C/FM SC FM	<i>P</i> 10	L 16	# 231	C/ 00 SC 00	P 35	L <b>54</b>	# 254
Brown, Matt	Huawei			Law, David	Hewlett Pack	ard Enterprise	
omment Type E	Comment Status X			Comment Type T	Comment Status X		
"physical layer" shoul	ld be capitalized				and MII relationship to the IS		
uggestedRemedy					and IEEE 802.3 Ethernet mo sitioning of 200 Gigabit and		
	er" to "Physical Layer"			to add a third 400GBAS	SE-ZR sublayer 'stack'. Curre		
Also, at the following page 12, line 42	locations			400GBASE-R PCS belo	ow the 400GMII.		
page 39, line 8				SuggestedRemedy			
oposed Response	Response Status <b>O</b>			Add a third 400GBASE	-ZR sublayer 'stack' to figure	e 117–1.	
				Proposed Response	Response Status O		
00 SC 0	P <b>12</b>	L 47	# 1				
aubach, Mark	Ciena			C/ 1 SC 1.3	P 21	L 8	# 5
omment Type E	Comment Status X			Marris, Arthur	Cadence Des	sign Systems	
If Is also the cooo	<b>0</b>		dad	Comment Type T	Comment Status X		
If you look at the 802	.3cy project, it states the anne	exes that were ac	ueu.	51			
uggestedRemedy					d in 155.2.5.10 include refere n G.709.3—Flexible OTN lor		es
iggestedRemedy Change "Clause 155	and Clause 156" to "Clause 1						9S
uggestedRemedy Change "Clause 155 Annex 156A".	and Clause 156" to "Clause 15			ITU-T Recommendation SuggestedRemedy		ng-reach interface	
uggestedRemedy Change "Clause 155				ITU-T Recommendation SuggestedRemedy	n G.709.3—Flexible OTN lor	ng-reach interface	
uggestedRemedy Change "Clause 155 Annex 156A". roposed Response	and Clause 156" to "Clause 15			ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen Proposed Response	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O	ng-reach interface	
uggestedRemedy Change "Clause 155 Annex 156A". roposed Response	and Clause 156" to "Clause 156	55, Clause 156, <i>i</i> <i>L</i> <b>6</b>	Annex 155A, and	ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O	ng-reach interface	
ggestedRemedy Change "Clause 155 Annex 156A". oposed Response 00 SC 0 ow, Robert	and Clause 156" to "Clause 156"	55, Clause 156, <i>i</i> <i>L</i> <b>6</b>	Annex 155A, and	ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen Proposed Response	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O <i>Response Status</i> <b>O</b>	ng-reach interface	terfaces"
uggestedRemedy Change "Clause 155 Annex 156A". roposed Response 00 SC 0 row, Robert	and Clause 156" to "Clause 15 <i>Response Status</i> <b>O</b> <i>P</i> <b>20</b> RMG Consul <i>Comment Status</i> <b>X</b>	55, Clause 156, <i>i</i> <i>L</i> <b>6</b>	Annex 155A, and	ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen Proposed Response Cl 1 SC 1.5	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O <i>Response Status</i> <b>O</b> <i>P</i> <b>21</b>	ng-reach interface	terfaces"
ggestedRemedy Change "Clause 155 Annex 156A". oposed Response 00 SC 0 ow, Robert mment Type E Oops! How did 2022 ggestedRemedy	and Clause 156" to "Clause 15 <i>Response Status</i> <b>O</b> <i>P</i> <b>20</b> RMG Consul <i>Comment Status</i> <b>X</b>	55, Clause 156, <i>i</i> <i>L</i> <b>6</b>	Annex 155A, and	ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen Proposed Response C/ 1 SC 1.5 Ran, Adee Comment Type ER "AM" typically stands fo	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O <i>Response Status</i> O <i>P</i> 21 Cisco	ng-reach interface TN long-reach in <i>L</i> 28 engineering. It se	terfaces" # 9
ggestedRemedy         Change "Clause 155         Annex 156A".         oposed Response         00       SC 0         row, Robert         mment Type       E         Oops! How did 2022         ggestedRemedy         Delete "2022"	and Clause 156" to "Clause 156" <b>P 20</b> <b>P 20</b> RMG Consul <i>Comment Status</i> <b>X</b> get inserted here.	55, Clause 156, <i>i</i> <i>L</i> <b>6</b>	Annex 155A, and	ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen Proposed Response Cl 1 SC 1.5 Ran, Adee Comment Type ER "AM" typically stands for redefine it globally in 80	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O <i>Response Status</i> O <i>P</i> 21 Cisco <i>Comment Status</i> X or "Amplitude Modulation" in 02.3 just for one clauses that	ng-reach interface TN long-reach in <i>L</i> 28 engineering. It se t uses it as a diffe	# 9 # 9 ees unreasonable to erent term.
uggestedRemedy Change "Clause 155 Annex 156A". roposed Response 00 SC 0 row, Robert pomment Type E Oops! How did 2022 uggestedRemedy Delete "2022"	and Clause 156" to "Clause 15 <i>Response Status</i> <b>O</b> <i>P</i> <b>20</b> RMG Consul <i>Comment Status</i> <b>X</b>	55, Clause 156, <i>i</i> <i>L</i> <b>6</b>	Annex 155A, and	ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen Proposed Response Cl 1 SC 1.5 Ran, Adee Comment Type ER "AM" typically stands for redefine it globally in 80 We have used the unab	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O <i>Response Status</i> <b>O</b> <i>P</i> <b>21</b> Cisco <i>Comment Status</i> <b>X</b> or "Amplitude Modulation" in	ng-reach interface TN long-reach in <i>L</i> 28 engineering. It se t uses it as a diffe	# 9 # 9 ees unreasonable to erent term.
IggestedRemedy Change "Clause 155 Annex 156A". oposed Response 00 SC 0 row, Robert omment Type E Oops! How did 2022 IggestedRemedy Delete "2022"	and Clause 156" to "Clause 156" <b>P 20</b> <b>P 20</b> RMG Consul <i>Comment Status</i> <b>X</b> get inserted here.	55, Clause 156, <i>i</i> <i>L</i> <b>6</b>	Annex 155A, and	ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen Proposed Response Cl 1 SC 1.5 Ran, Adee Comment Type ER "AM" typically stands for redefine it globally in 80 We have used the unat SuggestedRemedy	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O <i>Response Status</i> <b>O</b> <i>P</i> <b>21</b> Cisco <i>Comment Status</i> <b>X</b> or "Amplitude Modulation" in 02.3 just for one clauses that bbreviated term "alignment n	ng-reach interface TN long-reach in <i>L</i> 28 engineering. It se t uses it as a diffe	# 9 # 9 ees unreasonable to erent term.
iggestedRemedy Change "Clause 155 Annex 156A". oposed Response 00 SC 0 row, Robert omment Type E Oops! How did 2022 iggestedRemedy Delete "2022"	and Clause 156" to "Clause 156" <b>P 20</b> <b>P 20</b> RMG Consul <i>Comment Status</i> <b>X</b> get inserted here.	55, Clause 156, <i>i</i> <i>L</i> <b>6</b>	Annex 155A, and	ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen Proposed Response Cl 1 SC 1.5 Ran, Adee Comment Type ER "AM" typically stands for redefine it globally in 80 We have used the unat SuggestedRemedy Delete the abbreviation	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O <i>Response Status</i> <b>O</b> <i>P</i> <b>21</b> Cisco <i>Comment Status</i> <b>X</b> or "Amplitude Modulation" in D2.3 just for one clauses that bbreviated term "alignment n	ng-reach interface TN long-reach in <i>L</i> 28 engineering. It se uses it as a diffe narker" in many p	# 9 # 9 ees unreasonable to erent term. previous clauses.
aggestedRemedy Change "Clause 155 Annex 156A". Toposed Response 00 SC 0 row, Robert omment Type E Oops! How did 2022 aggestedRemedy Delete "2022"	and Clause 156" to "Clause 156" <b>P 20</b> <b>P 20</b> RMG Consul <i>Comment Status</i> <b>X</b> get inserted here.	55, Clause 156, <i>i</i> <i>L</i> <b>6</b>	Annex 155A, and	ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen Proposed Response Cl 1 SC 1.5 Ran, Adee Comment Type ER "AM" typically stands for redefine it globally in 80 We have used the unat SuggestedRemedy Delete the abbreviation	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O <i>Response Status</i> <b>O</b> <i>P</i> <b>21</b> Cisco <i>Comment Status</i> <b>X</b> or "Amplitude Modulation" in 02.3 just for one clauses that bbreviated term "alignment n "AM" in 1.5. occurrences of the abbreviat	ng-reach interface TN long-reach in <i>L</i> 28 engineering. It se uses it as a diffe narker" in many p	# 9 # 9 ees unreasonable to erent term. previous clauses.
uggestedRemedy Change "Clause 155 Annex 156A". roposed Response 0 00 SC 0 row, Robert omment Type E Oops! How did 2022 uggestedRemedy	and Clause 156" to "Clause 156" <b>P 20</b> <b>P 20</b> RMG Consul <i>Comment Status</i> <b>X</b> get inserted here.	55, Clause 156, <i>i</i> <i>L</i> <b>6</b>	Annex 155A, and	ITU-T Recommendation SuggestedRemedy Add: "ITU-T Recommen Proposed Response C/ 1 SC 1.5 Ran, Adee Comment Type ER "AM" typically stands for redefine it globally in 80 We have used the unath SuggestedRemedy Delete the abbreviation In clause 155, change of or "AM field" as approprint	n G.709.3—Flexible OTN lor ndation G.709.3—Flexible O <i>Response Status</i> <b>O</b> <i>P</i> <b>21</b> Cisco <i>Comment Status</i> <b>X</b> or "Amplitude Modulation" in 02.3 just for one clauses that bbreviated term "alignment n "AM" in 1.5. occurrences of the abbreviat	ng-reach interface TN long-reach in <i>L</i> 28 engineering. It se t uses it as a diffe narker" in many p ion "AM" to eithe	# 9 # 9 ees unreasonable to erent term. previous clauses.

TYPE: TR/technical required ER/editorial required GR/gener	C/ 1	Page 1 of 55	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 1.5	4/15/2023 10:08:50 AM
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C/ 1	SC 1.5		P <b>21</b>	L 29	# 10	C/ <b>45</b>	SC 45.2.1.	151.1	P <b>25</b>	L 49	# 12
Ran, Adee			Cisco			Ran, Adee			Cisco		
Comment T	Type E	Comment S	tatus X			Comment 1	Гуре Е	Comme	nt Status X		
Having useful f abbrevi There a Fields r It would (155). T This ap MBASE uggestedF Delete t If consi	abbreviations for readers, and iations with oth are several abb names are typi- d be better to d This way, reade oplies to the abl E (field name), Remedy these abbrevia dered necessa	that are not com d potentially con er meaning. reviations which cally not listed he efine such abbre ers of the clause previations CFE PS (field name), tions from 1.5. ry, add an abbre	monly used a flicting with ex are only used ere. eviations only will be more I C, FAW (field RPF (field na eviation subcla	isting clauses the das field names in the clause where the original of the ori	fined but never used), TS (field name).	"For 10 The tex that con sentend People to the b Comme 45.2.1. Suggested/ Bring in Mark th	to of this subcl rrespond to th ce above. The reading the a base standard ent applies sir 157.1. Remedy the full subcl ne sentence "	see Table 15 ause in the b ese index val e resulting sed mendment m . This subclar nilarly in 45.2 lause text from	4–5 and for 4000 ase standard has ues are given in f quence is repetition ay not understan use is short enou 2.1.152.1, 45.2.1. m the base docur	the appropriate P ve and unhelpful. d what this chang gh to be quoted in 153.1, 45.2.1.155 ment.	he optical frequencies MD clause" before the ge means without goin
roposed R	SC <b>45.2.1.1</b>	Response St	P 25	L 37	# 11	Change "The op	e the last sent	ence to cies that corre			jiven in Table 154–5 fo
Ran, Adee			Cisco								
Comment T		Comment S	tatus X			,	similarly in the				
"For 10 number	0GBASE-ZR tl r is listed in Tal	ne specific optica	al frequency c r 400GBASE-	ZR the specific	each channel index optical frequency -4"	Proposed F	Response	Respons	e Status <b>O</b>		
	-					C/ <b>45</b>	SC 45.2.1.	153a.1	P 27	L 37	# 13
		(starting with "ar he subsequent p		e sentence harc	I to read, and it does	Ran, Adee			Cisco		
		ne subsequent p	alaylapii.			Comment 7	Гуре <b>E</b>	Comme	nt Status 🗙		
SuggestedF Change	e the quoted te	xt to				There i	s only one ap	propriate PMI	D clause. The tex	t can be made cl	earer.
"The sp	becific optical fi		oonding to ea Table 156–4	ch channel inde for 400GBASE-	x number is listed in ZR".		ent applies sir	nilarly in 45.2	.1.157a.1.		
Proposed R		Response St				Suggested	•				
							e to "The optic 156–4 for 4000		es that correspond	d to these index v	alues are given in
						Apply s	imilarly in the	other subcla	use.		
						Proposed F	_		e Status <b>O</b>		

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45 SC 45.2.1.153a.1 P 27 L 39 # 14	C/ 45 SC 45.2.1.228 P 30 L 22 # 95
an, Adee Cisco	Bruckman, Leon Huawei
omment Type E Comment Status X Paragraph break before the period.	Comment Type T Comment Status X This counter is for uncorrected errors
<i>lggestedRemedy</i> Delete it.	SuggestedRemedy Replace "aSC-FEC corrected codewords counter" with "SC-FEC uncorrected codewords counter"
oposed Response Response Status <b>O</b>	Proposed Response Response Status <b>O</b>
45 SC 45.2.1.227 P 30 L 16 # 94	C/ 45 SC 45.2.1.228 P 30 L 23 # 16
ruckman, Leon Huawei	Ran, Adee Cisco
omment Type T Comment Status X	Comment Type ER Comment Status X
Wrong reference	The title of this subclause does not match the base document.
IggestedRemedy	SuggestedRemedy
Replace "and 155.2.6.1" with "and 155.2.6.5"	Change to "SC-FEC uncorrected codewords counter (Register 1.2278, 1.2279)".
oposed Response Response Status <b>O</b>	Proposed Response Response Status <b>O</b>
45 SC 45.2.1.227 P 30 L 17 # 15	C/ 45 SC 45.2.1.228 P 30 L 24 # 96
an, Adee Cisco	Bruckman, Leon Huawei
mment Type ER Comment Status X "See 153.2.5.1 and 155.2.6.1 for a definition of this counter."	Comment Type T Comment Status X Wrong reference
("this" is the SC-FEC corrected codewords counter)	SuggestedRemedy
However, 155.2.6.1 is titled "Hamming SD-FEC decoder" - a very different FEC, and does not define this counter.	Replace "and 155.2.6.1" with "and 155.2.6.5" Proposed Response Response Status <b>O</b>
The appropriate reference seems to be 155.5.1.	
IggestedRemedy	C/ 45 SC 45.2.1.228 P 30 L 25 # 17
Change the reference to 155.5.1	Ran, Adee Cisco
roposed Response Response Status <b>O</b>	Comment Type ER Comment Status X 155.2.6.1 is an incorrect cross reference.
	SuggestedRemedy Change to 155.5.2.
	Proposed Response Response Status <b>O</b>

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 C/ 45
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 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 45.2.1.228
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 SC 45.2.1.228
 SC 45.2.1.228
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C/ 45 SC 45.2.1.229	P 30	L <b>32</b>	# 18	Cl 45 SC 45.2.3.61.1 P 31 L 4	# 99
Ran, Adee	Cisco			Bruckman, Leon Huawei	
Comment Type ER Comm 155.2.6.1 is an incorrect cross re	ent Status X eference.			Comment Type T Comment Status X Wrong reference	
SuggestedRemedy Change to 155.5.3.				SuggestedRemedy Replace: "155.2.5.1" with: "155.2.5.5.2"	
Proposed Response Respon	nse Status <b>O</b>			Proposed Response Response Status O	
C/ 45 SC 45.2.1.229	P 30	L 32	# 97	Cl 45 SC 45.2.3.61.1 P 31 L 5	# 20
Bruckman, Leon	Huawei			Ran, Adee Cisco	
Comment Type <b>T</b> Comm Total bits is fully defined in 153.2	ent Status <b>X</b> 2.5.3, clause 155 d	oes not add anyth	ning.	Comment Type ER Comment Status X 155.2.5.1 is an incorrect cross reference.	
SuggestedRemedy Delete refernce to 155.2.6.1				SuggestedRemedy Change to 155.4.2.	
Proposed Response Respon	nse Status <b>O</b>			Proposed Response Response Status O	
C/ 45 SC 45.2.1.230	P 30	L <b>40</b>	# 98	C/ 45 SC 45.2.3.61.4 P 31 L 21	# 100
Bruckman, Leon	Huawei			Bruckman, Leon Huawei	
Comment Type <b>T</b> Comm Wrong reference	ent Status X			Comment Type T Comment Status X Wrong reference	
SuggestedRemedy Replace "and 155.2.6.1" with "ar	nd 155.2.6.5"			SuggestedRemedy Replace: "155.2.5.2" with: "155.2.6.5"	
Proposed Response Respon	nse Status <b>O</b>			Proposed Response Response Status O	
C/ 45 SC 45.2.1.230	P 30	L <b>41</b>	# 19	Cl 45 SC 45.2.3.61.4 P 31 L 22	# 21
Ran, Adee	Cisco			Ran, Adee Cisco	
Comment Type ER Comm 155.2.6.1 is an incorrect cross re	ent Status X eference.			Comment Type ER Comment Status X 155.2.5.2 is an incorrect cross reference.	
SuggestedRemedy Change to 155.5.4.				SuggestedRemedy Change to 155.2.6.5.	
Proposed Response Respon	nse Status <b>O</b>			Proposed Response Response Status <b>O</b>	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/ 45 SORT ORDER: Clause, Subclause, page, line

SC 45.2.3.61.4

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C/ 116 SC 116.1.2	P <b>32</b>	L 20	# 136	C/ 116 SC 116.3		L <b>3</b>	# 155
Dudek, Mike	Marvell			D'Ambrosia, John	Futurewei, U	.S. Subsidiary of	Huawei
Comment Type <b>T</b>	Comment Status X			Comment Type ER	Comment Status X		
In figure 116-2 the 200 200GBASE-ZR PCS a	)GBASE-R PHY should use t and PMA.	he 200GBASE-R	PCS and PMA, not a	The insertion of Ta if this is a Frame is	ble 116-5a is showing up as par sue.	t of 116.3. It is n	ot clear to commenter
SuggestedRemedy				SuggestedRemedy			
Change 200GBASE-Z	R PCS and PMA to 200GBA	SE-R PCS and P	MA	Ensure that the add	dition of Table 116-5a is in 116.1	.4.	
Proposed Response	Response Status <b>O</b>			Proposed Response	Response Status O		
C/ 116 SC 116.1.3	P 33	L 12	# 280	C/ 116 SC 116.3	P 33	L 33	# <u>1</u> 61
Dawe, Piers	Nvidia			Huber, Thomas	Nokia		
Comment Type TR	Comment Status X			Comment Type E	Comment Status X		
confusion. Clause 15 carried in a telecoms w misnaming this spec b	lowever, the "R in the name in 5 describes a "WAN PHY" lik wrapper (then, based on SON plocks the way for a future nai v", while correct, doesn't flow	e 10GBASE-W: a IET, here, based tive BASE-R 4000	n Ethernet signal is on OTN). Also, G Z class PHY. The	5a) is still part of cl SuggestedRemedy Move the material t incorrectly) number	rom line 33 to the bottom of pag	je 33 to after wha	at is currently (and
	and provides a cleaner name		HUUGBASE-Z AVOIUS	Proposed Response	Response Status <b>O</b>		
SuggestedRemedy Change "400GBASE-2	ZR" to "400GBASE-Z" throug	hout.					
Proposed Response	Response Status <b>O</b>			C/ 116 SC 116.3	P 34	L 1	# 23
				Ran, Adee	Cisco		
				Comment Type E	Comment Status X		
C/ 116 SC 116.1.3 Ran, Adee	P <b>33</b> Cisco	L 12	# 22	Table 116-5a shou interface subclause	ld be placed in 116.1.3 after the 116.3.	existing tables, r	not in the service
Comment Type E	Comment Status X			Also, the table rulin	a needs cleaning.		
	e 116-2 says "using 400GBAS rows which simply use "enco			SuggestedRemedy			
SuggestedRemedy					format it per comment.		
Change to "using 4000	GBASE-ZR encoding".			Proposed Response	Response Status O		
Proposed Response	Response Status <b>O</b>						
,,	•						

C/ 116 SC 116.3

C/ 116 SC 116.4	P 34	L 24	# 162	C/ 116	SC 116.4.4	P 34	L <b>42</b>	# 26
Huber, Thomas	Nokia			Ran, Adee		Cisco		
Comment Type E	Comment Status X			Comment Ty	be ER	Comment Status X		
The heading here sh 116.4.3, 116.4.4, 116	ould be 116.2 rather than 116. δ.4.5 as well.	4 - this applies to	all the subheadings	the gene	ric terms "PM	specific to 200GBASE-R and A", "PCS" and "PMD" - unlike		
SuggestedRemedy				everythin	g is explicit to	0 400GBASE-ZR.		
Correct the heading this automatically)	numbers (it may be that moving	g the incorrectly p	blaced 116.3 will fix	"PMA" sh	ould be char	nged to "200GBASE-R and 40	0GBASE-R PMA	As" or "these PMAs".
Proposed Response	Response Status O			Similarly	"PMD" shoul	d be change to "200GBASE-F	and 400GBASE	E-R PMDs".
						graph could be rephrased to s		
C/ 116 SC 116.4	P 34	L 24	# 24			A performs" - this way the wh includes PCS and PMD). A s		
Ran, Adee	Cisco				ent clause.		innai enainge en	
Comment Type ER	Comment Status X			SuggestedRe	emedy			
Incorrect subclause sublayers" is 116.2 i	number: "Summary of 200 Giga n the base standard.	abit and 400 Giga	abit Ethernet		y use the sec	·		
SuggestedRemedy Change the heading	numbering to get the correct n	umbering for this	subclause and its			SE-R and 400GBASE-R PMA A performs".	As perform" to "F	or 200GBASE-R and
descendants.						agraph, change "The 400GBA		
Proposed Response	Response Status O				,	A performs" and delete the "4 rest of the paragraph.	00GBASE-ZR" (	qualifiers for PCS,
				Proposed Re	sponse	Response Status O		
C/ 116 SC 116.4.4	P 34	L 35	# 25					
Ran, Adee	Cisco			C/ 116	SC 116.4.5	P 35	L 5	# 27
Comment Type E	Comment Status X			Ran. Adee		Cisco		
A "replace" instructic definitions.	n makes the reader wonder ho	w the new text ch	nanges the existing	Comment Ty		Comment Status X and its corresponding media"	- plural	
In fact, the new text a "change" rather than	adds some sentences to the ex "replace".	isting text, so the	e instruction should be	SuggestedRe		and its corresponding media	- plural.	
-				Change '	is specified"	to "are specified".		
suaaestedRemedv								
SuggestedRemedy Change the instruction	on, and underline the new sent	ences.		Proposed Re	sponse	Response Status O		

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

C/ 116 SC 116.4.5 Page 6 of 55 4/15/2023 10:08:50 AM

C/ 118 SC 118.1	P 38	L <b>2</b>	# 28	C/ 155	SC 155		P 39	L 1	# 281	
Ran, Adee	Cisco			Dawe, Pier	s		Nvidia			
Comment Type E	Comment Status X			Comment 7	ype TF	Commer	nt Status X			
extenders, which hav	s being replaced, it would be g re xGAUI-n internally and xGM ied as parallel interfaces while	ries.	This PCS/PMA is way too complicated for just a "directive" specification, and much more complicated than the mainstream 256/257/RS-FEC. We need examples, as in Annex 97 RS-FEC codeword examples, or Annex 76A, FEC Encoding example. If no-one is willing to provide them, we don't have a guorum to complete the project.							
serial interfaces; but	they are all shown as identica	l rectangles.		Suggestedl	Remedy			•		
It would be good to r	nake a visible distinction.								ling. Smallish ones car provides for these	
This could be argued	l for other diagrams too but thi	is diagram is the	most important one.	things.	tively een	al the project				
SuggestedRemedy						el the project.				
	nificantly wider rectangles than les instead of having arrows.	n the xGAUI-n ar	nd MDIs; the labels can	Proposed F	Response	Response	e Status <b>O</b>			
Proposed Response	Response Status O			C/ 155	SC 155		P 39	L <b>1</b>	# 278	
				Dawe, Pier	s		Nvidia			
C/ 118 SC 118.1	P 38	L 10	# 29	Comment 7	уре ТБ	Commer	nt Status X			
Ran, Adee	Cisco								ineer it like this now	
Comment Type E	Comment Status X							in the right direct to coherent clear		
The labels include the word "Optional", but this clause defines the Extender and states that it is optional in the first sentence of 118.1. No need to repeat, and the XS is not optional within its own definition.					maniloff_3dj_01a_2303 for an example of how to do coherent cleanly). OIF's so-called "400ZR" has had a draft since 2018, was issued in 2020 and revised last year. 800G coherent is coming in OIF and P802.3dj, which will take much of the market away. This P802.3cw project is on about its ninth draft and still the actual specifications are vague and incomplete, the previous draft was issued 8 months ago; not the usual two-monthly					
(this exists in the orig	ginal figure but since it's replac	ed it's worth doin	ng right).	cadenc	e we expe	ct from an active	project and an e	enthusiastic grou	p. The moment for	
SuggestedRemedy						802.3 has passe Igh active partici			100ZR, and I observe	
Delete "Optional" in t	he two labels.					ign active partici	Jants III 1 002.50	Sw to justify it.		
Proposed Response	Response Status 0			Encour	this project age those	nterested to fee		into OIF's "400Z n the time comes	R" maintenance. 	

Proposed Response Response Status **O** 

C/ 155

SC 155

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C/ 155 SC 155	P 39	L 1	# 2	C/ 155	SC 155.1	P 3	9 L 5	# 255
Laubach, Mark	Ciena			Law, David	b	Hewl	ett Packard Enterprise	e
Comment Type E Other projects have ir	Comment Status X	erial.			st that the 'O		lit into two, a 'Scope'	(which IEEE 802.3 often
SuggestedRemedy Insert "Insert new clau page. Proposed Response	uses and corresponding anne Response Status <b>O</b>	exes as follows:"	as the first line of this	operat other s that th	ion'. In additic standards' sub e 'layer diagra	oclause is placed betwee	ationship of 400GBAS en the 'Scope' and 'S gh level block diagrar	–2 and a 'Summary of SE-ZR PCS and PMA to ummary of operation' so n' since IEEE 802.3 PHY
				Suggestea	Remedy			
						ther comment on 155.1 hanged to read:	is accepted, suggest	that subclause 155.1 and
				155.1	Overview			
				155.1.	1 Scope			
				(PMA) 400GE ZR PH	sublayer for t BASE-ZR PCS IY listed in Ta	the physical layer impler	nentation known as 4 MA are sublayers of t 0GBASE-ZR is used	he 400 Gb/s 400GBASE- when referring to the
				155.1.	2 Relationshi	o of 400GBASE-ZR PCS	S and PMA to other st	andards
				sublay	ers (shown sł The sublaye		C and reconciliation	and 400GBASE-ZR PMA sublayers, and the higher XS) are specified in
				155.1.	3			
				which transc error c mappi ampliti directio interfa receive	Supports the f oded to 256B, orrection (FE ng, FEC enco ude modulatio on the PCS a ce, perform F ed data into 4	data octets are encoded transmission of data and /257B encoding to reduc C). In the transmit direct ding, and generation of on (DP-16QAM) symbols nd PMA together decode EC error detection, corro 00GMII data octets at th and the PMA is shown	a control characters. the overhead before tion the PCS and PM/ dual polarization, 16- at the PMD service the PMD service DP-16QAM symbols the pCS service interface	The 64B/66B code is the addition of forward A together provide state quadrature interface. In the receive s from the PMD service d decoding, and map
				Proposed	Pesnonse	Response Status	0	

C/ 155 SC 155.1 Page 8 of 55 4/15/2023 10:08:51 AM

				-						
C/ 155	SC 155.1	P 39	L 8	# 163	C/ 155	SC 1	155.1	P 39	L 14	# 165
Huber, Th	iomas	Nokia			Huber, Th	omas		Nokia		
Comment	Туре Е	Comment Status X			Comment	Туре	Е	Comment Status X		
coding layer i	g sublayer (PCS mplementation l	is redundant with the first one ) and physical medium attacht known as 400GBASE-ZR. The BASE-ZR PHY, which uses the	ment (PMA) sub e term 400GBAS	layer for the physical SE-ZR is used when	PCS i encod	s the 400	0GMII (t oding 64	nce of this paragraph is not o here is no 'PCS service interf B/66B codewords is part of th ords.	face' in figure 15	5-1), and the process
Suggested	dRemedy				Suggested	dRemedy	V			
Delete	e the second ser	ntence.						e direction the PCS and PMA		
Proposed	Response	Response Status <b>O</b>			receiv to	ed data i	into 64B	interface, perform FEC error /66B codewords at the PCS n, the PCS and PMA togethe	service interface	"
C/ <b>155</b>	SC 155.1	P <b>39</b>	L 8	# 30				service interface, FEC error	<sup>r</sup> detection and c	orrection, and
Ran, Adee	е	Cisco				pping at				
<i>Comment</i> "The t	51	Comment Status X ZR is used when referring to	the 400GBASE	-ZR PHY, which uses"	Proposed	Respons	se	Response Status <b>O</b>		
Too w	ordy.									
Suggested	dRemedy									
Chang	ge to "The 400G	BASE-ZR PHY uses".								
Proposed	Response	Response Status <b>O</b>								
C/ 155	SC 155.1	P 39	L 9	# [164						
Huber, Th	omas	Nokia								
Comment	Туре Е	Comment Status X								
In the	third sentence i	t would be good to clarify that	the 64B/66B co	de is used by this PCS.						
Suggested	dRemedy									
		3 code supports transmission of code to support transmission of								
Proposed	Response	Response Status O								

C/ 155 SC 155.1

C/ 155	SC 155.1	P <b>39</b>	L 15	
--------	----------	-------------	------	--

#### Law, David



#### Comment Type T Comment Status X

PCS subclause 155.1 'Overview' says 'In the receive direction the PCS and PMA together ... map received data into 64B/66B codewords at the PCS service interface.' (page 39, line 15). Since the PCS service interface is the 400GMII (see subclause 155.2.1), I don't think this is correct as the 400GMII doesn't use 64B/66B encoding. Instead, the last stage in the receive direction is a 64B/66B decoder (see page 43, line 43). I believe that this decoding occurs in the block marked 'Decode and error marking' in Figure 155-3. Similarly, the subclause also says 'The 64B/66B code supports transmission of data and control characters.' (page 39, line 9) without any reference to where the 64B/66B encoding occurs. I believe that this encoding occurs in the block marked 'Encode' in Figure 155-3 (see page 43, line 15).

Hewlett Packard Enterprise

#### SuggestedRemedy

Suggest that:

[1] The text (page 39, line 9) 'The 64B/66B code supports transmission of data and control characters.' is changed to read 'The eight 400GMII data octets are encoded into 66-bit blocks using 64B/66B encoding, which supports transmission of data and control characters.'.

[2] The text (page 39, line 15) '... error detection and correction, and map received data into 64B/66B codewords at the PCS service interface.' is changed to read '... error detection, correction, demapping and decoding, and map received data into 400GMII data octets at the PCS service interface.'.

[3] The text (page 40, line 6) '400GMII' is changed to read 'PCS service interface (400GMII)'.

#### Proposed Response Response Status **O**

C/155SC155.1.1P40L41#157D'Ambrosia, JohnFuturewei, U.S. Subsidiary of HuaweiComment TypeERComment StatusX

After noting 155-2 and various sublayers, a sentence notes "The sublayers within a 400GMII Extender Sublayer (400GXS) are specified in Clause 118." which is not shown in Fig 155-2. Furthermore, this sentence should be pointing to the 400GMII Extender, not the Extender sublayer, which is part of the 400GMII Extender.

#### SuggestedRemedy

Two choices

1. Delete sentence.

2. Given the importance of the 400GMII Extender for the 400GBASE-ZR PHY, modify Fig 155-2 to include the optional 400GMII Extender, and change the sentence to read, "The sublayers within a 400GMII Extender are specified in Clause 118.

Proposed Response Response Status O

C/ 155	SC 155.1.1	P <b>40</b>	L <b>46</b>	# 31
Ran, Adee		Cisco		

Comment Type ER Comment Status X

"The sublayers within a 400GMII Extender Sublayer (400GXS) are specified in Clause 118."

400GXS is not shown in Figure 155-2, so this sentence seems out of place. Context should be provided.

#### SuggestedRemedy

Change to "The 400GBASE-ZR Physical layer may optionally include a 400GMII Extender sublayer (400GXS), specified in Clause 118."

Proposed Response Response Status O

C/ 155 SC 155.1.1	P <b>40</b>	L 47	# 233
Brown, Matt	Huawei		

Comment Type E Comment Status X

Since this paragraph explicitly calls out the extender it would be sensible to include a the extender in Figure 155-2 and maybe create a new figure after Figure 155-1 with the extender, as well.

#### SuggestedRemedy

Create a new figure like Figure 155-1 with a 400GMII extender. Add a stack in figure 155-2 with a 400GMII extender.

