/ 153	SC 153.2.4.1.1	P 90	L 32	# 64
Bruckmar	n. Leon	Huawei		

Comment Type T Comment Status R

Where is the fec alignment valid variable set? It does not show up in the state machines.

SuggestedRemedy

Add setting of fec alignment valid to Figure 153-8, FALSE in LOSS OF ALIGNMENT state and TRUE in ALIGN ACQUIRED state

Response Status C

Response

REJECT.

The state diagram is a per-lane process. This variable is set by nature of its definition: "Boolean variable that is set to true if all FEC lanes are aligned". So after all twenty FEC lanes are aligned, this variable becomes true. This is the same

approach as other clauses (e.g., 82, 91)

Cl	153
SC	153.2.4.1.1

C/ 153	SC	153.2.4.1.1	P 90	L 34	# 65		C/ 153
Bruckmar	n, Leon		Huawei				Bruckman,
Comment	Туре	Е	Comment Status A			bucket	Comment T
		lifference be d on each Fl	tween: "fas_lock <x> is tru EC lane" ?</x>	e for all x" and "fra	ame alignment	has	The alig similar I
Suggeste	dReme	dy					SuggestedR
Remo	ve: "fra	me alignmer	nt has been acquired on e	ach FEC lane"			Replace
Response ACCE			Response Status C				valid fra compari octets m first fec
C/ 153	SC	153.2.4.1.1	P 90	L 37	# <u>7</u> 0		6th octe
Bruckmar	n, Leon		Huawei				20. Othe
Comment	Туре	т	Comment Status R				With: "T
first_f FEC_	ecl, and lane_m	l it is only us apping <x> №</x>	ble required ? It will alway ed in the 2_GOOD state t IDIO indication.			S	valid fra compari octets m is false.'
Suggeste			able and replace fee land	with first fast in		-+-	Response
Response		—	able and replace fec_lane <i>Response Status</i> C			ale.	REJEC ⁻ The refe
the va	in prino ariables	defined for t	ht have been done with fe he same purpose in claus mpared while acquiring loo	e 91. You have a	first_fecl and		process later for number acquirin

the MDIO-mapped FEC lane mapping<x>) are set on the fas match transition out of

COMP 2ND.

C/ 153	SC 153.2.4.2	P 91	L 14	# 6	68
Bruckn	nan, Leon	Huawei			
_					

Comment Type **T** Comment Status R

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

SuggestedRemedy

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

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

Response Status C

REJECT.

