C/ 155	SC 155.1.2	P <b>34</b>	L <b>26</b>	# 12	C/ 155
Huber, Ton	n	Nokia			Huber, Tom
Comment 7 Text sa include Suggested	ays the 400GMII ex them.	Comment Status X tender sublayers are show	n in the figure, b	ut the figure does not	Comment Typ The desc ambiguity described
Delete	the second senten	ce of the first paragraph of xtended Sublayer…"	155.1.2, beginn	ing with "The	SuggestedRe Rewrite th
Proposed F	Response	Response Status 0			Alignmen They are 2). The result as
C/ 155	SC 155.2.4.1	P39	L <b>14</b>	# 13	not added
Huber, Ton	n	Nokia			frame.
Comment 7	Туре Т	Comment Status X			Proposed Res
matchii and alig AMs ar	ng as described in gning the two clock e not inserted into	natching not being necess 119.2.4.1 has two purpose domains. It is not needec the stream of transcoded t d because GMP handles th	s: making room I in 400GBASE- blocks (they are	for alignment markers, ZR both because the instead part of the	Cl <b>155</b> Huber, Tom
Suggested	,				Comment Typ
Modify 119.2.4	the second senten 4.1 is not required f	ce of the first paragraph to or the 400GBASE-ZR PCS	because the tra	anscoded block stream	The over only in the described
	s, and clock compe	SE-ZR frame structure tha ensation between the two o			SuggestedRe Since G.7
Proposed F	-	Response Status 0			uses the figure in F reference of 320 bit
C/ 155	SC 155.2.4.3	P <b>39</b>	L38	# 14	of the firs

Huber, Tom

Comment Type E Comment Status X

The right-hand curly brace, two horizontal lines, and word 'Frame' on the right hand side of the figure don't seem to add any clarity. The figure title is 400GBASE-ZR frame structure, and the text describes the structure clearly.

Nokia

# SuggestedRemedy

Delete the right-hand curly brace, horizontal lines and 'Frame', leaving only the frame itself in the figure.

Proposed Response Response Status 0

Cl 155	SC 155.2.4.4.1	P <b>40</b>	L <b>53</b>	# 15
Huber, Tor	n	Nokia		

#### vpe т Comment Status X

scription of the alignment markers repeats some details from clause 119 that create ity regarding the transmission order, and also doesn't mention that the 3-bit status ed in clause 119 is not included.

### Remedy

# the clause as follows:

ent markers are used to provide frame delineation for the 400GBASE-ZR frame. e inserted before FEC encoding and removed after FEC decoding (see Figure 155variable am mapped<1919:0> is constructed in a manner that yields the same s the process described in 119.2.4.4.2. The 133-bit pad and 3-bit status fields are ed. The resulting 1920-bit value is inserted in the AM field of each 400GBASE-ZR

Response Status 0 esponse

C/ 155	SC 155.2.4.4.3	P <b>41</b>	L18	# 16
Huber, Tom		Nokia		
Comment Ty	pe T	Comment Status X		

erhead in G.709.1 does not include the 'LDI' field described in 155.2.4.4.5; that is he 400ZR IA. As such the statement that the contents of the overhead are are ed in G.709.1 clauses 8.1 and 9.2 is not accurate.

# Remedv

6.709.1 and the 400ZR IA have different descriptive techniques, and neither one e same bit numbering convention of 802.3, it may be more expedient to create a P802.3cw that shows the structure of the first set of 320 bits rather than to try and ce either document. Revise the text to say. The overhead is organized into four sets bits that are interleaved in groups of 10 bits to form the 1280 bit field. The contents rst 320 bits are as shown in Figure 155-X and described below. The contents of the second through fourth sets of 320 bits are all zeros.