Proposed Response Response Status **O** 

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C/ 155 SC 155.1.1	P <b>40</b>	L <b>47</b>	# 232	C/ 155 SC 155.2.1	P 41	L 34	# 235
Brown, Matt	Huawei			Brown, Matt	Huawei		
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
400GXS is a sublayer	in the 400GMII extender			It is specifically the 400	Gb/s MII.		
SuggestedRemedy				SuggestedRemedy			
0,	thin a 400GMII Extender Subl 400GMII Extender are"	ayer (400GXS) a	re"	Change the sentence to Interface (400GMII) (see	"The PCS service interface Clause 117)."	e is the 400 Gb/s	Media Independent
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 155 SC 155.1.1	P 41	L 14	# 234	C/ 155 SC 155.2.2	P 42	L <b>12</b>	# <u>1</u> 66
Brown, Matt	Huawei			Huber, Thomas	Nokia		
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
Given that this PCS/P	MA only works with the 400G	BASE-ZR PMD, t	the PMD in the	In Figure 155-3, the bloc	k labeled "Encode" should	probably say "64	B/66B Encode"
diagram should be "40	00GBASE-ZR PMD", like the I	PMA and PCS su	ıblayers.	SuggestedRemedy			
SuggestedRemedy				Add "64B/66B" to the lat	oel.		
Change "PMD" to "40	)GBASE-ZR PMD".			Proposed Response	Response Status <b>O</b>		
Proposed Response	Response Status <b>O</b>						
	P 41	L <b>41</b>	# 450	C/ 155 SC 155.2.2	P <b>42</b>	L 15	# <u>1</u> 67
		- ••	# 158	Huber, Thomas	Nokia		
D'Ambrosia, John		.S. Subsidiary of	Huawei	Comment Type E	Comment Status X		
Comment Type E	Comment Status X e following sentence due to its lent Interface (400GMII), whic				ing higher-level processes rate - e.g., scrambling would		
	· //			SuggestedRemedy			
is the Media Independ				cuggeoleantenneuy			
is the Media Independ SuggestedRemedy	f the PCS may connect to the	Reconciliation St	ublayer through the	Since other PCS diagram	ns (in particular those asso level groupings of processe		

C/ 155 SC 155.2.2

	C/ 155 SC 155.2.2 P 43 L 6 # 168
Brown, Matt Huawei	Huber, Thomas Nokia
Comment Type E Comment Status X	Comment Type E Comment Status X
Use style consistent in both transmit and receive direction. SuggestedRemedy	The sentence describing communication from PCS to PMA is a bit awkward, and doesn't really need to discuss what the PMA does since this subcluase is about the PCS.
Change "OH & AM insertion" to "OH/AM insertion".	SuggestedRemedy
Proposed Response Response Status <b>O</b>	Change "When communicating with the PMA in the transmit direction, the 400GBASE-ZI PCS provides 128-bit soft decision forward error correction (SD-FEC) codewords from the 400GBASE-ZR PCS to the PMA, which the PMA encodes into two streams of 16QAM symbols."
C/ 155 SC 155.2.2 P 43 L 1 # 159	to
D'Ambrosia, John Futurewei, U.S. Subsidiary of Huawei	"When communicating with the PMA in the transmit direction, the 400GBASE-ZR PCS uses a single lane carrying 128-bit soft decision forward error correction (SD-FEC)
Comment Type ER Comment Status X	codewords."
There is inconsistent usage of the terms 400GBASE-ZR PCS and PCS, as well as 400GBASE-ZR PMA and PMA thoughout this subclause	Proposed Response Response Status <b>O</b>
SuggestedRemedy	
Review all of Clause 155 and implement a consistent approach to use of 400GBASE- PCS / PCS and 400GBASE-ZR PMA / PMA.	-ZR C/ 155 SC 155.2.2 P 43 L 7 # 33 Ran, Adee Cisco
Proposed Response Response Status <b>O</b>	
	Comment Type E Comment Status X
	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords"
C/ 155 SC 155.2.2 P 43 L 5 # 32	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords"
C/ <b>155</b> SC <b>155.2.2</b> P <b>43</b> L <b>5</b> # <u>32</u> Ran, Adee Cisco	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords" "Soft decision" is a feature of the FEC decoder. Calling this code SD-FEC is a bad terminology; it is a Hamming code (as stated on Line 21) that may (and ideally should) be
Cl <b>155</b> SC <b>155.2.2</b> P <b>43</b> L <b>5</b> # <u>32</u> Ran, Adee Cisco Comment Type <b>E</b> Comment Status <b>X</b>	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords" "Soft decision" is a feature of the FEC decoder. Calling this code SD-FEC is a bad
C/ <b>155</b> SC <b>155.2.2</b> P <b>43</b> L <b>5</b> # <u>32</u> Ran, Adee Cisco	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords" "Soft decision" is a feature of the FEC decoder. Calling this code SD-FEC is a bad terminology; it is a Hamming code (as stated on Line 21) that may (and ideally should) be decoded with soft input.
Cl 155 SC 155.2.2 P 43 L 5 # 32 Ran, Adee Cisco Comment Type E Comment Status X What does "n" stand for and what values does it take? SuggestedRemedy	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords" "Soft decision" is a feature of the FEC decoder. Calling this code SD-FEC is a bad terminology; it is a Hamming code (as stated on Line 21) that may (and ideally should) be decoded with soft input. Also, there are other soft-decision decoders in 802.3, so using this term just for this specific code is inappropriate.
Cl 155 SC 155.2.2 P 43 L 5 # 32 Ran, Adee Cisco Comment Type E Comment Status X What does "n" stand for and what values does it take? SuggestedRemedy Either specify what it is, or change to "transmit control signals (TXC) and receive cont	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords" "Soft decision" is a feature of the FEC decoder. Calling this code SD-FEC is a bad terminology; it is a Hamming code (as stated on Line 21) that may (and ideally should) be decoded with soft input. Also, there are other soft-decision decoders in 802.3, so using this term just for this specific code is inappropriate.
Cl 155 SC 155.2.2 P 43 L 5 # <u>32</u> Ran, Adee Cisco Comment Type E Comment Status X What does "n" stand for and what values does it take? SuggestedRemedy	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords"         "Soft decision" is a feature of the FEC decoder. Calling this code SD-FEC is a bad terminology; it is a Hamming code (as stated on Line 21) that may (and ideally should) be decoded with soft input.         Also, there are other soft-decision decoders in 802.3, so using this term just for this specific code is inappropriate.         The code should be named appropriately where it is initially mentioned.
Cl 155       SC 155.2.2       P 43       L 5       # 32         Ran, Adee       Cisco         Comment Type       E       Comment Status       X         What does "n" stand for and what values does it take?         SuggestedRemedy         Either specify what it is, or change to "transmit control signals (TXC) and receive control signals (RXC)".	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords"         "Soft decision" is a feature of the FEC decoder. Calling this code SD-FEC is a bad terminology; it is a Hamming code (as stated on Line 21) that may (and ideally should) be decoded with soft input.         Also, there are other soft-decision decoders in 802.3, so using this term just for this specific code is inappropriate.         The code should be named appropriately where it is initially mentioned.         SuggestedRemedy
Cl 155       SC 155.2.2       P 43       L 5       # 32         Ran, Adee       Cisco         Comment Type       E       Comment Status       X         What does "n" stand for and what values does it take?         SuggestedRemedy         Either specify what it is, or change to "transmit control signals (TXC) and receive control signals (RXC)".         A reference to 117.3 or to 81.3 may be appropriate here.	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords"         "Soft decision" is a feature of the FEC decoder. Calling this code SD-FEC is a bad terminology; it is a Hamming code (as stated on Line 21) that may (and ideally should) be decoded with soft input.         Also, there are other soft-decision decoders in 802.3, so using this term just for this specific code is inappropriate.         The code should be named appropriately where it is initially mentioned.
Cl 155 SC 155.2.2 P 43 L 5 # <u>32</u> Ran, Adee Cisco Comment Type E Comment Status X What does "n" stand for and what values does it take? SuggestedRemedy Either specify what it is, or change to "transmit control signals (TXC) and receive cont signals (RXC)".	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords"         "Soft decision" is a feature of the FEC decoder. Calling this code SD-FEC is a bad terminology; it is a Hamming code (as stated on Line 21) that may (and ideally should) be decoded with soft input.         Also, there are other soft-decision decoders in 802.3, so using this term just for this specific code is inappropriate.         The code should be named appropriately where it is initially mentioned.         SuggestedRemedy         Preferably replace the label "SD-FEC" to a more appropriate one such as "Extended Hamming code FEC" or "EH-FEC" across the document.
Cl 155       SC 155.2.2       P 43       L 5       # 32         Ran, Adee       Cisco         Comment Type       E       Comment Status       X         What does "n" stand for and what values does it take?         SuggestedRemedy         Either specify what it is, or change to "transmit control signals (TXC) and receive contains signals (RXC)".         A reference to 117.3 or to 81.3 may be appropriate here.	"the 400GBASE-ZR PCS provides 128-bit soft decision forward error correction (SD-FEC codewords" "Soft decision" is a feature of the FEC decoder. Calling this code SD-FEC is a bad terminology; it is a Hamming code (as stated on Line 21) that may (and ideally should) be decoded with soft input. Also, there are other soft-decision decoders in 802.3, so using this term just for this specific code is inappropriate. The code should be named appropriately where it is initially mentioned. SuggestedRemedy Preferably replace the label "SD-FEC" to a more appropriate one such as "Extended

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/ 155 SC 155.2.2	P 43	L 7	# 237	C/ 155 SC 155.	2.2 P 43	L 9	# 169
Brown, Matt	Huawei			Huber, Thomas	Nokia		
comment Type E	Comment Status X			Comment Type T	Comment Status X		
Redundant words. It is	quite clear that if the PCS pro	ovides it, it is from	the PCS.		s a multiple of 128 bits of data, w		
uggestedRemedy					more clear to say the PCS receiption rrespond to 128-bit SD-FEC cod		
	SE-ZR PCS provides 128-bit s		ard error correction	SuggestedRemedy			
	from the 400GBASE-ZR PCS R PCS provides 128-bit soft de		rar correction (SD		00GBASE-ZR PCS receives SD-	FFC codeswords	in 128 x m hits"
FEC) codewords to the				to			
Proposed Response	Response Status O				E-ZR PCS receives m-bit digitiza ded by the SD-FEC. The value c		
				Proposed Response	Response Status O		
155 SC 155.2.2	P <b>43</b>	L 9	# 257				
aw, David	Hewlett Packa	ard Enterprise		C/ 155 SC 155.	2.2 P 43	L 13	# 238
omment Type E	Comment Status X			Brown, Matt	Huawei		
	es SD-FEC codewords in 128 it SD-FEC codewords (see 15			Comment Type E	Comment Status X		
		5.5.2.2.1) 1011 11		The word "can" in	this context is deprecated per st	yle guide.	
uggestedRemedy See comment.				SuggestedRemedy			
Proposed Response	Response Status O				transmit function can operate in smit function operates in normal		
				Proposed Response	Response Status O		
155 SC 155.2.2	P <b>43</b>	L 9	# 34				
Ran, Adee	Cisco			C/ 155 SC 155.	2.2 <i>P</i> 43	L 17	# 7
comment Type TR	Comment Status X	_		Marris, Arthur	Cadence De	sign Systems	
What does "m" stand f	or and what values does it tak	ke?		Comment Type TR	Comment Status X		
It seems that this is the	e ADC resolution; if it needs to	o be defined, plea	se define it.		ce "400GBASE-ZR frame" and " nce to where they are defined	GMP" are mentio	ned. It would be helpfu
	ion is implementation depende		better to define the	SuggestedRemedy			
	no of complex and a start that have						
service interface in ten	ms of samples rather than bits	5.		Change "The trans	scoded blocks are then mapped	into a 400GBASE	-ZR frame using
service interface in terr uggestedRemedy			as 129 compled	generic mapping p	rocedure (GMP)," to "The transc	oded blocks are t	hen mapped into a
service interface in terr uggestedRemedy	ms of samples rather than bits e its first usage) or change "in		as 128 sampled	generic mapping p	scoded blocks are then mapped rocedure (GMP)," to "The transc ime using generic mapping proc Response Status <b>O</b>	oded blocks are t	hen mapped into a

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

C/ 155 SC 155.2.2 Page 13 of 55 4/15/2023 10:08:51 AM

C/ 155	SC 155.2.2	P 43	L 17	# 258	C/ 155	SC 155.2.2	P <b>43</b>	L 18	# 170
Law, David	d	Hewlett Pack	ard Enterprise		Huber, Th	omas	Nokia		
Comment	Type ER	Comment Status X			Comment	Туре Е	Comment Status X		
		E-ZR frame' (e.g., page 43, lir			The pł	nrase '257-bit b	locks stream' is awkward; 's	tream of 257-bit bl	ocks' would be better.
		nterchangeably in subclause addition, the term 'frame' is ι			Suggested	lRemedv			
Coding	g Sublayer (PC	S)' in reference to figure 155– sical Medium Attachment (PM	4 '400GBASE-ZR	frame structure' yet in			100 ppm 257-bit blocks streatit blocks being mapped…"	am being mapped.	" to "with the ±100
used in	n reference to the	he figure 155–11 'Multi-frame	and frame formate	6'.	Proposed	Response	Response Status <b>O</b>		
uggested	lRemedy								
		ket format' defines 'frame' as nce, and this is what 'frame' ge			C/ 155	SC 155.2.2	P 43	L 18	# 259
802.3,	suggest that:	, 0	5		Law, Davi	d	Hewlett Pa	ckard Enterprise	
[1] Th	e terms 'frame' :	and '400GBASE-ZR frame', w	hen used in refere	ance to figure 155_4	Comment		Comment Status X		
should	d be replaced wi	th '400GBASE-ZR PCS frame	ə'.	-		51	value should be applied to a	a rate.	
		when used in reference to figu	re 155–11, should	be replaced with	Suggested				
		frame' in subclause 155.2. me' should be replaced with '4		I∆ multi₋frame' in	00	-	' with the ±100 ppm 257-b	it blocks stroom be	ing mannad into a +20
subcla	ause 155.2. Response	Response Status <b>O</b>			ppm ti 401.54	ming domain.'	should be changed to read '. 00 ppm timing domain being	with the 257-bit I	block stream in the
					Proposed	Response	Response Status <b>O</b>		
/ 155	SC 155.2.2	P <b>43</b>	L 18	# 35			,		
	Э	Cisco			C/ 155	SC 155.2.2	P 43	L <b>21</b>	# 243
an, Adee		Comment Status X			Maniloff, E		Ciena	L 21	# 245
,	Type <b>TR</b>		products $2 \pm 20$ p				Ciella		
omment	51	57-bit blocks stream being ma	ipped into a 120 p	pm timing domain"		T	Comment Status V		
omment "with tl	he ±100 ppm 2	-			Comment	51	Comment Status X		
o <i>mment</i> "with tl This pl	he ±100 ppm 2	o sense unless the reader alre			The te (SC-F	ext currently rea EC) code and a	Comment Status X ds "an outer staircase FEC an inner Hamming code SD-I	FEC", SC-FEC and	d SD_FEC should both
omment "with tl This pl case, i	he ±100 ppm 25 hrase makes no it is not required	o sense unless the reader alre	ady knows what it	is about (in which	The te (SC-Fl be in p	ext currently rea EC) code and a parentheses.	ds "an outer staircase FEC	FEC", SC-FEC and	d SD_FEC should both
omment "with th This pl case, i This is	he ±100 ppm 25 hrase makes no it is not required	o sense unless the reader alre d).	ady knows what it	is about (in which	The te (SC-Fl be in p <i>Suggested</i>	ext currently rea EC) code and a parentheses. IRemedy	ds "an outer staircase FEC an inner Hamming code SD-I	FEC", SC-FEC and	d SD_FEC should both
This pl case, i This is <i>tuggested</i>	he ±100 ppm 25 hrase makes no it is not required an introductory <i>Remedy</i>	o sense unless the reader alre d).	eady knows what it	s about (in which	The te (SC-F be in p <i>Suggested</i> Replac (SC-F	ext currently react EC) code and a parentheses. <i>Remedy</i> ce "an outer sta EC) code and a	ads "an outer staircase FEC an inner Hamming code SD-I aircase FEC an inner Hamming code SD-I	FEC" with "an oute	-
Comment "with the This placase, i Case, i This is Cuggested Delete	he ±100 ppm 25 hrase makes no it is not required an introductory <i>Remedy</i>	o sense unless the reader alre d). v subclause so this level of de	eady knows what it	s about (in which	The te (SC-F be in p <i>Suggested</i> Replac (SC-F	e currently rea EC) code and a parentheses. <i>Remedy</i> ce "an outer sta EC) code and a EC) code and a	ds "an outer staircase FEC an inner Hamming code SD-I aircase FEC	FEC" with "an oute	-

C/ 155 SC 155.2.2

C/ 155 SC 155.2.	2 P 43	L <b>21</b>	# 36	C/ 155 SC 155.2.2	P <b>43</b>	L <b>22</b>	# 171
Ran, Adee	Cisco			Huber, Thomas	Nokia		
Comment Type E	Comment Status X			Comment Type T	Comment Status X		
	n parentheses to match SC-FE			The text here switche codewords". Better t	es from "128 bit SD-FEC code to keep consistent.	ewords" to "128 s	ymbol SD-FEC
(I understand that th the text more readal	e parentheses in SC-FEC are ble).	due to the acrony	/m - but it would make	SuggestedRemedy			
SuggestedRemedy					mbol SD-FEC codeword block are sent to the PMA"	is are sent to the	PMA" to "The 128-t
Per comment.				Proposed Response	Response Status <b>O</b>		
Proposed Response	Response Status <b>O</b>						
				C/ 155 SC 155.2.2	P 43	L 25	# 206
7 155 SC 155.2.		L <b>22</b>	# 37	Slavick, Jeff	Broadcom		
Ran, Adee	Cisco			Comment Type TR	Comment Status X		
Comment Type ER	Comment Status X			The nergraph talkin	g about test pattern mode sor	ta implies the out	put of the PCS is just
"The 128-symbol SI	D-FEC codeword blocks are se	nt to the PMA"			EC encode or GMP mapping.	·	, ,
,			forward error			·	· - ,
Two paragraphs abo correction (SD-FEC	ove this was referred to as "128 ) codewords" - very different la	3-bit soft decision nguage referring t	to the same thing.	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40		function is in tes	t-pattern mode it
Two paragraphs abo correction (SD-FEC I assume the symbo	ove this was referred to as "128	3-bit soft decision nguage referring t	to the same thing.	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). "	EC encode or GMP mapping. oh to read "When the transmit 0GMII interface is a continuou	function is in tes	t-pattern mode it
Two paragraphs abo correction (SD-FEC I assume the symbo SuggestedRemedy	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords	3-bit soft decision nguage referring t and codeword blo	to the same thing.	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40	EC encode or GMP mapping.	function is in tes	t-pattern mode it
Two paragraphs abo correction (SD-FEC I assume the symbo SuggestedRemedy Change to consister	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords nt language, preferably bits and	3-bit soft decision nguage referring t and codeword blo	to the same thing.	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). "	EC encode or GMP mapping. oh to read "When the transmit 0GMII interface is a continuou	function is in tes	t-pattern mode it
Two paragraphs abo correction (SD-FEC I assume the symbo <i>tuggestedRemedy</i> Change to consister	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords	3-bit soft decision nguage referring t and codeword blo	to the same thing.	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). "	EC encode or GMP mapping. oh to read "When the transmit 0GMII interface is a continuou <i>Response Status</i> <b>O</b>	function is in tes	t-pattern mode it
Two paragraphs abo correction (SD-FEC I assume the symbo SuggestedRemedy Change to consister	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords nt language, preferably bits and	3-bit soft decision nguage referring t and codeword blo	to the same thing.	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). " Proposed Response	EC encode or GMP mapping. oh to read "When the transmit 0GMII interface is a continuou <i>Response Status</i> <b>O</b>	function is in tes is stream of idle o	t-pattern mode it control blocks(see
Two paragraphs abo correction (SD-FEC I assume the symbo SuggestedRemedy Change to consister Proposed Response	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords nt language, preferably bits and <i>Response Status</i> <b>O</b>	3-bit soft decision nguage referring t and codeword blo	to the same thing.	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). " Proposed Response Cl 155 SC 155.2.2	EC encode or GMP mapping. oh to read "When the transmit 0GMII interface is a continuou <i>Response Status</i> <b>O</b>	function is in tes is stream of idle o	t-pattern mode it control blocks(see
Two paragraphs abo correction (SD-FEC I assume the symbo SuggestedRemedy Change to consister Proposed Response	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords Int language, preferably bits and <i>Response Status</i> <b>O</b> <b>2</b> <i>P</i> 43	B-bit soft decision nguage referring t and codeword blo d codewords.	to the same thing. ocks are the same.	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). " Proposed Response C/ 155 SC 155.2.2 Ran, Adee Comment Type T The text describing the text describing the text describing the script of the script	EC encode or GMP mapping. oh to read "When the transmit OGMII interface is a continuou <i>Response Status</i> <b>O</b> 2. <i>P</i> 43 Cisco <i>Comment Status</i> <b>X</b> he behavior in test-pattern mo	function is in tes is stream of idle o <i>L</i> 25 ide is significantly	t-pattern mode it control blocks(see # <u>38</u>
Two paragraphs abo correction (SD-FEC I assume the symbo SuggestedRemedy Change to consister Proposed Response	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords nt language, preferably bits and <i>Response Status</i> <b>O</b> <b>2</b> <i>P</i> <b>43</b> Cadence De <i>Comment Status</i> <b>X</b>	3-bit soft decision nguage referring t and codeword blo d codewords.	to the same thing. ocks are the same.	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). " Proposed Response Cl 155 SC 155.2.2 Ran, Adee Comment Type T The text describing th description of normal	EC encode or GMP mapping. oh to read "When the transmit OGMII interface is a continuou <i>Response Status</i> <b>O</b> 2 <i>P</i> <b>43</b> Cisco <i>Comment Status</i> <b>X</b>	function is in tes is stream of idle o <i>L</i> 25 ide is significantly ession that all the	t-pattern mode it control blocks(see # <u>38</u> different from the transmit functions are
Two paragraphs abo correction (SD-FEC I assume the symbol suggestedRemedy Change to consister Proposed Response (155 SC 155.2. Marris, Arthur Comment Type TR Should this be "128 This is a resubmissi	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords nt language, preferably bits and <i>Response Status</i> <b>O</b> <b>2</b> <i>P</i> <b>43</b> Cadence De <i>Comment Status</i> <b>X</b>	3-bit soft decision nguage referring t and codeword blo d codewords. <i>L</i> 22 esign Systems	to the same thing. ocks are the same. # <u>6</u>	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). " Proposed Response Cl 155 SC 155.2.2 Ran, Adee Comment Type T The text describing th description of normal replaced by a "simple 155.2.5.13. To avoid misleading	EC encode or GMP mapping. bh to read "When the transmit OGMII interface is a continuou <i>Response Status</i> <b>O</b> <b>P 43</b> Cisco <i>Comment Status</i> <b>X</b> he behavior in test-pattern more I mode. This leads to an impre- " test pattern, which is not true the reader the text should say	function is in tes is stream of idle of <i>L</i> 25 de is significantly ession that all the ie, as one can un	t-pattern mode it control blocks(see # <u>38</u> different from the transmit functions are iderstand when readin
Two paragraphs abd correction (SD-FEC I assume the symbol SuggestedRemedy Change to consister Proposed Response Cl 155 SC 155.2. Marris, Arthur Comment Type TR Should this be "128 This is a resubmissi 2.0 comment resolu	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords Int language, preferably bits and <i>Response Status</i> <b>O</b> <b>2</b> <i>P</i> <b>43</b> Cadence De <i>Comment Status</i> <b>X</b> bit"? on of a comment against draft	3-bit soft decision nguage referring t and codeword blo d codewords. <i>L</i> 22 esign Systems	to the same thing. ocks are the same. # <u>6</u>	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). " Proposed Response C/ 155 SC 155.2.2 Ran, Adee Comment Type T The text describing th description of normal replaced by a "simple 155.2.5.13. To avoid misleading similar to that of norm	EC encode or GMP mapping. bh to read "When the transmit OGMII interface is a continuou <i>Response Status</i> <b>O</b> <b>P 43</b> Cisco <i>Comment Status</i> <b>X</b> ne behavior in test-pattern mo I mode. This leads to an impre- a" test pattern, which is not true	function is in tes is stream of idle of <i>L</i> 25 de is significantly ession that all the ie, as one can un	t-pattern mode it control blocks(see # <u>38</u> different from the transmit functions are iderstand when readin the PCS functionality i
Two paragraphs abd correction (SD-FEC I assume the symbol suggestedRemedy Change to consister Proposed Response 155 SC 155.2. Marris, Arthur Comment Type TR Should this be "128 This is a resubmissi 2.0 comment resolu suggestedRemedy Consider changing '	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords Int language, preferably bits and <i>Response Status</i> <b>O</b> <b>2</b> <i>P</i> <b>43</b> Cadence De <i>Comment Status</i> <b>X</b> bit"? on of a comment against draft	3-bit soft decision nguage referring t and codeword blo d codewords. <i>L</i> 22 esign Systems 2.0 that was not c	to the same thing. ocks are the same. # 6	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). " Proposed Response Cl 155 SC 155.2.2 Ran, Adee Comment Type T The text describing th description of normal replaced by a "simple 155.2.5.13. To avoid misleading similar to that of norm 155.2.5.13).	EC encode or GMP mapping. bh to read "When the transmit OGMII interface is a continuou <i>Response Status</i> <b>O</b> <b>P 43</b> Cisco <i>Comment Status</i> <b>X</b> he behavior in test-pattern more I mode. This leads to an impre- " test pattern, which is not true the reader the text should say	function is in tes is stream of idle of <i>L</i> 25 de is significantly ession that all the ie, as one can un	t-pattern mode it control blocks(see # <u>38</u> different from the transmit functions are iderstand when readin
Two paragraphs abo correction (SD-FEC I assume the symbol SuggestedRemedy Change to consister Proposed Response Cl 155 SC 155.2. Marris, Arthur Comment Type TR Should this be "128 This is a resubmissi 2.0 comment resolu SuggestedRemedy	ove this was referred to as "128 ) codewords" - very different la ols are bits and that codewords nt language, preferably bits and <i>Response Status</i> <b>O</b> <b>2</b> <i>P</i> <b>43</b> Cadence De <i>Comment Status</i> <b>X</b> bit"? on of a comment against draft tion (hence TR classification).	3-bit soft decision nguage referring t and codeword blo d codewords. <i>L</i> 22 esign Systems 2.0 that was not c	to the same thing. ocks are the same. # 6	scrambled idle, no Fl SuggestedRemedy Change the paragrap operates as if the 40 155.2.5.13). " Proposed Response Cl 155 SC 155.2.2 Ran, Adee Comment Type T The text describing th description of normal replaced by a "simple 155.2.5.13. To avoid misleading similar to that of norm	EC encode or GMP mapping. bh to read "When the transmit OGMII interface is a continuou <i>Response Status</i> <b>O</b> <b>P 43</b> Cisco <i>Comment Status</i> <b>X</b> he behavior in test-pattern more I mode. This leads to an impre- " test pattern, which is not true the reader the text should say	function is in tes is stream of idle of <i>L</i> 25 de is significantly ession that all the ie, as one can un	t-pattern mode it control blocks(see # <u>38</u> different from the transmit functions are iderstand when readin