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

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

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

C/ 153 SC 153.2.4.2

faces, it is enough to to rue for first_fecI and cu and fifth octets match th C e alignment process ori dary process to identify n the first place.	ne known bits of the ginally designed for the lane number that is it is described more in in one step.	SuggestedRemedy Define "fas_statu Response ACCEPT IN PRII Change "fas_stat Cl 153 SC 153 Bruckman, Leon Comment Type T Undefined variab SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	Comment ole in Figure 153-8: us" Response NCIPLE. tus" to "fas_align_s 3.2.4.4 Comment ole in Figure 153-8: valid". Boolean variable tha	Status C tatus" P93 Huawei t Status R "all_fas_valid"	L3 L6	# <u>60</u>
R Ind current_fecl ? It is ended faces, it is enough to the faces, it is enough to the first_fecl and current fifth octets match the C e alignment process to identify any process to identify the first place. are multi-lane interface, particular lane occurs any the possible use of any the possib	est a fixed subset of FAS rrrent_fecl," he known bits of the ginally designed for the lane number that is it is described more in in one step. a two stage frame	Comment Type T Undefined variab SuggestedRemedy Define "fas_statu Response ACCEPT IN PRII Change "fas_stat Cl 153 SC 153 Bruckman, Leon Comment Type T Undefined variab SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	ble in Figure 153-8: US" Response NCIPLE. Itus" to "fas_align_s 3.2.4.4 Comment ble in Figure 153-8: valid". Boolean variable tha	t Status A "fas_status" Status C tatus" P93 Huawei t Status R "all_fas_valid"		
ind current_fecl ? It is a faces, it is enough to the rue for first_fecl and cu and fifth octets match the C e alignment process or dary process to identify a rmulti-lane interface, particular lane occurs ing the possible use of a 2 2 13	est a fixed subset of FAS rrrent_fecl," he known bits of the ginally designed for the lane number that is it is described more in in one step. a two stage frame	Undefined variab SuggestedRemedy Define "fas_statu Response ACCEPT IN PRII Change "fas_statu CI 153 SC 153 Bruckman, Leon Comment Type T Undefined variab SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	ble in Figure 153-8: US" Response NCIPLE. Itus" to "fas_align_s 3.2.4.4 Comment ble in Figure 153-8: valid". Boolean variable tha	"fas_status" <i>Status</i> C tatus" <i>P</i> 93 Huawei <i>t Status</i> R "all_fas_valid"		
faces, it is enough to the rue for first_fecI and cu and fifth octets match the C e alignment process or dary process to identify a the first place. The first place interface, particular lane occurs ing the possible use of a 2 2 2 13	est a fixed subset of FAS rrrent_fecl," he known bits of the ginally designed for the lane number that is it is described more in in one step. a two stage frame	SuggestedRemedy Define "fas_statu Response ACCEPT IN PRII Change "fas_stat Cl 153 SC 153 Bruckman, Leon Comment Type T Undefined variab SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	Response NCIPLE. Itus" to "fas_align_s 3.2.4.4 Comment ole in Figure 153-8: valid". Boolean variable tha	Status C tatus" P93 Huawei t Status R "all_fas_valid"		
the for first_fecI and cu and fifth octets match th C e alignment process orion dary process to identify atry process to identify in the first place. ar multi-lane interface, particular lane occurs ing the possible use of a 2 2 2 13	rrent_fecl," ne known bits of the ginally designed for the lane number that is it is described more in in one step. a two stage frame	Define "fas_statu Response ACCEPT IN PRII Change "fas_statu CI 153 SC 153 Bruckman, Leon Comment Type T Undefined variab SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	Response NCIPLE. tus" to "fas_align_s 3.2.4.4 Comment ole in Figure 153-8: valid". Boolean variable tha	tatus" P 93 Huawei t <i>Status</i> R "all_fas_valid"		
and fifth octets match the C e alignment process ori- dary process to identify a the first place. lar multi-lane interface, particular lane occurs ing the possible use of a 2 L13	he known bits of the ginally designed for the lane number that is it is described more in in one step. a two stage frame	ACCEPT IN PRI Change "fas_stat Cl 153 SC 153 Bruckman, Leon Comment Type T Undefined variab SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	NCIPLE. tus" to "fas_align_s 3.2.4.4 Comment ble in Figure 153-8: valid". Boolean variable tha	tatus" P 93 Huawei t <i>Status</i> R "all_fas_valid"		
and fifth octets match the C e alignment process ori- dary process to identify a the first place. lar multi-lane interface, particular lane occurs ing the possible use of a 2 L13	he known bits of the ginally designed for the lane number that is it is described more in in one step. a two stage frame	Change "fas_stat Cl 153 SC 153 Bruckman, Leon Comment Type T Undefined variab SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	a.e. to "fas_align_s 3.2.4.4 Comment ole in Figure 153-8: valid". Boolean variable tha	P 93 Huawei t <i>Status</i> R "all_fas_valid"		
C alignment process ori dary process to identify the first place. ar multi-lane interface, particular lane occurs ing the possible use of a 2 L13	ginally designed for / the lane number that is it is described more in in one step. a two stage frame	Cl 153 SC 153 Bruckman, Leon Comment Type T Undefined variab SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	3.2.4.4 Comment ole in Figure 153-8: valid". Boolean variable tha	P 93 Huawei t <i>Status</i> R "all_fas_valid"		
e alignment process ori dary process to identify n the first place. lar multi-lane interface, particular lane occurs ng the possible use of a 2 L13	r the lane number that is it is described more in in one step. a two stage frame	Comment Type T Undefined variab SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	ole in Figure 153-8: /alid". 3oolean variable tha	t Status R "all_fas_valid"	all FEC lanes a	
e alignment process ori dary process to identify n the first place. lar multi-lane interface, particular lane occurs ng the possible use of a 2 L13	r the lane number that is it is described more in in one step. a two stage frame	Undefined variab SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	ole in Figure 153-8: /alid". 3oolean variable tha	"all_fas_valid"	all FEC lanes a	re aligned FEC lanes
dary process to identify in the first place. lar multi-lane interface, particular lane occurs ing the possible use of a 2 L13	r the lane number that is it is described more in in one step. a two stage frame	SuggestedRemedy Define "all_fas_v My suggestion: B are considered to	valid". 3oolean variable tha		all FEC lanes al	re aligned FEC lanes
n the first place. lar multi-lane interface, particular lane occurs ng the possible use of a 2 L13	it is described more in in one step. a two stage frame	Define "all_fas_v My suggestion: B are considered to	Boolean variable tha	at is set to true if	all FEC lanes al	re aligned FEC lanes
ar multi-lane interface, particular lane occurs ing the possible use of a 2 L13	in one step. a two stage frame	— — My suggestion: B are considered to	Boolean variable tha	at is set to true if	all FEC lanes a	re aligned EEC lanes
ng the possible use of a	a two stage frame	are considered to		at is set to true if	all FEC lanes a	re aligned EEC lanes
2 <i>L</i> 13	U U	are considered to			all FEC laties al	
	# 69	acquired on each	o be aligned when f	as lock <x> is tru</x>	e for all x, frame	e alignment has been
vei		variable is set to		ch FEC lane has	a unique lane n	number. Otherwise, this
		Response	Response	Status C		
A		REJECT. The variable "fas	s_align_status" alrea	ady has this mea	ning.	
		C/ 153 SC 153	3.2.5.1	P 93	L 34	# 55
AS_COMPARE state		Bruckman, Leon		Huawei		
С		Comment Type E	Comment	t Status A		bucket
		Spare line				
—	0	SuggestedRemedy Remove the spar	re line			
		Response	Response	Status C		
	C S_COMPARE state. (-	AS_COMPARE state Bruckman, Leon C Comment Type E Spare line AS_COMPARE state. Change the exit _match" and "!fas_match" rather than Remove the spa	AS_COMPARE state Bruckman, Leon C Comment Type E Comment Spare line SS_COMPARE state. Change the exit _match" and "!fas_match" rather than Remove the spare line Response Response	AS_COMPARE state Bruckman, Leon Huawei C Comment Type E Comment Status A Spare line SuggestedRemedy Remove the spare line Response Response Status C	AS_COMPARE state Bruckman, Leon Huawei C Comment Type E Comment Status A Spare line SuggestedRemedy Remove the spare line Response Response Status C

SORT ORDER: Clause, Subclause, page, line

19 AM

C/ 153	SC 153.3.2.1	P 95	L 20	# 37	C/ 153	SC 153.3.2	.2.1	P 95	L 38	# 56
Brown, Matt		Huawei Techr	ologies Canada		Bruckmar	n, Leon		Huawei		
SuggestedRe	53-9 is the 1000 emedy	Comment Status A GBASE-ZR PMA. to "100GBASE-ZR".		bucket	24.88 Refer	ough section 15 32 GBd. Then ir	53 the rates a n section 154	we start using th		bucker e.g. (255/227) × alue 27.9525 GBd. linking the exact and
Response ACCEPT		Response Status C						xt as follows: "a	a signaling rate of	(255/227) × 24.8832
C/ 153	SC 153.3.2.2.	1 P95	L 38	# 115	Response)	Respons	e Status C		
Nicholl, Gary		Cisco System	s		ACCE	EPT.				
	manner operate	Comment Status A es at a signaling rate of (255,	(227) × 24.8832	<i>bucket</i> Gb/s ±20 ppm"	C/ 153 Brown, M	SC 153.3.2.	2.2	P 95 Huawei Tech	L 44 nnologies Canada	# 38
	-	math and including the aggro	ate signalling ra	te (as was done in	Comment	Туре Е		nt Status A	thin each Clause.	bucker
to:		27) × 24.8832 Gb/s ±20 ppm 27) × 24.8832 Gb/s ±20 ppm		5)		ge start of sente		shift keying (DQ	PSK) encode ."	
Also in se to using "	ection 153.3.1 ('Gb/s". Sugges	(page 94, line 49) we use "G t being consistent throughton bit streams" I would recomm	` Bd" , whereas in ut the clause. Giv	this section we switch ven that the earlier	Response ACCE		Respons	e Status C		
	IN PRINCIPLE									

In the final paragraph on page 94, replace GBd with Gb/s (2 occurrences).