Proposed Response Response Status 0

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

C/ 155 SC 155.2.4.4.3 Page 1 of 6 10/15/2021 10:24:16 AM

C/ 155 SC 155.2.4.4	4.4 <i>P</i> 41	L <b>23</b>	# 17	C/ 155 SC 155	5.2.4.9	P <b>46</b>	L <b>25</b>	# 20
Huber, Tom	Nokia			Huber, Tom	I	Nokia		
Comment Type E	Comment Status X			Comment Type T	Comment St	tatus X		
400GBASE-ZR overhe	4.5, and 155.2.4.4.6 are all de ead field. As such, it would pr oclauses of 155.2.4.4.3.			of padding, but tl	n the first column are s he shading is not main			they are the 6 blocks
SuggestedRemedy				SuggestedRemedy				
Change the numbering	g to 155.2.4.4.3.1 through 15	5.2.4.4.3.3.						mn to just show 10976 really important to this
Proposed Response	Response Status <b>O</b>			Proposed Response	Response St	atus O		
C/ 155 SC 155.2.4.4	4.5 P41	L <b>41</b>	# 18					
Huber, Tom	Nokia				5.2.4.10	P <b>46</b>	L <b>38</b>	# 21
Comment Type <b>T</b>	Comment Status X			Huber, Tom		Nokia		
	LDI field is needed. While it is low to match the behavior in the			<i>Comment Type</i> <b>E</b> No need for a hy	Comment Si phen in "It adds 9-bits			
its definition, so it wou	rather than a separate field, a Id be better to describe how ne IA appears to align with the	LDI<2:0> relates	to tx_am_sf<2:0>	SuggestedRemedy To maximize cla	rity, reword as "It adds	9 parity bits	. "	
XS FEC Degrade sign	naling in 118.2.2 of 802.3 (the se). The order of the bits in th	'extra processing	' in the IA seems to be	Proposed Response				
SuggestedRemedy				C/ 155 SC 155	5256	P <b>48</b>	L <b>50</b>	# 22
Add the following text				Huber, Tom		Nokia	200	
	2:0> are as follows: o tx_am_sf<0> in 118.2.2. LE esponds to tx_am_sf<1> in 11		s to tx_am_sf<2> in	Comment Type T		atus X	ext is mostly about	t error marking
Proposed Response	Response Status <b>0</b>					it, but the t		Conor manning
, ,				SuggestedRemedy Revise the title to	o be "CRC-32 check a	nd error ma	rking"	
C/ 155 SC 155.2.4.9	9 P46	L <b>3</b>	# 19	Proposed Response	Response St	atus <b>O</b>		
Huber, Tom	Nokia							
Comment Type E	Comment Status X							
The figure contains a appear to mean anyth	mix of lighter and heavier hor ing.	izontal lines. The	heavier lines don't					
SuggestedRemedy								
Revise the figure to re intended meaning to t	emove the heavy lines, or mal hem.	ke clear what they	/ mean if there is an					
Proposed Response	Response Status O							
		/				<i>.</i>		
	ed ER/editorial required GR ispatched A/accepted R/reje				awn	C/ 1 SC 1	55 55.2.5.6	Page 2 of 6 10/15/2021 10:24:2