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 155

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 155.2.2

 SORT ORDER: Clause, Subclause, page, line
 SC
 155.2.2
 SC

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Utuber, Thomaas       Nokia         bornment Type       T       Comment Status X         The PCS is receiving m-bit digitized DP-16GAM symbols from the PMA, and aligning to 128-bit SD-FEC codewords.       Slawick, Jeff       Broadcom         Where is the PCM Symchronization process accepts the stream of symbols via the PMA US_UTIDATA.indication primitive and forms a stream of 128-bit SD- FEC codewords."       Slawick, Jeff       Broadcom         " the PCS synchronization process accepts as stream of 128-bit SD- FEC codewords."       Proposed Response       Response Status O         " the PCS synchronization process accepts a stream of m-bit digitized DP-16GAM symbols via the PMA US_UNITDATA.indication primitive and forms a stream of 128-bit SD- FEC codewords."       Pass L 43       # do         " the PCS synchronization process accepts a stream of m-bit digitized DP-16GAM symbols via the PMA US_UNITDATA.indication primitive and forms a stream of 128-bit SD- FEC codewords."       Comment Status X       Comment Status X         " the PCS synchronization process accepts a stream of m-bit digitized DP-16GAM symbols via the PMA US_UNITDATA.indication primitive and forms a stream of 128-bit SD- FEC codewords."       Comment Status X       Comment Status X         " the PCS synchronization process accepts a stream of m-bit digitized DP-16GAM symbols via the PMA US_UNITDATA.indication primitive and forms a stream of 128-bit SD- FEC codewords."       Comment Status X       Comment Status X         " the receive function is in normal mode, the SD-FEC codeword blocks are follows?" <t< th=""><th></th><th>SC 155.2.2</th><th>P <b>43</b></th><th>L 32</th><th># 172</th><th>C/ 155 SC 155.2.</th><th>2 P 43</th><th>L 35</th><th># 207</th></t<>		SC 155.2.2	P <b>43</b>	L 32	# 172	C/ 155 SC 155.2.	2 P 43	L 35	# 207
The PCS is receiving m-bit digitized DP-16QAM symbols from the PMA, and aligning to 128-bit BD-EC codewords.       SuggestedRemedy         Change *the PCS synchronization primitive and forms a stream of 128-symbol SD-FEC codewords.       SuggestedRemedy         ** he PCS synchronization primitive and forms a stream of 128-bit SD-FEC codewords.       O         ** he PCS synchronization primitive and forms a stream of 128-symbol SD-FEC codewords.       O         ** he PCS synchronization primitive and forms a stream of 128-bit SD-FEC codewords.       Cl 155       SC 155.2.2       P 43       L 43       # 40         ** for posed Response       Response Status O       O       Cl 155       SC 155.2.2       P 43       L 43       # 40         ** for posed Response       Response Status X       ************************************	uber, Thom	nas	Nokia			Slavick, Jeff	Broadcom		
128-bit SD-FEC codewords.         uggestedRemedy         Change " the PCS synchronization process accepts a stream of 128-symbol SD-FEC codewords."         rot         "the PCS synchronization process accepts a stream of 128-symbol SD-FEC codewords."         roposed Response       Response Status O         If 155       SC 155.2.2       P 43       L 43       # 40         Ran, Adee       Cisco       Comment Status X       The reverse transcoder converts 257-bit blocks to 64B/66B"         64B/66B is the encoding scheme; the blocks are 66-bit blocks (as in the first sentence is indeed about the encoding scheme, so is fine.       SuggestedRemedy         When the receive function is in normal mode, the SD-FEC codewords?"       Comment Status X       The reverse transcoder converts 257-bit blocks to 64B/66B"         64B/66B is the encoding scheme; the blocks are 66-bit blocks (as in the first sentence is 52.3).       The next sentence is indeed about the encoding scheme, so is fine.         SuggestedRemedy       Are "SD-FEC codeword blocks" different from "SD-FEC codewords?"       VaggestedRemedy         Change ''In the receive direction, the SD-FEC decoder generates error-corrected codewords blocks" different from "SD-FEC decoder generates error-corrected codewords blocks" different from "SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed Hrough a convolutional de-interfacever".       P43       L 46       # 41	omment Ty	pe T	Comment Status X			Comment Type TR	Comment Status X		
uggestedRemedy       Replace "When the receive function is in normal mode," with "The receive function oper as follows,"         Replace "When the PCS synchronization process accepts a stream of 128-symbol SD-FEC codewords."       O         No       "the PCS synchronization process accepts a stream of n-bit digitized DP-160AM symbols via the PMA_IS_UNITDATA.indication primitive and forms a stream of 128-bit SD-FEC codewords."       O         1155       SC 155.2.2       P 43       L 35       # 39         an, Ade       Cisco       Comment Type       T       Comment Status X         "When the receive function is in normal mode, the SD-FEC codeword blocks are provided to the Hamming (128,119) SD-FEC decoder. Next the PCS de-interleaves the corrected SD-FEC codewords blocks" different from "SD-FEC codewords?"       SuggestedRemedy         Is there any other mode for the receive function?       Are "SD-FEC codeword blocks" different from "SD-FEC codewords?"       P43       L 46       # 41         wggestedRemedy       Change "GL fibrough a comvolutional di-interleaver".       PA3       L 46       # 41         wggestedRemedy       Change "GL fibrough a comvolutional di-interleaver".       Pa3       L 46       # 41         wggestedRemedy       Change "GL fibrough a comvolutional di-interleaver".       P43       L 46       # 41         wggestedRemedy       Change "GL fibrough a comvolutional di-interleaver".       Cisco       Comment Type				mbols from the Pl	MA, and aligning to		ormal" mode description?		
Change "the PCS synchronization process accepts a stream of 128-symbols SD-FEC codewords blocks"       as follows,"         Proposed Response       Response Status O         7       The PCS synchronization process accepts a stream of n-bit digitized DP-16QAM symbols via the PMA, IS_UNITDATA.indication primitive and forms a stream of 128-bit SD-FEC codewords."       P43       L 43       # [40]         7       The PCS synchronization process accepts a stream of n-bit digitized DP-16QAM symbols via the PMA, IS_UNITDATA.indication primitive and forms a stream of 128-bit SD-FEC codewords."       P43       L 43       # [40]         7       The next sentence is indeed about the encoding scheme; the blocks to 64Bi/66B"       64Bi/66B is the encoding scheme; the blocks are 66-bit blocks (as in the first sentence 155.2.3).       The next sentence is indeed about the encoding scheme, so is fine.         SuggestedRemedy       SD-FEC codewords using a convolutional de-interleaver"       SuggestedRemedy       C         Change to "In the receive function, g data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".       P43       L 46       # [41]         Ran, Adee       Cisco         Comment Type       Response Status O       C       Comment Type T       Comment Status X       The next sentence is indeed about the encoding scheme, so is fine.       SuggestedRemedy       Change "64/66B" to "66-bit"       Comment Type T       Comment Status X       Comment Status X	uggestedRe	emedy					racaiva funcion is in normal r	nodo " with "Tho ro	coive function onera
codeword blocks"       in         in								node, with the le	
Image: Construction process accepts a stream of m-bit digitized DP-160AM symbols via the PMA_IS_UNITDATA.indication primitive and forms a stream of 128-bit SD-FEC codewords."       CI 155 SC 155.2.2 P 43 L 43 # 40         Internative process accepts a stream of m-bit digitized DP-160AM symbols via the PMA_IS_UNITDATA.indication primitive and forms a stream of 128-bit SD-FEC codewords."       CI 155 SC 155.2.2 P 43 L 43 # 40         Internative process accepts a stream of m-bit digitized DP-160AM symbols via the PMA_IS_UNITDATA.indication primitive and forms a stream of 128-bit SD-FEC codewords."       CI 155 SC 155.2.2 P 43 L 43 # 40         Internative process accepts a stream of m-bit digitized DP-160AM symbols via the PMA_IS_UNITDATA.indication primitive and forms a stream of 128-bit SD-FEC codewords."       CI 155 SC 155.2.2 P 43 L 43 # 40         Internative process accepts a stream of meaning (128,119) SD-FEC decoder. Next the PCS de-interleaves the corrected SD-FEC codewords using a convolutional de-interleaver."       Subscience of the receive function?         Are "SD-FEC codeword blocks" different from "SD-FEC decoder generates error-corrected codewords using a convolutional de-interleaver."       Proposed Response Response Status O         IngestedRemedy       Change to In the receive direction, the SD-FEC decoder generates error-corrected codewords using a convolutional de-interleaver."       Comment Type ER Comment Status X       Subclauses 155.2.3 P 43 L 46 # 41         IngestedRemedy       Comment Type ER Comment Status X       Subclauses 155.2.3 through 155.2.6 describe functions within the PCS. They should be placed below 155.2.2 in the hierarchy.         Alterna	codeword		ication primitive and forms a	stream of 128-sy	/mbol SD-FEC	Proposed Response	Response Status O		
FEC codewords."       Response Status O         155       SC 155.2.2       P 43       L 35       # 39         165       SC 155.2.2       P 43       L 35       # 39         an, Adee       Cisco       Comment Status X       "The reverse transcoder converts 257-bit blocks to 64B/66B"         64B/66B is the encoding scheme; the blocks are 66-bit blocks (as in the first sentence in 155.2.3).       The next sentence is indeed about the encoding scheme, so is fine.         SD-FEC codeword suing a convolutional de-interleaver"       SuggestedRemedy       Change '64/66B' to '66-bit''         Is there any other mode for the receive function?       Are "SD-FEC codeword blocks" different from "SD-FEC codewords"?       Proposed Response       Response Status O         Clange to "In the receive direction, the SD-FEC decoder generates error-corrected codewords a convolutional de-interleaver".       Clasco       Comment Status X         subclauses 155.2.3       P 43       L 46       # 41         Ran, Adee       Cisco       Comment Status X       Subclauses 155.2.3       P 43       L 46       # 41         Ran, Adee       Cisco       Comment Status X       Subclauses 155.2.3       P 43       L 46       # 41         Ran, Adee       Cisco       Comment Status X       Subclauses 155.2.3       Comment Status X       Subclauses 155.2.2       G 452.6 describe fu	"the PC					0/ 477 00 477 0		1.10	# 40
pposed Response       Response Status       0         155       SC 155.2.2       P 43       L 35       # 39         n, Adee       Cisco       Cisco       Gamment Type       T       Comment Status X         "When the receive function is in normal mode, the SD-FEC codeword blocks are provided SD-FEC codewords using a convolutional de-interleaver"       Normal mode, the SD-FEC codeword blocks are provided SD-FEC codeword blocks are provided SD-FEC codeword blocks' different from "SD-FEC codewords"?       The next sentence is indeed about the encoding scheme, so is fine.         SuggestedRemedy       Change to "In the receive direction, the SD-FEC codewords"?       Proposed Response       Response Status       O         Cl 155       SC 155.2.3       P 43       L 46       # 1         ment Type       TR       Comment Type       Comment Status X         "Use there any other mode for the receive function?       Cisco       Cisco         Are "SD-FEC codeword blocks" different from "SD-FEC codewords"?       Proposed Response       Response Status       O         Cisco Codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".       P 43       L 46       # 1         mean passed Response       Response Status       O       Comment Type       ER       Comment Status X       Subclauses 155.2.3 through 155.2.6 describle function			S_UNITDATA.Indication prin	nitive and forms a	a stream of 128-bit SD-			L 43	# 40
155       SC 155.2.2       P 43       L 35       # 39         156       SC 155.2.2       P 43       L 35       # 39         157       SC 155.2.2       P 43       L 35       # 39         158       SC 155.2.2       P 43       L 35       # 39         156       SC 155.2.2       P 43       L 35       # 39         157       Sc 155.2.2       P 43       L 35       # 39         158       SC 155.2.2       Comment Type       TR       Comment Status X         "When the receive function is in normal mode, the SD-FEC codeword blocks are provided to the Hamming (128,119) SD-FEC decoder. Next the PCS de-interleaves the corrected SD-FEC codeword blocks" different from "SD-FEC codewords"?       The next sentence is indeed about the encoding scheme, so is fine.         159.FEC codeword blocks" different from "SD-FEC codewords"?       Cl 155       SC 155.2.3       P 43       L 46       # 41         159.gestedRemedy       Change to "In the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".       C/ 155       SC 155.2.3       P 43       L 46       # 41         Ran, Adee       Cisco       Comment Type       ER       Comment Type       ER       Comment Yeta X         Sub			Response Status 0			,			
an, Ade Cisco mment Type TR Comment Status X "When the receive function is in normal mode, the SD-FEC codeword blocks are provided to the Hamming (128,119) SD-FEC decoder. Next the PCS de-interleaves the corrected SD-FEC codewords using a convolutional de-interleaver" Is there any other mode for the receive function? Are "SD-FEC codeword blocks" different from "SD-FEC codewords"? Generate a set from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver". Doposed Response Response Status O Comment Type ER Comment Status X Subclauses 155.2.3 through 155.2.6 describe functions within the PCS. They should be placed below 155.2.2 in the hierarchy. Atternatively, 155.2.2 can be renamed "PCS overview", because that's what it is. SuggestedRemedy Preferably change the hierarchy per the comment.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	openee				51		to 64B/66B"	
in, Adee       Cisco         mment Type       TR       Comment Status X         "When the receive function is in normal mode, the SD-FEC codeword blocks are provided 5D-FEC codewords using a convolutional de-interleaver"       Internext sentence is indeed about the encoding scheme, so is fine.         SuggestedRemedy       Comment Status X       Comment Status O         Are "SD-FEC codeword blocks" different from "SD-FEC codewords"?       C/       155.2.3       P 43       L 46       # 41         ggestedRemedy       Change to "In the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".       Cisco         opposed Response       Response Status O         Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is.         SuggestedRemedy       Carment Type ER       Comment Status X         Subclauses 155.2.2 in the hierarchy per the comment.       SuggestedRemedy         Placed below 155.2.2 can be renamed "PCS overview", because that's what it is.       SuggestedRemedy         Opposed Response       Response Status O       Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is.	155	SC 155.2.2	P <b>43</b>	L 35	# 39	64B/66B is the enco	oding scheme; the blocks are	66-bit blocks (as ir	n the first sentence o
"When the receive function is in normal mode, the SD-FEC codeword blocks are provided to the Hamming (128,119) SD-FEC decoder. Next the PCS de-interleaves the corrected SD-FEC codewords using a convolutional de-interleaver"       SuggestedRemedy         Is there any other mode for the receive function?       Are "SD-FEC codeword blocks" different from "SD-FEC codewords"?       O <i>QrestedRemedy</i> C/ 155       SC 155.2.3       P 43       L 46       # 41         C/ 155       SC 155.2.3       P 43       L 46       # 41         Ran, Adee       Cisco         Comment Type       ER       Comment Status X         Subclauses 155.2.3 through 155.2.6 describe functions within the PCS. They should be placed below 155.2.2 in the hierarchy.       Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is.         SuggestedRemedy       Preferably change the hierarchy per the comment.       Preferably change the hierarchy per the comment.	n, Adee		Cisco			155.2.3).	-		
"When the receive function is in normal mode, the SD-FEC codeword blocks are provided to the Hamming (128,119) SD-FEC decoder. Next the PCS de-interleaves the corrected SD-FEC codewords using a convolutional de-interleaver"       SuggestedRemedy         Is there any other mode for the receive function?       P43       L 46       # [41]         Are "SD-FEC codeword blocks" different from "SD-FEC codewords"?       C/ 155       SC 155.2.3       P 43       L 46       # [41]         ggestedRemedy       Change to "In the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".       SuggestedRemedy       Comment Type       ER       Comment Status       X         SuggestedRemedy       Number of the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".       Ran, Adee       Cisco       Comment Type       ER       Comment Status       X         subclauses 155.2.3 through 155.2.4 describe functions within the PCS. They should be placed below 155.2.2 in the hierarchy.       Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is.         SuggestedRemedy       Preferably change the hierarchy per the comment.       Preferably change the hierarchy per the comment.	mment Ty	pe TR	Comment Status X			The next sentence i	s indeed about the encoding	scheme so is fine	
Sub-FEC codewords using a convolutional de-interleaver"         Is there any other mode for the receive function?         Are "SD-FEC codeword blocks" different from "SD-FEC codewords"?         ggestedRemedy         Change to "In the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".         opposed Response       Response Status         O         Cl 155       SC 155.2.3         P 43       L 46         Image to "In the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".         opposed Response       Response Status         O       Comment Type         ER       Comment Status         Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is.         SuggestedRemedy       Preferably change the hierarchy per the comment.							g	,,	
Is there any other mode for the receive function?         Are "SD-FEC codeword blocks" different from "SD-FEC codewords"?         ggestedRemedy         Change to "In the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".         opposed Response       Response Status         O       Comment Type         Comment Type       ER         Comment Status       X         Subclauses 155.2.3 through 155.2.6 describe functions within the PCS. They should be placed below 155.2.2 in the hierarchy.         Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is.         SuggestedRemedy         Preferably change the hierarchy per the comment.					eaves the corrected		"66-bit"		
Are "SD-FEC codeword blocks" different from "SD-FEC codewords"? ggestedRemedy Change to "In the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver". opposed Response Response Status O Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is. SuggestedRemedy Preferably change the hierarchy per the comment.	SD-FEC	codewords us	ing a convolutional de-interle						
ggestedRemedy       Change to "In the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".       Ci 155 SC 155.2.3 P 43 L 46 # 41         Deposed Response       Response Status       O         Ci 155 SC 155.2.3 Ltrough 155.2.6 describe functions within the PCS. They should be placed below 155.2.2 in the hierarchy.       Cisco         Comment Type       ER       Comment Status       X         Subclauses 155.2.3 through 155.2.6 describe functions within the PCS. They should be placed below 155.2.2 in the hierarchy.       Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is.         SuggestedRemedy       Preferably change the hierarchy per the comment.       PCI 155 SC 155.2.3 P 43 L 46 # 41			0			Proposed Response	Response Status 0		
ggestedRemedy       Change to "In the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".       Ran, Adee       Cisco         opposed Response       Response Status       O         Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is.         SuggestedRemedy         Preferably change the hierarchy per the comment.			0			Proposed Response	Response Status <b>O</b>		
Change to "In the receive direction, the SD-FEC decoder generates error-corrected codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver". <i>sposed Response</i> Response Status <b>O</b> <i>Response Status</i> <b>D</b> <i>Response Status</i>	Is there a	any other mode	e for the receive function?		?		-	/ 16	# 41
codewords from the incoming data stream on the PMA service interface, which are then are passed through a convolutional de-interleaver".       Subclauses 155.2.3 through 155.2.6 describe functions within the PCS. They should be placed below 155.2.2 in the hierarchy.         posed Response       Response Status       O         Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is.       SuggestedRemedy         Preferably change the hierarchy per the comment.       Preferably change the hierarchy per the comment.	Is there a	any other mode	e for the receive function?		?	C/ 155 SC 155.2.	3 P 43	L 46	# 41
are passed through a convolutional de-interleaver".       placed below 155.2.2 in the hierarchy.         apposed Response       Response Status       O         Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is.         SuggestedRemedy         Preferably change the hierarchy per the comment.	Is there a Are "SD- ggestedRe	any other mode FEC codeword emedy	e for the receive function? d blocks" different from "SD-I	FEC codewords"		<i>Cl</i> <b>155</b> <i>SC</i> <b>155.2</b> . Ran, Adee	3 P 43 Cisco	L 46	# 41
Alternatively, 155.2.2 can be renamed "PCS overview", because that's what it is. SuggestedRemedy Preferably change the hierarchy per the comment.	Is there a Are "SD- gestedRe Change t	any other mode FEC codeword emedy to "In the recei	e for the receive function? d blocks" different from "SD-I ve direction, the SD-FEC de	FEC codewords"	error-corrected	Cl <b>155</b> SC <b>155.2</b> . Ran, Adee Comment Type <b>ER</b>	3 P 43 Cisco Comment Status X		
Preferably change the hierarchy per the comment.	Is there a Are "SD- ngestedRe Change t codeword	any other mode FEC codeword emedy to "In the recei ds from the inc	e for the receive function? d blocks" different from "SD-I ve direction, the SD-FEC de coming data stream on the P	FEC codewords"	error-corrected	Cl <b>155</b> SC <b>155.2</b> . Ran, Adee Comment Type <b>ER</b> Subclauses 155.2.3	3 P 43 Cisco Comment Status X through 155.2.6 describe fun		
	Is there a Are "SD- ggestedRe Change t codeword are passe	any other mode FEC codeword emedy to "In the recei ds from the inc ed through a c	e for the receive function? d blocks" different from "SD-I ve direction, the SD-FEC de coming data stream on the P convolutional de-interleaver".	FEC codewords"	error-corrected	Cl 155 SC 155.2. Ran, Adee Comment Type ER Subclauses 155.2.3 placed below 155.2	3 P 43 Cisco Comment Status X 3 through 155.2.6 describe fun .2 in the hierarchy.	nctions within the P	CS. They should be
Proposed Response Response Status O	Is there a Are "SD- ggestedRe Change t codeword are passe	any other mode FEC codeword emedy to "In the recei ds from the inc ed through a c	e for the receive function? d blocks" different from "SD-I ve direction, the SD-FEC de coming data stream on the P convolutional de-interleaver".	FEC codewords"	error-corrected	Cl 155 SC 155.2. Ran, Adee Comment Type ER Subclauses 155.2.3 placed below 155.2 Alternatively, 155.2	3 P 43 Cisco Comment Status X 3 through 155.2.6 describe fun .2 in the hierarchy.	nctions within the P	CS. They should be
	Is there a Are "SD- ggestedRe Change t codeword are passe	any other mode FEC codeword emedy to "In the recei ds from the inc ed through a c	e for the receive function? d blocks" different from "SD-I ve direction, the SD-FEC de coming data stream on the P convolutional de-interleaver".	FEC codewords"	error-corrected	Cl 155 SC 155.2. Ran, Adee Comment Type ER Subclauses 155.2.3 placed below 155.2 Alternatively, 155.2 SuggestedRemedy	3 P 43 Cisco <i>Comment Status</i> X through 155.2.6 describe fun .2 in the hierarchy. 2 can be renamed "PCS over	nctions within the P rview", because tha	CS. They should be
	Is there a Are "SD- ggestedRe Change t codeword are passe	any other mode FEC codeword emedy to "In the recei ds from the inc ed through a c	e for the receive function? d blocks" different from "SD-I ve direction, the SD-FEC de coming data stream on the P convolutional de-interleaver".	FEC codewords"	error-corrected	Cl 155 SC 155.2. Ran, Adee Comment Type ER Subclauses 155.2.3 placed below 155.2 Alternatively, 155.2. SuggestedRemedy Preferably change t	3 P 43 Cisco <i>Comment Status</i> X 8 through 155.2.6 describe fun .2 in the hierarchy. .2 can be renamed "PCS over he hierarchy per the commen	nctions within the P rview", because tha	CS. They should be
	Is there a Are "SD- ggestedRe Change t codeword are passe	any other mode FEC codeword emedy to "In the recei ds from the inc ed through a c	e for the receive function? d blocks" different from "SD-I ve direction, the SD-FEC de coming data stream on the P convolutional de-interleaver".	FEC codewords"	error-corrected	Cl 155 SC 155.2. Ran, Adee Comment Type ER Subclauses 155.2.3 placed below 155.2 Alternatively, 155.2. SuggestedRemedy Preferably change t	3 P 43 Cisco <i>Comment Status</i> X 8 through 155.2.6 describe fun .2 in the hierarchy. .2 can be renamed "PCS over he hierarchy per the commen	nctions within the P rview", because tha	CS. They should be

C/ 155 SC 155.2.3

C/ 155 SC 155.2.3	3 P <b>43</b>	L <b>49</b>	# 42	C/ 155	SC	155.2.5.1	P 44	L 16	# 279
Ran, Adee	Cisco			Dawe, Pie	ers		Nvidia		
Comment Type E	Comment Status X			Comment	Туре	т	Comment Status X		
"generate, manipula	te and interpret blocks" is a sing	gle list.					ching described in 119.2.4		
SuggestedRemedy							ing of the transcoded block compensation between th		
Change to "generate	e, manipulate, and interpret bloc	cks"		GMP	metho	d with 1028	bit GMP words produces s	ignificant "packet	
Proposed Response	Response Status <b>O</b>			If rate	match	ing to the 2	matching in 119.2.4.1 wou 0 ppm line clock is done he	ere, the payload v	
							A receiver that processes ( s less to do.	GMP according to	0 155.2.6.8 will work
CI 155 SC 155.2.4	4 P 44	L 1	# 43				efer to avoid idle insertion/c	leletion at the exp	ense of packet jitter.
Ran, Adee	Cisco			Suggeste	dReme	dy			
Comment Type E	Comment Status X			Point	out tha	at rate matcl	ning can be done here, or i	n GMP, or both, v	with any relevant
	s "64B/66B code" but the mapp			cavea					
in 155.2.3. The final mentioned in 119.2.3	sentence in 155.2.4 points to 1 3.	19.2.3 which has	s already been	Proposed	Respo	onse	Response Status O		
	ribes the additional 257-bit bloc appropriate. The title of the pre			C/ 155	SC	155.2.5.2	P <b>44</b>	L <b>22</b>	# 208
blocks", fits better.	appropriate. The title of the pre	vious subciause	155.2.5, USE 01	Slavick, J	eff		Broadcom		
				Comment	Туре	TR	Comment Status X		
Also "codestream" is	s not defined.			Is the	re any	difference f	rom 119.2.4.2, doesn't app	ear so. Just state	e it's the same.
SuggestedRemedy	ntence, "The 64B/66B codestre	am is than trans	and ad into a	Suggeste	dReme	dv			
256B/257B stream, I	mapped to a 400GBASE-ZR fra smission", into 155.2.3, changi	ame using GMP,	and FEC bits added in			xt of 155.2.5 119.2.4.2."	.2 be "The 64B/66B to 256	B transcoder is id	dentical to that
	· · · ·	0		Proposed	Respo	onse	Response Status <b>O</b>		
Delete the remainde							,		
Proposed Response	Response Status O								
C/ 155 SC 155.2.4	4 <i>P</i> 44	L <b>5</b>	# 101						
Bruckman, Leon	Huawei								
Comment Type E Reference to 119.2.3	Comment Status X 3 is already provided in this con	text in the previo	ous sub clause (155.2.3)						
SuggestedRemedy	e 64B/66B code are provided ii	n 110 2 3 "							
		1113.2.3.							

Proposed Response Response Status **O** 

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

C/ 155 SC 155.2.5.2 Page 17 of 55 4/15/2023 10:08:51 AM

155 SC 155.2	.5.3 P 44	L 29	# 44	C/ 155	SC '	155.2.5.3	P	44	L 38	# 46
Ran, Adee	Cisco			Ran, Adee			Cise	o		
comment Type ER	Comment Status X			Comment	Гуре	Е	Comment Statu	S X		
"ITU-T G.709 (06/2		4	references (1.2) which	The gr	aphical	objects in	Figure 155-4 are	not aligne	d to each other.	
	Recommendation G.709" en a reason to include the date		references (1.3), which							trying to align them by s is equal to widths of
Also, please use th	e same name as in 1.3.			the oth	er rows	6.				
uggestedRemedy				Also in	Figure	155-5				
	Recommendation G.709", pre	eferably without the o	late, unless there is a	Suggested	•					
reason to lock a sp				Per co		•				
roposed Response	Response Status O			Proposed I		-	Deenenee Status	•		
				Fioposeu i	tespon	36	Response Status	0		
155 SC 155.2	.5.3 P 44	L 33	# 45							
Ran, Adee	Cisco			C/ <b>155</b>	SC '	155.2.5.3	Р	44	L 38	# 173
omment Type E	Comment Status X			Huber, The	omas		Nok	ia		
	olocks" the space digit groupi		er ambiguous. It could	Comment	Гуре	т	Comment Statu	5 X		
	on and some, which is likely r						v the columns are 1-based numberin		l - the material t	hat follows the figure
Also on P45 L10 (s numbers.	ame numbers) and in severa	l other places in the	draft with different	Suggested	Remed	y				
In cases such as th	nese, of numbers adjacent to use a thousand separator at a			the fiel 5140).	ds). Tal In the	ble 155-1 numbered	is assuming zero-l	based field btions, cla	ds (first GMP wo rify the bit positi	by the count of bits in ord starting with bit ions (e.g, if 0-based etc.)
,	0.57 hit blocks" in both second			Proposed I	Respon	se	Response Status	0		
Change to 10220.	257-bit blocks" in both cases.			•	•					
Consider removing ambiguity.	the space thousand separate	or in other places wł	nere it causes							

C/ 155 SC 155.2.5.3

C/155 SC 155.2.5.3 P 44 L 5	51 # <u>47</u> C	C/ 155 SC 15	5.2.5.3	P <b>45</b>	L 8	# 48
Ran, Adee Cisco	F	Ran, Adee		Cisco		
Comment Type ER Comment Status X	C	Comment Type E	R Comment S	tatus X		
"The first 1920 bits of the frame contain alignment markers (	· · /	Item 5 has "The mapped"	400GBASE-ZR PCS	payload of the	serialized stream	m of 257-bit blocks i
It is not a single alignment marker, so the abbreviation AM is not the per-lane alignment markers defined in 119.2.4.4.2 be this PCS.		This is quite con sentence.	fusing. It would help	eaders if existi	ing terminology i	is used in this
Using terminology from 400GBASE-R creates unnecessary to say that the first 1920 bits are identical to am_mapped as			paragraph, "the logica ling to 155.2.5.2" see			
If the goal is to keep the name identical to other documents,	then you could call it the AM	SuggestedRemedy				
field in the frame. This way AM becomes a notation rather the removed from 1.5.	nan an abbreviation, and it can		e "The 400GBASE-Z stream of tx_xcoded<			d stream of 257-bit
Also, the definitions of AM and PAD are repeated in 155.2.5 different words. It would be easier for readers to have it only suggestedRemedy			following the list, cha according to 155.2.			
Change list item 1 to: "The first 1920 bits of the frame are the AM field, defined in		Proposed Response	Response S	tatus <b>O</b>		
Change list item 2 to						
"The next 1920 bits of the frame are the pad field, defined in	1100.2.0.4.2	C/ 155 SC 15	5.2.5.3	P 45	L <b>12</b>	# 49
"The next 1920 bits of the frame are the pad field, defined in	F 100.2.0.4.2	Ran, Adee		Cisco	L 12	# 49
"The next 1920 bits of the frame are the pad field, defined in	F 100.2.0.4.2	Ran, Adee Comment Type E		Cisco	L <b>12</b>	# [49
"The next 1920 bits of the frame are the pad field, defined in roposed Response Response Status <b>O</b>	F	Ran, Adee		Cisco	L 12	# 49
"The next 1920 bits of the frame are the pad field, defined in oposed Response Response Status O 155 SC 155.2.5.3 P 45 L 8	F C	Ran, Adee Comment Type E "4 x 257"		Cisco Status X		# <u>49</u>
"The next 1920 bits of the frame are the pad field, defined in roposed Response Response Status O 155 SC 155.2.5.3 P 45 L 8 uber, Thomas Nokia	F 100.2.0.4.2 . F C B # 174	Ran, Adee Comment Type E "4 x 257"	E Comment S	Cisco Status X		# 49
"The next 1920 bits of the frame are the pad field, defined in proposed Response Response Status O 155 SC 155.2.5.3 P 45 L 8 Huber, Thomas Nokia Comment Type T Comment Status X Item 5 is written awkwardly. The intent is to define the paylo	F G B # 174 S ad area of the 400GBASE-ZR	Ran, Adee Comment Type E "4 x 257" x is used as a m SuggestedRemedy	E Comment S	Cisco tatus X	ces.	
"The next 1920 bits of the frame are the pad field, defined in Proposed Response Response Status O (7) 155 SC 155.2.5.3 P 45 L 8 Huber, Thomas Nokia Comment Type T Comment Status X	F F C B # 174 S ad area of the 400GBASE-ZR paragraph and other F	Ran, Adee Comment Type E "4 x 257" x is used as a m SuggestedRemedy	E Comment S ultiplication sign in se	Cisco tatus X veral other pla	ces.	
"The next 1920 bits of the frame are the pad field, defined in Proposed Response Response Status O Cl 155 SC 155.2.5.3 P 45 L 8 Huber, Thomas Nokia Comment Type T Comment Status X Item 5 is written awkwardly. The intent is to define the paylo frame. The details of how it is filled are covered in the next p subsequent text. "Bit 5141" implies that the first bit is numb not in line with what is in Table 155-1 below.	F F C B # 174 S ad area of the 400GBASE-ZR paragraph and other F	Ran, Adee Comment Type E "4 x 257" x is used as a m SuggestedRemedy Change x to a p	E Comment S ultiplication sign in se	Cisco tatus X veral other pla	ces.	
"The next 1920 bits of the frame are the pad field, defined in Proposed Response Response Status O C/ 155 SC 155.2.5.3 P 45 L & Huber, Thomas Nokia Comment Type T Comment Status X Item 5 is written awkwardly. The intent is to define the paylo frame. The details of how it is filled are covered in the next p subsequent text. "Bit 5141" implies that the first bit is numb	B       # 174         B       # 174         S       S         ad area of the 400GBASE-ZR         baragraph and other       F         ered 1 rather than 0, which is         t 5140 of the first row to end of	Ran, Adee Comment Type E "4 x 257" x is used as a m SuggestedRemedy Change x to a p	E Comment S ultiplication sign in se	Cisco tatus X veral other pla	ces.	

C/ 155 SC 155.2.5.3

C/ 155	SC 155.2	5.3 P 45	L <b>13</b>	# 50	C/ 155	SC	155.2.5.3	P <b>45</b>	L 16	# 52
Ran, Adee	;	Cisco			Ran, Ade	е		Cisco		
Comment	Туре Е	Comment Status X			Commen	Туре	TR	Comment Status X		
		data bits … or stuff bits" should be exchangeable with t	the "or" clause.		"at a	rate of 4	01.542892	2 Gb/s ± 100 ppm."		
<i>Suggested</i> Chang	•	led with" to "is filled with either	.11				•	B/256B transcoder output (v /256=401.5625 Gb/s, higher		
Proposed	Response	Response Status <b>O</b>			neith rang	er of the specific	400GMII, cation. The	00 ppm come from? nothing 400GBASE-R PCS, and 40 a 100 ppm is only specified f	0GBASE-R PM	A has a frequency -n which could be part
C/ 155	SC 155.2	5.3 <i>P</i> 45	L 16	# 51				not part of the PHY and doe rt 400 Gb/s operation" in 11		
Ran, Adee	9	Cisco			Suggeste	dRemed	dy			
Comment "The 2	51	<i>Comment Status</i> <b>X</b> ed data is a logically serial stre	am"		4000		a rate, whic	b/s ± 100 ppm" to "401.562 h may be within ±100 ppm o		

("nominal" should be inserted by the previous comment).

Proposed	Response	Response Status <b>O</b>		
C/ 155	SC 155.2.5.3	P 45	L 17	# 239
Brown, Ma	att	Huawei		

Comment Type E Comment Status X

The sentence says "The clocks for the PCS and the 400GBASE-ZR frame are independent." Does this mean it is not permitted for the PCS clock and frame clock to be derived from the same source? A 20 ppm reference clock might be used for both.

SuggestedRemedy

Perhaps is should state:

"The clocks for the PCS and the 400GBASE-ZR frame may be independent."

or

"It is not necessary for the the clocks for the PCS and the 400GBASE-ZR frame to be dependent."

Proposed Response Response Status 0

logically serial stream" does not make sense, and this rate (as a serial stream) is not feasible in the foreseeable future.

Which 257-bit encoded data is that? is it the transcoder output, the payload area of a fourframe multi-frame mentioned in the previous paragraph, or the full frame? I assume it's the transcoder output, because the alternatives have higher data rate.

#### SuggestedRemedy

Change "The 257-bit encoded data is a logically serial stream at a rate of" to "The nominal data rate required for the transcoder output is".

Proposed Response Response Status 0

C/ 155 SC 155.2.5.3	P 45	L 17	# 53	C/ 155 SC 155.2.5.3 P 45 L 28 # 175
Ran, Adee	Cisco			Huber, Thomas Nokia
Comment Type E Co.	mment Status X			Comment Type TR Comment Status X
"The clocks for the PCS and				The 3rd column of the Table 155-1 is not helpful as written (and may also be incorrect). GMP stuffing is done across a four-frame multiframe, using a word size of 1028 bits, so
This sentence would better b what's it all about.	e placed as the first se	ntence in the par	agraph, to clarify	(row, bit) by itself doesn't convey sufficient information about the location of the stuff wo
SuggestedRemedy				SuggestedRemedy
Move the quoted sentence to	the beginning of the p	aragraph.		To be useful, the frame number (within the multiframe) would have to be included (e.g., word 1 begins at frame 0, row 0, bit 5140, using 0-based indexing for all 3 indexes). Since
·	sponse Status <b>O</b>	5 1		these values can all be computed from the word numbers in column 2, and GMP implementations are algorithmic in any case, it may be simpler to just delete the 3rd column.
C/ 155 SC 155.2.5.3	P <b>45</b>	L 18	# 54	Proposed Response Response Status O
Ran, Adee Comment Type <b>TR</b> Co.	Cisco mment Status X			C/ 155 SC 155.2.5.4 P 45 L 41 # 55
Comment Type <b>TR</b> Co. "an average number of 1028-				
per multi-frame between ~10				Ran, Adee Cisco
The combination of tilde, spa	•	0 0		Comment Type <b>TR</b> Comment Status <b>X</b> The title "Alignment marker (AM) and pad insertion" suggests that an alignment marker inserted: but in practice it is not an alignment marker in the meaning of the 400GBASE-
The combination of tilde, spa accurate nor clear, and the a It would be sufficient (and con 10218.	verage has no importar	nce - what is imp	ortant is the range.	The title "Alignment marker (AM) and pad insertion" suggests that an alignment marker inserted; but in practice it is not an alignment marker in the meaning of the 400GBASE-PCS, but an alignment marker group (see the first paragraph of 119.2.4.4.2), or the vect am_mapped<1919.0> as described in the text of 155.2.5.4.1.
accurate nor clear, and the a It would be sufficient (and con 10218.	verage has no importar	nce - what is imp	ortant is the range.	The title "Alignment marker (AM) and pad insertion" suggests that an alignment marker inserted; but in practice it is not an alignment marker in the meaning of the 400GBASE-PCS, but an alignment marker group (see the first paragraph of 119.2.4.4.2), or the vector
accurate nor clear, and the a It would be sufficient (and coi 10218. SuggestedRemedy Change "This results in an av between ~10 214.7 and ~10 2	verage has no importar rrect) to state that the a verage number of 1028 217.1" to "As a result, t	nce - what is imp average number i -bit GMP words f	ortant is the range. is between 10214 and filled per multi-frame	The title "Alignment marker (AM) and pad insertion" suggests that an alignment marker inserted; but in practice it is not an alignment marker in the meaning of the 400GBASE- PCS, but an alignment marker group (see the first paragraph of 119.2.4.4.2), or the vect am_mapped<1919.0> as described in the text of 155.2.5.4.1. SuggestedRemedy
accurate nor clear, and the a It would be sufficient (and con 10218. SuggestedRemedy Change "This results in an av between ~10 214.7 and ~10 2 multi-frame is at least 10214	verage has no importar rrect) to state that the a verage number of 1028 217.1" to "As a result, t	nce - what is imp average number i -bit GMP words f	ortant is the range. is between 10214 and filled per multi-frame 28-bit GMP words per	The title "Alignment marker (AM) and pad insertion" suggests that an alignment marker inserted; but in practice it is not an alignment marker in the meaning of the 400GBASE- PCS, but an alignment marker group (see the first paragraph of 119.2.4.4.2), or the vect am_mapped<1919.0> as described in the text of 155.2.5.4.1. SuggestedRemedy Change the title of 155.2.5.4 to "AM and pad fields".
accurate nor clear, and the a It would be sufficient (and con 10218. SuggestedRemedy Change "This results in an av between ~10 214.7 and ~10 2 multi-frame is at least 10214 Proposed Response Res	verage has no importan rrect) to state that the a verage number of 1028 217.1" to "As a result, t and at most 10218".	nce - what is imp average number i -bit GMP words f	ortant is the range. is between 10214 and filled per multi-frame	The title "Alignment marker (AM) and pad insertion" suggests that an alignment marker inserted; but in practice it is not an alignment marker in the meaning of the 400GBASE- PCS, but an alignment marker group (see the first paragraph of 119.2.4.4.2), or the vect am_mapped<1919.0> as described in the text of 155.2.5.4.1. <i>SuggestedRemedy</i> Change the title of 155.2.5.4 to "AM and pad fields". Change the title of 155.2.5.4.1 to "AM field". Change the first paragraph of 155.2.5.4.1 to the following text: "The AM field is used to provide frame delineation for the 400GBASE-ZR frame. It is inserted before FEC encoding and removed after FEC decoding (see Figure 155–3). Th
accurate nor clear, and the a lt would be sufficient (and cor 10218. SuggestedRemedy Change "This results in an av between ~10 214.7 and ~10 2 multi-frame is at least 10214 Proposed Response Res	verage has no importan rrect) to state that the a verage number of 1028 217.1" to "As a result, t and at most 10218". sponse Status <b>O</b>	nce - what is imp average number i -bit GMP words f the number of 10	ortant is the range. is between 10214 and filled per multi-frame 28-bit GMP words per	The title "Alignment marker (AM) and pad insertion" suggests that an alignment marker inserted; but in practice it is not an alignment marker in the meaning of the 400GBASE- PCS, but an alignment marker group (see the first paragraph of 119.2.4.4.2), or the vect am_mapped<1919.0> as described in the text of 155.2.5.4.1. <i>SuggestedRemedy</i> Change the title of 155.2.5.4 to "AM and pad fields". Change the title of 155.2.5.4.1 to "AM field". Change the first paragraph of 155.2.5.4.1 to the following text: "The AM field is used to provide frame delineation for the 400GBASE-ZR frame. It is inserted before FEC encoding and removed after FEC decoding (see Figure 155–3). Th content of the AM field is am_mapped<1919:0> as defined in 119.2.4.4.2".
accurate nor clear, and the a It would be sufficient (and con 10218. SuggestedRemedy Change "This results in an av between ~10 214.7 and ~10 2 multi-frame is at least 10214 Proposed Response Res C/ 155 SC 155.2.5.3 Brown, Matt	verage has no importan rrect) to state that the a verage number of 1028 217.1" to "As a result, t and at most 10218". sponse Status <b>O</b> P <b>45</b> Huawei mment Status <b>X</b> sentence is not clear.	nce - what is imp average number i the number of 10 <i>L</i> 23	ortant is the range. is between 10214 and filled per multi-frame 28-bit GMP words per # 240	The title "Alignment marker (AM) and pad insertion" suggests that an alignment marker inserted; but in practice it is not an alignment marker in the meaning of the 400GBASE- PCS, but an alignment marker group (see the first paragraph of 119.2.4.4.2), or the vect am_mapped<1919.0> as described in the text of 155.2.5.4.1. <i>SuggestedRemedy</i> Change the title of 155.2.5.4 to "AM and pad fields". Change the title of 155.2.5.4.1 to "AM field". Change the first paragraph of 155.2.5.4.1 to the following text: "The AM field is used to provide frame delineation for the 400GBASE-ZR frame. It is inserted before FEC encoding and removed after FEC decoding (see Figure 155–3). Th content of the AM field is am_mapped<1919:0> as defined in 119.2.4.4.2".
accurate nor clear, and the a It would be sufficient (and con 10218. SuggestedRemedy Change "This results in an av between ~10 214.7 and ~10 3 multi-frame is at least 10214 Proposed Response Res Cl 155 SC 155.2.5.3 Brown, Matt Comment Type E Con The meaning of the following possible outcomes for the rat	verage has no importan rrect) to state that the a verage number of 1028 217.1" to "As a result, t and at most 10218". sponse Status <b>O</b> P <b>45</b> Huawei mment Status <b>X</b> sentence is not clear.	nce - what is imp average number i the number of 10 <i>L</i> 23	ortant is the range. is between 10214 and filled per multi-frame 28-bit GMP words per # 240	The title "Alignment marker (AM) and pad insertion" suggests that an alignment marker inserted; but in practice it is not an alignment marker in the meaning of the 400GBASE- PCS, but an alignment marker group (see the first paragraph of 119.2.4.4.2), or the vect am_mapped<1919.0> as described in the text of 155.2.5.4.1. <i>SuggestedRemedy</i> Change the title of 155.2.5.4 to "AM and pad fields". Change the title of 155.2.5.4.1 to "AM field". Change the first paragraph of 155.2.5.4.1 to the following text: "The AM field is used to provide frame delineation for the 400GBASE-ZR frame. It is inserted before FEC encoding and removed after FEC decoding (see Figure 155–3). Th content of the AM field is am_mapped<1919:0> as defined in 119.2.4.4.2".
accurate nor clear, and the a It would be sufficient (and con 10218. SuggestedRemedy Change "This results in an av between ~10 214.7 and ~10 3 multi-frame is at least 10214 Proposed Response Res C/ 155 SC 155.2.5.3 Brown, Matt Comment Type E Con The meaning of the following	verage has no importan rrect) to state that the a verage number of 1028 217.1" to "As a result, t and at most 10218". sponse Status <b>O</b> P <b>45</b> Huawei mment Status <b>X</b> sentence is not clear. tes and tolerances of th e 155–1 include all pose	nce - what is imp average number i a-bit GMP words f the number of 10 <i>L</i> 23 "The values in Ta he 400GBASE-ZF	ortant is the range. is between 10214 and filled per multi-frame 28-bit GMP words per # 240 # 240 able 155–1 include all R application."	The title "Alignment marker (AM) and pad insertion" suggests that an alignment marker inserted; but in practice it is not an alignment marker in the meaning of the 400GBASE- PCS, but an alignment marker group (see the first paragraph of 119.2.4.4.2), or the vect am_mapped<1919.0> as described in the text of 155.2.5.4.1. <i>SuggestedRemedy</i> Change the title of 155.2.5.4 to "AM and pad fields". Change the title of 155.2.5.4.1 to "AM field". Change the first paragraph of 155.2.5.4.1 to the following text: "The AM field is used to provide frame delineation for the 400GBASE-ZR frame. It is inserted before FEC encoding and removed after FEC decoding (see Figure 155–3). Th content of the AM field is am_mapped<1919:0> as defined in 119.2.4.4.2".