C/ 153 SC 153.3.2.2.2

C/ 153 S	SC 153.3.2.2.2	P 95	L 51	# 116	C/ 154	SC 154.1	P 100	L 8	# 7
Nicholl, Gary		Cisco Syst	ems		Brown, Ma	att	Huawei Techr	nologies Canad	a
Comment Typ "The sigr ppm."		Comment Status A ach stream of DQPSK s	ymbols is (255/227)	<i>bucket</i> × 24.8832 GBd ±20		ot clear why "bla	Comment Status A ck link" deserves quotes and o s used throughout this clause		
SuggestedRer	medy				Suggested	Remedy			
section 15 change: "signaling	53.3.1), so	nath and including the ag		·	Two in page 2	ve quotes from istances: 100, line 8 106, line 46	"black link".		
to: "signaling (~ 27.952		stream of DQPSK symb	ools is (255/227) × 2	24.8832 GBd ±20 ppm	Response ACCE		Response Status C		
Note, sinc time	e we are referi	ng to QPSK symbols he	re, GBd is the corre	ct termiology thisa	<i>Cl</i> 154 Brown, Ma	SC 154.1	P 100 Huawei Tech	L 8 nologies Canad	# <u>9</u>
Response		Response Status C			Comment		Comment Status A	loregioo canaa	-
ACCEPT.							erm "(see xxx)" for cases when		
Brown, Matt	SC 153.3.2.3 .1	Huawei Te	L 25 chnologies Canada	# 39	neces	sary. I would arg uctory sentence	in this sentence point to the sa gue that the references are not and its implicit that everything	t necessary at a	all since this is an
rather than	ence should en n phrases. Hov appropriate.	Comment Status A d with a period not a com vever, since this is defini			1. Ren 2. Cha	e of the followin nove both refere ange "defined in	g: ences. (preferred) " and "also defined in" to "see" ference and in the second cha		od io" to "coo"
00		entences to a lettered lis	t.		Response		Response Status C	inge also denn	
Response		Response Status C			•	PT IN PRINCIP	,		

ACCEPT IN PRINCIPLE.

It isn't 3 steps, but two, with a 3rd sentence clarifying how the second step is carried out. Implement the suggested remedy with editorial license. Implement remedy option 3.

C/ 154 SC 154.1

C/ 154	SC 154.1	P 100	L 8	# 8	C/ 154	SC 154.1	P 101	L 23	# 41
Brown, Mat	t	Huawei Tech	nologies Canada		Brown, Mat	tt	Huawei Tech	nologies Canad	а
Comment T	ype T	Comment Status A			Comment 7	Гуре Е	Comment Status A		
clauses	s (e.g., 400GBA	an important element throug SE-ZR PMD) and therefore a	a definition should		In Figu from le	,	egend list should be in alphanu	Imeric order. Al	so, SC-FEC is missing
that the	e term "black link	" is never succinctly defined	l in this Clause.		Suggestedl	Remedy			
S <i>uggestedI</i> Add de [:]	R <i>emedy</i> finition for "blacł	k link" to 1.4.				RS-FEC to afte C-FEC after RS			
Response		Response Status C			Response		Response Status C		
ACCEF	PT IN PRINCIPL	E.				PT IN PRINCIP	LE. imilar to in-force clauses, for in	nstance 140.	
Propos	the transfer ch	IBD. is a link where only the char aracteristics are specified, w P 100			by "SC-FE	EC = REED-SC	DLOMON FORWARD ERROR	CORRECTION	"
Brown, Mat	t	Huawei Tech	nologies Canada		C/ 154	SC 154.1	P101	L 23	# 11
Comment T		Comment Status A	ineregiee edinada		Brown, Mat	tt	Huawei Tech	nologies Canad	а
		ing of DP-DQPSK the hyphe	en is in the wrong r	place (see 1.5). Also	Comment 7	Гуре Е	Comment Status A		
	use in clause the	e spelled out version should				oottom of Figur missing from o	e 154-1, the order of definitior definitior	is should be alp	hanumeric. Also, SC-
Suggested	Remedy				Suggestedl	Remedy			
Change DP-DQ		ization - differential quadratu	ure phase shift key	ying) format		RS-FEC to afte C-FEC after RS	= .		
to:					Response		Response Status C		
•	olarization differ	ential quadrature phase shif	t keying (DP-DQP	'SK)"	ACCEF	PT IN PRINCIP	LE.		
Response		Response Status C			See res	solution to com	ment #41.		
ACCEF	T IN PRINCIPL	E. ation differential quadrature							

C/ 154 SC 154.1

C/ 154	SC 154.1	P101	L 26	# 10	C/ 154	SC 154.2.	P 102	L 25	# 43
Brown, Matt		Huawei Techn	ologies Canada		Brown, M	att	Huawei Te	chnologies Canada	
Comment Ty	pe E Co	mment Status A			Comment	Туре Т	Comment Status A		
	t this might be consid ium for ZR is not SM	dered technical. IF but rather a more cor	nnley "hlack link"		The p	arameter "rx_syn	nbol" is never defined in th	is Clause.	
SuggestedRe			inplex black link		Suggestee	•			
In Figure					Define	e "rx_symbol".			
Change '		IGLE MODE FIBER" LINK" or similar			Response ACCE	EPT IN PRINCIPL	Response Status C .E.		
lesponse	Res	sponse Status C			Usan	of "rx_symbol" i	s consistent with similar in	-force clauses, for i	nstance 121 therefore
	IN PRINCIPLE.				no de	finition is necessa	ary in clause 154.		
		= PMD FOR SINGLE M CHANNEL OVER A BL			Furth	ormoro in 151 5 3	change the two instances	of	
				"		SK symbol stream	change the two instances ms"	5 01	
154	SC 154.1	P101	L 26	# 42	to				
rown, Matt			ologies Canada		DQP	SK rx_symbol str	eams		
omment Ty		mment Status A	D for 90 km SM	The introduction			change the two instances	of	
		st note says ZR is a PM Insmission across a bla			"DQP to	SK symbol strear	ns"		
, uggestedRe	emedv					SK tx_symbol str	eams"		
00		MODE FIBER 80 km"			C/ 154	SC 154.3.2	P 102	L 50	# 44
to					Brown, M			echnologies Canada	
or	BLACK LINK"				Comment		Comment Status A	onnoiogioo ounuuu	Bucket
"PMD for or similar	DWDM BLACK LIN	К"				51	in prescribed format (not	red italic text).	Zucher
esponse	Res	sponse Status C			Suggestee				
	IN PRINCIPLE.	10			Single		sing proper format. itor's note" table format. se 154		
/ 154	SC 154.2	P102	L 26	# 84	Response	•	Response Status C		
chmitt, Mat	t	CableLabs			ACCE	PT IN PRINCIPL	.E.		
omment Ty	pe E Co	mment Status R		Bucket	Execu	ite modification ir	n proposed remedy with ec	litorial license.	
The font around it		ast paragraph in 154.2	does not seem to	match the text					
uggestedRe	emedy								
Adjust fo	nt and/or font size as	s necessary to match su	irrounding text.						
esponse	Res	sponse Status C							
REJECT Standard	I font size for a NOTI	E							
OMMENT S		ed A/accepted R/rejec		T/technical E/editorial G/g SE STATUS: O/open W/wi		d Z/withdrawn		154 154.3.2	Page 18 of 24 1/22/2020 2:45:´