SORT ORDER: Clause, Subclause, page, line

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C/ 155 SC 155.2.5	5.7 P49	L <b>6</b>	# 23	C/ 155 SC 155.5	P <b>61</b>	L17	# 9
Huber, Tom	Nokia			Lewis, David	Lumentum		
Comment Type <b>E</b> There should be a hy	Comment Status X vphen in CRC32			<i>Comment Type</i> <b>T</b> Management inform	Comment Status X ation for 400GBASE-ZR PCS at	nd PMA is need	ed.
SuggestedRemedy Change to CRC-32 Proposed Response	Response Status <b>O</b>			If the baseline is acc	posed baseline text and figures epted, the editor's note can be nent details are not needed, in	removed. The ta	ask force could also
C/ 155 SC 155.2.5	5.7.2 P49	L <b>48</b>	# 24	Proposed Response	Response Status 0		
Huber, Tom	Nokia						
Comment Type T	Comment Status X			C/ 155 SC 155.6	P <b>61</b>	L <b>23</b>	# 10
Additional datail abov	ut the LDI field and how it relate	es to ty am_sf<2	2·0> in clause 118 is	Lewis. David	Lumentum		
needed.				,			
needed. S <i>uggestedRemedy</i> Add a cross-referenc currently 155.2.4.4.5	e to the description of the LDI I , but may be changed to 155.2. <i>Response Status</i> <b>0</b>	bits in the Transr	mit clause (this is	Comment Type <b>T</b> Loopback informatic SuggestedRemedy Contribution with pro	Comment Status X n is needed. posed baseline text and figures		
needed. SuggestedRemedy Add a cross-referenc	e to the description of the LDI I , but may be changed to 155.2.	bits in the Transr	mit clause (this is	Comment Type <b>T</b> Loopback informatic SuggestedRemedy Contribution with pro If the baseline is acc	Comment Status X n is needed.	removed. The ta	ask force could also
needed. SuggestedRemedy Add a cross-referenc currently 155.2.4.4.5 Proposed Response Cl 155 SC 155.4	e to the description of the LDI I , but may be changed to 155.2. <i>Response Status</i> <b>O</b> <i>P</i> <b>61</b>	bits in the Transr	mit clause (this is	Comment Type <b>T</b> Loopback informatic SuggestedRemedy Contribution with pro If the baseline is acc	Comment Status X n is needed. posed baseline text and figures repted, the editor's note can be	removed. The ta	ask force could also
needed. SuggestedRemedy Add a cross-referenc currently 155.2.4.4.5 Proposed Response Cl 155 SC 155.4 Lewis, David Comment Type T	te to the description of the LDI I , but may be changed to 155.2. <i>Response Status</i> <b>O</b>	bits in the Transr .4.4.3.2 based or <i>L</i> 10	mit clause (this is n another comment) # 8	Comment Type <b>T</b> Loopback informatic SuggestedRemedy Contribution with pro If the baseline is acc decide that looback	Comment Status X n is needed. posed baseline text and figures repted, the editor's note can be details are not needed, in which	removed. The ta	ask force could also
needed. SuggestedRemedy Add a cross-reference currently 155.2.4.4.5 Proposed Response Cl 155 SC 155.4 Lewis, David Comment Type T Detailed functions ar SuggestedRemedy Contribution with pro	te to the description of the LDI I , but may be changed to 155.2. <i>Response Status</i> <b>O</b> <i>P</i> <b>61</b> Lumentum <i>Comment Status</i> <b>X</b> ad state diagrams for 400GBAS	bits in the Transr .4.4.3.2 based or <i>L</i> 10 SE-ZR PCS and P s will be made at	mit clause (this is n another comment) # 8 PMA are needed. a task force meeting.	Comment Type T Loopback informatic SuggestedRemedy Contribution with pro If the baseline is acc decide that looback Proposed Response	Comment Status X n is needed. posed baseline text and figures repted, the editor's note can be details are not needed, in which <i>Response Status</i> O P63 Lumentum <i>Comment Status</i> X	removed. The ta a case subclause	ask force could also e 155.6 can be removed
needed. SuggestedRemedy Add a cross-reference currently 155.2.4.4.5 Proposed Response Cl 155 SC 155.4 Lewis, David Comment Type T Detailed functions ar SuggestedRemedy Contribution with pro If the baseline is acc	te to the description of the LDI I , but may be changed to 155.2. <i>Response Status</i> <b>O</b> <i>P</i> <b>61</b> Lumentum <i>Comment Status</i> <b>X</b> ad state diagrams for 400GBAS posed baseline text and figures epted, the editor's note can be ed functions and state diagram	bits in the Transr .4.4.3.2 based or <i>L</i> 10 SE-ZR PCS and F s will be made at removed. The ta	mit clause (this is n another comment) # 8 PMA are needed. a task force meeting. ask force could also	Comment Type T Loopback informatic SuggestedRemedy Contribution with pro If the baseline is acc decide that looback Proposed Response Cl 155 SC 155.8 Lewis, David Comment Type T PICS tables are nee SuggestedRemedy	Comment Status X n is needed. posed baseline text and figures repted, the editor's note can be details are not needed, in which <i>Response Status</i> O P63 Lumentum <i>Comment Status</i> X	removed. The tancase subclause	ask force could also e 155.6 can be removed # <u>11</u>