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

C/ 155 SC 155.2.5.4 Page 21 of 55 4/15/2023 10:08:51 AM

CI 155 SC 155.2	2.5.4 <i>P</i> 45	L <b>42</b>	# 176	C/ 155	SC 155.2.5.	5 P 46	L 10	# 178
Huber, Thomas	Nokia			Huber, Th	omas	Nokia		
Comment Type E	Comment Status X			Comment	Type <b>TR</b>	Comment Status X		
depends on the GM	entence implies that filling in the MP mapping process. That is tr dence on the GMP process. Al	ue for the GMP-re	lated OH, but the rest	about	the OH element d OH in figure 1	bry sentence of the clause s (except for 155.2.5.5.4, 55-4)		
SuggestedRemedy						OH fields" to "400GBASE	-7R overhead"	
Replace the existin fields of the 400GE	ng text with this: This clause sp BASE-ZR frame.	ecifies the alignm	ent markers and pad	Replac a 40-o	ce the introducto ctet frame struc	ory sentence with this text ture that uses a 4-frame r	: The 400GBASE-Z nultiframe, as show	n in Figure 155-5 and
Proposed Response	Response Status O			field in with th	Figure 155-4 is e description in	.1 through 155.2.5.5.3. Th described in 155.2.5.5.4. subclause 8.8 of OIF-400 f Figure 155-5 with this: C	The overhead is int ZR-02.0.	tended to be consistent
CI 155 SC 155.2	2.5.4.1 <i>P</i> 46	L 1	# 177	Proposed		-		SE-ZR OF lield
Huber, Thomas	Nokia			Fioposeu	Response	Response Status <b>O</b>		
Comment Type <b>T</b>	Comment Status X							
	where the AM field is and how	the variable am_m	apped<1919:0> is	C/ 155	SC 155.2.5.		L 28	# 209
inserted is not clea	и.			Slavick, Je		Broadcor	n	
	tence of the paragraph ("The A ww."); the location of the field is					Comment Status X k lines in the middle of th	e blocks representir	ng the different bits to
	ragraph ("The transmission ord am mapped<1919> ") At the			Suggested				
of page 45), add a	sentence to clarify the order of	the bits of am_ma	apped within the AM		e strange looking	g dark lines.		
	i.e., am_mapped<0:1919> are i	mapped into bits 0	-1919 of the AM field).	Proposed	Response	Response Status <b>O</b>		
Proposed Response	Response Status O					,		
				C/ 155	SC 155.2.5.	5 P 46	L 28	# 3
				Laubach,	Mark	Ciena		
				Comment	Type E	Comment Status X		
					obscured by wh cal text.	at seems to be change ba	ars in the figure - ca	nnot read all letters of
				Suggested	Remedy			
				all? If		clause 155 on is "new" m on, they can't obscure teo 5.		
				Proposed	•	Response Status 0		
				,				
		_,	· •···································					<b>_</b>
YPE: IR/technical red	quired ER/editorial required G	k/general required	i i/technical E/editorial G/	general		Cl	155	Page 22 of 55

C/ 155 SC 155.2.5.5

C/ 155 SC 155.2.5	.5.1 <i>P</i> 46	L 37	# 102	C/ 155	SC 155.2.5.	5.2 <i>P</i> 46	L <b>45</b>	# 56
Bruckman, Leon	Huawei			Ran, Adee		Cisco		
Comment Type E	Comment Status X			Comment 7	51	Comment Status X		
"as defined by" replat	oce "by" with "in"			"The R	FP bit indicate	s a remote 400GBASE-Z	R defect"	
SuggestedRemedy Replace: "as defined	by" with: "as defined in"				previous paragi t is set to 1.	raph RPF is defined as "r	emote PHY fault". Ar	nd it only indicates a
Proposed Response	Response Status <b>O</b>			(RPF, r	not RFP; and fa	ault, not defect)		
				Suggested	Remedy			
C/ 155 SC 155.2.5	.5.1 <i>P</i> 46	L 38	# 179	Change	e to "The RPF	bit is used to signal a ren	note 400GBASE-ZR	fault".
Huber, Thomas	Nokia			Proposed F	Response	Response Status O		
Comment Type TR	Comment Status X							
not correct. The over described as a 160-or helpful because the C FlexO uses it.	MFAS as being in "each 40-o head frame is 40 octets; the 4 ctet block. The reference to C DIF 400ZR/400GBASE-ZR app	-frame multifram 6.709.1 clause 9.2	e should not be 2.1 is not particulary	C/ <b>155</b> Maniloff, Er Comment 7 The sta	<i>уре</i> <b>Т</b>	5.2 P 46 Ciena Comment Status X bocal degrade bit indicates		# 244
SuggestedRemedy					degrade bit in			
	entence of the clause to say: h 400GBASE-ZR frame."	'It is an auto-wra	pping 8-bit counter that			eceived by the remote inte grade bit indicating the qu		
Proposed Response	Response Status O					als need to include rx_am (S. This section needs cl		vell as degrade
				Suggested	Remedy			
C/ 155 SC 155.2.5.	.5.2 <i>P</i> 46 Huawei	L <b>42</b>	# 241		the encoding c s would help	of the remote and local de	egrade bits. A figure h	tere showing the
Brown, Matt Comment Type E What is a "400GBASI	Comment Status X			Proposed F	Response	Response Status <b>O</b>		
SuggestedRemedy Define "400GBASE-Z	'R link" or use more appropria	te term.						
Proposed Response	Response Status <b>O</b>							
	, · · · · · · · · · · · ·							

C/ 155 SC 155.2.5.5.2

/ 155 SC 155.2.5.5.2 P 46 L 50 # 57	C/ 155 SC 155.2.5.3 P 47 L 12 # 180
an, Adee Cisco	Huber, Thomas Nokia
omment Type TR Comment Status X	Comment Type TR Comment Status X
The degrade bits seem to be defined for an 400GMII Extender (referring to 118.2.2) assuming it exists on both sides of the link. But the Extender is not part of the PHY and may or may not exist on either end.	The description of the JC information as "spread across the second, third, and fourth frames of the 160-octet block" is not correct. The overhead frame is 40 octets.
may of may not exist on enner end.	SuggestedRemedy
The two paragraphs following this one (P47 L1-8) indicate that the content these bits is conditional on whether an Extender exists.	Replace the sentence with: The justification control information is carried in octets 4 and of the second, third, and fourth frames of the multiframe, as shown in Figure 155-5.
But this paragraph says these bits "correspond" to tx_am_sf bits, which are only defined for PHY XS sublayers.	Proposed Response Response Status O
Note that 118.2.2 defines tx am sf<2> and tx am sf<1> using variables from the BASE-R	CI 155 SC 155.2.5.3 P 47 L 13 # 59
PCS (e.g., rx_rm_degraded), which do not exist in the ZR PCS, so the correspondence to	Ran, Adee Cisco
these bits is unclear. Defining STAT<6> and STAT<7> using tx_am_sf is a broken circular reference.	Comment Type ER Comment Status X
uqqestedRemedy	"OIF-400ZR-02.0" - seems like a normative reference.
Please rewrite this paragraph to clarify the definition of these bits, and especially what	SuggestedRemedy
happens when there is no PHY XS.	Add an entry in 1.3 as necessary.
Also, in the following paragraphs, define the bits STAT<6> and STAT<7> without referring to rx_am_sf.	Proposed Response Response Status <b>O</b>
roposed Response Response Status O	
/ 155 SC 155.2.5.3 P 47 L 10 # 58	
an, Adee Cisco	
omment Type E Comment Status X	
Hyphen in title as a separator. Also in the body of this subclause, as a separator between bit labels, several times.	
uggestedRemedy	
Change the hyphens to en dashes.	
roposed Response Response Status O	

C/ 155 SC 155.2.5.5.3

C/ 155 SC 155.2.5	5.5.3 P 47	L 19	# 181	C/ 155 SC 155.2.5	5.5.4 P 4	17 L 30	# 103
Huber, Thomas	Nokia			Bruckman, Leon	Huav	wei	
comment Type TR	Comment Status			Comment Type E	Comment Status	Х	
previously. There is r	or this paragraph - the G no mention of the CRC8	and CRC4 that prote	ct the information in	"The 400GBASE-ZR inconsistent singular		bit OH fields. This field	l is logically composed of
	spectively. The description be made to subcluase 8.9			SuggestedRemedy			
G.709. (note that tex	t in the OIF IA is not qui to JC3 and JC6, but do	e complete - it includ	les the CRC	Replace: "The 400G composed of" with: " are logically compos		ins 1280-bit OH fields. ame contains 1280-bit	This field is logically OH fields. These fields
SuggestedRemedy				Proposed Response	Response Status	•	
A description of the c	paragraphs as follows: operation of GMP is in Ar	nex D of ITU-T G.70	9. There are two	Floposed Response	Response Status	0	
GMP data words that	encoded into the overhea t will be transmitted durin	g the next multiframe	e, while ∑CnD(t)	C/ 155 SC 155.2.8	5.5.4 P 4	17 L 30	# 182
	he running remainder. Th ning serial stream rate a		value of $Cm(t) + \sum CnD(t)$	Huber, Thomas	Noki	а	
the GMP encoder pe	er multiframe.		Ũ	Comment Type E	Comment Status	Х	
	bits C1 through C14 of J		MSB in C1. ∑CnD(t) is	The first two sentend	ces can be combined a	nd made clearer	
encoded in bits D1 th	hrough D7 of JC4 and JC	5.					
	hrough D7 of JC4 and JC 3.9 of OIF-400ZR-02.0 an ncoding of JC1-JC6.		G.709 for additional	SuggestedRemedy Rewrite as: The 128 320-bit structures	-bit OH field in the 400	GBASE-ZR frame is lo	ogically composed of four
Refer to subclause 8	8.9 of OIF-400ZR-02.0 an	Annex D of ITU-T (	G.709 for additional	Rewrite as: The 128	-bit OH field in the 4000 Response Status		ogically composed of four
Refer to subclause 8 information on the er Proposed Response	8.9 of OIF-400ZR-02.0 an ncoding of JC1-JC6. <i>Response Status</i>	Annex D of ITU-T (	G.709 for additional # 60	Rewrite as: The 128- 320-bit structures.	Response Status	0	ogically composed of four # 62
Refer to subclause 8 information on the er Proposed Response	8.9 of OIF-400ZR-02.0 an ncoding of JC1-JC6. <i>Response Status</i>	d Annex D of ITU-T (		Rewrite as: The 128- 320-bit structures Proposed Response	Response Status	0 17 <i>L</i> 47	
Refer to subclause 8 information on the er Proposed Response 17 155 SC 155.2.5 Ran, Adee	8.9 of OIF-400ZR-02.0 an         ncoding of JC1-JC6.         Response Status         5.5.3       P 47	1 Annex D of ITU-T (		Rewrite as: The 128 320-bit structures Proposed Response Cl 155 SC 155.2.	Response Status	<b>0</b> 17 <i>L</i> 47 0	
Refer to subclause 8 information on the er Proposed Response (7 155 SC 155.2.5 Ran, Adee Comment Type E C1-14 bits	8.9 of OIF-400ZR-02.0 an neoding of JC1-JC6. <i>Response Status</i> 5.5.3 <i>P</i> 47 Cisco	1 Annex D of ITU-T (		Rewrite as: The 128 320-bit structures Proposed Response Cl 155 SC 155.2.8 Ran, Adee Comment Type E	Response Status 5.5.4 P 4 Cisco Comment Status uctures are 10-bit interl	0 17 L 47 X	
Refer to subclause 8 information on the er proposed Response 1 155 SC 155.2.5 Ran, Adee comment Type E C1-14 bits suggestedRemedy Change to C1-C14 o	8.9 of OIF-400ZR-02.0 an incoding of JC1-JC6. <i>Response Status</i> 5.5.3 <i>P</i> 47 Cisco <i>Comment Status</i>	d Annex D of ITU-T (		Rewrite as: The 128 320-bit structures Proposed Response Cl 155 SC 155.2. Ran, Adee Comment Type E "The four 320-bit stru in OIF-400ZR-02.0, I A figure is an illustra	Response Status 5.5.4 P 4 Cisco Comment Status uctures are 10-bit interl	0 17 <i>L</i> 47 o X leaved to form the 128 Readers of this draft (a	# <u>62</u> 0-bit OH fields as shown
Refer to subclause 8 information on the er roposed Response 7 155 SC 155.2.5 Ran, Adee comment Type E C1-14 bits uggestedRemedy Change to C1-C14 o	8.9 of OIF-400ZR-02.0 an neoding of JC1-JC6. <i>Response Status</i> 5.5.3 <i>P</i> 47 Cisco <i>Comment Status</i> or C<14:1>	d Annex D of ITU-T (		Rewrite as: The 128 320-bit structures Proposed Response Cl 155 SC 155.2. Ran, Adee Comment Type E "The four 320-bit stru in OIF-400ZR-02.0, I A figure is an illustra should have the sam	Response Status 5.5.4 P 4 Cisco Comment Status uctures are 10-bit interl Figure 14" tion of a specification.	O I7 L 47 o X leaved to form the 128 Readers of this draft (a r document.	# <u>62</u> 0-bit OH fields as shown
Refer to subclause 8 information on the er Proposed Response Cl 155 SC 155.2.5 Ran, Adee Comment Type E C1-14 bits SuggestedRemedy Change to C1-C14 o	8.9 of OIF-400ZR-02.0 an neoding of JC1-JC6. <i>Response Status</i> 5.5.3 <i>P</i> 47 Cisco <i>Comment Status</i> or C<14:1>	d Annex D of ITU-T (		Rewrite as: The 128 320-bit structures Proposed Response Cl 155 SC 155.2. Ran, Adee Comment Type E "The four 320-bit stru in OIF-400ZR-02.0, I A figure is an illustra should have the sam Similarly in other figu	Response Status 5.5.4 P 4 Cisco Comment Status Luctures are 10-bit interl Figure 14" tion of a specification. ne clarity as in the othe	O I7 L 47 o X leaved to form the 128 Readers of this draft (a r document.	# <u>62</u> 0-bit OH fields as shown
Refer to subclause 8 information on the er Proposed Response C/ 155 SC 155.2.5 Ran, Adee Comment Type E C1-14 bits SuggestedRemedy	8.9 of OIF-400ZR-02.0 an neoding of JC1-JC6. <i>Response Status</i> 5.5.3 <i>P</i> 47 Cisco <i>Comment Status</i> or C<14:1>	d Annex D of ITU-T (		Rewrite as: The 128 320-bit structures Proposed Response Cl 155 SC 155.2.5 Ran, Adee Comment Type E "The four 320-bit struin OIF-400ZR-02.0, 1 A figure is an illustra should have the sam Similarly in other figure SuggestedRemedy	Response Status 5.5.4 P 4 Cisco Comment Status Luctures are 10-bit interl Figure 14" tion of a specification. ne clarity as in the othe	0 17 L 47 o X leaved to form the 128 Readers of this draft (a r document. ragraph of 155.2.5.6).	# <u>62</u> 0-bit OH fields as shown and future standard)

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

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C/ 155 SC 155.2.5.6							
	P <b>47</b>	L 37	# 183	C/ 155 SC 155.2.5.7	P 48	L 10	# 185
Huber, Thomas	Nokia			Huber, Thomas	Nokia		
comment Type E C	Comment Status X			Comment Type E Co	omment Status X		
SC-FEC blocks are not 'cal 'Constructed' would be a be		re calculated, the	rest are not).	Missing an indefinite article			
SuggestedRemedy				SuggestedRemedy Change " MBAS requires a		ding." to " MB	AS rqeuires an
Change "provides the input the input data for the const			plocks" to "provides	additional 34 bits of padding			
·	esponse Status <b>O</b>			Proposed Response Re	sponse Status <b>O</b>		
C 155 SC 155.2.5.6	P 47	L <b>40</b>	# 184	C/ 155 SC 155.2.5.7	P 48	L 12	# 210
		L 40	# 104	Slavick, Jeff	Broadcom		
Huber, Thomas	Nokia			Comment Type TR Co	omment Status X		
Comment Type E C The formula should use ap SuggestedRemedy	Comment Status X propriate arithmetic symt	pols.		The 34-bit pad appears to be size. The SC-FEC is then u be specified as to what value	sing this to generate th	e parity data. So	it seems this should
Change the x to a multiplea	ation symbol and the / to	a division symbo	1	SuggestedRemedy			
<b>0</b>	esponse Status <b>O</b>	a anicion cymbol		change "34-bit pad" to "34-b	it pad of all zeroes"		
Toposed Response R				Proposed Response Re	sponse Status <b>O</b>		
C 155 SC 155.2.5.6	P 47	L <b>44</b>	# 61	C/ 155 SC 155.2.5.7	P 49	L 5	# 205
Ran, Adee	Cisco					L <b>3</b>	# 205
	Comment Status 🗙			Slavick, Jeff	Broadcom		
Digits should not be italicized				<b>3</b> 1	omment Status X	atation of how the	information parity
Digits should not be italicized There are many instances				Comment Type <b>TR</b> Co Figure 155-7 appears to be and pad bits are done. Eac	ncorrect in it's represer		
Digits should not be italiciz There are many instances SuggestedRemedy	in this draft.			Figure 155-7 appears to be and pad bits are done. Eac the 690 column bits. 23.8 *	ncorrect in it's represer h of the 5 parity blocks 5 = 119 which means t	plus CRC + MB/ he start of each p	AS utilize 23.8 rows o parity should begin on
Digits should not be italiciz There are many instances SuggestedRemedy Format digits as upright, al	in this draft.			Figure 155-7 appears to be and pad bits are done. Eac	ncorrect in it's represer h of the 5 parity blocks 5 = 119 which means t nown but completely fill	plus CRC + MBA he start of each p to the end of the	AS utilize 23.8 rows o parity should begin on a 119th row. The 6 x
Digits should not be italiciz There are many instances SuggestedRemedy Format digits as upright, al	in this draft. I instances.			Figure 155-7 appears to be and pad bits are done. Eac the 690 column bits. 23.8 * rows 24, 48, 72 and 96 as sl 119b pad is actually 6 more	ncorrect in it's represer h of the 5 parity blocks 5 = 119 which means t nown but completely fill	plus CRC + MBA he start of each p to the end of the	AS utilize 23.8 rows o parity should begin on a 119th row. The 6 x
Digits should not be italiciz There are many instances SuggestedRemedy Format digits as upright, al	in this draft. I instances.			Figure 155-7 appears to be i and pad bits are done. Eac the 690 column bits. 23.8 * rows 24, 48, 72 and 96 as si 119b pad is actually 6 more diagram.	ncorrect in it's represer h of the 5 parity blocks 5 = 119 which means the nown but completely fill columns of data and is x119 bit pad text and a es, remove the left light	plus CRC + MB/ he start of each p to the end of the just filler and sho rrow, make the E t gray box from B	AS utilize 23.8 rows o parity should begin on a 119th row. The 6 > puldn't be part of this Bj+3 black outline box j+3 and make the CR

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

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C/ 155 SC 155.2.5.8 P 50 L 3	# 211	C/ 155 SC 155.2.	5.10	P 50	L 18	# 214
Slavick, Jeff Broadcom		Slavick, Jeff	Br	roadcom		
Comment Type TR Comment Status X		Comment Type TR	Comment Stat	tus X		
The 10 970 bits (columns) of information is being expanded to 10 976 to FEC.	o match the SD-	In section 155.2.5.8 now stating it's 10 9		tion is 119 row	s of 10 970 bi	ts, but this section is
SuggestedRemedy		SuggestedRemedy				
Replace 155.2.5.8 with "A 6b pad is added to each row of the SC FEC		Change rows to colu	mns			
to 119 rows x 10 976 bits in order to match the block size of the 119B/1 encoder."	28B SD-FEC	Proposed Response	Response State	us <b>O</b>		
Proposed Response Response Status <b>O</b>						
		C/ 155 SC 155.2.	5.10	P 50	L 19	# 212
C/ 155 SC 155.2.5.9 P 50 L 13	# 186	Slavick, Jeff	Br	roadcom		
Huber, Thomas Nokia		Comment Type TR	Comment Stat	tus X		
Comment Type E Comment Status X		The convolutional in reference two and th		n the scrarmbl	ed stream. N	o need to back
51			ree operatione.			
x should be a multiplication symbol		SuggestedRemedy				
x should be a multiplication symbol SuggestedRemedy		SuggestedRemedy Replace the first ser	tence of 10.2.5.10 to			
x should be a multiplication symbol		SuggestedRemedy Replace the first ser synchronous scramt	tence of 10.2.5.10 to ler is processed by	the convolution	nal interleave	r and is organized into
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol		SuggestedRemedy Replace the first ser synchronous scramt	tence of 10.2.5.10 to ler is processed by bits where the first	the convolution 119 bits from t	nal interleave	
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol		SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119	tence of 10.2.5.10 to ler is processed by bits where the first	the convolution 119 bits from to o forth."	nal interleave	r and is organized into
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol Proposed Response Response Status <b>O</b>	# 215	SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119 following 199bits the	tence of 10.2.5.10 to ler is processed by bits where the first second block and s	the convolution 119 bits from to o forth."	nal interleave	r and is organized into
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol Proposed Response Response Status O Cl 155 SC 155.2.5.9 P 50 L 14	# 215	SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119 following 199bits the	tence of 10.2.5.10 to oler is processed by bits where the first second block and s <i>Response State</i>	the convolution 119 bits from to o forth."	nal interleave	r and is organized into is the first block, the
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol Proposed Response Response Status O C/ 155 SC 155.2.5.9 P 50 L 14 Slavick, Jeff Broadcom Comment Type TR Comment Status X		SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119 following 199bits the Proposed Response	tence of 10.2.5.10 to ler is processed by bits where the first second block and s <i>Response State</i>	the convolution 119 bits from t so forth." <i>us</i> <b>O</b>	nal interleave the scrambler	r and is organized into
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol Proposed Response Response Status O Cl 155 SC 155.2.5.9 P 50 L 14 Slavick, Jeff Broadcom Comment Type TR Comment Status X We should be explicit on the order of the bits that are scrambled in the status that are scrambled in that are scrambled in that are scrambled in the status th		SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119 following 199bits the Proposed Response Cl 155 SC 155.2.4	tence of 10.2.5.10 to ler is processed by bits where the first second block and s <i>Response State</i>	the convolution 119 bits from the forth." <i>us</i> <b>O</b> P <b>50</b> isco	nal interleave the scrambler	r and is organized into is the first block, the
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol Proposed Response Response Status O Cl 155 SC 155.2.5.9 P 50 L 14 Slavick, Jeff Broadcom Comment Type TR Comment Status X We should be explicit on the order of the bits that are scrambled in the Pad.		SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119 following 199bits the Proposed Response Cl 155 SC 155.2.4 Ran, Adee Comment Type ER "The effect of the co	tence of 10.2.5.10 to oler is processed by bits where the first second block and s <i>Response State</i> 5.10 Ci <i>Comment Stat</i> nvolutional interleav	the convolution 119 bits from the forth." <i>us</i> <b>O</b> <i>P</i> <b>50</b> isco <i>tus</i> <b>X</b> er shall be to c	hal interleave the scrambler <i>L</i> 22 listribute cons	r and is organized into is the first block, the # <u>63</u> secutive units of 119
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol Proposed Response Response Status O Cl 155 SC 155.2.5.9 P 50 L 14 Slavick, Jeff Broadcom Comment Type TR Comment Status X We should be explicit on the order of the bits that are scrambled in the Pad. SuggestedRemedy	SC-FEC frame plus	SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119 following 199bits the Proposed Response Cl 155 SC 155.2.4 Ran, Adee Comment Type ER "The effect of the co bits from the SC-FE	tence of 10.2.5.10 to oler is processed by bits where the first second block and s <i>Response State</i> 5.10 Ci <i>Comment Stat</i> nvolutional interleav	the convolution 119 bits from the forth." <i>us</i> <b>O</b> <i>P</i> <b>50</b> isco <i>tus</i> <b>X</b> er shall be to c	hal interleave the scrambler <i>L</i> 22 listribute cons	r and is organized into is the first block, the # <mark>63</mark>
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol Proposed Response Response Status O Cl 155 SC 155.2.5.9 P 50 L 14 Slavick, Jeff Broadcom Comment Type TR Comment Status X We should be explicit on the order of the bits that are scrambled in the status that are scrambled in that are scrambled in that are scrambled in the status th	SC-FEC frame plus	SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119 following 199bits the Proposed Response Cl 155 SC 155.2.4 Ran, Adee Comment Type ER "The effect of the co	tence of 10.2.5.10 to oler is processed by bits where the first second block and s <i>Response State</i> 5.10 Ci <i>Comment Stat</i> nvolutional interleav	the convolution 119 bits from the forth." <i>us</i> <b>O</b> <i>P</i> <b>50</b> isco <i>tus</i> <b>X</b> er shall be to c	hal interleave the scrambler <i>L</i> 22 listribute cons	r and is organized into is the first block, the # <u>63</u> secutive units of 119
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol Proposed Response Response Status O Cl 155 SC 155.2.5.9 P 50 L 14 Slavick, Jeff Broadcom Comment Type TR Comment Status X We should be explicit on the order of the bits that are scrambled in the Pad. SuggestedRemedy Insert the following as the second sentence of the last paragraph "The obits is bit 0 from row 1 to row 119, then bit 1 row 1 to row 119 and so or	SC-FEC frame plus	SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119 following 199bits the Proposed Response Cl 155 SC 155.2.4 Ran, Adee Comment Type ER "The effect of the co bits from the SC-FE	tence of 10.2.5.10 to oler is processed by bits where the first second block and s <i>Response State</i> 5.10 Comment Stat nvolutional interleav C encoded frame in description of a norm	the convolution 119 bits from the foroth." us <b>O</b> P 50 fisco trus <b>X</b> er shall be to co order to improve mative required	L 22 Listribute cons ve resilience of ment. There is	r and is organized into is the first block, the # <u>63</u> secutive units of 119 of the system to bursts
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol Proposed Response Response Status O C/ 155 SC 155.2.5.9 P 50 L 14 Slavick, Jeff Broadcom Comment Type TR Comment Status X We should be explicit on the order of the bits that are scrambled in the Pad. SuggestedRemedy Insert the following as the second sentence of the last paragraph "The orbits is bit 0 from row 1 to row 119, then bit 1 row 1 to row 119 and so or	SC-FEC frame plus	SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119 following 199bits the Proposed Response Cl 155 SC 155.2.3 Ran, Adee Comment Type ER "The effect of the co bits from the SC-FE of errors" This is a very vague	tence of 10.2.5.10 to oler is processed by bits where the first second block and s <i>Response State</i> 5.10 Comment Stat nvolutional interleav C encoded frame in description of a norm	the convolution 119 bits from the foroth." us <b>O</b> P 50 fisco trus <b>X</b> er shall be to co order to improve mative required	L 22 Listribute cons ve resilience of ment. There is	r and is organized into is the first block, the # <u>63</u> secutive units of 119 of the system to bursts
x should be a multiplication symbol SuggestedRemedy Use the multiplication symbol Proposed Response Response Status O Cl 155 SC 155.2.5.9 P 50 L 14 Slavick, Jeff Broadcom Comment Type TR Comment Status X We should be explicit on the order of the bits that are scrambled in the Pad. SuggestedRemedy Insert the following as the second sentence of the last paragraph "The orbits is bit 0 from row 1 to row 119, then bit 1 row 1 to row 119 and so or	SC-FEC frame plus	SuggestedRemedy Replace the first ser synchronous scramt 10 976 blocks of 119 following 199bits the Proposed Response Cl 155 SC 155.2.4 Ran, Adee Comment Type ER "The effect of the co bits from the SC-FE of errors" This is a very vague the second sentence	tence of 10.2.5.10 to oler is processed by bits where the first second block and s <i>Response State</i> 5.10 Comment Stat nvolutional interleav C encoded frame in description of a norm c ("shall be functional	the convolution 119 bits from the forth." <i>us</i> <b>O</b> <b>P 50</b> isco <i>tus</i> <b>X</b> er shall be to co order to improve mative requirent ally equivalent"	L 22 Listribute cons ve resilience of ment. There is	r and is organized into is the first block, the # <u>63</u> secutive units of 119 of the system to bursts

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C/ 155 SC 155.2.5.11	P <b>50</b>	L 30	# 137	C/ 155 SC 155.2.	5.11 <i>P</i> 50	L 30	# 213
Dudek, Mike	Marvell			Slavick, Jeff	Broadcom		
Comment Type <b>T</b> Adding 9 parity bits to the	Comment Status X block won't change the nu	mber of blocks.		Comment Type TR Is the SD-FEC code the size it not readil	Comment Status X eword is not 10.8 billion bits, b	ut the number of c	odewords created and
SuggestedRemedy				SuggestedRemedy	y doungaonable		
Change 10796 to 10976, Proposed Response F	Response Status <b>O</b>				tween the 796 and 128-bit at t d the 119-bit	the end of the first	paragraph. Also
				Proposed Response	Response Status O		
C 155 SC 155.2.5.11	P 50	L 30	# 187				
luber, Thomas	Nokia			C/ 155 SC 155.2.	5.11 <i>P</i> 50	L 33	# 260
Comment Type <b>T</b>	Comment Status X			Law, David	Hewlett Pa	ckard Enterprise	
The number of 128-bit blo	cks is incorrect			Comment Type E	Comment Status X	·	
SuggestedRemedy Change 10796 to 10976.					tx_codeword parameter of the tx_codeword parameter o		
Proposed Response F	Response Status <b>O</b>			SuggestedRemedy See comment.			
C 155 SC 155.2.5.11	P 50	L 30	# 216	Proposed Response	Response Status <b>O</b>		
Slavick, Jeff	Broadcom						
Comment Type <b>TR</b> Looks like you're adding 9 number of input blocks to			128b blocks. So the				
SuggestedRemedy Remove the 10 976 and 1	0 796 from the last senten	ce of the first pa	ragraph.				
	<b>0</b>	•					

Proposed Response Response Status **O** 

C/ 155 SC 155.2.5.11

V 155 SC 155.2.5.12	P 51	L 33	# 261	C/ 155 SC 155.2.6.2	P <b>52</b>	L 14	# 104
.aw, David	Hewlett Pack	ard Enterprise		Bruckman, Leon	Huawei		
Comment Type T	Comment Status X			Comment Type T Col	mment Status X		
Subclause 155.2.5.11 'Har are sent to the 400GBASE PMA_IS_UNITDATA.reque	-ZR PMA sublayer using est.'. Suggest that Figure	the tx_codeword	parameter of the	"as depicted in the left hand s text is a left over of D2.0 that resolution			
should be updated to reflect	at this.			SuggestedRemedy			
SuggestedRemedy	a of Figure 455 O obsuid	ha ann statad with		Delete "as depicted in the left	hand side of Figure 1	55–8"	
[1] The arrow at the bottom 'PMA_IS_UNITDATA.requ [2] c0, c118, c119 and c12	est'. ?7 above 'SD-FEC codew	ord' should be cha		Proposed Response Res	ponse Status O		
tx_codeword[0], tx_codeword[3] The text 'Each SD-FEC	codeword from the SD-F	EC encoder c = [	c0, c1,,c127], is	C/ 155 SC 155.2.6.2	P <b>52</b>	L 14	# 217
mapped' in subclause 1 passed across the PMA se				Slavick, Jeff	Broadcom		
tx_codeword[127:0] param [4] Change all the other ins	eter of the 'PMA_IS_UNI	ITDATA.request pr	imitive is mapped'.	Comment Type <b>TR</b> Con Figure 155-8 is the Transmit	<i>mment Status</i> <b>X</b> bit order diagram.		
tx_codeword[subscript]. Proposed Response R	esponse Status <b>O</b>			SuggestedRemedy Delete everything after the wo	ord bits		
				Proposed Response Res	ponse Status <b>O</b>		
V 155 SC 155.2.6.1	P <b>52</b>	L 9	# 64				
Ran, Adee	Cisco			C/ 155 SC 155.2.6.4	P 52	L 23	# 218
<b>3</b> 1	Comment Status X			Slavick, Jeff	F 32 Broadcom	L 23	# 210
119 bit				,	mment Status X		
<i>uggestedRemedy</i> 119-bit				The 10 976 x 119bits have be		o this point.	
	Response Status <b>O</b>			SuggestedRemedy Change rows to blocks			
				Proposed Response Res	ponse Status <b>O</b>		
155 SC 155.2.6.2	P <b>52</b>	L 13	# 65				
Ran, Adee	Cisco						
Comment Type E ( "produces" does not gramm	Comment Status X matically match "shall per	rform"					
SuggestedRemedy Change to "produce"							

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

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	5 P 52	L 31	# 138	C/ 155	SC 155.2.6.5	<i>P</i> 52	L 36	# 67
udek, Mike	Marvell			Ran, Adee		Cisco		
omment Type E	Comment Status X			Comment T		Comment Status X		
The sentence is some	what confusing due to "signation of the second s	al" being both a n	oun and verb.	"The P	CS counts the r	number of bits corrected by	y the SC-FEC deco	oder"
	n "to" and "signal" or use simi e of a degraded received sigr		.2.4.21.1 and change it			number of symbol errors d bit errors, not symbol error		
oposed Response	Response Status <b>O</b>					s (usually corrected, but w		
155 SC 155.2.6.	5 <i>P</i> 52	L 32	# 66	Then o	n L42: "if the nu	mber of symbol errors is I	ess than"	
an, Adee	Cisco			The tex	t should be con	sistent - bit errors, not syr	nbols; and not nec	essarily corrected.
mment Type ER	Comment Status X			Suggested	Remedy			
"FEC_degraded_SER one underscore too m	_ /_					ints the number of bits cor er of bit errors detected by		
ggestedRemedy Change to "FEC_degr	aded_SER_ability variable"				e "the number o d is increased".	f symbol errors detected is	s increased" to "the	e number of bit errors
oposed Response					e "if the number	of symbol errors" to "if the	e number of bit erro	ors detected".
oposed Response	Response Status <b>O</b>			Change Proposed R		of symbol errors" to "if the <i>Response Status</i> <b>O</b>	e number of bit erro	ors detected".
oposed Response	Response Status O			•		Response Status <b>O</b>	L 37	# <u>68</u>
oposed Response	Response Status 0			Proposed R	Response	Response Status <b>O</b>		
oposed Response	Response Status 0			Proposed R Cl 155	SC <b>155.2.6.5</b>	Response Status O		
oposed Response	Response Status 0			Proposed R C/ <b>155</b> Ran, Adee Comment T	SC <b>155.2.6.5</b>	Response Status 0	L 37	# 68
oposed Response	Response Status 0			Proposed R Cl 155 Ran, Adee Comment T "in cons 155.5)"	SC 155.2.6.5 SC 155.2.6.5 ype E secutive non-ov	Response Status O P 52 Cisco Comment Status X	L 37	# 68
oposed Response	Response Status 0			Proposed R Cl 155 Ran, Adee Comment T "in cons 155.5)" The wo In claus	SC 155.2.6.5 SC 155.2.6.5 Secutive non-ov rding "of FEC_c se 119 the corre	Response Status O P 52 Cisco Comment Status X rerlapping SC-FEC frames	L 37 of FEC_degraded s unclear.	# <u>68</u> _SER_interval (see
oposed Response	Response Status 0			Proposed R Cl 155 Ran, Adee Comment T "in cons 155.5)" The wo In claus	SC 155.2.6.5 SC 155.2.6.5 Secutive non-ov rding "of FEC_c se 119 the corre egraded_SER_i	Response Status 0 P 52 Cisco Comment Status X rerlapping SC-FEC frames degraded_SER_interval" is esponding wording is "in co	L 37 of FEC_degraded s unclear.	# <u>68</u> _SER_interval (see
oposed Response	Response Status 0			Proposed R Cl 155 Ran, Adee Comment T "in cons 155.5)" The wo In claus FEC_de SuggestedR Change	SC 155.2.6.5 SC 155.2.6.5 Secutive non-ov rding "of FEC_c se 119 the corre egraded_SER_ Remedy	Response Status O P 52 Cisco Comment Status X rerlapping SC-FEC frames degraded_SER_interval" is responding wording is "in co interval codewords (see 1 tive non-overlapping block	<i>L</i> <b>37</b> of FEC_degraded s unclear. onsecutive nonover 19.3.1),"	# <u>68</u> _SER_interval (see