19 AM

C/ 154 SC 18	54.3.2	P 102	L 51	# 81	C/ 154	SC 154.5.3	P	04	L 46	# 12
D'Ambrosia, John		Futurewei, U.	S. Subsidiary of H	luawei	Brown, Ma	att	Huav	wei Technolog	gies Canada	
Comment Type	E Comm	ent Status A		Bucket	Comment	Туре т	Comment Status	A		
the following tex editor's note.	xt "Additional infor	mation on skew va	riation to be adde	d." appears to be an			DQPSK symbol stre ulated by the transmi			ach of two "orthogonal ext in 154.2 supports
SuggestedRemedy										
change noted s	tatement to an ed	itor's note.			Suggested	2				
Response ACCEPT IN PF See resolution t		se Status C				MD Receive fun	nction shall convert th symbol streams for d		optical signal	received from the
		D 400	1.10	" [00]	The PI		nction shall convert th			
C/ 154 SC 18 D'Ambrosia, John	54.3.2	P 103 Futurewei, U.3	L 10 S. Subsidiary of H	# 82 luawei		nto two DQPSK ry." or similar	symbol streams, ead	h from one of	f two orthogo	nal polarizations, for
Comment Type	ER Comm	ent Status A			Response		Response Status	С		
"89.7.2 needs t Clause 89 is ab SuggestedRemedy delete noted co Response	o be updated for n out 40GBASE-FR mment <i>Respon</i>	n scope for 802.3ct. nulti-lane implemer 2 - which is not in so se Status C	ntations"		The po origina specia Add no	Il 2 polarizations I task of the rec ote clarifying tha	LE. e incoming optical cor s transmitted and the eiver DSP) has to ref at the original polariza ver the fiber with edite	efore it is the rieve the origi tions may hav	task of the re inal transmitt	eceiver (with the ed symbol streams.
ACCEPT IN PR	RINCIPLE.				C/ 154	SC 154.5.3	P	04	L 51	# 45
Include an edito	or's note stating th	at the requirements			Brown, Ma			vei Technolog		
	ditorial license) to ncoming polarizat		e fact that there a	re 2 logical streams	Comment		Comment Status		gioo ounada	Bucke
C/ 154 SC 1	0.1	P104	L 41	# 57	Each [DQPSK stream	carries 50 Gb/s not 1 ferring to the DQPSK	00 Gb/s. Sinc		rring to a phase
Bruckman, Leon		Huawei			Suggestea	IRemedy				
Comment Type	E Comm	ent Status A		Bucket	Chang	e "DQPSK 100	Gb/s signal" to "DQF	SK 50 Gb/s s	signal".	
		154-4 contains the eads: "Table 154-4		he following section ng."	Response		Response Status	с		
SuggestedRemedy						PT IN PRINCIP 100 Gb/s"	LE.			
Make the two s	entences consiste	ent by using either "	contains" or "show	vs" in both sentences.	Delete					
Response ACCEPT IN PF	RINCIPLE.	se Status C								

Implement proposed remedy with editorial license.

TYPE: TR/technical required ER/editorial required GR/genera	al 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: Clause, Subclause, page, line	