C/ 155 SC 155.8

C/ 156 SC 156.7.1	P <b>73</b>	L <b>25</b>	# 5	C/ 156 SC 156.	8 P <b>75</b>	L <b>41</b>	# 26
lackson, Kenneth	Sumitomo Elec	stric		Maniloff, Eric	Ciena		
Comment Type <b>E</b> Table 156-6, Laser free	Comment Status X quency noise mask. Eliminate	TBDs?		Comment Type T Interferometric cro	Comment Status X osstalk is not required to be spec	cified for point-to-p	point applications.
SuggestedRemedy Make reference to 156	.9.6 Laser frequency noise mas	sk.		SuggestedRemedy Remove Interferor	metric crosstalk from Table 156-	8	
Proposed Response	Response Status <b>O</b>			Proposed Response	Response Status 0		
C 156 SC 156.7.2	P74	L <b>23</b>	# 27	C/ 156 SC 156.	9.4 P78	L <b>41</b>	# 7
Maniloff, Eric	Ciena			Jackson, Kenneth	Sumitomo B	Electric	
SuggestedRemedy	Comment Status X v defined for average receive po	ower ≥ -12 dBi	n	The text says, "I	Comment Status X ansmit spectral mask (max and lower mask is set at –9 dB up to Isn't half the baud rate 29.9?		e", yet the Figure
Remove text "For aver	age receive power < -12 dBm"			SuggestedRemedy			
Proposed Response	Response Status O			If my understandi	ng is correct, the figure should b	e changed to refle	ect half the baud-rate.
				Proposed Response	Response Status 0		
C/ 156 SC 156.7.2	P <b>74</b>	L <b>26</b>	# 28				
/aniloff, Eric	Ciena			C/ 156 SC 156.	9.6 P79	L51	# 6
Comment Type T	Comment Status X			Jackson, Kenneth	Sumitomo I	Electric	
Receiver OSNR tolera	nce is only defined for average	e receive powe	r ≥ -12 dBm	Comment Type E	Comment Status X		
SuggestedRemedy Remove text "For aver	age receive power ≥ –12 dBm"	from receiver	OSNR tolerance	Labeling on plot (F table values.	Figure 156–5—Frequency vs spe	ectral power dens	ity) needs to reflect the
Proposed Response	Response Status <b>O</b>			SuggestedRemedy change 1.0^6 to 1	0^6 (remove decimal) or 1.0e6		
7 156 SC 156.7.2	P <b>74</b>	L <b>30</b>	# 30	Proposed Response	Response Status O		
ssenhuth, Tom	Huawei						
Comment Type <b>E</b> Table 156-7 has a blar	Comment Status X hk line at the end of the table						
SuggestedRemedy Remove the blank line							