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
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 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 155.2.6.5

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 155.2.6.5

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C/ 155 SC 155.2.	6.7 <i>P</i> 53	L 1	# 69	C/ 155	SC 155.2.6.7	P 53	L <b>12</b>	# 189
Ran, Adee	Cisco			Huber, Tho	omas	Nokia		
Comment Type E	Comment Status X			Comment 7	Type <b>TR</b>	Comment Status X		
"detect and removal	" in heading					eing overloaded in the text -		
SuggestedRemedy						etimes it is referring to specif ore clear to use "OH field" to		
Change to "detection	n and removal"			Suggested				
Proposed Response	Response Status 0			Change	•			
				Once	AM lock has been	en acquired, the OH fields Ml		JC1-JC6 can be
C/ 155 SC 155.2.	6.7 <i>P</i> 53	L 8	# 105	extract To:	ed for use by the	e GMP de-mapper and for er	ror signaling.	
Bruckman, Leon	Huawei	20	# 105	Once A		n acquired, the MFAS, status field for use by the GMP de-		
Comment Type T	Comment Status X			Proposed F		Response Status <b>O</b>		shor signaling.
There is an entry in	the PICS to test this function, b	ut there is no "s	shall"	i ioposeu i	(esponse			
SuggestedRemedy								
Replace: "the AM ar	nd OH fields need to be" with: "I	he AM and OH	fields shall be"	C/ 155	SC 155.2.6.7	P 53	L 15	# 190
Proposed Response	Response Status <b>O</b>			Huber, Tho	omas	Nokia		
				Comment T	Туре Е	Comment Status X		
				There i	is only one 1280	-bit overhead field		
C/ 155 SC 155.2.	6.7 <i>P</i> 53	L 12	# 242	Suggested	Remedy			
Brown, Matt	Huawei			Change	e "overhead field	ds" to "overhead field"		
Comment Type E	Comment Status X			Proposed F	Response	Response Status <b>O</b>		
	is context is deprecated per sty what may happen, or what migh		ot clear if this is stating			,		
SuggestedRemedy				Cl 155	SC 155.2.6.7	.1 <i>P</i> 53	L 19	# 191
	ock has been acquired, the OH by the GMP de-mapper and fo			Huber, Tho	omas	Nokia		
To	by the Givin de-Mapper and to	i enor signaling		Comment 7	Туре Т	Comment Status X		
"Once AM lock has	been acquired, the OH fields M		JC1-JC6 are extracted	The de	escription of MFA	AS alignment is more comple	x than it needs to	o be
for use by the GMP	de-mapper and for error signali	ng."		Suggested	Remedy			
	been acquired, the OH fields M the GMP de-mapper and for er		d JC1-JC6 may be	Change	e the text of the		-	
Proposed Response	Response Status <b>O</b>					ame multiframe is achieved upport recovery of other over		

Proposed Response Response Status **O** 

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

C/ 155 SC 155.2.6.7.1 Page 31 of 55 4/15/2023 10:08:51 AM

C/ 155 SC 155.2.6.7.1 P 53	L <b>22</b>	# 106	C/ 155	SC 155.2.6.7.	2 P 53	L <b>42</b>	# 71
Bruckman, Leon Huawei			Ran, Adee		Cisco		
Comment Type E Comment Status X			Comment Ty	rpe <b>TR</b>	Comment Status X		
"to determine the contents of the 5th and 6th octets correct, but in the figure these octest are numnbered confusion					e more explicit about what h n there is no input signal.	nappens in a PHY	connected to a
SuggestedRemedy					that the PCS sends local f enerate local fault signaling		
Replace: "to determine the contents of the 5th and 6 "to determine the contents of octets number 4 and 5			XS. Mor	eover, there is i	no IS_SIGNAL.indication a	cross the 400GMI	
Proposed Response Response Status O			In evictiv	a optical made	les that are connected with		a DCS (as part of the
			PHY, no	t an extender),	it is common to squelch th	e module electrica	ıl output (aka disable
CI 155 SC 155.2.6.7.2 P 53	L 38	# 245			hen there is no optical inpu d to by PCS via PMA.IS_S		
Maniloff, Eric Ciena					bliant behavior when the Al		
Comment Type T Comment Status X			Ignoring	this datail may	load to "ourprising" modul	aimplomontationa	that aqualah tha
For link degrace monitoring, the CFEC not SC-FEC	BER is used				lead to "surprising" module here is no input, and may o		
SuggestedRemedy			that sticl	to the standar	d.		
Change "Pre-FEC bit error ratio monitors within the	SC-FEC" to "Pre	-FEC bit error ratio	SuggestedR	emedy			
monitors within the CFEC"					ent, please add a NOTE ei Y XS:IS UNITDATA.indica		
Proposed Response Response Status O					SIGNAL.indication is FAIL.		squeich the 400GA
			Proposed Re	esponse	Response Status <b>O</b>		
CI 155 SC 155.2.6.7.2 P 53	L <b>41</b>	# 70					
Ran, Adee Cisco			C/ 155	SC 155.2.6.7.	2 P 53	L <b>46</b>	# 246
Comment Type TR Comment Status X			Maniloff, Eri	0	Ciena		
"DSP framing loss" isn't defined anywhere. This is the	he only place wh	ere "DSP" is used.	Comment Ty	pe T	Comment Status X		
			In addition	on to passing S	TAT<7> to tx_am_sf_1, de	egrade of the recei	ved CFEC is include
			SuggestedR	emedy			
Define it or replace with what it's intended to mean.			Suggesteur	enneuy			
SuggestedRemedy Define it or replace with what it's intended to mean. Proposed Response Response Status <b>O</b>			Update ' passed t	and local degra to tx_am_sf<1>	ade in STAT<7> is in the transmit direction of he degrade detected by C		ayer" toindicate

C/ 155 SC 155.2.6.7.2

C/ 155 SC 155.2.6	6.8 <i>P</i> 54	L 3	# 192	C/ 155 SC 155.2	.9.13	P 51	L <b>43</b>	# 188
Huber, Thomas	Nokia			Huber, Thomas		Nokia		
omment Type TR	Comment Status X			Comment Type T	Comment S	Status X		
parameters have not that were mentioned	or most of what is in this para- been mentioned before, there in the tx clause. Since GMP said about the details here, th	e is no mention of is being used by r	f Cm(t) and ∑CnD(t)	stream of idle chara SuggestedRemedy				MII being a constant lock.
described in ITU-T G	e subclause to read: I shall decode the JC1-JC6 oc .709 Annex D, recover the pa I028-bit data blocks that were	rameters Cm(t) a	nd ∑CnD(t), and use	400GMII is a contro with The scrambled idle continuous stream	bl block with all idle test pattern is gen of idle control char	e characters. herated by appracters at the	plying a signal co	put to the PCS at the nsisting of a
roposed Response	Response Status 0			Proposed Response	Response S	tatus O		
				C/ 155 SC 155.3	.1	P <b>54</b>	L <b>54</b>	# 73
155 SC 155.2.6	5.10 <i>P</i> 54	L <b>21</b>	# 72	Ran, Adee		Cisco		
an Adaa	Cisco							
omment Type E	Cisco <i>Comment Status</i> X " should be "shall decode 66-l	bit blocks" to aligr	n with 155.2.6.9 and	Comment Type ER "the Physical Media implementation kno	own as 400GBASE	MA) sublayer -ZR"		Physical Layer
omment Type E "shall decode blocks' avoid ambiguity.	Comment Status X	-	n with 155.2.6.9 and	"the Physical Media implementation kno Too wordy. This is	um Attachment (PN own as 400GBASE	MA) sublayer -ZR"		Physical Layer
omment Type E "shall decode blocks" avoid ambiguity. This applies to 3 insta	Comment Status X	-	n with 155.2.6.9 and	"the Physical Media implementation kno Too wordy. This is SuggestedRemedy	um Attachment (PN own as 400GBASE a single PHY, not a	MA) sublayer -ZR" a family of PH	-łΥs.	
<i>comment Type</i> <b>E</b> "shall decode blocks" avoid ambiguity. This applies to 3 insta	Comment Status X " should be "shall decode 66-l ances of "blocks" in this subc	-	n with 155.2.6.9 and	"the Physical Media implementation kno Too wordy. This is <i>SuggestedRemedy</i> Change to "the Phy	um Attachment (PM own as 400GBASE a single PHY, not a vsical Medium Atta	MA) sublayer -ZR" a family of PH chment (PMA	-łΥs.	Physical Layer
omment Type E "shall decode blocks" avoid ambiguity. This applies to 3 insta uggestedRemedy Change per commen	Comment Status X " should be "shall decode 66-l ances of "blocks" in this subc	-	n with 155.2.6.9 and	"the Physical Media implementation kno Too wordy. This is SuggestedRemedy	um Attachment (PN own as 400GBASE a single PHY, not a	MA) sublayer -ZR" a family of PH chment (PMA	-łΥs.	
omment Type E "shall decode blocks" avoid ambiguity. This applies to 3 insta uggestedRemedy Change per commen	Comment Status X " should be "shall decode 66-l ances of "blocks" in this subc	-	n with 155.2.6.9 and	"the Physical Media implementation kno Too wordy. This is <i>SuggestedRemedy</i> Change to "the Phy	um Attachment (PM own as 400GBASE a single PHY, not a vsical Medium Atta <i>Response S</i>	MA) sublayer -ZR" a family of PH chment (PMA	-łΥs.	
Comment Type E "shall decode blocks" avoid ambiguity. This applies to 3 insta SuggestedRemedy Change per commen	Comment Status X " should be "shall decode 66-l ances of "blocks" in this subc	-	n with 155.2.6.9 and	"the Physical Media implementation kno Too wordy. This is SuggestedRemedy Change to "the Phy Proposed Response	um Attachment (PM own as 400GBASE a single PHY, not a vsical Medium Atta <i>Response S</i>	MA) sublayer -ZR" a family of PH chment (PMA <i>tatus</i> <b>O</b>	HYs. ∖) sublayer for the	400GBASE-ZR PHY
omment Type E "shall decode blocks' avoid ambiguity. This applies to 3 insta uggestedRemedy Change per commen	Comment Status X " should be "shall decode 66-l ances of "blocks" in this subc	-	n with 155.2.6.9 and	"the Physical Media implementation kno Too wordy. This is SuggestedRemedy Change to "the Phy Proposed Response Cl 155 SC 155.3 Bruckman, Leon Comment Type T	um Attachment (PM own as 400GBASE a single PHY, not a rsical Medium Atta <i>Response S</i> .1.3 <i>Comment S</i> rmbol rate of the in	MA) sublayer ZR" a family of PH chment (PMA <i>tatus</i> <b>O</b> <i>P</i> <b>55</b> Huawei Status <b>X</b>	HYs. A) sublayer for the <i>L</i> <b>5</b>	400GBASE-ZR PHY
"shall decode blocks' avoid ambiguity. This applies to 3 insta SuggestedRemedy	Comment Status X " should be "shall decode 66-l ances of "blocks" in this subc	-	n with 155.2.6.9 and	"the Physical Media implementation kno Too wordy. This is SuggestedRemedy Change to "the Phy Proposed Response Cl 155 SC 155.3 Bruckman, Leon Comment Type T "Sampling at the sy	um Attachment (PM own as 400GBASE a single PHY, not a rsical Medium Attac <i>Response S</i> .1.3 <i>Comment S</i> rmbol rate of the in ct in 155.3.3.2.1.	MA) sublayer ZR" a family of PH chment (PMA <i>tatus</i> <b>O</b> <i>P</i> <b>55</b> Huawei Status <b>X</b>	HYs. A) sublayer for the <i>L</i> <b>5</b>	400GBASE-ZR PHY # 107

C/ 155 SC 155.3.1.3

C/ 155 SC 155.3	1.3 <i>P</i> 55	L 10	# 193	C/ 155 SC 155.3.2	2.1 <i>P</i> 57	L <b>41</b>	# 196
luber, Thomas	Nokia			Huber, Thomas	Nokia		
omment Type E	Comment Status X			Comment Type E	Comment Status X		
polarization mode d being incorrectly pa Rather than an awk	d comma separating a list of tw ispersion". Presumably the cor rsed as "state of (polarization a ward comma, the 'both and' c	nma was inserte nd polarization m	d to avoid the phrase ode dispersion)".	In all of the rx_codew than * <i>SuggestedRemedy</i> Replace all instances	ord expressions, the multiplic of * with ×	ation symbol × sh	ould be used rather
SuggestedRemedy				Proposed Response	Response Status <b>O</b>		
	g state of polarization, and pola of polarization and polarization						
Proposed Response	Response Status O	·	,	C/ 155 SC 155.3.2. Huber, Thomas	2.1 <i>P</i> 57 Nokia	L <b>43</b>	# <u>1</u> 95
C/ 155 SC 155.3	1.3 <i>P</i> 55	L 20	# 74	Comment Type T	Comment Status X		
Ran, Adee	Cisco			The closing parenthe	sis for the second index is in t	the wrong place	
Comment Type E Item k starts with "F	<i>Comment Status</i> <b>X</b> Provide". To align with all other it	ems, it should b	e "Providing".	<i>SuggestedRemedy</i> Change (k*4+1*m) to	(k*4+1)*m		
S <i>uggestedRemedy</i> Change per comme	nt.			Proposed Response	Response Status <b>O</b>		
Proposed Response	Response Status O			C/ 155 SC 155.3.2	2.1 <i>P</i> 57	L 43	# 108
				Bruckman, Leon	Huawei	- 10	
C/ 155 SC 155.3	1.3 <i>P</i> 56	L 10	# 194	Comment Type <b>T</b>	Comment Status X		
Huber, Thomas	Nokia			Typo in equation: (k*4	l+1*m)		
Comment Type T	Comment Status X			SuggestedRemedy	······································		
	/ coding and polarization distribute ine text that follows; the Gray code			Replace: "(k*4+1*m)"	, , , , , , , , , , , , , , , , , , ,		
	DP16QAM symbols.	<u>.</u>		Proposed Response	Response Status O		
SuggestedRemedy							
Combine the Gray of process in the figure	coding, symbol interleaving, and e.	polarization dist	ribution into a single				
Proposed Response	Response Status O						

C/ 155 SC 155.3.2.2.1 Page 34 of 55 4/15/2023 10:08:51 AM

	P 57	L 51	# 75	C/ 155 SC 155.3.	.3 <i>P</i> 58	L 34	# 197		
Ran, Adee	Cisco			Huber, Thomas	Nokia				
omment Type <b>T</b> Co "for each 128-bit SD-FEC co But according to 155.3.2.2.1 the SD-FEC decoder in the F	, the message has 128	3 x m bits. The 12	8 bits are generated in	transfer between PC between PCS and F	Comment Status X veen PCS and PMA seems to CS and PMA has 128 bits, or 1 PMA would be 1/16 the DP-160	6 DP-16QAM sym	nbols, so the rate		
uggestedRemedy				1/128 the DP-16QA	M bit rate .				
Change to "for each SD-FEC	C codeword".			SuggestedRemedy					
roposed Response Res	sponse Status <b>O</b>			-	16, or change "DP-16QAM sym	nbol rate" to "DP-1	I6QAM bit rate".		
				Proposed Response	Response Status O				
155 SC 155.3.2.3.1	P 58	L 15	# 220	C/ 155 SC 155.3.	3 <i>P</i> 58	L <b>34</b>	# 77		
rown, Matt	Huawei			Ran, Adee	Cisco				
	omment Status X	de avride		Comment Type ER	Comment Status X				
The word "can" in this contex	xi is deprecated per siy	/ie guide.		· · · · · · · · · · · · · · · · · · ·	juate; the interface between the	e PMA and the PM	MD is nothing like the		
uggestedRemedy				interface with the P					
Change "The SIGNAL_OK p To: "The SIGNAL_OK paran				This should be a se	parate paragraph from the PC	S interface.			
Proposed Response Response Status O				SuggestedRemedy Delete "Likewise" and add a paragraph break.					
C/ 155 SC 155.3.3	P 58	L 31	# 76	Proposed Response	Response Status O				
	P 58 Cisco	L 31	# [76	Proposed Response	Response Status <b>O</b>				
an, Adee		L 31	# 76	Proposed Response	, -	L 36	# 198		
an, Adee comment Type ER Co "The input (transmit direction	Cisco omment Status X n) or output (receive dir	rection) between t	he PMA and PCS	 	, -	L <b>36</b>	# 198		
Ran, Adee Comment Type <b>ER</b> Co	Cisco omment Status X n) or output (receive dir	rection) between t	he PMA and PCS	C/ 155 SC 155.3.	3 P 58	L 36	# 198		
Ran, Adee Comment Type ER Co "The input (transmit directior	Cisco comment Status X n) or output (receive dir deword at 1/128 the DI ections do not carry the erface.	rection) between f P-16QAM symbol e same number o	he PMA and PCS rate"	Cl 155 SC 155.3. Huber, Thomas Comment Type T The last sentence h not quite right since and PMD are quite not clear if the last of	3 P 58 Nokia Comment Status X has a few issues. The use of "L the interface between PCS an different. The list of componer clause about nominal signaling	ikewise" to begin t ad PMA and the in hts should have 'au rate is intended to	the sentence seems terface between PM nd' rather than 'or'. I o mean the 4		
an, Adee omment Type ER Co "The input (transmit directior carries a 128-bit SD-FEC co The transmit and receive direction transaction of the service int	Cisco comment Status X n) or output (receive dir deword at 1/128 the DI ections do not carry the erface. ords, not a single codew	rection) between f P-16QAM symbol e same number o	he PMA and PCS rate"	Cl 155 SC 155.3. Huber, Thomas Comment Type T The last sentence h not quite right since and PMD are quite not clear if the last of	3 P 58 Nokia Comment Status X has a few issues. The use of "L the interface between PCS an different. The list of componer clause about nominal signaling e the same nominal rate, or that	ikewise" to begin t ad PMA and the in hts should have 'au rate is intended to	the sentence seems terface between PM nd' rather than 'or'. I o mean the 4		
Ran, Adee Comment Type ER Co "The input (transmit directior carries a 128-bit SD-FEC co The transmit and receive direction transaction of the service int The interface carries codewo Also, syntax can be improve	Cisco comment Status X n) or output (receive dir deword at 1/128 the DI ections do not carry the erface. ords, not a single codew	rection) between f P-16QAM symbol e same number o	he PMA and PCS rate"	Cl 155 SC 155.3. Huber, Thomas Comment Type T The last sentence h not quite right since and PMD are quite not clear if the last o components all have	3 P 58 Nokia Comment Status X has a few issues. The use of "L the interface between PCS an different. The list of componer clause about nominal signaling e the same nominal rate, or that	ikewise" to begin t ad PMA and the in hts should have 'au rate is intended to	the sentence seems terface between PM nd' rather than 'or'. I o mean the 4		
Ran, Adee Comment Type ER Co "The input (transmit directior carries a 128-bit SD-FEC co The transmit and receive direction transaction of the service int The interface carries codewo	Cisco comment Status X n) or output (receive dir deword at 1/128 the DI ections do not carry the erface. ords, not a single codev d. e to "The input (transmi 3 the DP-16QAM symb A carries 128 x m bits	rection) between f P-16QAM symbol e same number o word. it direction) of the ol rate from the P	the PMA and PCS rate" f bits on each PMA carries 128-bit CS. The output	Cl 155 SC 155.3. Huber, Thomas Comment Type T The last sentence h not quite right since and PMD are quite not clear if the last of components all hav as the PCS-to-PMA SuggestedRemedy Rewrite the sentence between the PMA a	3 P 58 Nokia Comment Status X has a few issues. The use of "L the interface between PCS an different. The list of componer clause about nominal signaling e the same nominal rate, or that interface supports. the interface supports.	ikewise" to begin t ad PMA and the in nts should have 'au rate is intended to at collectively they ) or output (transm epresneting the co	the sentence seems terface between PM nd' rather than 'or'. I o mean the 4 / support the same ra nit direction) signals omponents of DP-		

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	C/ 155	Page 35 of 55
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 155.3.3	4/15/2023 10:08:51 AM
SORT ORDER: Clause, Subclause, page, line			

C1 155       SC 155.3.3       P 58       L 36       # 78         Ran, Adee       Cisco       Cisco       Nokia         Comment Type       E       Comment Status X       Nokia         "and operate at the same nominal signaling rate"       Same as what? It's not the same as the PCS-PMA rate.       Huber, Thomas       Nokia         What is the rate?       SuggestedRemedy       Nokia       Comment Type T       Comment Status X       This sentence (which appears to be copied firset) from 400ZR) is out of place here - 1 is no context for what plot symbols are. The first sentence of the second paragraph with:         SuggestedRemedy       Response Status O       Ci 155       SC 155.3.3.1.1       P 58       L 49       201         Law, David       Hewlet Packard Enterprise       Comment Type T       Comment Status X       This sentence of the second paragraph with:       The P16 Nokal SQUSPIS to conecoreary to u									
Comment Type ER Comment Status X "and operate at the same nominal signaling rate" Same as what? It's not the same as the PCS-PMA rate. What is the rate? SuggestedRemedy SuggestedRemedy Proposed Response Response Status 0 C1 155 SC 155.3.3.1.1 P 58 L 45 # 199 C1 155 SC 155.3.3.1.1 P 58 L 45 # 199 C1 155 SC 155.3.3.1.1 P 58 L 45 # 199 C1 155 SC 155.3.3.1.1 P 58 L 45 # 199 C1 155 SC 155.3.3.1.1 P 58 L 45 # 199 C1 155 SC 155.3.3.1.1 P 58 L 45 # 199 C1 155 SC 155.3.3.1.1 P 58 L 45 # 199 C1 155 SC 155.3.3.1.1 P 58 L 49 # 262 C1 155 SC 155.3.3.1.1 P	C/ 155 SC 155.3.3	P 58	L 36	# 78	C/ 155	SC 155.3.3.1.1	P 59	L 10	# 200
"and operate at the same nominal signaling rate"         Same as what? It's not the same as the PCS-PMA rate.         What is the rate?         UrgestedRemedy         Rephrase, preferably adding the nominal signaling rate explicitly.         roposed Response       Response Status O         If 155       SC 155.3.3.1.1       P 58       L 45       # 199         Vibro       To comment Status X       The second paragraph seems out of place since this subclause is discussing the transmit.       Nokia         Columns 1.3 of table 155-2 and columns 4.6 are the same, except for the headings o columns 1.and 4. It would be better to reduce to 3 columns 2 and 3 to 1 and Q, respectively.         Change the heading of columns 1 and 4. It would be better to reduce to 3 columns 2 and 3 to 1 and Q, respectively.         Change the heading of columns 1.and 4. It would be better to reduce to 3 columns 2 and 3 to 1 and Q, respectively.         Change the heading of columns 1 and 4. It would be better to reduce to 3 columns 2 and 3 to 1 and Q, respectively.         Change the heading of columns 1.and 4. It would be better to reduce to 3 columns 2 and 3 to 1 and Q, respectively.         Change the heading of columns 1.and 4. It would be better to reduce to 3 columns 2 and 3 to 1 and Q, respectively.         Change the heading of columns 1.and 4. It would be better to reduce to 3 columns 2 and 3 to 1 and Q, respectively.         Change the paragraph seems out of place since this subclause is discussing the transmit. <td< td=""><td>≀an, Adee</td><td>Cisco</td><td></td><td></td><td>Huber, Th</td><td>omas</td><td>Nokia</td><td></td><td></td></td<>	≀an, Adee	Cisco			Huber, Th	omas	Nokia		
Wind is the rate?         Suggested/Remedy         Rephrase, preferably adding the nominal signaling rate explicitly.         Proposed Response       Response Status O         Cl 155       SC 155.3.3.1.1       P 58       L 45       199         Cl 155       SC 155.3.3.1.1       P 58       L 45       199         Cl 155       SC 155.3.3.1.1       P 58       L 45       199         Cl 155       SC 155.3.3.1.2       P 59       L 42       # 201         Huber, Thomas       Nokia       O       O       Cl 155       SC 155.3.3.1.2       P 59       L 42       # 201         Suggested/Remedy       Delete paragraph seems out of place since this subclause is discussing the transmit function.       Suggested/Remedy       Nokia       Comment Type T       Comment Status X         Proposed Response       Response Status O       This sentence (which appears to be copied firectly from 400ZR) is out of place here - t is no context for what pliot symbols are. The first sentence of the second paragraph to the interleaving process is mapped into the transmission frame), and the two paragraph set to combined.         Suggested/Remedy       Suggested/Remedy       Secomment Status X         Data       Hewlett Packard Enterprise       Comment Status X         Cl 155       SC 155.3.3.1.1       P 58       L 49       # 262	"and operate at the sa	me nominal signaling rate"	ate.		Colum colum	ns 1-3 of table 155-2 ns 1 and 4. It would b	and columns 4-6 are t		
Huber, Thomas       Nokia         Comment Type       T       Comment Status X         The second paragraph seems out of place since this subclause is discussing the transmit function.       Nokia         SuggestedRemedy       Delete the paragraph.         Proposed Response       Response Status       O         C1 155       SC 155.3.3.1.2       P 59       L 42       # [201]         Huber, Thomas       Nokia         SuggestedRemedy       Delete the paragraph.       Comment Type       T       Comment Status X         Proposed Response       Response Status       O       The second paragraph with: Interleaving works (and is somewhat contradicted by later text that discusses how the output of the interleaving works (and is somewhat contradicted by later text that discusses how the output of the interleaving works (and is somewhat contradicted by later text that discusses how the output of the interleaving works (and is somewhat contradicted by later text that discusses how the output of the interleaving works (and is somewhat contradicted by later text that discusses how the output of the interleaving works (and is somewhat contradicted by later text that discusses how the output of the interleaving works (and is somewhat contradicted by later text that discusses how the output of the interleaving works (and is somewhat contradicted by later text that discusses how the output of the interleaving works (and is somewhat contradicted by later text that discusses how the output of the output of the socond paragraph (with the text 'Each SD-FEC codeword passed across the PMA service interface from the SD-FEC encoder	SuggestedRemedy Rephrase, preferably a	5 5 5	ate explicitly.		Delete Chang X: (c8i Y: (c8i	columns 4-6. Chang le the heading of colu ,m c8i+1, c8i+2, c8i+3 +4, c8i+5, c8i+6, c8i+	mn 1 to 3) 7)	nns 2 and 3 to I ar	nd Q, respectively.
Comment Type       T       Comment Status       X         The second paragraph seems out of place since this subclause is discussing the transmit function.       UggestedRemedy       This sentence (which appears to be copied firectly from 400ZR) is out of place here - t is no context for what pliot symbols are. The first sentence of the second paragraph (waso appears to come from 400ZR) is not necessary to understand how the interleaving process is mapped into the transmission frame), and the two paragraph (waso appears to come from 400ZR) is not necessary to understand how the interleaving process is mapped into the transmission frame), and the two paragraph (waso appears to come from 400ZR) is not necessary to understand how the interleaving process is mapped into the transmission frame), and the two paragraph (waso appears to come from 400ZR) is not necessary to understand how the interleaving process is mapped into the transmission frame), and the two paragraph (waso appears to come from 400ZR) is not necessary to understand how the interleaving process is mapped into the transmission frame), and the two paragraph with: interleaving process is mapped into the transmission frame), and the two paragraph with: The DP-16QAM symbols from 16 SD-FEC codewords are time-interleaved to decorred the noise between consecutively received symbols.         SuggestedRemedy       SuggestedRemedy         See comment.       Waso appears to code word passed across the PMA service interface from the SD-FEC encoder' should be changed to read 'Each SD-FEC codeword passed across the PMA service interface from the SD-FEC encoder' should be changed to read 'Each SD-FEC codeword passed across the PMA service interface from the SD-FEC encoder' should be changed to read 'Each SD-FEC codeword passed across the PMA service interface from the SD-FEC encoder			L <b>45</b>	# [199				L <b>42</b>	# 201
C/ 155       SC 155.3.3.1.1       P 58       L 49       # 262         Law, David       Hewlett Packard Enterprise         Comment Type       E       Comment Status       X         Suggest that the text 'Each SD-FEC codeword from the SD-FEC encoder' should be changed to read 'Each SD-FEC codeword passed across the PMA service interface from the SD-FEC encoder'       SuggestedRemedy         SuggestedRemedy       See comment.       See comment.	The second paragraph function. SuggestedRemedy Delete the paragraph.	seems out of place since this	subclause is di	scussing the transmit	Comment This so is no c also a works interle	Type <b>T</b> Co entence (which appear context for what pilot s ppears to come from (and is somewhat cor aving process is map)	omment Status X Irs to be copied firectly ymbols are. The first s 400ZR) is not necessa htradicted by later text	entence of the sec ry to understand h that discusses ho	cond paragraph (whic now the interleaving w the output of the
Law, David Hewlett Packard Enterprise Comment Type E Comment Status X Suggest that the text 'Each SD-FEC codeword from the SD-FEC encoder' should be changed to read 'Each SD-FEC codeword passed across the PMA service interface from the SD-FEC encoder' SuggestedRemedy See comment.					00	,			
Suggest that the text 'Each SD-FEC codeword from the SD-FEC encoder' should be changed to read 'Each SD-FEC codeword passed across the PMA service interface from the SD-FEC encoder'. SuggestedRemedy See comment.	Law, David	Hewlett Packa		# 262	The D	P-16QAM symbols fro	om 16 SD-FEC codewo	ords are time-inter	
See comment.	Suggest that the text 'E changed to read 'Each	Each SD-FEC codeword from SD-FEC codeword passed a			Proposed	Response Re	sponse Status <b>O</b>		
Proposed Response Response Status O	,								
	Proposed Response	Response Status <b>O</b>							

C/ 155 SC 155.3.3.1.2

# 263

C/ 155	SC 155.3.3.1.2	P 59	L <b>46</b>	

Law, David

Hewlett Packard Enterprise

Comment Type т Comment Status X

It seems odd to say that 'Prior to ... frame construction, each frame consists of 10 976 x 16 DP-16QAM symbols.', if the frame hasn't been constructed it doesn't consist of anything. In addition, subclause 155.3.3.1.3 'Transmission multi-frame and frame' says 'Each multiframe is made up of 49 frames, each with 3712 symbols.' It, therefore, appears that the reference to 'each frame consists of 10 976 x 16 DP-16QAM symbols' is about 400GBASE-ZR frames used within PCS. rather than the multi-frame and frame used within the PMA.

Since the PMA service interface just passes a continuous stream of 128-bit SD-FEC codewords from the PCS to PMA, with no other information, the PMA has no knowledge of the 400GBASE-ZR frame used within PCS. As a result, I suggest that this sentence is deleted.

## SuggestedRemedy

Delete the text 'Prior to polarization distribution and transmission frame construction, each frame consists of 10 976 16 DP-16QAM symbols' from the start of the second paragraph of subclause 155.3.3.1.2.

Proposed Response Respo	se Status O
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C/ 155	SC 155.3.3.1.2	P 60	L 1	# 264
Law, David		Hewlett Pac	kard Enterprise	

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Law. David
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Comment Type Comment Status X т

The last paragraph of subclause 155.3.3.1.2 'Symbol interleaving' says 'The output stream is mapped, with the transmission order of left to right, into the next available frame payload location (see 155.3.3.1.3).'. It isn't clear what 'left to right' is about, if it is to Figure 155-10 'Eight-way Hamming code interleaver' I'm not sure that is a complete description. Instead, for Figure 155–10, isn't it 'bottom to top from left to right'?

## SuggestedRemedy

Suggest the text '... the transmission order of left to right, into the ...' is changed to read '... the transmission order of from bottom to top, left to right (see Figure 155-10), into the ...'.

Proposed Response Response Status 0

C/ 155	SC 155.3.3.1.2	P 60	L 27	# 265
Law, David	l	Hewlett Pac	kard Enterprise	

#### Comment Type т Comment Status X

Subclause 155.2.5.11 'Hamming SD-FEC encoder' savs '... results in 10 796 128-bit SD-FEC codewords ' and 'The 128-bit SD-FEC codewords are sent to the 400GBASE-ZR PMA sublayer ...'. Subclause 155.3.3.1.2 'Symbol interleaving' says 'The symbol interleaver performs an 8-way interleaving of groups of sixteen symbols mapped from SD-FEC codewords as illustrated in Figure 155-10.'. I, therefore, believe the reference to ' Hamming code' should be changed to 'SD-FEC codeword' in the title of Figure 155-10.

### SuggestedRemedy

Suggest that the title of Figure 155–10 be changed from 'Eight-way Hamming code interleaver' to 'Eight-way SD-FEC codeword interleaver'.

Proposed Response Response Status 0

C/ 155	SC 155.3.3	.1.3	P 60	L 32	# 79	1
Ran, Adee	•		Cisco			
Comment	Туре Е	Comme	nt Status 🗙			
"For ea	ach polarizatio	n, the stream	of SD-FEC inter	rleaved symbols a	are assembled"	

Singular/plural mismatch

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SuggestedRemedy
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Either change "the stream of" to "the" or change "are" to "is".

Proposed Response Response Status O

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

C/ 155 SC 155.3.3.1.3 Page 37 of 55 4/15/2023 10:08:51 AM

C/ 155	SC 155.3.3.1.3	P 60	L 32	
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Law, David

Hewlett Packard Enterprise

# 266

#### Comment Type т Comment Status X

The first paragraph of subclause 155.3.3.1.3 'Transmission multi-frame and frame' says 'For each polarization, the stream of SD-FEC interleaved symbols are assembled into a frame format suitable for transmission over the 400GBASE-ZR medium and for reception and decoding by the 400GBASE-ZR PMA receive path.' I don't believe it is a stream of 'SD-FEC interleaved symbols', instead I believe it is a stream of 'interleaved DP-16QAM symbols' (see 155.3.3.1.2 'Symbol interleaving' that says 'The DP-16QAM symbols shall be time interleaved ...').

## SugaestedRemedv

Suggest that the text 'For each polarization, the stream of SD-FEC interleaved symbols are assembled into a frame format suitable for transmission ...' is changed to read 'The stream of interleaved DP-16QAM symbols is assembled into a frame format, one for each polarization, suitable for transmission ...'.

Proposed Response	Response Status	0

C/ 155	SC 155.3.3.1.3	P 60	L <b>39</b>	# 202
Huber, Th	omas	Nokia		

### Comment Type T Comment Status X

The description of the frame and mutliframe structure would be more clear if the abbreviations for the different types of symbols were spelled out, and if the organization was modified such that the overall structure of the frame is described before the details of the first vs 2nd through 49th frames are described.

## SuggestedRemedy

Replace the second, third, and fourth paragraphs with this text:

Each frame is based on 116 sets of 32 symbols. The first symbol of each set is a pilot symbol [P0, P1, ..., P115]. Each frame begins with an 11-symbol training sequence (TS, ts<0:10>). ts<0> is this also P0.

The first frame includes a 22-symbol Frame Alignment Word (FAW, faw<0:21>), 76 reserved symbols (rsvd<0.75>), and 3488 payload symbols (m<0.3487>). The reserved symbols are randomized and are ignored by the receiver. The payload symbols occupy the last 16 symbols before P4 and all symbols between P4 and P115.

Frames 2 through 49 do not have the FAW or reserved symbols, and therefore carry 1586 payload symbols, occupying the last 21 symbols between P0 and P1, and all symbols between P1 and P115.