C/ 154 SC 154.5.3

	SC 154.5.4	P105	L 16	# 58	C/ 154	SC 154.5.4	P 105	L35	# 59
Bruckman,	Leon	Huawei			Bruckman	, Leon	Huawei		
Comment T	Type TR Co	omment Status A			Comment	Type E	Comment Status A		Bucket
		a global indicator of the			Unnec	essary word "fo	r"		
		IAL_DETECT paramete 54-5. The PMD receive	0	0	Suggested	Remedy			
	ant 100GBASE-R sigr		r lo not roquilou (to volity whomer a	Remov	e the unneces	ary "for"		
The rea	nuirement is to verify t	that there is an optical s	ianal on both lan	es but Table 151-1	Response		Response Status C		
points t		fines the average input			ACCE				
SuggestedF	Remedy				C/ 154	SC 154.6	P 106	L 41	# 85
	-	required to be monitore	d per lane (per p	olarization), then	Schmitt, M	latt	CableLabs		
define it	t that way in Table 15	4-9			Comment	Туре Е	Comment Status A		Bucket
		IAL_DETECT definition nce of optical signals." a			single	optical frequend	f 154.6, there is the followin cy (often also referred to as e same and interchangeab	wavelength)". Th	is implies that frequency
Response	Re	sponse Status C			distinc	tly different. Th	erefore, the statement is ar	guably misleading	/incorrect.
ACCEP	PT IN PRINCIPLE.				Suggested	Remedy			
	ring the composite sig otion of the optical sig	nal allows the indicatior	n of the type of fa	ault at TP3 to identify			the sentence to read as foll referred to by it's associated		
interrup					Response		Response Status C		
	e in 154.5.4 the sugge ditorial license.	estion that each incomir	ng polarization is	monitored separately.		PT IN PRINCIP nent the sugges	LE. sted remedy with editorial lic	ense.	
C/ 154	SC 154.5.4	P105	L 22	# 94	C/ 154	SC 154.6	P107	L 27	# 83
Maniloff, Er	ric	Ciena			D'Ambrosi	a, John	Futurewei,	U.S. Subsidiary of	f Huawei
					Comment	Туре Е	Comment Clature		Duration
Comment T	<i>71</i>	omment Status A			Comment	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Comment Status A		Bucket
Comment T Definitio	on of "Both Lanes" is	omment Status A ambiguous. The lanes t	being referred to	here should be			re in Fig 154-3 that does no	t appear to belong	
Comment T Definitio defined	on of "Both Lanes" is I.		being referred to	here should be		is a black squar		t appear to belong	
Comment T Definitio defined SuggestedF	on of "Both Lanes" is I. <i>Remedy</i>	ambiguous. The lanes b	U U		There Suggested	is a black squar	e in Fig 154-3 that does no	t appear to belong	
Comment T Definitio defined SuggestedF Change	on of "Both Lanes" is I. Remedy e wording to somethin	ambiguous. The lanes b ng along the lines of "on	U U		There Suggested	is a black squai Remedy	e in Fig 154-3 that does no	t appear to belong	
Comment T Definitio defined SuggestedF Change Response	on of "Both Lanes" is I. Remedy e wording to somethin <i>Re</i> .	ambiguous. The lanes b	U U		There Suggested delete	is a black squar <i>Remedy</i> noted black squ	re in Fig 154-3 that does no Jare	t appear to belong	
Comment T Definitio defined SuggestedF Change Response ACCEP	on of "Both Lanes" is I. Remedy e wording to somethin <i>Re</i> . PT IN PRINCIPLE.	ambiguous. The lanes b ng along the lines of "on sponse Status C	U U		There Suggested delete Response	is a black squar <i>Remedy</i> noted black squ	re in Fig 154-3 that does no Jare	t appear to belong	
Comment T Definitio defined SuggestedF Change Response ACCEP	on of "Both Lanes" is I. Remedy e wording to somethin <i>Re</i> .	ambiguous. The lanes b ng along the lines of "on sponse Status C	U U		There Suggested delete Response	is a black squar <i>Remedy</i> noted black squ	re in Fig 154-3 that does no Jare	t appear to belong	
Comment T Definitio defined SuggestedF Change Response ACCEP	on of "Both Lanes" is I. Remedy e wording to somethin <i>Re</i> . PT IN PRINCIPLE.	ambiguous. The lanes b ng along the lines of "on sponse Status C	U U		There Suggested delete Response	is a black squar <i>Remedy</i> noted black squ	re in Fig 154-3 that does no Jare	t appear to belong	
Comment T Definitio defined SuggestedF Change Response ACCEP	on of "Both Lanes" is I. Remedy e wording to somethin <i>Re</i> . PT IN PRINCIPLE.	ambiguous. The lanes b ng along the lines of "on sponse Status C	U U		There Suggested delete Response	is a black squar <i>Remedy</i> noted black squ	re in Fig 154-3 that does no Jare	t appear to belong	
Comment T Definitio defined SuggestedF Change Response ACCEP	on of "Both Lanes" is I. Remedy e wording to somethin <i>Re</i> . PT IN PRINCIPLE.	ambiguous. The lanes b ng along the lines of "on sponse Status C	U U		There Suggested delete Response	is a black squar <i>Remedy</i> noted black squ	re in Fig 154-3 that does no Jare	t appear to belong	
Comment T Definitio defined SuggestedF Change Response ACCEP	on of "Both Lanes" is I. Remedy e wording to somethin <i>Re</i> . PT IN PRINCIPLE.	ambiguous. The lanes b ng along the lines of "on sponse Status C	U U		There Suggested delete Response	is a black squar <i>Remedy</i> noted black squ	re in Fig 154-3 that does no Jare	t appear to belong	
Comment T Definitio defined SuggestedF Change Response ACCEP	on of "Both Lanes" is I. Remedy e wording to somethin <i>Re</i> . PT IN PRINCIPLE.	ambiguous. The lanes b ng along the lines of "on sponse Status C	U U		There Suggested delete Response	is a black squar <i>Remedy</i> noted black squ	re in Fig 154-3 that does no Jare	t appear to belong	
Comment T Definitio defined SuggestedF Change Response ACCEP See res	on of "Both Lanes" is Remedy e wording to somethin <i>Re.</i> PT IN PRINCIPLE. solution to comment #	ambiguous. The lanes to ag along the lines of "on <i>sponse Status</i> C #58 R/editorial required GR/g	each polarizatior		There Suggested delete Response ACCE	is a black squar <i>Remedy</i> noted black squ PT.	re in Fig 154-3 that does no uare <i>Response Status</i> C	t appear to belong	

SORT ORDER: Clause, Subclause, page, line

C/ 154	SC 154.6	P 107	L 34	# 95	C/ 154	SC 154.7.1	P 109	L 37	# 86	
Maniloff, I	Eric	Ciena			Schmitt, M	latt	CableLabs			
Comment	Type E	Comment Status A			Comment	Туре Т	Comment Status A			
The a	mplified case is th	does not support the full 80ki ne primary application, and th	he only application			le 154-8, there is resolved.	s a TBD for "Skew between th	e two polarizatio	ons (max)" that need	
		noted in the Black Link des	cription.		Suggested	lRemedy				
	dRemedy						D" to "10" [ps] to align with ITU			
based	I on the Tx power	pplication is amplified, as the and Rx power specs, along		se will not reach 80km	John DeAndrea at the November plenary (deandrea_3ct_01) shows data to support the more stringent 6 ps requirement in the CableLabs PHYv1.0 spec; however, barring evidence that a relaxation to 10 ps is harmful, I propose adopting the ITU requirement.					
Response		Response Status C					this at the interim in January.	bee deepling an		
	EPT IN PRINCIPL e 154.6 is intende	E. ed to clarify how a black link [·]	works.		Response		Response Status C			
		5			ACCE	PT.				
		e following note to Tables 15			C/ 154	SC 154.7.1	P 109	L 43	# 87	
		necessary to support amplificed to allow operation on una		up to at least 80 km of	Schmitt, M	latt	CableLabs			
For th	e following param	neters:			Comment	Туре Т	Comment Status A			
Minim	mitter OSNR(193) um average input	t power [unamplified]			In Table 154-8, there is a TBD for "Average launch power of OFF transmitter, each lane (max)" that needs to be resolved.					
Minim	um OSNR(193.6)	[unamplified]			Suggested	Remedy				
	lso resolution to c				Propose changing "TBD" to "-35" [dBm] to align with other industry groups, as proposed the contribution from John DeAndrea at the November plenary (deadrea 3ct 01).					
Add c	arifying text to the	e beginning of 154.7 with ed	itorial license.		Response		Response Status C			
C/ 154	SC 154.7.1	P 109	L 25	# <u>1</u> 00	ACCE	PT IN PRINCIPI	.E.			
Zhang, Bo)	Inphi				nent proposed re so resolution to	emedy, but remove "each lane			
Comment	Type TR	Comment Status R					comment #00.			
		acteristics spec table, sugge	est separate the a	average channel output	C/ 154	SC 154.7.1	P 109	L 43	# <u>9</u> 6	
•	·	unamplified cases.			Maniloff, E	Fric	Ciena			
	dRemedy				Comment		Comment Status D			
	ge channel output plified] (min): -8d	t power [amplified] (min): -10 Bm @193 6THz)dBm. Average c	hannel output power	The T	x power being re	ferred to here is for Tx disable	d.		
Response		Response Status C			Suggested	•				
		Response Status C			Chang	e Description te	xt to "disabled transmitter".			
•		er optical power ranges shou	uld support both a	amplified and	Proposed REJE		Response Status Z			
REJE The s unam	plified cases.									
REJE The s unam		omment #95				omment was WI	THDRAWN by the commente	r.		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 154
 Page 21 of 24