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

C/ 156 SC 156.9.6 Page 4 of 6 10/15/2021 10:24:22 AM

X 156 SC 156.9.17 P81 L18 # 29	C/ 156 SC 156.10.1.2. P84 L8 # 2				
Aaniloff, Eric Ciena	Pittala, Fabio Huawei				
Comment Type E Comment Status X	Comment Type TR Comment Status X				
Add table reference for Receiver OSNR tolerance	Requirements on the clock recovery unit should be included.				
uggestedRemedy	SuggestedRemedy				
Change "Receiver OSNR tolerance" to "The Receiver OSNR tolerance is specified in Table 156-7. Receiver OSNR tolerance is defined"	Modify Figure 156-8 changing the second block as "Clock and Frequency Offset Recover Include at the beginning of subclause 156.10.1.2.2 the following text "A clock recovery with the second				
Proposed Response Response Status <b>O</b>	a corner frequency of TBD MHz and a slope of TBD dB/decade is applied on a fixed block length of TBD symbols." Otherwise modify Figure 156-8 adding a block named "Clock Recovery" after the				
V 156 SC 156.9.20 P81 L32 # 25	"Polarization Demux" block and add a new sublcause (156.10.1.2.2) containing the following text "A clock recovery with a corner frequency of TBD MHz and a slope of TBD				
Aniloff. Eric Ciena	dB/decade is applied on a fixed block length of TBD symbols."				
Comment Type T Comment Status X	Proposed Response Response Status O				
Optical Path Power penalty is not required for the defined application.					
uggestedRemedy	C/ 156 SC 156.10.1.2.1 P84 L1 # 3				
Remove 156.9.20	Pittala, Fabio Huawei				
Proposed Response Response Status O	Comment Type ER Comment Status X There is a mismatch between the title of subclause 156.10.1.2.1 and the corresponding block in Figure 156-8.				
C/ 156 SC 156.10.1.1 P83 L6 # 1	SuggestedRemedy				
ittala, Fabio Huawei	Rename subclause 156.10.1.2.1 as "Polarization Demux"				
Comment Type TR Comment Status X	Proposed Response Response Status <b>O</b>				
The first box of Figure 156-7 consists of a coherent receiver and the second box consists of the frontend correction. Both boxes make a calibrated coherent receiver.					
uggestedRemedy	C/ 156 SC 156.10.1.2.1 P84 L5 # 31				
Rename the first box of Figure 156-7 as "Coherent Receiver" instead of "Calibrated Coherent Receiver"	Issenhuth, Tom Huawei				
Proposed Response Response Status O	Comment Type <b>T</b> Comment Status <b>X</b> Number of block samples is TBD				
	SuggestedRemedy Replace TBD with "1000"				
	Proposed Response Response Status <b>O</b>				

C/ 156 SC 156.10.1.2.1

C/ 156 SC 156.10.1.2	2. <b>2</b> <i>P</i> 84	L11	# 32	C/ 156	SC 156.13.4.	4 <i>P</i> 91	L <b>25</b>	# 34
ssenhuth, Tom	Huawei			Issenhuth,	Tom	Huawei		
Comment Type <b>T</b>	Comment Status X			Comment	Туре Т	Comment Status X		
Number of symbols is T	BD					updated as "I-Q offset" wa	s changed to "I-C	(max instantaneous)"
SuggestedRemedy					Q (mean)"			
Replace TBD with "1000	כ"			Suggested				
Proposed Response	Response Status 0				e "I-Q offset" to ' use 156.9.12	'I-Q (max instantaneous)" a	and add entry for "	I-Q (mean)" for
				Proposed I	Response	Response Status 0		
C/ 156 SC 156.10.1.2	2.3 P84	L13	# 4					
Pittala, Fabio	Huawei			C/ 156A	SC 156A	P <b>95</b>	L1	# 35
omment Type TR	Comment Status X			Issenhuth,	Tom	Huawei		
	a box "Carrier Phase Recov	/ery" but no subc	lause is included to	Comment	Туре Т	Comment Status X		
describe the functionalit	LY OF THIS DSP DIOCK.			Majorit	y and possibly a	Il of the annex no longer ne	eded with the rem	noval of the unamplifie
SuggestedRemedy		D		specifi	cation			
	56.10.1.2.3 titled "Carrier Ph	lase Recovery . I	Description text is TBD.	Suggested	Remedy			
Proposed Response	Response Status <b>O</b>					retaining 156A.1 which con ex from the draft including re		
C 156 SC 156.10.1.2	2.4 P84	L19	# <u>3</u> 3	Proposed I	Response	Response Status 0		
ssenhuth, Tom	Huawei							
Comment Type <b>T</b>	Comment Status X							
Number of symbols is T	BD							
SuggestedRemedy								
Replace TBD with "1000	ס"							
Proposed Response	Response Status O							

C/ 156A SC 156A