Proposed Response Response Status 0

C/ 155	SC	155.3.3.1.3	P 60	L 39	# 267
Law, Davi	d		Hewlett Pack	ard Enterprise	
Comment	Туре	Е	Comment Status X		
Since	the see	cond paragra	aph of subclause 155.3.3.1	1.3 includes the f	first use of TS. PS. and

FAW, suggest that they should be expanded.

## SuggestedRemedy

Suggest that the text '... an 11-symbol TS (ts<0:10>), 116 PS symbols [P0, ..., P115], a 22symbol FAW (faw<0:21>) ...' should be changed to read '... an 11-symbol Training sequence (TS) (ts<0:10>), 116 Pilot sequence (PS) symbols [P0, ..., P115], a 22-symbol Frame alignment word (FAW) (faw<0:21>) ...'.

Proposed Response Response Status 0

C/ 155	SC 15	5.3.3.1.3	P 60	L	<b>41</b>	#	268
Law, David			Hewlet	tt Packard Ent	erprise		
Comment T	уре Т	- Comm	ent Status	х			

The second paragraph of subclause 155.3.3.1.3 says 'There are 16 symbols after P3 ...'. According to Figure 155–11 there are 31 symbols after P3, 15 reserved symbols (rsvd<61:75>) followed by 16 payload symbols (m<0:15>).

## SuggestedRemedy

Suggest the text 'There are 16 symbols after P3 ...' should be changed to read 'There are 16 payload symbols, preceded by 15 reserved symbols, after P3 ....'. Similarly, suggest that the text 'There are 21 symbols after P0 and ...' on line 45 is changed to read 'There are 21 payload symbols, preceded by 10 Training symbols, after P0 and ...'.

Proposed Response Response Status O

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

C/ 155 SC 155.3.3.1.3 Page 38 of 55 4/15/2023 10:08:51 AM

C/ 155 SC 155.3.3.1.3 P 60 L 42 # 80	C/ 155 SC 155.3.3.1.4 P 61 L 31 # 269
Ran, Adee Cisco	Law, David Hewlett Packard Enterprise
Comment Type TR Comment Status X	Comment Type E Comment Status X
"The reserved symbols are randomized"	Suggest that the text ' the outer constellation symbol values' (page 61, line 31) is
Specifying randomization or randomness is problematic. Whether any sequence is allowed, or some sequences are not allowed, should be stated	changed to read ' the outer four points of the 16QAM constellation symbol values' ar the text 'The symbols values are set at the outer four points of the 16QAM constellation . (page 62, line 29) is changed to read 'It is made up of the outer four points of the 16QAM constellation symbol values and' to align similar text in these two locations.
explicitly.	SuggestedRemedy
If pseudo-randomness is required, a suitable pattern (such as PRBS <n>) could be</n>	See comment.
recommended.	Proposed Response Response Status <b>O</b>
SuggestedRemedy	
Assuming there is no restriction on the sequence, change "The reserved symbols are randomized and their content ignored by the receiver" to "The values of reserved symbols are not specified and they are ignored by the receiver".	C/ 155 SC 155.3.3.1.6 P 63 L 42 # 81 Ran, Adee Cisco
Proposed Response Response Status <b>O</b>	Comment Type T Comment Status X
C/ 155 SC 155.3.3.1.4 P 61 L 31 # 270	Table 155–5 seems to be a text representation of Figure 155-12, and Table 155–6 is yet another representation of the same information.
Law, David Hewlett Packard Enterprise	The bit order of the seeds (shown in hexadecimal in Table 155–5) relative to p9 / p0 in th
Comment Type E Comment Status X	figure is not stated; from the figure, it seems that p9 is the msb and p0 is the lsb. But
I don't think the term DC balance needs to be qualified by 'zero'.	without stating it explicitly, the table is not helpful.
SuggestedRemedy	Table 155-6 isn't really human readable since only the signs are changing. The way it is formatted it's not machine readable either, so it seems not helpful.
Suggest the text ' and designed for zero DC balance.' should be ' and is designed for DC balance.'.	SuggestedRemedy
Proposed Response Response Status O	Change "The generator polynomial and seed values are listed in Table 155–5" to "The generator polynomial and seed values are listed in Table 155–5 (with the least significant bit generated first)"
	Consider deleting Table 155-5, since it's redundant.
	Consider deleting Table 155-6, since it's also redundant and isn't helpful.
	Proposed Response Response Status <b>O</b>

C/ 155 SC 155.3.3.1.6

C/ <b>155</b>	SC 155.3.3.1.	7 P 65	L <b>3</b>	# 272	C/ 155	SC	155.3.3.1.	7	P 65	L <b>3</b>	# 109
Law, David	i	Hewlett Pac	kard Enterprise		Bruckma	n, Leon			Huawei		
Comment	Type <b>TR</b>	Comment Status X			Comment	t Type	Е	Comment S	Status X		
[sic] sh	all be converted	16QAM encode' says 'The to four analog signals'. I	believe that the 'tw	o polarization symbol	"The "strea		rization sy	mbol streams	stream shall	be converted" unneo	cesary word
	s' are produced l ocess isn't specif	by serialising the two multi- ied.	frames, one for eac	ch polarization, but	Suggeste						
Suggested	Remedy							ization symbo ams shall be		eam shall be convert	ed" with: "The two
Sugge	st that:				Proposed	l Respor	ise	Response S	tatus <b>O</b>		
		larization symbol streams									
		155.3.3.1.7 should be cha heir respective multi-frame			C/ 155	SC	155.3.3.1.	7	P 65	L <b>5</b>	# 273
signals				50040	Law, Dav	rid			Hewlett Pack	ard Enterprise	
		n should be added to the e ne and frame' that reads 'E			Comment	t Type	Е	Comment S	Status X		
stream	of 16QAM symb	ols for transmission. Relat	ive to Figure 155-1	1, the frames shall be	Туро.						
		bottom, and the symbols o			Suggeste	dRemer	1v				
		oly of symbols into multi-fra drawn to the right of Figure			SuggestedRemedy Suggest that ' the PMD:IS_UNITDATA.request primitives.' should be changed to read '						
	pottom'.							.request prim		initives. should be	changed to read
frame	48, drop-down, a	drawn at the bottom of Figund then turn 90 degrees to rrow should be annotated a	the right, ending be	elow the righthand	Proposed	_		Response S			
	EE_P802d3cw_[	D2p1_comments_David_La			C/ 155	SC	155.3.3.1.	8	P 65	L 9	# 110
Proposed I		Response Status <b>O</b>			Bruckma	n, Leon			Huawei		
					Comment	t Type	т	Comment S	Status X		
					There	e is an e	ntry in the	PICS to test t	his function, b	out there is no "shall"	
C/ 155	SC 155.3.3.1.	7 P 65	L <b>3</b>	# 271	Suggeste	dRomor	, tv				
Law, David	1	Hewlett Pac	kard Enterprise		00			vith: "shall be	nassed"		
Comment	Туре Е	Comment Status X			•		•				
Туро					Proposed	Respor	ise	Response S	tatus <b>O</b>		
Suggested	Remedv										
		ams stream shall' to rea	d ' symbol stream	is shall'							
Proposed I	-	Response Status <b>O</b>	-								

C/ 155 SC 155.3.3.1.8 Page 40 of 55 4/15/2023 10:08:51 AM

155 SC 155.3.3.1.8 P 65 L 9 # 274	C/ 155 SC 155.4.2 P 68 L 45 # 112
w, David Hewlett Packard Enterprise	Bruckman, Leon Huawei
mment Type E Comment Status X	Comment Type TR Comment Status X
Suggest a shall is added to subclause 155.3.3.1.8.	There is no low power mode
<i>ggestedRemedy</i> Suggest that the text 'The four analog signals XI, XQ, YI, and YQ are passed to using	SuggestedRemedy Replace: "during power on, and when the MDIO has put the PMA sublayer into low pow
any of the mappings in Table 155–7.' should be changed to read 'The four analog signals	mode." with: "and during power on."
XI, XQ, YI, and YQ shall be passed to using one of the mappings in Table 155–7.'.	Proposed Response Response Status O
oposed Response Response Status <b>O</b>	
	— C/ 155 SC 155.4.2 P 68 L 48 # 113
<b>155</b> SC <b>155.3.3.1.8</b> P <b>65</b> L <b>14</b> # 111	Bruckman, Leon Huawei
uckman, Leon Huawei	Comment Type TR Comment Status X
mment Type T Comment Status X	There is no low power mode
Table 155-7 title refers to physical lanes, while the clause talks about analog signals	SuggestedRemedy
ggestedRemedy Replace: "Allowed symbol mapping to physical lanes" with: "Allowed symbol mapping to	Replace: "during power on, and when the MDIO has put the PCS sublayer into low-pov mode." with: "and during power on."
analog signals"	Proposed Response Response Status O
oposed Response Response Status <b>O</b>	
	— C/ 155 SC 155.4.2 P 68 L 48 # 221
<b>155</b> SC <b>155.4.2</b> P <b>68</b> L <b>36</b> # 275	Brown, Matt Huawei
	Comment Type TR Comment Status X
w, David Hewlett Packard Enterprise	
w, David Hewlett Packard Enterprise mment Type E Comment Status X	EEE is not supported for 400GBASE-ZR.
mment TypeEComment StatusXSince for faws_lock <x>, x = 0:1 (see page 69, line 12) suggest that:</x>	SuggestedRemedy
mment Type E Comment Status X	SuggestedRemedy Delete: ", and when the MDIO has put the PCS sublayer into low-power mode."
mment Type       E       Comment Status       X         Since for faws_lock <x>, x = 0:1 (see page 69, line 12) suggest that:       [1] The two instances of ' true for all x' should be changed to read ' true for both x'.</x>	SuggestedRemedy
mment Type       E       Comment Status       X         Since for faws_lock <x>, x = 0:1 (see page 69, line 12) suggest that:         [1] The two instances of ' true for all x' should be changed to read ' true for both x'.         [2] The one instance of ' for any x.' should be changed to read ' for either x.'.</x>	SuggestedRemedy Delete: ", and when the MDIO has put the PCS sublayer into low-power mode."

C/ 155 SC 155.4.2

			-					
C/ 155 SC 155.4.2	P 70	L <b>12</b>	# 219	C/ 155 SC 1	155.5.1	P 76	L <b>12</b>	# 82
Brown, Matt	Huawei			Ran, Adee		Cisco		
SuggestedRemedy Change "The JC1-JC fields can change"	Comment Status X s context is deprecated per sty 22 field information is also prote 21-JC2 field information is also	ected by limits on		"register" is us Similarly in 15 SuggestedRemedy	register is a 32-bit co ed in clause 45; with 5.5.2.	in the PCS these		
fields might change"				Proposed Respon	se Response	e Status <b>O</b>		
Proposed Response	Response Status O							
				C/ 155 SC 1	155.6	P 74	L 18	# 230
/ 155 SC 155.4.2	P 70	L <b>12</b>	# 222	Brown, Matt		Huawei		
rown, Matt	Huawei			Comment Type	T Commer	nt Status X		
	Comment Status X s context is deprecated per sty	/le guide.			ta = 512 BT \$ 4687.5 pause_quar nts are normally spe		number of pause_q	uanta.
uggestedRemedy	ariable that is set to true wher	the AMP SUP	requested by the	SuggestedRemed	/			
	k state diagram has been com				0 000 BT" to "2 400 2 ns" to "6000.64 ns"	256 BT"		
	ble that is set to true when the gram has been completed and o be tested."			Proposed Respons	se Response	e Status <b>O</b>		
roposed Response	Response Status O			C/ 155 SC 1	155.7.3	P 78	L 10	# 276
				Law, David		Hewlett Pack	ard Enterprise	
155 SC 155.5	P 75	L 21	# 223	Comment Type	E Commer	nt Status X	·	
rown. Matt	Huawei			••	he 'Subclause' entry	for PICS item D	C should be 155.6.	
omment Type T	Comment Status X			SuggestedRemed	/			
51	GBASE-ZR PCS variables the	MDIO device nu	mber should be 3 not	See comment				
1: amps_locked, FEC FEC_total_bits_count	C_corrected_cw_counter, FEC ter, FEC_corrected_bits_coun R SC-FEC sublayer using devi	_uncorrected_cw ter. The addresse	_counter,	Proposed Respon	se Response	e Status <b>O</b>		
uggestedRemedy								
Add a new set of equ	ivalent registers to Clause 45	with device addre	ess "3" not 1.					
roposed Response	Response Status O							

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	CI
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC
SORT ORDER: Clause, Subclause, page, line		

C/ 155 SC 155.7.3 Page 42 of 55 4/15/2023 10:08:51 AM

IEEE P802.3cw D2.1 400 Gb/s over	DWDM systems	1st Working Group recirculation	ballot comments

C/ 155 SC 155.7.4.	1 P 78	L 14	# 224	C/ 155A SC 155	<b>A</b> .1	P 114	L 30	# 156
rown, Matt	Huawei			D'Ambrosia, John		Futurewei, U	.S. Subsidiary of	Huawei
omment Type E	Comment Status X			Comment Type E	Comment	t Status X		
The word "can" in this	context is deprecated per sty	le guide.		Figure 155A-1 is e				
uggestedRemedy	ause 155.2.6.7.2 is sufficient	Delete the text	in the value/comment	PMA(16:4) is deno match Fig 118-2,				D 9, which does not
cell for FDD.				SuggestedRemedy				
Proposed Response	Response Status <b>O</b>			Change the noted	MMDs in Figu 15	55A-1 to match t	he same MMDs i	in Fig 118-2.
				Proposed Response	Response	Status O		
C 155 SC 155.7.4.	1 <i>P</i> 78	L 50	# <u>1</u> 14					
Bruckman, Leon	Huawei			C/ 156 SC 156.	1.1	P 81	L <b>42</b>	# 225
omment Type E	Comment Status X			Brown, Matt		Huawei		
Make text consistent v	with clause			Comment Type T	Comment	t Status 🗙		
uggestedRemedy				The FLR target de				
Replace: "Symbol ma	pping to physical signals" with <i>Response Status</i> <b>O</b>	n: "Symbol mapp	ing to analog signals"	The FLR target de to two AUIs in the implemented are v resulting FLR due SuggestedRemedy	PHY at each end within a 400GMII e	l of the link. For extender and the	the 400GBASE-2 us the FEC is seg	ZR the AUIs if gmented and the
Proposed Response	Response Status O			to two AUIs in the implemented are v resulting FLR due	PHY at each end within a 400GMII e to the AUIs will b	l of the link. For extender and the	the 400GBASE-2 us the FEC is seg	ZR the AUIs if gmented and the
Replace: "Symbol map roposed Response	Response Status O	n: "Symbol mapp <i>L</i> <b>9</b>	ing to analog signals" # <u>91</u>	to two AUIs in the implemented are resulting FLR due SuggestedRemedy	PHY at each end within a 400GMII of to the AUIs will b imit to 6.2E-11.	l of the link. For extender and the	the 400GBASE-2 us the FEC is seg	ZR the AUIs if gmented and the
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Replace: "Symbol map roposed Response 1 155A SC 155A.1 an, Adee comment Type E	Response Status O P 114 Cisco Comment Status X	L 9	# [ <u>91</u>	to two AUIs in the implemented are resulting FLR due SuggestedRemedy Change the FLR I	PHY at each end within a 400GMII of to the AUIs will b imit to 6.2E-11. <i>Response</i>	l of the link. For extender and thu e significantly lo	the 400GBASE-2 us the FEC is seg	ZR the AUIs if gmented and the
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C/ 156 SC 156.2

Comment Type T       Comment Status X         156.5.4 says that the global signal detect function should be set to a fixed OK value. This would negate what is said here particularly details like the note.       Strange text: "and delivered to the MDI"         SuggestedRemedy       Rewrite as just "Always conveys the value OK (see 156.5.4)". The note if kept could just state "SIGNAL_OK = OK indication does not imply that the link meets the FLR defined in 156.1.1.       Comment Type T       Comment Status X         Proposed Response       Response Status O       C/ 156       SC 156.2.1.3.2       P 86       L 22       # 142         Oudek, Mike       Marvell       Marvell       Comment Type T       Comment Status X       "amplitude values ranging from -3 to 3" what are the units ?         SuggestedRemedy       SuggestedRemedy       Some options: Add the units, or remove the text: "with expected amplitude values ranging from -3 to 3", or remove the word "amplitude"	C/ 156 SC 156.2.4	I. <b>3.1</b> <i>P</i> 86	L 14	# 141	C/ 156	SC 156.5.2	P 88	L <b>25</b>	# 115
156.54 says that the global signal detect function should be set to a fixed OK value. This would negate what is said here particularly details like the note.       Strange text: "and delivered to the MD!"         Viggested/Remedy       Rewrite as just "Always conveys the value OK (see 156.5.4)". The note if kept could just state 'SIGNAL OK - OK indication does not imply that the link meets the FLR defined in 156.1       Strange text: "and delivered to the MD!" <i>viggested/Remedy</i> Response       Response Status O         20       156       SC 156.2.1.3.2       P 86       L 22       # [16]         Strange text: "and delivered to the MD!"       With: "and deliver them to the MD!"         Vadex, Mike       Marvell       Comment Type T       Comment Status X         As there is never a change in the value of the SIGNAL_OK parameter the PMD_IS_SIGNAL indication primitive will never be generated.       Some options: Add the units, or remove the text: "with expected amplitude values ranging from -3 to 3" what are the units ?         Value of the SIGNAL indication primitive will never be generated because the value of the SIGNAL of C isco       Some options: Add the units, or remove the text: "with expected amplitude values ranging from -3 to 3" or memore tistus X         The four tiggested/Remedy       Cisco       Cisco       Cisco         The heading "PMD block diagram" to "Link diagram" in the heading and in the text.       Test four the figure 156-4. "Biock diagram for a block diagram" to "Link diagram" in the heading and in the text.       Sogested/Reme	Dudek, Mike	Marvell			Bruckman	, Leon	Huawei		
would negate what is said here particularly details like the note.         biggestedRemedy         Rewrite as just *Always conveys the value OK (see 156.5.4)*. The note if kept could just state *SIGNAL_OK = OK indication does not imply that the link meets the FLR defined in 156.1.1.         in 56.1.1.         in 7000000000000000000000000000000000000	Comment Type <b>T</b>	Comment Status X			Comment	Туре Е	Comment Status X		
SuggestedRemedy         Rewrite as just "Always conveys the value OK (see 156.5.4)". The note if kept could just state "SIGNAL_OK = OK indication does not imply that the link meets the FLR defined in 156.1.1.         Proposed Response       Response Status O         Of 156       SC 156.2.1.3.2       P 86       L 22       # [42]         Dudek, Mike       Marvell         Comment Type T       Comment Status X       Response Status O         PMD _IS_SIGNAL indication primitive will never be generated.       SuggestedRemedy         Response Response       Response Status O         Response Response       Response Status X         Remet as "The PMD IS_SIGNAL indication primitive will never be generated.       SuggestedRemedy         Ran, Adee       Cisco         Comment Type E       Comment Status X         The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram" does not match the title of Figure.       To Heading The PMD is one block in the figure.         UggestedRemedy       SuggestedRemedy         Car 156 SC 156.5.1       P 87       L 43       # [35]         The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram" does not match the title of Figure 156-4 "Block diagram" does not match the title of Figure 156-4 "Block diagram" to "Link diagram" in the heading and in the text.         Ware of the abablock diagram" to "Link diagram" in the headi				fixed OK value. This	Strang	e text: "and deli	vered to the MDI"		
Rewrite as just "Always conveys the value OK (see 156.5.4)". The note if kept could just state "SIGNAL_OK = OK indication does not imply that the link meets the FLR defined in 156.1.1. <i>troposed Response Response Status</i> O       Image: Signal Loss = OK         V1 156       SC 156.2.1.3.2       P 86       L 22       # 142         Downent Type T <i>Comment Status</i> X       To <i>Comment Status</i> X       Bruckman, Leon       Huawei         Comment Type T <i>Comment Status</i> X       Some options: Add the units, or remove the units ?       Suggested/Remedy         Rewrite as "The PMD_IS_SIGNAL indication primitive will never be generated.       Base in the value of the SIGNAL_OK parameter is always set to OK.       Some options: Add the units, or remove the text: "with expected amplitude values rang from -3 to 3", or remove the text: "with expected amplitude values rang from -3 to 3", or remove the text: "with expected amplitude values rang from -3 to 3", or remove the text: "with expected amplitude values rang from -3 to 3", or remove the text: "with expected amplitude values rang from -3 to 3", or remove the text: "with expected amplitude values rang from -3 to 3", or remove the text: "with expected amplitude values rang from -3 to 3", or remove the text: "with expected amplitude values rang from -3 to 3", or remove the text: "with expected amplitude values rang from -3 to 3", or remove the text: "with expected amplitude values rang from -3 to 3", or remove the word "amplitude"         V1 156       SC 156.5.1       P 87       L 43       # 83         Ci 156       SC 156.5.4 <td>0</td> <td>s salu here particularly details i</td> <td>ike the note.</td> <td></td> <td></td> <td>•</td> <td>ed to the MDI" with: "and deliv</td> <td>er them to the N</td> <td>IDI"</td>	0	s salu here particularly details i	ike the note.			•	ed to the MDI" with: "and deliv	er them to the N	IDI"
Cl 156 SC 156.2.1.3.2 P 86 L 22 # 142 $Cl 156 SC 156.2.1.3.2 P 86 L 22 # 142$ $Cl 156 SC 156.5.3 P 88 L 36 # 116$ $Bruckman, Leon Huawei$ $Cl 156 SC 156.5.3 P 88 L 36 # 116$ $Bruckman, Leon Huawei$ $Cl 156 SC 156.5.3 P 88 L 36 # 116$ $Bruckman, Leon Huawei$ $Cl 156 SC 156.5.3 P 88 L 36 # 116$ $Bruckman, Leon Huawei$ $Cl 156 SC 156.5.1 P 87 L 43 # 83$ $Cl 156 SC 156.5.1 P 87 L 43 # 83$ $Cl 156 SC 156.5.1 P 87 L 43 # 83$ $Cl 156 SC 156.5.4 P 88 L 36 # 116$ $Cl 156 SC 156.5.4 P 88 L 36 # 116$ $Cl 156 SC 156.5.1 P 87 L 43 # 83$ $Cl 156 SC 156.5.4 P 88 L 40 # 247$ $Comment Type E Comment Status X$ $The heading "PMD block diagram" does not match the title of Figure 156.4 "Block diagram" to "Link diagram" in the heading and in the text.$	state "SIGNAL_OK =				Proposed I	Response	Response Status O		
21       156       SC 156.2.1.3.2       P 86       L 22       # 142         Dudek, Mike       Marvell         Comment Type       T       Comment Status X         As there is never a change in the value of the SIGNAL_OK parameter the PMD_IS_SIGNAL indication primitive will never be generated.       SuggestedRemedy         Rewrite as "The PMD_IS_SIGNAL indication primitive will never be generated because the value of the SIGNAL_OK parameter is always set to OK.       SuggestedRemedy         C/       156       SC 156.5.1       P 87       L 43       # 83         C/       156       SC 156.5.1       P 87       L 43       # 83         Comment Type       E       Comment Status X       To comment Status X       For 400GBASE-ZR, an appropriate signal detect level can be defined. At a 29dB OSNI for our highest allowable RX Power, the accumulated noise would be -20dBm assuming 100GHz Demux BW, for a 26dB OSNR the value accumulated noise would be -20dBm assuming 100GHz Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm indicating FAIL.         Proposed Response       Response Status O       SuggestedRemedy         Change "PMD block diagram" to "Link diagram" in the heading and in the text.       "Billow in the figure."	Proposed Response	Response Status O			C/ 156	SC 156.5.3	P 88	L 36	# 116
Dudek, Mike       Marvell         Comment Type       T       Comment Status       X         As there is never a change in the value of the SIGNAL_OK parameter the PMD_IS_SIGNAL indication primitive will never be generated.       SuggestedRemedy         Rewrite as "The PMD_IS_SIGNAL indication primitive will never be generated because the value of the SIGNAL_OK parameter is always set to OK.       SuggestedRemedy         Change "PMD_IS_SIGNAL indication primitive will never be generated because the value of the SIGNAL_OK parameter is always set to OK.       Comment Status       O         Cl 156       SC 156.5.1       P 87       L 43       # B3         Comment Type       T       Comment Status       X         For 400GBASE-ZR, ran appropriate signal detect level can be defined. At a 29dB OSNE for our highest allowable Rx Power, the accumulated noise would be -17 dBm 100GHz Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm 100GHZ Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm 100GHZ Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm 100GHZ Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm 100GHZ Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm 100GHZ Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm 100GHZ Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm 100GHZ Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm 100GHZ Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm 100GHZ Demux BW, for a 26dB OSNR the value accumulated noise would be -17 dBm 100GHZ Demux BW, for a 26dB OSNR the val					Bruckman	, Leon	Huawei		
comment Type T       Comment Status X         As there is never a change in the value of the SIGNAL_OK parameter the PMD_IS_SIGNAL indication primitive will never be generated.       SuggestedRemedy         Rewrite as "The PMD_IS_SIGNAL indication primitive will never be generated because the value of the SIGNAL_OK parameter is always set to OK.       SuggestedRemedy         Rewrite as "The PMD_IS_SIGNAL indication primitive will never be generated because the value of the SIGNAL_OK parameter is always set to OK.       Cl         156       SC 156.5.1       P 87       L 43       # 83         Tan, Adee       Cisco       Cisco         comment Type E       Comment Status X       For 400GBASE-ZR, ran appropriate signal detect level can be defined. At a 29dB OSNI for our highest allowable Rx Power, the accumulated noise would be -17 dBm indicating FAIL.         The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram for 400GBASE-ZR transmit/receive paths".       SuggestedRemedy         Add a SIGNAL_DETECT level to indicate OK and FAILED, with a value of ≤ -17dBm indicating FAIL.       Add a SIGNAL_DETECT level to indicate OK and FAILED, with a value of ≤ -17dBm indicating FAIL.         Proposed Response       Response Status O	/ 156 SC 156.2.	I.3.2 <i>P</i> 86	L <b>22</b>	# 142	Comment	Туре Т	Comment Status X		
As there is never a change in the value of the SIGNAL_OK parameter the PMD_IS_SIGNAL indication primitive will never be generated. buggestedRemedy Rewrite as "The PMD_IS_SIGNAL indication primitive will never be generated because the value of the SIGNAL_OK parameter is always set to OK. broposed Response Response Status O Cl 156 SC 156.5.1 P 87 L 43 # 83 Ran, Adee Cisco comment Type E Comment Status X The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram for 400GBASE-ZR transmit/receive paths". The figure is not a block diagram" to "Link diagram" in the heading and in the text. Broposed Response Response Response Status O Change "PMD block diagram" to "Link diagram" in the heading and in the text. Change "PMD block diagram" to "Link diagram" in the heading and in the text.	Judek, Mike	Marvell			"ampli	tude values rang	ging from –3 to 3" what are th	e units ?	
PMD_IS_SIGNAL indication primitive will never be generated.         uggestedRemedy         Rewrite as "The PMD_IS_SIGNAL indication primitive will never be generated because the value of the SIGNAL_OK parameter is always set to OK.         roposed Response       Response Status       O         / 156       SC 156.5.1       P 87       L 43       #83         tan, Adee       Cisco       Cisco       Cisco       Cisco       Comment Status       X         The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram" for 400GBASE-ZR transmit/receive paths".       The figure is not a block diagram of the PMD; the PMD is one block in the figure.       SuggestedRemedy         UggestedRemedy       Change "PMD block diagram" to "Link diagram" in the heading and in the text.       Response       Response Status       O	omment Type T	Comment Status X			Suggested	Remedy			
Rewrite as "The PMD_IS_SIGNAL indication primitive will never be generated because the value of the SIGNAL_OK parameter is always set to OK.         Proposed Response       Response Status         O       Rewrite as "The PMD_IS_SIGNAL indication primitive will never be generated because the value of the SIGNAL_OK parameter is always set to OK.         Proposed Response       Response Status       O         C/ 156       SC 156.5.1       P 87       L 43       # [83]         C/ 156       SC 156.5.1       P 87       L 43       # [83]         Comment Type       E       Comment Status       X         The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram for 400GBASE-ZR transmit/receive paths".       X       For 400GBASE-ZR transmit/receive paths".         The figure is not a block diagram of the PMD; the PMD is one block in the figure.       SuggestedRemedy       Add a SIGNAL_DETECT level to indicate OK and FAILED, with a value of ≤ -17dBm indicating FAIL.         Proposed Response       Response Status       O				er the				ith expected am	plitude values ranging
Notice in the status       Notice is not a block diagram of the PMD; the PMD is one block in the figure.         SuggestedRemedy         Change "PMD block diagram" to "Link diagram" in the heading and in the text.				generated because the	Proposed	Response	Response Status <b>O</b>		
C/       156       SC 156.5.1       P 87       L 43       # 83         Ran, Adee       Cisco       For 400GBASE-ZR, an appropriate signal detect level can be defined. At a 29dB OSNF for our highest allowable Rx Power, the accumulated noise would be -20dBm assuming for our highest allowable Rx Power, the accumulated noise would be -20dBm assuming for 400GBASE-ZR transmit/receive paths".         The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram" for 400GBASE-ZR transmit/receive paths".       SuggestedRemedy         The figure is not a block diagram of the PMD; the PMD is one block in the figure.       SuggestedRemedy         Change "PMD block diagram" to "Link diagram" in the heading and in the text.       For 400GBASE-ZR Response       Response Status	Proposed Response	Response Status <b>O</b>			C/ 156	SC 156.5.4	P 88	L 40	# <u>2</u> 47
P 87       L 43       # 83         Ran, Adee       Cisco         Comment Type       E       Comment Status       X         The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram for 400GBASE-ZR transmit/receive paths".       For 400GBASE-ZR transmit/receive paths".       SuggestedRemedy         The figure is not a block diagram of the PMD; the PMD is one block in the figure.       PMD block diagram" in the heading and in the text.       For 400GBASE-ZR comment Status       O					Maniloff, E	ric	Ciena		
Ran, Adee       Cisco         For 400GBASE-ZR, an appropriate signal detect level can be defined. At a 29dB OSNE         comment Type       E         Comment Status       X         The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram for 400GBASE-ZR transmit/receive paths".       The figure is not a block diagram of the PMD; the PMD is one block in the figure.         UggestedRemedy       Add a SIGNAL_DETECT level to indicate OK and FAILED, with a value of ≤ -17dBm indicating FAIL.         Proposed Response       Response Status         O				"	Comment	Туре Т	Comment Status X		
<i>Comment Type</i> <b>E</b> <i>Comment Status</i> <b>X</b> The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram for 400GBASE-ZR transmit/receive paths". The figure is not a block diagram of the PMD; the PMD is one block in the figure. <i>SuggestedRemedy</i> Change "PMD block diagram" to "Link diagram" in the heading and in the text. <i>Change "PMD block diagram" to "Link diagram" in the heading and in the text.</i>			L 43	# 83					
The heading "PMD block diagram" does not match the title of Figure 156-4 "Block diagram for 400GBASE-ZR transmit/receive paths". The figure is not a block diagram of the PMD; the PMD is one block in the figure. <i>uggestedRemedy</i> Change "PMD block diagram" to "Link diagram" in the heading and in the text.	Ran, Adee								
for 400GBASE-ZR transmit/receive paths". The figure is not a block diagram of the PMD; the PMD is one block in the figure. <i>uggestedRemedy</i> Change "PMD block diagram" to "Link diagram" in the heading and in the text.	21					,	or a 200B USINK the value ad	ccumulated nois	e would be - 17 dBm.
The figure is not a block diagram of the PMD; the PMD is one block in the figure.  SuggestedRemedy Change "PMD block diagram" to "Link diagram" in the heading and in the text.			the title of Figure	156-4 "Block diagram	Add a	SIGNAL_DETE	CT level to indicate OK and F	AILED, with a va	alue of  ≤ -17dBm
Change "PMD block diagram" to "Link diagram" in the heading and in the text.	The figure is not a bl	ock diagram of the PMD; the F	PMD is one block	in the figure.		0	Response Status 0		
	,	diagram" to "Link diagram" in	the heading and i	n the text.	, , , , , , , , , , , , , , , , , , , ,				
	Ū.	0							

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

C/ 156 SC 156.5.4

	P 89	L 32	# 204	C/ 156 SC 156.6	P 90	L 13	# 154
Huber, Thomas	Nokia			D'Ambrosia, John	Futurewei, L	J.S. Subsidiary o	f Huawei
omment Type <b>T</b>	Comment Status X			Comment Type TR	Comment Status X		
already in 154.6. The pa deals with the fact that 4	clause 156.6 desribing the l art that is different begins in 400GBASE-ZR has 64 char channels with 100G spacing	the pararaph fold nnels with 75 GHz	wing figure 156-5, and	DWDM black link" is	to describe TP3 here is noted a s different than earlier reference at the MDI" which could cause	e to TP3 in 156.5	.1 - "output of the fiber
uggestedRemedy					i in Figure 156-4) of the DWD	M black link" to "	output of the DWDM
replicated material with	k link is not any different for a cross-reference to clause dication that the channel pla	e 154.6 for genera	l discussion of black		er optic cabling (TP3) at the MD Response Status <b>O</b>		
Proposed Response	Response Status O						
				C/ 156 SC 156.6	P 90	L <b>27</b>	# 84
/ 156 SC 156.6	P 89	L 38	# 160	Ran, Adee	Cisco		
'Ambrosia, John	Futurewei II	J.S. Subsidiary of		Comment Type E	Comment Status X		
omment Type E	Comment Status X			0	veral blocks include "Opt". Does	s it mean Optical	? Optional? Something
••	is incomplete - as the stand	dard can distribute	e multiple channels	else?			
over one or two fibers -	depending upon the implem	nentation.		Also in Figure 156A	.–1.		
In this application, DWE channels over a single f	DM technology is used to en	hable the transpor	t of multiple DWDM	SuggestedRemedy			
•	liber.			Either spell out the	word, or delete "Opt" if it's not h	nelpful.	
					<i>i</i>		
uggestedRemedy				Proposed Response	Response Status <b>O</b>		
Change sentence to -	DM technology is used to en ode fiber.	nable the transpor	t of multiple DWDM	Proposed Response			
Change sentence to - In this application, DWE channels over single mo		nable the transpor	t of multiple DWDM	Proposed Response	Response Status O	L 43	# 227
Change sentence to - In this application, DWE channels over single mo	ode fiber.	nable the transpor	t of multiple DWDM	· · ·	Response Status O	L 43	# 227
Change sentence to - In this application, DWE channels over single more roposed Response	ode fiber. Response Status <b>O</b>		·	C/ <b>156</b> SC <b>156.6</b> Brown, Matt Comment Type <b>E</b>	Response Status O P 90 Huawei Comment Status X		# 227
Change sentence to - In this application, DWE channels over single more proposed Response	ode fiber. Response Status O P 89	hable the transpor	t of multiple DWDM # 226	C/ <b>156</b> SC <b>156.6</b> Brown, Matt Comment Type <b>E</b>	Response Status <b>O</b> P <b>90</b> Huawei		# 227
Change sentence to - In this application, DWE channels over single mo proposed Response	ode fiber. <i>Response Status</i> <b>O</b> <i>P</i> <b>89</b> Huawei		·	C/ <b>156</b> SC <b>156.6</b> Brown, Matt Comment Type <b>E</b>	Response Status O P 90 Huawei Comment Status X		# [227
Change sentence to - In this application, DWE channels over single mo roposed Response / 156 SC 156.6 frown, Matt omment Type E The word "can" in this c	ode fiber. <i>Response Status</i> <b>O</b> <i>P</i> <b>89</b> Huawei <i>Comment Status</i> <b>X</b> context is deprecated per sty	L 41	# 226	Cl <b>156</b> SC <b>156.6</b> Brown, Matt Comment Type <b>E</b> The word "can" in th SuggestedRemedy Change "The 400G	Response Status O P 90 Huawei Comment Status X	yle guide. the basis that it c	can be connected"
Change sentence to - In this application, DWE channels over single more roposed Response / 156 SC 156.6 rown, Matt comment Type E	ode fiber. <i>Response Status</i> <b>O</b> <i>P</i> <b>89</b> Huawei <i>Comment Status</i> <b>X</b> context is deprecated per sty	L 41	# 226	Cl <b>156</b> SC <b>156.6</b> Brown, Matt Comment Type <b>E</b> The word "can" in th SuggestedRemedy Change "The 400G	Response Status O P 90 Huawei Comment Status X his context is deprecated per st	yle guide. the basis that it c	can be connected"
Change sentence to - In this application, DWE channels over single mo roposed Response / 156 SC 156.6 frown, Matt omment Type E The word "can" in this c meant by "this PMD typ uggestedRemedy	ode fiber. <i>Response Status</i> <b>O</b> <i>P</i> <b>89</b> Huawei <i>Comment Status</i> <b>X</b> context is deprecated per sty pe" or "the link".	L <b>41</b> yle guide. Also, it	# 226	C/ <b>156</b> SC <b>156.6</b> Brown, Matt Comment Type <b>E</b> The word "can" in th SuggestedRemedy Change "The 400G To: "The 400GBAS	Response Status O P 90 Huawei Comment Status X his context is deprecated per str BASE-ZR PMD is specified on E-ZR PMD is specified on the b	yle guide. the basis that it c	can be connected"
Change sentence to - In this application, DWE channels over single mo proposed Response 1 156 SC 156.6 Brown, Matt Comment Type E The word "can" in this c meant by "this PMD typ pruggested Remedy Change: "By using this applications, as long as To: "By using this method	ode fiber. <i>Response Status</i> <b>O</b> <i>P</i> <b>89</b> Huawei <i>Comment Status</i> <b>X</b> context is deprecated per sty	L <b>41</b> yle guide. Also, it e can support a wi ified in 156.8 are ID supports a wid	# 226 is not clear what is de range of met." e range of	C/ <b>156</b> SC <b>156.6</b> Brown, Matt Comment Type <b>E</b> The word "can" in th SuggestedRemedy Change "The 400G To: "The 400GBAS	Response Status O P 90 Huawei Comment Status X his context is deprecated per str BASE-ZR PMD is specified on E-ZR PMD is specified on the b	yle guide. the basis that it c	can be connected"