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
 SC
 154
 1/22/2020 2:45:19 AM

 SORT ORDER: Clause, Subclause, page, line
 SC
 154
 1/22/2020 2:45:19 AM

C/ 154 SC	C 154.7.1	P 109	L 44	# 88	C/ 154	SC 154.7.1	1 P109	L 46	# 101
Schmitt, Matt		CableLabs			Zhang, Bo)	Inphi		
Comment Type	T Co	omment Status A			Comment	Type TR	Comment Status A		
In Table 154 resolved.	i4-8, there is a TB	3D for "Optical return loss	s tolerance (ma	x)" that needs to be	(http://		lue instead of TBD. In line wi org/3/ct/public/tf_interim/19_		
uggestedReme	nedy								
that the calc	culation of this fig	"25" [dB] to align to Cabl gure shall be done in the	ITU manner (w	hich is the inverse of	Suggested -20dB'	-			
slightly relax reflectance	ixed relative to the by myself and At	spec, hence the CableLa e ITU requirement, and b tul S. from NEL America	based on the pro at the call in De	esentation on ecember, this should	Response ACCE	PT IN PRINCI	Response Status C PLE.		
have minima January inte		formance. Will prepare a	a presentation t	hat includes this for the	See re	esponse to con	nment #89.		
Response	Re	esponse Status C			C/ 154	SC 154.7.2	2 P110	L 28	# 90
ACCEPT IN	N PRINCIPLE.				Schmitt, M	latt	CableLabs	i	
Assign a val		oth the transmitter optica	al return loss to	lerance and the black	Comment		Comment Status A	- t	
link minimur	im optical return i	OSS.			In Tab	le 154-9, there	e is a TBD for "Receiver refle	ctance (max)" that	needs to be resolved
	C 154.7.1	oss. P 109	L 46	# 89	In Tab Suggested		e is a TBD for "Receiver refle	ctance (max)" that	needs to be resolved
	•		L 46	# 89	Suggested Propos	IRemedy se changing "T	「BD" to "20" [dB] to align with	n CableLabs and C	DIF specifications, as
C/ 154 SC Schmitt, Matt	C 154.7.1	P 109	L 46	# 89	Suggested Propos was pr	Remedy se changing "T oposed in the	FBD" to "20" [dB] to align with presentation from myself an	n CableLabs and C d Atul S. from NEL	DIF specifications, as _ America at the call ir
i 154 SC Schmitt, Matt Scomment Type	C 154.7.1 T C	P 109 CableLabs omment Status A		# 89	Suggested Propos was pr	Remedy se changing "T oposed in the nber. Will prep	「BD" to "20" [dB] to align with	n CableLabs and C d Atul S. from NEL	DIF specifications, as _ America at the call ir
C/ 154 SC Schmitt, Matt Comment Type In Table 154	C 154.7.1 T Co i4-8, there is a TE	P 109 CableLabs omment Status A			Suggested Propos was pr Decem	IRemedy se changing "T oposed in the nber. Will prep n.	IBD" to "20" [dB] to align with presentation from myself an pare a presentation that inclu	n CableLabs and C d Atul S. from NEL	DIF specifications, as _ America at the call ir
Cl 154 SC Schmitt, Matt Comment Type In Table 154 SuggestedReme Propose cha	C 154.7.1 T Co 4-8, there is a TE <i>bedy</i> hanging "TBD" to	P109 CableLabs omment Status A 3D for "Transmitter reflec "20" [dB] to align with Ca	stance (max)" th	nat needs to be resolved.	Suggested Propos was pr Decerr interim Response	IRemedy se changing "T oposed in the nber. Will prep n.	FBD" to "20" [dB] to align with presentation from myself an pare a presentation that inclu <i>Response Status</i> C	n CableLabs and C d Atul S. from NEL	DIF specifications, as _ America at the call ir
C 154 SC Schmitt, Matt Comment Type In Table 154 SuggestedReme Propose cha was propose	C 154.7.1 T Ca 4-8, there is a TE nedy nanging "TBD" to sed in the present	P 109 CableLabs omment Status A 3D for "Transmitter reflec	stance (max)" th ableLabs and O tul S. from NEL	nat needs to be resolved. IF specifications, as America at the call in	Suggested Propos was pr Decerr interim Response ACCE	IRemedy se changing "T roposed in the nber. Will prep n. PT IN PRINCI ge in Table 154	TBD" to "20" [dB] to align with presentation from myself an pare a presentation that inclu <i>Response Status</i> C PLE. 1-9, the TBD for "Receiver re	n CableLabs and C d Atul S. from NEL des this recomme flectance (max)" to	DIF specifications, as America at the call in ndation for the Januar o -20.
if 154 SC ichmitt, Matt ichmitt, Matt in Table 154 uggestedReme Propose cha was propose December. interim.	C 154.7.1 T Cr 44-8, there is a TE bedy manging "TBD" to sed in the present Will prepare a p	P109 CableLabs omment Status A BD for "Transmitter reflec "20" [dB] to align with Ca tation from myself and At resentation that includes	stance (max)" th ableLabs and O tul S. from NEL	nat needs to be resolved. IF specifications, as America at the call in	Suggested Propos was pr Decerr interim Response ACCE	IRemedy se changing "T oposed in the nber. Will prep n. PT IN PRINCI	TBD" to "20" [dB] to align with presentation from myself an pare a presentation that inclu <i>Response Status</i> C PLE. 1-9, the TBD for "Receiver re	n CableLabs and C d Atul S. from NEI des this recomme	DIF specifications, as _ America at the call in ndation for the Januar
Cl 154 SC Schmitt, Matt Comment Type In Table 154 SuggestedReme Propose cha was propose December. interim. Response	C 154.7.1 T Cr 44-8, there is a TE bedy manging "TBD" to sed in the present Will prepare a p	P109 CableLabs omment Status A 3D for "Transmitter reflec "20" [dB] to align with Ca tation from myself and At	stance (max)" th ableLabs and O tul S. from NEL	nat needs to be resolved. IF specifications, as America at the call in	Suggested Propos was pr Decerr interim Response ACCE	IRemedy se changing "T oposed in the nber. Will prep n. PT IN PRINCI ge in Table 154 SC 154.7.2	TBD" to "20" [dB] to align with presentation from myself an pare a presentation that inclu <i>Response Status</i> C PLE. 1-9, the TBD for "Receiver re	n CableLabs and C d Atul S. from NEL des this recomme flectance (max)" to	DIF specifications, as America at the call ir ndation for the Januar
Cl 154 SC Schmitt, Matt Comment Type In Table 154 SuggestedReme Propose cha was propose December. interim. Response ACCEPT IN	C 154.7.1 T Cr 44-8, there is a TE bedy hanging "TBD" to sed in the present Will prepare a p Re N PRINCIPLE.	P109 CableLabs omment Status A BD for "Transmitter reflec "20" [dB] to align with Ca resentation from myself and At resentation that includes	stance (max)" th ableLabs and O tul S. from NEL s this recommer	nat needs to be resolved. IF specifications, as America at the call in ndation for the January	Suggested Propos was pr Decerr interim Response ACCEI Chang Cl 154	IRemedy se changing "T oposed in the nber. Will prep n. PT IN PRINCI ge in Table 154 SC 154.7.2	TBD" to "20" [dB] to align with presentation from myself an pare a presentation that inclu <i>Response Status</i> C PLE. 4-9, the TBD for "Receiver re 2 <i>P</i> 110	n CableLabs and C d Atul S. from NEL des this recomme flectance (max)" to	DIF specifications, as America at the call ir ndation for the Januar
Cl 154 SC Schmitt, Matt Comment Type In Table 154 SuggestedReme Propose cha was propose December. interim. Response ACCEPT IN	C 154.7.1 T Cr 44-8, there is a TE bedy hanging "TBD" to sed in the present Will prepare a p Re N PRINCIPLE.	P109 CableLabs omment Status A BD for "Transmitter reflec "20" [dB] to align with Ca tation from myself and At resentation that includes	stance (max)" th ableLabs and O tul S. from NEL s this recommer	nat needs to be resolved. IF specifications, as America at the call in ndation for the January	Suggested Propos was pr Decerr interim Response ACCEI Chang C/ 154 Zhang, Bo Comment Sugge (http://	IRemedy se changing "T oposed in the nber. Will prep n. PT IN PRINCI ge in Table 154 SC 154.7.2 Type TR est fill in the val	 (BD) to "20" [dB] to align with presentation from myself an pare a presentation that inclu<i>Response Status</i> C PLE. 4-9, the TBD for "Receiver re 2 P110 Inphi Comment Status A Iue instead of TBD. In line wi org/3/ct/public/tf_interim/19_	n CableLabs and C d Atul S. from NEI ides this recomme flectance (max)" to <i>L</i> 28 th recent presenta	DIF specifications, as - America at the call in ndation for the Januar 20. # <u>102</u> tion
2 154 SC Schmitt, Matt Comment Type In Table 154 SuggestedReme Propose cha was propose December. interim. Response ACCEPT IN	C 154.7.1 T Cr 44-8, there is a TE bedy hanging "TBD" to sed in the present Will prepare a p Re N PRINCIPLE.	P109 CableLabs omment Status A BD for "Transmitter reflec "20" [dB] to align with Ca resentation from myself and At resentation that includes	stance (max)" th ableLabs and O tul S. from NEL s this recommer	nat needs to be resolved. IF specifications, as America at the call in ndation for the January	Suggested Propos was pr Decerr interim Response ACCEI Chang C/ 154 Zhang, Bo Comment Sugge (http://	IRemedy se changing "T oposed in the nber. Will prep n. PT IN PRINCI ge in Table 154 SC 154.7.2 Type TR est fill in the val www.ieee802. in support of.	 (BD) to "20" [dB] to align with presentation from myself an pare a presentation that inclu<i>Response Status</i> C PLE. 4-9, the TBD for "Receiver re 2 P110 Inphi Comment Status A Iue instead of TBD. In line wi org/3/ct/public/tf_interim/19_	n CableLabs and C d Atul S. from NEI ides this recomme flectance (max)" to <i>L</i> 28 th recent presenta	DIF specifications, as - America at the call ir ndation for the Januar 20. # <u>102</u> tion
Cl 154 SC Schmitt, Matt Comment Type In Table 154 SuggestedReme Propose cha was propose December. interim. Response ACCEPT IN	C 154.7.1 T Cr 44-8, there is a TE bedy hanging "TBD" to sed in the present Will prepare a p Re N PRINCIPLE.	P109 CableLabs omment Status A BD for "Transmitter reflec "20" [dB] to align with Ca resentation from myself and At resentation that includes	stance (max)" th ableLabs and O tul S. from NEL s this recommer	nat needs to be resolved. IF specifications, as America at the call in ndation for the January	Suggested Propos was pr Decerr interim Response ACCE Chang C/ 154 Zhang, Bo Comment Sugge (http:// we are	IRemedy se changing "T oposed in the nber. Will prep n. PT IN PRINCI ge in Table 154 SC 154.7.2 Type TR est fill in the val www.ieee802. e in support of. IRemedy	 (BD) to "20" [dB] to align with presentation from myself an pare a presentation that inclu<i>Response Status</i> C PLE. 4-9, the TBD for "Receiver re 2 P110 Inphi Comment Status A Iue instead of TBD. In line wi org/3/ct/public/tf_interim/19_	n CableLabs and C d Atul S. from NEI ides this recomme flectance (max)" to <i>L</i> 28 th recent presenta	DIF specifications, as - America at the call ir ndation for the Januar 20. # <u>102</u> tion
Cl 154 SC Schmitt, Matt Comment Type In Table 154 SuggestedReme Propose cha was propose December. interim. Response ACCEPT IN	C 154.7.1 T Cr 44-8, there is a TE bedy hanging "TBD" to sed in the present Will prepare a p Re N PRINCIPLE.	P109 CableLabs omment Status A BD for "Transmitter reflec "20" [dB] to align with Ca resentation from myself and At resentation that includes	stance (max)" th ableLabs and O tul S. from NEL s this recommer	nat needs to be resolved. IF specifications, as America at the call in ndation for the January	Suggested Propos was pr Decerr interim Response ACCE Chang Cl 154 Zhang, Bo Comment Sugge (http:// we are Suggested	IRemedy se changing "T oposed in the nber. Will prep n. PT IN PRINCI ge in Table 154 SC 154.7.2 Type TR st fill in the val www.ieee802. in support of. IRemedy	 (BD) to "20" [dB] to align with presentation from myself an pare a presentation that inclu<i>Response Status</i> C PLE. 4-9, the TBD for "Receiver re 2 P110 Inphi Comment Status A Iue instead of TBD. In line wi org/3/ct/public/tf_interim/19_	n CableLabs and C d Atul S. from NEI ides this recomme flectance (max)" to <i>L</i> 28 th recent presenta	DIF specifications, as - America at the call ir ndation for the Januar 20. # <u>102</u> tion