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

C/ 156 SC 156.6 Page 45 of 55 4/15/2023 10:08:51 AM

C/ 156 SC 156.6	P 91	L 8	# 282	C/ 156 SC 156.7.	1 <i>P</i> 100	L <b>50</b>	# 151
Dawe, Piers	Nvidia			D'Ambrosia, John	Futurewei, L	J.S. Subsidiary of	Huawei
Comment Type ER	Comment Status X			Comment Type TR	Comment Status X		
	ut the units in ordinary round and a huge number of tables			had discussions abo an EVM of 12% is a	ontains a limit of 12% for Error v out EVM for DP-16QAM for ove n adequate limit to distinguish n presented into the Task Forc	er 4 years. There good from bad tra	is limited evidence tha ansmitters. No further
SuggestedRemedy					that alleviates this concern.	e and no industry	Information is
Change the square bra	ackets to the usual round bra	ckets. Also in Ta	able 156-12.	SuggestedRemedy			
Proposed Response	Response Status O			re-open the investig which is also import	ation to establish a suitable qua ant for future coherent applicat presentation with recommenda	ions, e.g. in P802	
C/ 156 SC 156.7.1	P 93	L <b>44</b>	# 85	Proposed Response	Response Status <b>O</b>		
Ran, Adee	Cisco						
Comment Type <b>T</b> "dB (12.5 GHz)" is not	Comment Status X a unit.			C/ 156 SC 156.8	P 96	L 33	# 284
				Dawe, Piers	Nvidia		
The definition of USNF	R in 156.9.16 should use star	idard units.		Comment Type TR	Comment Status X		
Also in other table entr	ies specifying OSNR.			It is hard to grasp w	hat this table is meant to say.		
SuggestedRemedy				SuggestedRemedy			
Change to dB, and cla	rify the definition in 156.9.16	if necessary.		Provide a graph to il	lustrate it. Define the terms "fr	equency offset" a	and "isolation".
Proposed Response	Response Status O			Proposed Response	Response Status O		
C 156 SC 156.7.1	P 94	L 15	# 143	C/ 156 SC 156.8	P 96	L 33	# 283
Dudek, Mike	Marvell			Dawe, Piers	Nvidia		
Comment Type E	Comment Status X			Comment Type TR	Comment Status X		
Туро.					pectral isolation" is not defined		
SuggestedRemedy				•	d what the two frequencies in "	irequency offset	are.
Change "internals" to "	intervals" in footnote b			SuggestedRemedy	annal anastral isolation" and	hing what the two	fraguanaica ara Li-
Proposed Response	Response Status O			references as appro	annel spectral isolation", specil priate,	ying what the two	o nequencies are. Us
				Proposed Response	Response Status <b>O</b>		

C/ 156 SC 156.9	P 97	L 12	# 285	C/ <b>156</b>	SC 156.9.2	P <b>98</b>	L <b>42</b>	# 153
Dawe, Piers	Nvidia			D'Ambrosi	ia, John	Futurewei,	U.S. Subsidiary of	f Huawei
Comment Type TR	Comment Status X			Comment	Type <b>TR</b>	Comment Status X		
Multiple optical param methods are needed	neters are inadequately define for some of them	d; some (or more	e) measurement			to Table 156-10, which is e denoted in Table 156-11		st patterns. The test
SuggestedRemedy				Suggestea	Remedy			
	ons of the optical parameters,	with measureme	nt methods and	Chang	ge Table referend	ce from 156-10 to 156-11.		
references as necess	,			Proposed	Response	Response Status <b>O</b>		
Proposed Response	Response Status O							
C/ 156 SC 156.9.1	P 97	L 37	# 450	C/ 156	SC 156.9.6	P 99	L 34	# 286
			# 152	Dawe, Pie	ers	Nvidia		
D'Ambrosia, John Comment Type <b>ER</b>	Futurewei, U Comment Status X	.S. Subsidiary of	Huawei	Comment	Type <b>TR</b>	Comment Status X		
noted as using patter to use either pattern,	ut power stability, and transmit n "valid 400GBASE-R signal, s which would be better noted w t depotation doesnt imply a ch	5". It is believed vith an or between	the user has a choice n the two noted		to be a method	s to be measured if the tra that can tell unwanted "fre		
noted as using patter to use either pattern, patterns. The current SuggestedRemedy In Table 156-11, char	n <sup>i</sup> valid 400GBASE-R signal, which would be better noted w t denotation doesnt imply a ch nge all instances of "valid 4000	5". It is believed vith an or between oice between pat	the user has a choice n the two noted tterns.	needs modul Suggesteo If there param	to be a method ation. <i>IRemedy</i> e is a well-known leter with the rele		quency noise" from use that instead. E	n the intended
noted as using patter to use either pattern, patterns. The current SuggestedRemedy In Table 156-11, char 400GBASE-R signal"	n <sup>i</sup> valid 400GBASE-R signal, which would be better noted w t denotation doesnt imply a ch nge all instances of "valid 4000	5". It is believed vith an or between oice between pat	the user has a choice n the two noted tterns.	needs modul Suggesteo If there param	to be a method ation. <i>IRemedy</i> e is a well-known leter with the rele asured.	that can tell unwanted "fre n metric that does the job,	quency noise" from use that instead. E	n the intended
noted as using patter to use either pattern, patterns. The current SuggestedRemedy In Table 156-11, char 400GBASE-R signal" Proposed Response	n <sup>i</sup> valid 400GBASE-R signal, which would be better noted w t denotation doesnt imply a ch nge all instances of "valid 4000 <i>Response Status</i> <b>O</b>	5". It is believed vith an or between oice between pat	the user has a choice n the two noted tterns.	needs modul <i>Suggesteo</i> If there param be me	to be a method ation. <i>IRemedy</i> e is a well-known leter with the rele asured.	that can tell unwanted "fre n metric that does the job, evant text, equation(s) and	quency noise" from use that instead. E	n the intended
noted as using patter to use either pattern, patterns. The current SuggestedRemedy In Table 156-11, char 400GBASE-R signal" Proposed Response	n <sup>i</sup> valid 400GBASE-R signal, which would be better noted w t denotation doesnt imply a ch nge all instances of "valid 4000 <i>Response Status</i> <b>O</b>	5". It is believed vith an or between oice between pat GBASE-R signal,	the user has a choice n the two noted tterns. 5" to "5 or valid	needs modul Suggestea If there param be me Proposed	to be a method ation. <i>Remedy</i> e is a well-known eter with the rele asured. <i>Response</i> <i>SC</i> <b>156.9.6</b>	that can tell unwanted "fre n metric that does the job, evant text, equation(s) and <i>Response Status</i> <b>O</b>	quency noise" from use that instead. E /or references, and	n the intended Either way, define the I write down how it ma
noted as using patter to use either pattern, patterns. The current SuggestedRemedy In Table 156-11, char 400GBASE-R signal" Proposed Response C/ 156 SC 156.9.2 Bruckman, Leon Comment Type T	n <sup>i</sup> valid 400GBASE-R signal, s which would be better noted w t denotation doesnt imply a ch nge all instances of "valid 4000 <i>Response Status</i> <b>O</b> <i>P</i> 98 Huawei <i>Comment Status</i> <b>X</b>	5". It is believed vith an or between oice between pat GBASE-R signal, <i>L</i> <b>41</b>	the user has a choice n the two noted tterns. 5" to "5 or valid # 117	needs modul Suggestea If there param be me Proposed	to be a method ation. <i>Remedy</i> e is a well-known eter with the rele asured. <i>Response</i> <i>SC</i> <b>156.9.6</b> , Leon	that can tell unwanted "fre n metric that does the job, evant text, equation(s) and <i>Response Status</i> <b>O</b>	quency noise" from use that instead. E /or references, and	n the intended Either way, define the I write down how it m
noted as using patter to use either pattern, patterns. The current SuggestedRemedy In Table 156-11, char 400GBASE-R signal" Proposed Response C/ 156 SC 156.9.2 Bruckman, Leon Comment Type T "The transmitter is mo 10 defines only test p	n <sup>i</sup> valid 400GBASE-R signal, 4 which would be better noted w t denotation doesnt imply a ch nge all instances of "valid 4000 <i>Response Status</i> <b>O</b> <i>P</i> <b>98</b> Huawei <i>Comment Status</i> <b>X</b> odulated using the test pattern pattern 5, but in Table 156-11 t	5". It is believed vith an or between oice between pat GBASE-R signal, <i>L</i> <b>41</b> n defined in Table hese two parame	the user has a choice n the two noted tterns. 5" to "5 or valid # 117 156–10". Table 156-	needs modul. Suggestea If there param be me Proposed a C/ 156 Bruckman Comment "The la	to be a method ation. <i>Remedy</i> e is a well-known eter with the rele asured. <i>Response</i> <i>SC</i> <b>156.9.6</b> , Leon <i>Type</i> <b>T</b>	that can tell unwanted "fre n metric that does the job, evant text, equation(s) and <i>Response Status</i> <b>O</b> <i>P</i> 99 Huawei	quency noise" from use that instead. E /or references, and <i>L</i> <b>34</b>	n the intended
noted as using patter to use either pattern, patterns. The current SuggestedRemedy In Table 156-11, char 400GBASE-R signal" Proposed Response Cl 156 SC 156.9.2 Bruckman, Leon Comment Type T "The transmitter is me 10 defines only test p using either test patter	n <sup>i</sup> valid 400GBASE-R signal, s which would be better noted w t denotation doesnt imply a ch nge all instances of "valid 4000 <i>Response Status</i> <b>O</b> <i>P</i> 98 Huawei <i>Comment Status</i> <b>X</b> odulated using the test pattern	5". It is believed vith an or between oice between pat GBASE-R signal, <i>L</i> <b>41</b> n defined in Table hese two parame	the user has a choice n the two noted tterns. 5" to "5 or valid # 117 156–10". Table 156-	needs modul. Suggestea If there param be me Proposed a C/ 156 Bruckman Comment "The la	to be a method ation. <i>Remedy</i> e is a well-known eter with the relevance assured. <i>Response</i> <i>SC</i> <b>156.9.6</b> I, Leon <i>Type</i> <b>T</b> aser frequency n e laser noise ?	that can tell unwanted "fre n metric that does the job, evant text, equation(s) and <i>Response Status</i> <b>O</b> <i>P</i> <b>99</b> Huawei <i>Comment Status</i> <b>X</b>	quency noise" from use that instead. E /or references, and <i>L</i> <b>34</b>	n the intended
noted as using patter to use either pattern, patterns. The current SuggestedRemedy In Table 156-11, char 400GBASE-R signal" Proposed Response C/ 156 SC 156.9.2 Bruckman, Leon Comment Type T "The transmitter is mo 10 defines only test p	n <sup>II</sup> valid 400GBASE-R signal, 4 which would be better noted w t denotation doesnt imply a ch nge all instances of "valid 4000 <i>Response Status</i> <b>O</b> <i>P</i> 98 Huawei <i>Comment Status</i> <b>X</b> odulated using the test pattern battern 5, but in Table 156-11 t ern 5 or a valid 400GBASE-ZR	5". It is believed vith an or between oice between pat GBASE-R signal, <i>L</i> <b>41</b> n defined in Table hese two parame	the user has a choice n the two noted tterns. 5" to "5 or valid # 117 # 156–10". Table 156-	needs modul. Suggested If there param be me Proposed i C/ 156 Bruckman Comment "The la is it the Suggested Replac	to be a method ation. <i>Remedy</i> e is a well-known eter with the rele- asured. <i>Response</i> <i>SC</i> <b>156.9.6</b> I, Leon <i>Type</i> <b>T</b> aser frequency n e laser noise ? <i>Remedy</i> ce: "The laser fre	that can tell unwanted "fre n metric that does the job, evant text, equation(s) and <i>Response Status</i> <b>O</b> <i>P</i> <b>99</b> Huawei <i>Comment Status</i> <b>X</b>	quency noise" from use that instead. E /or references, and <i>L</i> 34 guency noise" seen laser frequency no	n the intended Either way, define the d write down how it m # <u>118</u> ns odd, is it a mask o bise and is formed by

C/ 156 SC 156.9.6

C/ 156 SC 156.9.6	P 99	L 37	# 287	C/ 156 SC 156	.9.11 <i>P</i> 10	1 <i>L</i> 36	# 86
awe, Piers	Nvidia			Ran, Adee	Cisco		
omment Type <b>TR</b> "the frequency of inter	Comment Status X est" is not defined. This migh	nt be the laser cer	ter frequency, the	Comment Type E offsett	Comment Status	X	
offset from channel no	minal, the offset from the pea e measurement at each frequ	ak, the lowest nun	ber in the table, a	SuggestedRemedy			
uggestedRemedy				offset			
Write down clearly what	at is meant.			Proposed Response	Response Status	0	
roposed Response	Response Status O						
				C/ 156 SC 156	.9.11 <i>P</i> 10	1 <i>L</i> 37	# 88
156 SC 156.9.11	P 101	L 36	# 87	Ran, Adee	Cisco		
an, Adee	Cisco			Comment Type E	Comment Status	x	
omment Type T	Comment Status X s the same as that of the I-Q	offect (mean) in 1	50.0.12		us I-Q offset per polarization e limits given in Table 156–0		e per polarization and
Should it be instantant		onset (mean) in 1	39.9.12.	Please separate	parameter definition from no	ormative statement.	
uggestedRemedy				Similarly in 156.9	.12.		
Correct as necessary.				SuggestedRemedy			
roposed Response	Response Status <b>O</b>				stantaneous I-Q offset per a separate paragraph.	polarization shall be w	ithin the limits given ir
156 SC 156.9.11	P 101	L 36	# 248	Apply similarly in	156.9.12.		
laniloff, Eric	Ciena			Proposed Response	Response Status	0	
omment Type E	Comment Status X				, , , , , , , , , , , , , , , , , , ,		
us is used for microse	conds, instead of µs or micro	seconds		0/ 450 00 450	<b>0</b> 40 D 40	4 40	# 440
uggestedRemedy				C/ 156 SC 156			# 119
change us to µs				Bruckman, Leon	Huawe		
oposed Response	Response Status <b>O</b>			Comment Type TI Text is not consis	<b>R</b> Comment Status tent with other subclauses		
				SuggestedRemedy At the end of the	paragraph add: "and shall b	e within the limits give	n in Table 156–6"
				Proposed Response	Response Status	0	
				At the end of the		0	n in Table 1

C/ 156 SC 156.9.13

Proposed Response       Response Status       O         I 156       SC 156.9.14       P 102       L 4       # 249         Maniloff, Eric       Ciena       Cl       Cl       156       SC 156.9.14       P 102       L 4       # 249         Maniloff, Eric       Ciena       Cl       156       SC 156.9.19       P 102       L 41       # 124         Bruckman, Leon       Huawei       Comment Type       TR       Comment Status       X         Proposed Response       Response Status       O       Nathe beginning of the section add: "The Transmit output power stability shall be within limits given in Table 156-6"         C1 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Comment Status       N         Comment Type       E       Comment Status       X         Replace "I-I-Q"       SuggestedRemedy       Response Status       O         SuggestedRemedy       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       SuggestedRemedy         Cl 156       SC 156.9.15       P 102       L 8       # 122         Bruckman, Leon       Huawei       Comment Status       X         Comment Type       TR       Comm	Comment Type       TR       Comment Status X         Text is not consistent with other subclauses in this section         Suggested/Remedy         A the end of the paragraph add. "and shall be within the limits given in Table 156-6"         Proposed Response       Response Status O         Ci 156       SC 156.9.14       P 102       L 4       243         Ci 156       SC 156.9.14       P 102       L 4       243         Comment Type       E       Comment Status X       Spectral excursion is defined in TU G 689.2 for DP-QPSK, but not for DP-16QAM. Spectral excursion is duffer methode in 156.9.17         Proposed Response       Response Status O       O         Comment Type       E       Comment Status X       Period in middle of sentence         Suggested/Remedy       Canage signal. Measured" to "signal, measured"       Proposed Response       Response Status O         Ci 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Comment Status X       Trained 156-6.5         Ci 156       SC 156.9.15       P 102       L 6       # 122         Proposed Response       Response Status O       Ci 156       SC 156.9.15       P 102       L 6       # 125         Bruckman, Leon       Huawei       Comment Status	C/ 156 SC 156.9.14	P 102	L <b>3</b>	# 120	C/ 156 SC 156.9	.16 <i>P</i> 102	L 15	# 123
Text is not consistent with other subclauses in this section         SuggestedRemedy         At the end of the paragraph add: "and shall be within the limits given in Table 156-6"         Typposed Response       Response Status         O       156       SC 156.8.14       P 102       L 4       # [24]         Cl 156       SC 156.8.14       P 102       L 4       # [24]         Cl 156       SC 156.8.14       P 102       L 4       # [24]         Cl 156       SC 156.8.14       P 102       L 4       # [24]         Cl 156       SC 156.8.14       P 102       L 4       # [24]         Cl 156       SC 156.9.19       P 102       L 4 1       # [12]         SuggestedRemedy       Change Signal. Measured" to "signal, measured"       Proposed Response       Response Status X         SuggestedRemedy       Response Status X       Net needing of the section add: "The Transmit output power stability shall be within limits given in Table 156-6"."       Proposed Response       Response Status O         SuggestedRemedy       Response Status X       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       Cl 156       SC 156.9.10       P 102       L 51       # [25]         SuggestedRemedy       Response Status X       Transmit Power should be within the s	Text is not consistent with other subclauses in this section           SuggestedRemedy         At the end of the paragraph add: "and shall be within the limits given in Table 156-6"           At the end of the paragraph add: "and shall be within the limits given in Table 156-6"         Spectral excursion is dufting methoded in 156.9.1 Without any reference           2/ 156         SC 156.9.14         P 102         L 4         # [24]           Change Signal, Measured" to "signal, measured"         Comment Type         Comment Type         Response Status         O           C/ 156         SC 156.9.15         P 102         L 6         # [12]           SuggestedRemedy         Comment Type         Comment Status X         Transmit output power stability shall be within the limits given in Table 156-6"           C/ 156         SC 156.9.15         P 102	Bruckman, Leon	Huawei			Bruckman, Leon	Huawei		
Suggested/Remedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6" Proposed Response Response Status O C/ 156 SC 156.9.14 P 102 L 4 # [249] Maniloff, Eric Ciena Comment Type E Comment Status X Period In middle of sentence Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 6 # [121] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 6 # [121] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 6 # [121] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 6 # [121] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 6 # [121] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 6 # [121] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.15 P 102 L 8 # [122] Suggested/Remedy Cri 156 SC 156.9.20 P 102 L 51 # [250] Maniloff, Eric Ciena Comment Type T Comment Status X Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers. Suggested/Remedy Change highest to lowest or highest Proposed Response Response Status O	Suggested/Remedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6" Proposed Response Response Status O C/ 156 SC 156.9.14 P 102 L 4 # [449 Comment Type E Comment Status X Period In middle of sentence Suggested/Remedy change "signal. Measured" to "signal. Measured" Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 6 # [121 Suggested/Remedy C/ 156 SC 156.9.15 P 102 L 6 # [121 Suggested/Remedy C/ 156 SC 156.9.15 P 102 L 6 # [121 Suggested/Remedy C/ 156 SC 156.9.15 P 102 L 6 # [121 Suggested/Remedy C/ 156 SC 156.9.15 P 102 L 6 # [121 Suggested/Remedy C/ 156 SC 156.9.15 P 102 L 6 # [121 Suggested/Remedy C/ 156 SC 156.9.15 P 102 L 6 # [121 Suggested/Remedy C/ 156 SC 156.9.20 P 102 L 51 # [250 Maniloff, Eric Comment Status X TypeoT-I-Q" Suggested/Remedy C/ 156 SC 156.9.20 P 102 L 51 # [250 Maniloff, Eric Comment Status X Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers. Suggested/Remedy C/ 156 SC 156.9.15 P 102 L 8 # [122 Suggested/Remedy C/ 156 SC 156.9.15 P 102 L 8 # [122 Suggested/Remedy C/ 156 SC 156.9.15 P 102 L 8 # [122 Suggested/Remedy C/ 156 SC 156.9.20 P 102 L 51 # [250 Maniloff, Eric Comment Status X Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers. Suggested/Remedy Change highest to lowest or highest Proposed Response Response Status O Suggested/Remedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	<b>3</b> 1		section		Spectral excursion	is defined in ITU G.698.2 for DI		
Proposed Response       Response Status       O         If the SC 156.9.14       P 102       L 4       # 249         Maniloff, Eric       Ciena       C// 156       SC 156.9.19       P 102       L 41       # 124         SuggestedRemedy       Change "signal. Measured"       O       Huawei       Comment Status X         Proposed Response       Response Status       O       C// 156       SC 156.9.19       P 102       L 41       # 124         Bruckman, Leon       Huawei       Comment Status X       Reference to the value is missing       SuggestedRemedy         Contract Type       E       Comment Status X       The Transmit output power stability shall be within limits try given in Table 156–6*         C// 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Comment Status X       Ciena         SuggestedRemedy       Response Status O       C// 156       SC 156.9.15       P 102       L 8       # 122         SuggestedRemedy       Response Response Response Response Response Response Status X       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       SuggestedRemedy         C// 156       SC 156.9.15       P 102       L 8       # 122         SuggestedRem	Proposed Response       Response Status O         Proposed Response       Response Status O         Proposed Response       Response Status O         C1 156 SC 156.9.14       P 102       L 4       # 249         Maniloff, Eric       Clena       Cl 156 SC 156.9.19       P 102       L 41       # 124         Suggested/Remedy       Change "signal. Measured"       Type of TR       Comment Status X       Reference to the value is missing         Suggested/Remedy       Cl 156 SC 156.9.15       P 102       L 6       # 121         C1 156 SC 156.9.15       P 102       L 6       # 121         C1 156 SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Comment Status X       Reference to the value is missing         Comment Type E       Comment Status X       The Deginning of the section add: "The Transmit output power stability shall be within the limits Status X       Proposed Response       Response Status O         C1 156 SC 156.9.15       P 102       L 8       # 122       Proposed Response       Response Status X         Suggested/Remedy       Response Response Status O       Cl 156 S.2 156.9.15       P 102       L 8       # 122         Stagested/Remedy       Response Response Response Response Response Status X       Suggested/Remedy		graph add: "and shall be withi	n the limits give	n in Table 156–6"	SuggestedRemedy			
C/ 156       SC 156.9.14       P 102       L 4       # 249         Maniloff, Eric       Ceina       Comment Status X       Period in middle of sentence         SuggestedRemedy       change "signal. Measured" to "signal, measured"       Proposed Response       Response Status O         C/ 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Comment Type TR       Comment Status X         SuggestedRemedy       The Deginning of the section add: "The Transmit output power stability shall be within limits given in Table 156-6".       Proposed Response         C/ 156       SC 156.9.15       P 102       L 6       # 121         Druckman, Leon       Huawei       Comment Status X       Reference to the value is missing         SuggestedRemedy       Trapeo"I+L-Q"       Ci 156       SC 156.9.15       P 102       L 6       # 121         SuggestedRemedy       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       SuggestedRemedy       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         SuggestedRemedy       Task is not consistent with other subclauses in this section       SuggestedRemedy       Change highest to lowest or highest         C/ 156       SC 156.9.15       P 102       L 8       # 1	C/ 156       SC 156.9.14       P 102       L 4       # 249         Maniloff, Eric       Ciena       Comment Type TR       Comment Status X       Reference to the value is missing       Suggested/Remedy       At the beginning of the section add: "The Transmit output power stability shall be within the limits given in Table 156-6."       Proposed Response       Response Status O       Ciena       Comment Type T       Comment Type T       Comment Status X       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       Suggested/Remedy       Ciena       Comment Type T       Comment Status X       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       Suggested/Remedy       Chage highest to lowest or h	Proposed Response	Response Status <b>O</b>					OIF IA section 13	.4.2, and add the sar
Mailoff, Eric       Ciena         Comment Type       E       Comment Status       X         Period in middle of sentence       SuggestedRemedy       Fragment Status       X         Comment System       Response       Response Status       O         Proposed Response       Response Status       O       SuggestedRemedy         Cl 156       SC 156.9.15       P 102       L 41       # 124         Bruckman, Leon       Huawei       Comment Status       X         Cl 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Comment Status       X         Comment Type       E       Comment Status       X         Typeo"1-Q"       Comment Status       X       Proposed Response       Response Status       O         SuggestedRemedy       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       SuggestedRemedy       Change highest to lowest or highest         Proposed Response       Response Status       O       Comment Type       T       Comment Status       X         Replace "I-LQ" with "I-Q"       Proposed Response       Response Status       O       Comment Type       T       Comment Status       X	Mailoff, Eric       Clena         Comment Type       E       Comment Status       X         Period in middle of sentence       SuggestedRemedy       Comment Type       TR       Comment Status       X         SuggestedRemedy       change "signal. Measured"       Proposed Response       Response Status       O       Huawei       Comment Type       TR       Comment Status       X         Cl 156       SC 156.9.15       P 102       L 6       # 121       Bruckman, Leon       Huawei       Comment Status       X       Reference to the value is missing         SuggestedRemedy       Comment Status       X       The Transmit output power stability shall be within the limits given in Table 156-6."       Proposed Response       Response Status       O         Cumment Type       E       Comment Status       X       The transmit output power stability shall be within the limits given in Table 156-6."       Proposed Response       Response Status       O         SuggestedRemedy       Transmit Proper Tamasmit Power should be mithin the status to cleana       Comment Type       T       Comment Status X       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         SuggestedRemedy       Transmit Power should be within the stated range when set to Highest to lowest or highest       Proposed Response       Response Status<		<b>P</b> 400		# [242	Proposed Response	Response Status O		
Comment Type E Comment Status X Period in middle of sentence SuggestedRemedy change "signal. Measured" to "signal, measured" Proposed Response Response Status O Cl 156 SC 156.9.15 P 102 L 6 # 121 Bruckman, Leon Huawei Comment Type E Comment Status X Typeo"I-I-Q" SuggestedRemedy Replace "I-I-Q" with "I-Q" Proposed Response Response Status O Cl 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O Cl 156 SC 156.9.15 P 102 L 8 # 122 Bruckman, Leon Huawei Comment Type TR Comment Status X Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers. SuggestedRemedy Cl 156 SC 156.9.15 P 102 L 8 # 122 Bruckman, Leon Huawei Comment Type TR Comment Status X Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156-6"	Comment Type E Comment Status X Period in middle of sentence SuggestedRemedy change "signal. Measured" to "signal, measured" Proposed Response Response Status O C1 156 SC 156.9.15 P 102 L 6 # 121 Bruckman, Leon Huawei Comment Type E Comment Status X Typeo"I-I-Q" SuggestedRemedy Replace "I-I-Q" with "I-Q" Proposed Response Response Status O C1 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C1 156 SC 156.9.15 P 102 L 8 # 122 Bruckman, Leon Huawei Comment Type TR Comment Status X Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156-6"			L <b>4</b>	# 249				
Period in middle of sentence SuggestedRemedy change "signal. Measured" to "signal, measured" Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 6 # 121 Bruckman, Leon Huawei Comment Status X Type "TR Comment Status X Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6" Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P 102 L 8 P 102 C/ 156 SC 156.9.15 P	Period in middle of sentence SuggestedRemedy change "signal. Measured" to "signal, measured" Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 6 # 121 Bruckman, Leon Huawei Comment Status X Typeo"I-LQ" SuggestedRemedy Replace "I-LQ" with "I-Q" Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status S Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers. SuggestedRemedy Replace "I-LQ" with "I-Q" Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status S Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers. SuggestedRemedy Change highest to lowest or highest Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status S Transmit Power should be within the stated range when set to Highest or Lowest Proposed Response Response Status O SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156-6"							L 41	# 124
SuggestedRemedy       Change "signal. Measured" to "signal, measured"       Reference to the value is missing         Proposed Response       Response Status       O         Cl 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Comment Type       E       Comment Status       X         Typeo"I-I-Q"       Comment Type       E       Comment Status       X         Bruckman, Leon       Huawei       Comment Type       Cince       Cince         Comment Type       Response Status       O       Cince       Cince       Cince         SuggestedRemedy       Replace "I-I-Q" with "I-Q"       Cince       Cince       Comment Type       T       Comment Status       X         Proposed Response       Response Status       O       T       Comment Type       T       Comment Type       T       Comment Status       X         Ci 156       SC 156.9.15       P 102       L 8       # 122       T       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       SuggestedRemedy       SuggestedRemedy       Change highest to lowest or highest       Proposed Response       Response Status       O       Change highest to lowest or highest       Proposed Response       Response Status	SuggestedRemedy       Change "signal. Measured" to "signal, measured"       Reference to the value is missing         Proposed Response       Response Status       O         C/ 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Comment Type       Response Status       O         C/ 156       SC 156.9.15       P 102       L 6       # 121         SuggestedRemedy       Replace "1-I-Q" with "I-Q"       Proposed Response       Response Status       O         Proposed Response       Response Status       O       Cl 156       SC 156.9.15       P 102       L 8       # 122         Proposed Response       Response Status       O       Cl 156       SC 156.9.15       P 102       L 8       # 122         Proposed Response       Response Status       O       Comment Type       T Comment Status       X         Tarsmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy         Cl 156       SC 156.9.15       P 102       L 8       # 122       Tarsmit Power should be within the stated range when set to Highest or Lowest or highest       Proposed Response       Response Status       O         Cl 156       SC 156.9.15 <td>51</td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td>	51				,			
change "signal. Measured" to "signal, measured"         Proposed Response       Response Status         Cl 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Cl       156       SC 156.9.20       P 102       L 51       # 250         SuggestedRemedy       Typeo"I-I-Q"       Cl 156       SC 156.9.15       P 102       L 51       # 250         SuggestedRemedy       Replace "I-I-Q" with "I-Q"       Proposed Response       Response Status       O       Cl 156       SC 156.9.15       P 102       L 51       # 250         Maniloff, Eric       Ciena       Ciena       Comment Status X       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       SuggestedRemedy         Cl 156       SC 156.9.15       P 102       L 8       # 122       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         SuggestedRemedy       Text is not consistent with other subclauses in this section       SuggestedRemedy       Change highest to lowest or highest         SuggestedRemedy       Text is not consistent with other subclauses in this section       SuggestedRemedy       Change highest to lowest or highest         SuggestedRemedy       Text is not consistent with other subclauses in this section       SuggestedReme	change "signal. Measured" to "signal, measured"         Proposed Response       Response Status         O       SuggestedRemedy         Cl 156       SC 156.9.15       P 102       L 6       # [12]         Bruckman, Leon       Huawei       Cl 156       SC 156.9.20       P 102       L 51       # [250]         SuggestedRemedy       Replace "I-I-Q"       Cl 156       SC 156.9.20       P 102       L 51       # [250]         Maniloff, Eric       Ciena       Ciena<	SuggestedRemedy				••			
Proposed Response       Response Status       O         Cl 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Comment Status       X         Types"I-I-Q"       SuggestedRemedy       Response Status       O         SuggestedRemedy       Replace "I-I-Q" with "I-Q"       P102       L 51       # 250         Proposed Response       Response Status       O       Cl 156       SC 156.9.20       P 102       L 51       # 250         Maniloff, Eric       Clena       Comment Type       T Comment Status       X       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         Proposed Response       Response Status       O       SuggestedRemedy       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         Proposed Response       P 102       L 8       # 122       SuggestedRemedy       Change highest to lowest or highest         Cl 156       SC 156.9.15       P 102       L 8       # 122       SuggestedRemedy       Change highest to lowest or highest         Comment Type       TR       Comment Status       X       Transmit Power Should be within the stated range when set to Highest or Lowest         SuggestedRemedy       Text is not consistent wi	Proposed Response       Response Status       O         Cl 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei       Comment Status       X         Types"I-I-Q"       SuggestedRemedy       Response Status       O         SuggestedRemedy       Replace "I-I-Q" with "I-Q"       Proposed Response       Response Status       O         Proposed Response       Response Status       O       Cl 156       SC 156.9.20       P 102       L 51       # 250         Maniloff, Eric       Ciena       Comment Status       X       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       SuggestedRemedy         Cl 156       SC 156.9.15       P 102       L 8       # 122         Bruckman, Leon       Huawei       SuggestedRemedy       SuggestedRemedy       Change highest to lowest or highest         Cl 156       SC 156.9.15       P 102       L 8       # 122       SuggestedRemedy       SuggestedRemedy         Carment Type       T       Comment Status       X       Transmit Power Should be within the stated range when set to Highest or Lowest         Cl 156       SC 156.9.15       P 102       L 8       # 122       SuggestedRemedy       SuggestedRemedy       SuggestedReme		ured" to "signal, measured"						
Cl 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei         Comment Type       E       Comment Status       X         Typeo'I-I-Q'       SuggestedRemedy       Ci 156       SC 156.9.20       P 102       L 51       # 125         SuggestedRemedy       Replace "I-I-Q" with "I-Q"       Ci 156       SC 156.9.20       P 102       L 51       # 125         Proposed Response       Response Status       O       Ci 156       SC 156.9.20       P 102       L 51       # 125         Proposed Response       Response Status       O       Ci 156       SC 156.9.15       P 102       L 8       # 122         Bruckman, Leon       Huawei       Huawei       Comment Type       TR       Comment Status       X         Comment Type       TR       Comment Status       X       Transmit Powers Status       O         SuggestedRemedy       Text is not consistent with other subclauses in this section       SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156–6"       Final Addition of the paragraph add: "and shall be within the limits given in Table 156–6"       Ci 156       SC 156.9.1       P 102       L 8       P 102       L 8       P 102       L 8       P 102       L 8	Cl 156       SC 156.9.15       P 102       L 6       # 121         Bruckman, Leon       Huawei         Comment Type       E       Comment Status X         Typeo"I-I-Q"       SuggestedRemedy         Replace "I-I-Q" with "I-Q"       Ci 156       SC 156.9.20       P 102       L 51       # 250         Proposed Response       Response Status O       Ci 156       SC 156.9.20       P 102       L 51       # 250         Maniloff, Eric       Ciena       Comment Type T       Comment Status X       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         Proposed Response Status O       # 122       SuggestedRemedy       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         SuggestedRemedy       Huawei       Comment Type       T       Comment Type T       Comment Status X         Text is not consistent with other subclauses in this section       SuggestedRemedy       N       Proposed Response       Response Status O         SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156-6"       House 156-6"	• •	•			At the beginning of		output power sta	bility shall be within
Bruckman, Leon       Huawei         Comment Type       E       Comment Status       X         Typeo"I-I-Q"       SuggestedRemedy       Ci 156       SC 156.9.20       P 102       L 51       # 250         SuggestedRemedy       Replace "I-I-Q" with "I-Q"       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         Proposed Response       Response Status       O       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         Cl 156       SC 156.9.15       P 102       L 8       # 122         Bruckman, Leon       Huawei       Text is not consistent with other subclauses in this section       Yerposed Response       Response Status       O         SuggestedRemedy       Text is not consistent with other subclauses in this section       Table 156-6"       Proposed Response       Response Status       O	Bruckman, Leon       Huawei         Comment Type       E       Comment Status       X         Typeo"I-I-Q"       SuggestedRemedy       Ci 156       SC 156.9.20       P 102       L 51       # 250         SuggestedRemedy       Replace "I-I-Q" with "I-Q"       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         Proposed Response       Response Status       O       SuggestedRemedy       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         Cl 156       SC 156.9.15       P 102       L 8       # 122         Bruckman, Leon       Huawei       Comment Status       X         Comment Type       TR       Comment Status       X         Text is not consistent with other subclauses in this section       SuggestedRemedy       Response       Response Status       O         SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156-6"       Habel 156-6"       Habel 156-6"       Habel 156-6"		5 (66		"	Proposed Response	Response Status <b>O</b>		
Comment Type       E       Comment Status       X         Typeo"I-I-Q"       SuggestedRemedy       Cl 156       SC 156.9.20       P 102       L 51       # 250         SuggestedRemedy       Replace "I-I-Q" with "I-Q"       Cl 156       SC 156.9.20       P 102       L 51       # 250         Proposed Response       Response Status       O       Cl 156       SC 156.9.20       P 102       L 51       # 250         Maniloff, Eric       Ciena       Comment Status       X       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       SuggestedRemedy       Change highest to lowest or highest       Proposed Response       Response Status       O         Stuckman, Leon       Huawei       Highest or Comment Status       X       Text is not consistent with other subclauses in this section       SuggestedRemedy       Response       Response Status       O         SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156-6"       Cl 156       SC 156.9.20       P 102       L 51       # 250	Comment Type       E       Comment Status       X         Typeo"I-I-Q"       SuggestedRemedy       Ciena         Replace "I-I-Q" with "I-Q"       Proposed Response       Response Status       O         Proposed Response       Response Status       O       Transmit Power should be within the stated range when set to Highest or Lowest provisionable powers.         SuggestedRemedy       Image: Single Status       Image: Single Status       O         Cl 156       SC 156.9.15       P 102       L 8       Image: Single Status         Comment Type       TR       Comment Status       X         Text is not consistent with other subclauses in this section       SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156-6"       Ci 156       SC 156.9.15       P 102       L 8       Image: Single Status       O			L 6	# 121				
Typeo"I-I-Q"       Maniloff, Eric       Ciena         SuggestedRemedy       Ciena         Replace "I-I-Q" with "I-Q"       Comment Type       T         Proposed Response       Response Status       O         C/       156       SC 156.9.15       P 102       L 8       # 122         Bruckman, Leon       Huawei       Comment Type       TR       Comment Status       X         Comment Type       TR       Comment Status       X       Text is not consistent with other subclauses in this section         SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156–6"       File       Ciena	Jypeo"I-I-Q"       Maniloff, Eric       Ciena         SuggestedRemedy       Ciena       Comment Type         Replace "I-I-Q" with "I-Q"       Comment Type       Comment Type         Proposed Response       Response Status       O         C/       156       SC 156.9.15       P 102       L 8       # 122         Proposed Response       Fransmit Power should be within the stated range when set to Highest or Lowest provisionable powers.       SuggestedRemedy         C/       156       SC 156.9.15       P 102       L 8       # 122         Bruckman, Leon       Huawei       Huawei       Comment Type       TR       Comment Status       X         SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156–6"       Comment Table 156–6"       Comment Table 156–6"	,				CI 156 SC 156 9	20 <i>P</i> 102	/ 51	# 250
SuggestedRemedy Replace "I-I-Q" with "I-Q" Proposed Response Response Status O C/ 156 SC 156.9.15 P 102 L 8 # 122 Bruckman, Leon Huawei Comment Type TR Comment Status X Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	SuggestedRemedy Replace "I-I-Q" with "I-Q" Proposed Response Response Status O CI 156 SC 156.9.15 P 102 L 8 # 122 Bruckman, Leon Huawei Comment Type TR Comment Status X Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	• •	Comment Status X					201	# 250
Replace "I-I-Q" with "I-Q"         Proposed Response       Response Status         O         Cl 156       SC 156.9.15       P 102       L 8       # 122         Bruckman, Leon       Huawei         Comment Type       TR       Comment Status       X         Text is not consistent with other subclauses in this section       SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	Replace "I-I-Q" with "I-Q"         Proposed Response       Response Status         O         C/ 156       SC 156.9.15       P 102       L 8       # 122         Bruckman, Leon       Huawei         Comment Type       TR       Comment Status       X         Text is not consistent with other subclauses in this section       SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156–6"					,			
Proposed Response Response Status O Proposed Response Status O Proposed Response Status O Proposed Response Status O Suggested Remedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	Proposed Response Response Status O   Proposed Response Response Status P 102 L 8 # 122 Proposed Response Response Status Change highest to lowest or highest Proposed Response Response Status O Proposed Response Response Status O SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"		-Q"			51		when set to High	est or Lowest
SuggestedRemedy         Cl 156       SC 156.9.15       P 102       L 8       # 122       Change highest to lowest or highest         Bruckman, Leon       Huawei       Proposed Response       Response Status       O         Comment Type       TR       Comment Status       X       Text is not consistent with other subclauses in this section       For posed Response       Response       Notes to thighest         SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156–6"       SuggestedRemedy       SuggestedRemedy	Cl 156       SC 156.9.15       P 102       L 8       # 122       Change highest to lowest or highest         Bruckman, Leon       Huawei       Proposed Response       Response Status       O         Comment Type       TR       Comment Status       X       Text is not consistent with other subclauses in this section       SuggestedRemedy         SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156–6"       SuggestedRemedy	•				provisionable powe	rs.		
Cl 156 SC 156.9.15 P 102 L 8 # 122 Proposed Response Response Status O Bruckman, Leon Huawei Comment Type TR Comment Status X Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	Cl 156       SC 156.9.15       P 102       L 8       # 122       Proposed Response       Response Status       O         Bruckman, Leon       Huawei       Huawei       Proposed Response       Response Status       O         Comment Type       TR       Comment Status       X       Text is not consistent with other subclauses in this section         SuggestedRemedy       At the end of the paragraph add: "and shall be within the limits given in Table 156–6"       Feature 164					,			
Bruckman, Leon Huawei Comment Type TR Comment Status X Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	Bruckman, Leon Huawei Comment Type TR Comment Status X Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"					Change highest to I	owest or highest		
Comment Type TR Comment Status X Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	Comment Type TR Comment Status X Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	C/ 156 SC 156.9.15	P 102	L 8	# 122	Proposed Response	Response Status <b>O</b>		
Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	Text is not consistent with other subclauses in this section SuggestedRemedy At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	,							
At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	At the end of the paragraph add: "and shall be within the limits given in Table 156–6"	51		section					
			graph add: "and shall be withi	n the limits give	n in Table 156–6"				
rroposed Response Response Status ()				-					