Cl	154	
SC	154.7.2	

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C/ 154	SC 154.7.3	P110	L 39	# 117	C/ 154	SC 154.7.3	3 <i>P</i> 110	L 53	# 92
Nicholl, Ga		Cisco Systems	L 39	# 117	Schmitt, N		CableLabs	200	# 92
Comment T	5	Comment Status A			Comment		Comment Status R		
The ma distanc	aximum chroma e of 120km, whi	tic dispersion in Table 154-10 i ich is 50% greater than the 80k er a reach 50% greater than the	m objective fo	r this PHY. Requiring	In Tab that ne	eeds to be res	re is a TBD for "Maximum discr	rete reflectance	between TP2 and TP3"
		and compromise the BMP and			Suggested	-	this norsenator from the table (deleting the enti	ra raw) Mith tha
		he OIF 400ZR specification ha tent with it's reach objective of		dispersion spec of 2400	combi Recei	nation of Tx Ř ver Reflectanc	this parameter from the table (eflectance (Table 154-8), Retur e (154-9), this parameter is not ntation ont his proposal for the	n Loss Tolerand	ce (Table 154-8), and effectively redundant. I
Suggested	Remedy				Response	• •	Response Status C		
		chromatic dispersion in Table ⁻ nt with an 80 km reach objectiv		400 ps/nm to 1600	REJE	CT.			
Response		Response Status C					tended to put restrictions on col black link to ensure that penalti		
ACCEP	PT IN PRINCIPL	-E.			C/ 154	SC 154.7.3	3 <i>P</i> 111	L13	# 13
A Straw	v Poll was taker	1:			Brown, Ma	att	Huawei Tech	nologies Canad	а
l suppo	ort changing the	value from 2,400ps/nm to 1,60	0ps/nm at this	meetina:	Comment	Туре Т	Comment Status A	-	Bucket
Y - 17 N - 5					the tal DGD_	ole. Previously max as a deso	tnote a, there is a disconnect b PMDs, a similar table (e.g., Ta cription, whereas here the desc rity, include the DGD_max term	ble 124-11 in 80 ription is spelled	02.3-2018) included I out in words. For
Implem	ent the suggest	ted remedy.			Suggested	Remedy			
Cl 154 Schmitt, Ma	SC 154.7.3	P 110 CableLabs	L 52	# 91			f row 2 change the description t al group delay, DGD_max"	0:	
,		Comment Status R			Response		Response Status C		
Comment 7 In Table resolve	e 154-10, there	is a TBD for "Minimum optical	return loss at ⁻	TP2" that needs to be	ACCE	PT.			
Suggested	Remedy								
functior	nally equivalent	is parameter from the table (de to the Tx Reflectance paramet pare a presentation on this pro	er in Table 154	1-8, and therefore is not					
transmi	return loss at T itter return loss	Response Status C P2 is return loss into the black tolerance parameters are relate a consistent way.							
See als	so response to c	comment 88.							

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: Clause, Subclause, page, line

C/ 154 SC 154.7.3 Page 23 of 24 1/22/2020 2:45:20 AM

C/ 154	SC 154.8	P111	L 17	# 93	C/ 154	SC 154	4.8.14	P 113	L17	# 98
Schmitt, M	latt	CableLabs			Maniloff, E	ric		Ciena		
Comment		Comment Status R			Comment	Туре Е		Comment Status A		
		definitions of optical parameter			Power	range for	OSNR m	easurement is not specified	1.	
		the list of optical parameters imber of parameters have no		8, -9, and -10 with this	Suggested	lRemedy				
Suggested							ng that O	SNR requirement must be r	net over power	range as specified in
	-	ns for each parameter in Tabl	es 154-8, -9, a	nd -10, and if necessary	Table					
		urrently isn't a definition simpl	y listing the tex	t as TBD in order to	Response			Response Status C		
	age contribution	s to address those gaps.				PT IN PRI		14 to:		
Response	-	Response Status C			"The C	SNR(193.	.6) [ampli	fied] shall be within the limit		
REJEC	51.					je input po ⊨amplifiers		olified] range specified in Ta	ble 154-9 for a	black link that contains
		6 I.I.I.			·			D// 0	1.04	11 00
It is no	t sufficiently clea	ar for which parameters we ne	ed a definition		C/ 154	SC 154	4.8.15	P113	L 24	# 99
	ufficient remedy	has been provided with propo	sed editor inst	ructions to modify the	Maniloff, E			Ciena		
draft.					Comment		-	Comment Status A shorter links than 80 km" is a	owword	
Comm	ents are invited	with specific proposals for par	ameter defintio	ons.		0	th likely s	shorter links than ou km is a	awkwaru.	
C/ 154	SC 154.8.12	P 113	L 5	# 97	Suggested	•	to "The "	aguirement for OSND(102)		is intended to encoify
Maniloff, E		Ciena	20		usage	of the sam	ne receiv	equirement for OSNR(193.6 er for unamplified applicatio	ns. DWDM cha	innel loss will likely limit
Comment		Comment Status A						ese applications to less thar		
	51	ne range over which the requi	rement for OSI	NR(193.6) needs to be	Response			Response Status C		
		s appies to 154.8.13 as well.				PT IN PRI				
Suggested	Remedy					e the word		4.8.15 to: IR(193.6) [unamplified] is in	tended to spec	ify usage of the same
		fines the input power range of OSNR defined by OSNR(193		ER requirement must	receive	er for unan	nplified a	pplications. The associated applications to less than 80	channel loss w	ill likely limit the
Response		Response Status C	,			ations."			·	
ACCE	PT IN PRINCIPL	E.								
Apply	suggested reme	dy in 154.8.12 and 154.8.13.								
. (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										

C/ 154 SC 154.8.15