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

C/ 156 SC 156.9.20 Page 49 of 55 4/15/2023 10:08:51 AM

C/ 156 SC 156.9.20	P 102	L 51	# 125	Cl 156 SC 156.9.26 P 103	L 38	# 228
Bruckman, Leon	Huawei			Brown, Matt Huawei		
Comment Type T Co Is "must" used ?	omment Status X			Comment Type E Comment Status X The word "can" in this context is deprecated pe	er style guide.	
SuggestedRemedy Replace "must" with "shall"				SuggestedRemedy Change: "Receiver OSNR tolerance is defined	as minimum OSNR	that the receiver can
Proposed Response Re	sponse Status <b>O</b>			tolerate while" To: "Receiver OSNR tolerance is defined as m while"	inimum OSNR that	the receiver tolerates
C/ 156 SC 156.9.21	P 103	L 7	# 127	Proposed Response Response Status O		
Bruckman, Leon Comment Type <b>T</b> Co Is "must" used ?	Huawei omment Status X			C/         156         SC         156.9.26         P 103           Dudek, Mike         Marvell	L 38	# 144
SuggestedRemedy Replace "must" with "shall"				Comment Type E Comment Status X Typo.		
Proposed Response Re	sponse Status <b>O</b>			SuggestedRemedy Delete the duplicate "while maintaining a"		
C/ 156 SC 156.9.22	<i>P</i> <b>103</b> Huawei	L <b>12</b>	# 128	Proposed Response Response Status <b>O</b>		
Bruckman, Leon Comment Type T Co Is "must" used ?	omment Status X			Cl         156         SC         156.9.26         P 103           Bruckman, Leon         Huawei	L 38	# 130
SuggestedRemedy Replace "must" with "shall"				Comment Type E Comment Status X Redundant text		
Proposed Response Re	sponse Status <b>O</b>			SuggestedRemedy Delete : "a while maintaining"		
C/ 156 SC 156.9.23	P 103	L 18	# 129	Proposed Response Response Status <b>O</b>		
Bruckman, Leon Comment Type <b>TR</b> Co Text is not consistent with o	Huawei omment Status X ther subclauses in this s	section				
SuggestedRemedy At the end of the paragraph			in Table 156–6"			
Proposed Response Re	sponse Status <b>O</b>					

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

C/ 156 SC 156.9.26 Page 50 of 55 4/15/2023 10:08:51 AM

C/ 156 SC 156.9.27	P 103	L <b>48</b>	# 145	C/ 156 SC 156.9.31	P 104	L 14	# 146
udek, Mike	Marvell			Dudek, Mike	Marvell		
omment Type TR	Comment Status X			Comment Type TR	Comment Status X		
	specified as 2.5dB in table 1 definitions it must be at leas		ted as being between	There is a TBD in the d	raft.		
•		LOUD.		SuggestedRemedy			
SuggestedRemedy	Aaybe it should be measured	l over a parrowe	r wavalangth range or	Provide the definition for	or adjacent channel spectral	isolation.	
maybe relative to a spe			i wavelength range of	Proposed Response	Response Status O		
Proposed Response	Response Status 0						
				C/ 156 SC 156.9.31	P 104	L 14	# 4
156 SC 156.9.27	P 103	L 48	# 131	Laubach, Mark	Ciena		
Bruckman, Leon	Huawei			Comment Type T	Comment Status X		
comment Type TR	Comment Status X			Why is there a TBD her it will be resolved?	re? If it is truly needed, why	is there no edito	r note explaining who
T	date in a la construction d'according de la desta de la construction d						
	ith other subclauses in this s	section		SuggestedRemedy			
SuggestedRemedy			- T-1-1 450 0	SuggestedRemedy Get the TBD resolved b	pefore going into SA ballot p		
SuggestedRemedy At the end of the parag	raph add: "and shall be withi		n in Table 156–8"	SuggestedRemedy Get the TBD resolved b unexplained, is just con	nment bait. If it does persist	, have a clear ed	litor note. I have see
SuggestedRemedy At the end of the parag			n in Table 156–8"	SuggestedRemedy Get the TBD resolved b unexplained, is just con	nment bait. If it does persist therType assignment waiting	, have a clear ed	litor note. I have see
SuggestedRemedy At the end of the parage	raph add: "and shall be withi		n in Table 156–8"	SuggestedRemedy Get the TBD resolved b unexplained, is just con this done once for an E	nment bait. If it does persist therType assignment waiting	, have a clear ed	litor note. I have see
uggestedRemedy At the end of the paragi roposed Response	raph add: "and shall be withi		n in Table 156–8" # <u>89</u>	SuggestedRemedy Get the TBD resolved b unexplained, is just con this done once for an E TBD persisting beyong	nment bait. If it does persist therType assignment waiting WG ballot.	, have a clear ed	litor note. I have see
uggestedRemedy At the end of the parage roposed Response / 156 SC 156.9.29 Ran, Adee	raph add: "and shall be withi <i>Response Status</i> <b>O</b> <i>P</i> 104 Cisco	n the limits given		SuggestedRemedy Get the TBD resolved b unexplained, is just con this done once for an E TBD persisting beyong	nment bait. If it does persist therType assignment waiting WG ballot.	, have a clear ed	litor note. I have see
SuggestedRemedy At the end of the parage Proposed Response Cl 156 SC 156.9.29 Ran, Adee Comment Type E	raph add: "and shall be withi <i>Response Status</i> <b>O</b> <i>P</i> <b>104</b> Cisco <i>Comment Status</i> <b>X</b>	n the limits given		SuggestedRemedy Get the TBD resolved b unexplained, is just con this done once for an E TBD persisting beyong Proposed Response	nment bait. If it does persist therType assignment waiting WG ballot. <i>Response Status</i> <b>O</b>	t, have a clear ed g on the RAC. P	litor note. I have see lease try to avoid this
uggestedRemedy At the end of the parage roposed Response / 156 SC 156.9.29 tan, Adee omment Type E Left margin in this page	raph add: "and shall be withi <i>Response Status</i> <b>O</b> <i>P</i> 104 Cisco	n the limits given		SuggestedRemedy Get the TBD resolved b unexplained, is just con this done once for an E TBD persisting beyong Proposed Response	nment bait. If it does persist therType assignment waiting WG ballot. <i>Response Status</i> <b>O</b> <i>P</i> <b>104</b>	t, have a clear ed g on the RAC. P	litor note. I have see lease try to avoid this
SuggestedRemedy At the end of the parage Proposed Response C 156 SC 156.9.29 Ran, Adee Comment Type E Left margin in this page SuggestedRemedy	raph add: "and shall be withi <i>Response Status</i> <b>O</b> <i>P</i> <b>104</b> Cisco <i>Comment Status</i> <b>X</b>	n the limits given		SuggestedRemedy Get the TBD resolved b unexplained, is just con this done once for an E TBD persisting beyong Proposed Response Cl 156 SC 156.9.31 Maniloff, Eric Comment Type T	nment bait. If it does persist therType assignment waiting WG ballot. <i>Response Status</i> <b>O</b> <i>P</i> <b>104</b> Ciena	t, have a clear ed g on the RAC. P <i>L</i> 14	litor note. I have see lease try to avoid this
SuggestedRemedy At the end of the parage Proposed Response Cl 156 SC 156.9.29 Ran, Adee Comment Type E Left margin in this page SuggestedRemedy Fix it	raph add: "and shall be withi <i>Response Status</i> <b>O</b> <i>P</i> <b>104</b> Cisco <i>Comment Status</i> <b>X</b> e is larger than in other pages	n the limits given		SuggestedRemedy Get the TBD resolved b unexplained, is just con this done once for an E TBD persisting beyong Proposed Response Cl 156 SC 156.9.31 Maniloff, Eric Comment Type T	nment bait. If it does persist therType assignment waiting WG ballot. <i>Response Status</i> <b>O</b> <i>P</i> <b>104</b> Ciena <i>Comment Status</i> <b>X</b>	t, have a clear ed g on the RAC. P <i>L</i> 14	litor note. I have see lease try to avoid this
SuggestedRemedy At the end of the parage Proposed Response Cl 156 SC 156.9.29 Ran, Adee Comment Type E Left margin in this page SuggestedRemedy	raph add: "and shall be withi <i>Response Status</i> <b>O</b> <i>P</i> <b>104</b> Cisco <i>Comment Status</i> <b>X</b>	n the limits given		SuggestedRemedy Get the TBD resolved b unexplained, is just con this done once for an E TBD persisting beyong Proposed Response Cl 156 SC 156.9.31 Maniloff, Eric Comment Type T Adjacent Channel Spec SuggestedRemedy	nment bait. If it does persist therType assignment waiting WG ballot. <i>Response Status</i> <b>O</b> <i>P</i> <b>104</b> Ciena <i>Comment Status</i> <b>X</b> ctral Isolation needs addition	t, have a clear ed g on the RAC. P L 14 al definition.	litor note. I have see lease try to avoid thi # 251

C/ 156 SC 156.9.31

C/ 156 SC 156.9.32	P 104	L 21	# 147	C/ 156 SC 156.10.1.	2.1 <i>P</i> 106	L 5	# 288
Dudek, Mike	Marvell			Dawe, Piers	Nvidia		
Comment Type E	Comment Status X			Comment Type TR	Comment Status X		
Typo. SuggestedRemedy insert "in" between "spec Proposed Response	cified" and "Table" Response Status <b>O</b>			says "The sampling rate." So the block that polarization rotation spe channel here is a 2 to 5	es, 156.10.1.2.3 and 156.1 rate of the digitizers should t the polarization demux us eed of an 80 km link is 50 5 m patch cord and the trai it did, it would need a spec- buld be appropriate.	d be at least 1. <sup>-</sup> ses can be arbitra krad/s max (1.2 m nsmitter should no	15 times the symbol Irily short. The nillion UI per radian), th ot make significant
V 156 SC 156.9.32	P 104	L 21	# 132	SuggestedRemedy			
Bruckman, Leon Comment Type <b>T</b>	Huawei Comment Status X				ighout. number of UI for the polai be a power of 2. Probabl		
Replace: "the maximum "the maximum allowable	allowable interferometric cr e interferometric crosstalk sł Response Status O			slightly less numerical r Change the block sizes advantage in making th be concatenated for the		same as those be tween (see anoth	cause the blocks must
SuggestedRemedy Replace: "the maximum "the maximum allowable Proposed Response C/ 156 SC 156.10.1.2	a allowable interferometric crossing interferometric crossial shares <i>Response Status</i> <b>O</b>			slightly less numerical r Change the block sizes advantage in making th be concatenated for the 1000 is about right for t	noise. s in 156.10.1.2.3 and 156. the polarization demux the s e clock recovery step in be them, change them to 102 <i>Response Status</i> <b>O</b>	same as those be tween (see anoth	cause the blocks must
SuggestedRemedy Replace: "the maximum "the maximum allowable Proposed Response C/ 156 SC 156.10.1.2 Bruckman, Leon	a allowable interferometric cr e interferometric crosstalk st <i>Response Status</i> <b>O</b> 2 <i>P</i> <b>105</b> Huawei	hall be as specifi	ed in Table 156–8"	slightly less numerical r Change the block sizes advantage in making th be concatenated for the 1000 is about right for t Proposed Response	noise. s in 156.10.1.2.3 and 156. the polarization demux the s e clock recovery step in be them, change them to 102 <i>Response Status</i> <b>O</b>	same as those be tween (see anoth 4.	cause the blocks must er comment). So if
SuggestedRemedy Replace: "the maximum "the maximum allowable Proposed Response Cl 156 SC 156.10.1.2 Bruckman, Leon Comment Type E	a allowable interferometric crossing interferometric crossial shares <i>Response Status</i> <b>O</b>	hall be as specifi	ed in Table 156–8"	slightly less numerical r Change the block sizes advantage in making th be concatenated for the 1000 is about right for t Proposed Response Cl 156 SC 156.10.1.2 Dawe, Piers Comment Type TR	noise. s in 156.10.1.2.3 and 156. the polarization demux the sectock recovery step in be them, change them to 102 <i>Response Status</i> <b>O</b> <b>2.2</b> <i>P</i> <b>106</b> Nvidia <i>Comment Status</i> <b>X</b>	same as those be tween (see anoth 4. <i>L</i> <b>11</b>	cause the blocks mus er comment). So if # 289
SuggestedRemedy Replace: "the maximum "the maximum allowable Proposed Response C/ 156 SC 156.10.1.2 Bruckman, Leon Comment Type E Missing text SuggestedRemedy	a allowable interferometric cr e interferometric crosstalk st <i>Response Status</i> <b>O</b> 2 <i>P</i> <b>105</b> Huawei	hall be as specifi	ed in Table 156–8"	slightly less numerical r Change the block sizes advantage in making th be concatenated for the 1000 is about right for t <i>Proposed Response</i> <i>Cl</i> <b>156</b> <i>SC</i> <b>156.10.1.</b> Dawe, Piers <i>Comment Type</i> <b>TR</b> 1000 symbols at ~60 G and would allow a trans	noise. a in 156.10.1.2.3 and 156. the polarization demux the sector recovery step in be them, change them to 102 <i>Response Status</i> <b>O</b> <b>2.2</b> <i>P</i> <b>106</b> Nvidia	L 11 the 3 MHz clock to pass. If there's	cause the blocks must er comment). So if # 289 recovery (1/333 MHz) s a clock recovery
SuggestedRemedy Replace: "the maximum "the maximum allowable Proposed Response Cl 156 SC 156.10.1.2 Bruckman, Leon Comment Type E Missing text SuggestedRemedy	a allowable interferometric crossing interferometric crossialk status <b>O</b> <i>P</i> <b>105</b> Huawei <i>Comment Status</i> <b>X</b>	hall be as specifi	ed in Table 156–8"	slightly less numerical r Change the block sizes advantage in making th be concatenated for the 1000 is about right for t Proposed Response Cl 156 SC 156.10.1.2 Dawe, Piers Comment Type TR 1000 symbols at ~60 G and would allow a trans function it should apply SuggestedRemedy Change "applied on a fi	noise. in 156.10.1.2.3 and 156. in polarization demux the sector recovery step in be in them, change them to 102 <i>Response Status</i> <b>O</b> <b>2.2</b> <i>P</i> <b>106</b> Nvidia <i>Comment Status</i> <b>X</b> Bd is 17 ns which defeats smitter with very poor jitter	L 11 L 11 the 3 MHz clock its pass. If there's the measurement, symbols" to "is app	cause the blocks mus er comment). So if # 289 recovery (1/333 MHz) s a clock recovery , not in blocks.

C/ 156 SC 156.10.1.2.2

156         SC 156.10.1.2.4         P 106         L 21         # 290	C/ 156 SC 156.10.1.2.7 P 106 L 38 # 291
awe, Piers Nvidia	Dawe, Piers Nvidia
mment Type E Comment Status X "RRC filter with a beta = 0.2"	Comment Type TR Comment Status X Items in equations must be defined, typically as a "where" section after each equation. See style guide.
<i>uggestedRemedy</i> Say that beta is the roll-off factor, use the Greek letter for beta (which I won't use here, comment tools might not like it), and refer to Eq 156-1.	SuggestedBemody
oposed Response Carlos Contractor	Proposed Response Response Status <b>O</b>
156 SC 156.10.1.2.4 P 106 L 21 # 90	C/ 156 SC 156.10.1.2.7 P 107 L 26 # 135
an, Adee Cisco	Bruckman, Leon Huawei
omment Type E Comment Status X beta	Comment Type <b>T</b> Comment Status <b>X</b> A "shall" seems to be missing at the end of the section
<i>IggestedRemedy</i> Change to the Greek letter	SuggestedRemedy At the end of the section add: "EVMmax shall be within the limit given in Table 156–6."
oposed Response Response Status O	Proposed Response Response Status <b>O</b>
156 SC 156.10.1.2.6 P 106 L 30 # 134	C/ 156 SC 156.11.2 P 107 L 52 # 148
uckman, Leon Huawei	Dudek, Mike Marvell
omment Type E Comment Status X Text is not clear	Comment Type E Comment Status X There is a footnote 7 mark the footnote is on a different page.
<i>iggestedRemedy</i> Replace: "The coefficients of the equalizer are searched that minimize the EVMmax val	
using the signal with additive white Gaussian noise considering the receiver OSNR(min with: "The coefficients of the equalizer that minimize the EVMmax value are searched using the signal with additive white Gaussian noise considering the receiver OSNR(min	Proposed Response Response Status O
oposed Response Response Status <b>O</b>	C/ 156 SC 156.13.3 P 110 L 16 # 277
	Law, David Hewlett Packard Enterprise
	Comment Type E Comment Status X Suggest that the 'Subclause' entry for PICS item DC should be 156.3.
	SuggestedRemedy See comment.
	Proposed Response Response Status O
PE: TR/technical required ER/editorial required GR/general required T/technical E/edit	torial G/general C/ 156 Page 53 of 55

C/ 156 SC 156.13.4.3 P 112	L 6	# 149	C/ 156A SC 156A.1	<i>P</i> 115	L 15	# 139
Dudek, Mike Marvell			Dudek, Mike	Marvell		
Comment Type         E         Comment Status         X           The tables provide values not definitions.			Comment Type E Typo.	Comment Status X		
SuggestedRemedy Change to Per definitions in 156.9.			SuggestedRemedy Change "lack" to "black"			
Proposed Response Response Status <b>O</b>			Proposed Response	Response Status O		
C/ 156 SC 156.13.4.4 P 112	L <b>22</b>	# 150	C/ 156A SC 156A.1	P 115	L 15	# 229
Dudek, Mike Marvell			Brown, Matt	Huawei		
Comment Type E Comment Status X			Comment Type E	Comment Status X		
The tables provide values not definitions.			The word "can" in this cor	ntext is deprecated per sty	le guide.	
SuggestedRemedy			SuggestedRemedy			
Leave the Values/comments blank as is done for change to "meets requiements in Table"	140.12.4.6 in the l	base standard or		this annex to provide exar eet the DWDM lack link re		component
9					·	
0 1			To: "The purpose of this a that meet the DWDM lack	annex to provide examples	of optical comp	onent specifications
Proposed Response Response Status O			To: "The purpose of this a that meet the DWDM lack	annex to provide examples	of optical comp	onent specifications
Proposed Response Response Status O	L <b>25</b>	# 252	To: "The purpose of this a that meet the DWDM lack	annex to provide examples k link requirements."	of optical comp	onent specification
Proposed Response Response Status O Cl 156 SC 156.A.3 P 117 Maniloff, Eric Ciena	L 25	# 252	To: "The purpose of this a that meet the DWDM lack	annex to provide examples k link requirements."	L 25	
Proposed Response Response Status O Cl 156 SC 156.A.3 P 117 Maniloff, Eric Ciena Comment Type T Comment Status X	L <b>25</b>	# 252	To: "The purpose of this a that meet the DWDM lack Proposed Response CI 156A SC 156A.3	annex to provide examples k link requirements." <i>Response Status</i> <b>O</b>	· · ·	wonent specifications
Proposed Response Response Status O Cl 156 SC 156.A.3 P 117 Maniloff, Eric Ciena	L 25	# [ <u>252</u> ]	To: "The purpose of this a that meet the DWDM lack Proposed Response C/ 156A SC 156A.3 Dudek, Mike	annex to provide examples k link requirements." <i>Response Status</i> <b>O</b> <i>P</i> <b>117</b>	· · ·	
Proposed Response Response Status O Cl 156 SC 156.A.3 P 117 Maniloff, Eric Ciena Comment Type T Comment Status X factor 2 should be outside ()^6 term	L 25	# [ <u>252</u> ]	To: "The purpose of this a that meet the DWDM lack Proposed Response C/ 156A SC 156A.3 Dudek, Mike	annex to provide examples k link requirements." Response Status O P 117 Marvell Comment Status X	· · ·	
Proposed Response Response Status O Cl 156 SC 156.A.3 P 117 Maniloff, Eric Ciena Comment Type T Comment Status X factor 2 should be outside ()^6 term	L <b>25</b>	# <u>252</u>	To: "The purpose of this a that meet the DWDM lack Proposed Response Cl 156A SC 156A.3 Dudek, Mike Comment Type E The formating is cutting o	annex to provide examples k link requirements." Response Status O P 117 Marvell Comment Status X	· · ·	
Proposed Response Response Status O Cl 156 SC 156.A.3 P 117 Maniloff, Eric Ciena Comment Type T Comment Status X factor 2 should be outside ()^6 term SuggestedRemedy Update equation	L 25	# [ <u>252</u> ]	To: "The purpose of this a that meet the DWDM lack Proposed Response C/ 156A SC 156A.3 Dudek, Mike Comment Type E	annex to provide examples k link requirements." Response Status O P 117 Marvell Comment Status X	· · ·	
Proposed Response Response Status O Cl 156 SC 156.A.3 P 117 Maniloff, Eric Ciena Comment Type T Comment Status X factor 2 should be outside ()^6 term SuggestedRemedy Update equation	L 25	# [ <u>252</u>	To: "The purpose of this a that meet the DWDM lack Proposed Response C/ 156A SC 156A.3 Dudek, Mike Comment Type E The formating is cutting of SuggestedRemedy fix it.	annex to provide examples k link requirements." <i>Response Status</i> O <i>P</i> 117 Marvell <i>Comment Status</i> X off part of T	· · ·	
Proposed Response Response Status O Cl 156 SC 156.A.3 P 117 Maniloff, Eric Ciena Comment Type T Comment Status X factor 2 should be outside ()^6 term SuggestedRemedy Update equation	L 25 L 30	# [ <u>252</u>	To: "The purpose of this a that meet the DWDM lack Proposed Response C/ 156A SC 156A.3 Dudek, Mike Comment Type E The formating is cutting of SuggestedRemedy fix it.	annex to provide examples k link requirements." Response Status O P 117 Marvell Comment Status X	· · ·	
Proposed Response       Response Status       O         Cl 156       SC 156.A.3       P 117         Maniloff, Eric       Ciena         Comment Type       T       Comment Status         AgestedRemedy       Update equation         Proposed Response       Response Status       O			To: "The purpose of this a that meet the DWDM lack Proposed Response C/ 156A SC 156A.3 Dudek, Mike Comment Type E The formating is cutting of SuggestedRemedy fix it.	annex to provide examples k link requirements." <i>Response Status</i> O <i>P</i> 117 Marvell <i>Comment Status</i> X off part of T	· · ·	
Proposed Response       Response Status       O         Cl       156       SC 156.A.3       P 117         Maniloff, Eric       Ciena         Comment Type       T       Comment Status       X         factor 2 should be outside ()^6 term         SuggestedRemedy       Update equation         Proposed Response       Response Status       O         Cl       156       SC 156.A.3       P 117         Maniloff, Eric       Ciena       Ciena			To: "The purpose of this a that meet the DWDM lack Proposed Response C/ 156A SC 156A.3 Dudek, Mike Comment Type E The formating is cutting of SuggestedRemedy fix it.	annex to provide examples k link requirements." <i>Response Status</i> O <i>P</i> 117 Marvell <i>Comment Status</i> X off part of T	· · ·	
Proposed Response       Response Status       O         Cl       156       SC 156.A.3       P 117         Maniloff, Eric       Ciena         Comment Type       T       Comment Status       X         factor 2 should be outside ()^6 term         SuggestedRemedy       Update equation         Proposed Response       Response Status       O         Cl       156       SC 156.A.3       P 117         Maniloff, Eric       Ciena       Ciena			To: "The purpose of this a that meet the DWDM lack Proposed Response C/ 156A SC 156A.3 Dudek, Mike Comment Type E The formating is cutting of SuggestedRemedy fix it.	annex to provide examples k link requirements." <i>Response Status</i> O <i>P</i> 117 Marvell <i>Comment Status</i> X off part of T	· · ·	
Proposed Response       Response Status       O         Cl       156       SC 156.A.3       P 117         Maniloff, Eric       Ciena         Comment Type       T       Comment Status       X         factor 2 should be outside ()^6 term         SuggestedRemedy       Update equation         Proposed Response       Response Status       O         Cl       156       SC 156.A.3       P 117         Maniloff, Eric       Ciena       Comment Type       T         Comment Type       T       Comment Status       X			To: "The purpose of this a that meet the DWDM lack Proposed Response C/ 156A SC 156A.3 Dudek, Mike Comment Type E The formating is cutting of SuggestedRemedy fix it.	annex to provide examples k link requirements." Response Status O P 117 Marvell Comment Status X off part of T	· · ·	
Proposed Response       Response Status       O         Cl 156       SC 156.A.3       P 117         Maniloff, Eric       Ciena         Comment Type       T       Comment Status         factor 2 should be outside ()^6 term         SuggestedRemedy       Update equation         Proposed Response       Response Status       O         Cl 156       SC 156.A.3       P 117         Maniloff, Eric       Ciena       Comment Type       T         Comment Type       T       Comment Status       X         T is transmission in linear units       X       T			To: "The purpose of this a that meet the DWDM lack Proposed Response C/ 156A SC 156A.3 Dudek, Mike Comment Type E The formating is cutting of SuggestedRemedy fix it.	annex to provide examples k link requirements." Response Status O P 117 Marvell Comment Status X off part of T	· · ·	

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

C/ 156A SC 156A.3

C/ 156A	SC 156A.3	P 117	L 117	# 93
Ran, Adee	•	Cisco		
Comment	Туре Т	Comment Status X		
		aph is unclear. Where was seful"? What are "passbar		
"transn	nission log_e" (	the parameters f0 and B what is it?). "bandwidth" a s unclear how should this	ppears in Table 156	
	outting a log in tl be more readab	ne exponent is obfuscating le.	g - a factor of 1/2 oເ	utside the exponent
Also, ti	he equation is tr	uncated on the left.		
-	•	uncated on the left.		
Suggested If this s	Remedy subclause is imp	portant for the Annex's info		ewrite it with clear
Suggested If this s	Remedy subclause is imp			ewrite it with clear
Suggested If this s	Remedy subclause is imp ge and equation	portant for the Annex's info		ewrite it with clear
Suggested If this s langua Proposed I	Remedy subclause is imp ge and equation	portant for the Annex's info ns. Otherwise, consider de		ewrite it with clear # <u>92</u>
Suggested If this s langua Proposed I	Remedy subclause is imp ge and equation Response SC 156A.3	portant for the Annex's info ns. Otherwise, consider de <i>Response Status</i> <b>O</b>	eleting it.	
Suggested If this s langua Proposed F Cl <b>156A</b>	Remedy subclause is imp ge and equation Response SC <b>156A.3</b>	portant for the Annex's info is. Otherwise, consider de Response Status <b>O</b> P <b>117</b>	eleting it.	
Suggested If this s langua Proposed I Cl 156A Ran, Adee Comment "3rd-or	Remedy subclause is imp ge and equation Response SC 156A.3 Type T rder super-Gaus	portant for the Annex's info is. Otherwise, consider de <i>Response Status</i> <b>O</b> <i>P</i> <b>117</b> Cisco	L 117 L term and does not d	# <u>92</u>
Suggested If this s langua Proposed I Cl 156A Ran, Adee Comment 7 3rd-or 802.3.	Remedy subclause is imp ge and equation Response SC 156A.3 Type T rder super-Gaus This expression	oortant for the Annex's info s. Otherwise, consider de <i>Response Status</i> <b>O</b> <i>P</i> <b>117</b> Cisco <i>Comment Status</i> <b>X</b> sian" is not a well-known	L 117 L term and does not d	# <u>92</u>
Suggested If this s langua Proposed I Cl 156A Ran, Adee Comment "3rd-or 802.3. Suggested	Remedy subclause is imp ge and equation Response SC 156A.3 Type T der super-Gaus This expression Remedy	oortant for the Annex's info s. Otherwise, consider de <i>Response Status</i> <b>O</b> <i>P</i> <b>117</b> Cisco <i>Comment Status</i> <b>X</b> sian" is not a well-known	L 117 L term and does not d	# <u>92</u>

C/ **156A** SC **156A.3**