C/ 00 SC 00	Р	L	# 33	C/ 155 SC 155.2.1	P <b>37</b>	L19	# 7
D'Ambrosia, John	Futurewei, US	Subsidiary of		Huber, Tom	Nokia		
	Comment Status X ferent stack configurations, thi the different PCS / PMA	s annex should	be used to illustrate	Comment Type <b>E</b> The phrase 'GMP ma to say 'mapped using	Comment Status X pped' is often used colloquial	y, but it would be	more clear in the tex
SuggestedRemedy				SuggestedRemedy			
Presentation illustratir	ng different concepts will be pr	ovided			ded blocks are then GMP		
Proposed Response	Response Status <b>O</b>			mapped into a 400GB to "The transcoded blocl	Ks are then mapped into a 40	0GBASE-ZR fram	ne using GMP"
C/ 1 SC 1.4	P <b>19</b>	L <b>6</b>	# 5	Proposed Response	Response Status O		
Huber, Tom Comment Type E	Nokia Comment Status X			C/ 155 SC 155.2.1	P <b>37</b>	L <b>22</b>	# 8
Multiple definitions are	e being added, so the editing i	nstruction shou	ld use plural forms.	Huber, Tom	Nokia		
SuggestedRemedy				Comment Type E	Comment Status X		
Change "definition" to Proposed Response	"definitions" Response Status <b>O</b>				both a noun and an adjective ighout 802.3 is not entirely consistent.		
				SuggestedRemedy			
Cl 1 SC 1.5 Huber, Tom Comment Type E Multiple definitions are	P <b>19</b> Nokia <i>Comment Status</i> <b>X</b> e being added, so the editing in	L19	# 6	consisting of an inner to "The transmit data is o	encoded with a concatenated SC-FEC code and an outer H encoded with a concatenated SC-FEC code and an outer H	lamming code SI forward error cor	D-FEC." rection (CFEC) code
SuggestedRemedy Change "abbreviation	" to "abbreviations"			Proposed Response	Response Status <b>O</b>		
Proposed Response	Response Status <b>O</b>						
C/ 116 SC 116.1.4	P <b>29</b>	L <b>38</b>	# 34				
D'Ambrosia, John Comment Type <b>TR</b> Clause 119 and 120 a	Futurewei, US <i>Comment Status</i> <b>X</b> are not mandatory for 400GBA	Subsidiary of SE-ZR	Huawei				
SuggestedRemedy For 400GBASE-ZR -	change Clause 119 and 120 fr	om "M" to "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E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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Huber, Tom       Nokia         Comment Type       E       Comment Status X         The description of the test pattern is grammatically awkward. The first sentence of the paragraph has already established that a test pattern is transmitted when the transmit channel is in test pattern mode. The second sentence is intended to indicate what the test pattern is.       Huber, Tom       Nokia         SuggestedRemedy       Change the second sentence: "The PCS shall provide transmit test-pattern mode for the scrambled idle pattern (see 119.2.4.9)."       SuggestedRemedy       Change: The 64B/66B codestream is then transcoded into a 256B/257B stream, GMP mapped and FCC bits added in this PCS before transmission to The 64B/66B codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to The 64B/66B codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to The 64B/66B codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to The 64B/66B codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to The 64B/66B codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to The 64B/66B codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to The 64B/66B codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before tran	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	~ <b>/ • • •</b> • <b>/</b>	<b>Daz</b>	1.00	"	01.455				" 10
Comment Type       E       Comment Status X         The description of the test pattern is grammatically awkward. The first sentence of the paragraph has alreedy established that atest pattern is rammitted when the transmit channel is in test pattern is an alreedy established that atest pattern is interacted to indicate what the test pattern is a stready established that a test pattern is transmitted when the transmit est-pattern mode for the scorambled idle pattern (see 119.2.4.9)."       Comment Type       E       Comment Type		C 155.2.1	P <b>37</b>	L <b>29</b>	# 9	C/ 155	SC 155.2.3			# 12
The description of the test pattern is grammatically awkward. The first sentence of the paragraph has already sublished that a test pattern is ansamilited with the transmitted test pattern is ansamilited in the transmitted with the transmitted test pattern is ansamilited to pattern (see 119.2.4.9)." Change the second sentence: "The PCS shall provide transmit test-pattern mode for the carambiel dip pattern (see 119.2.4.9)." The transmitted test pattern shall be the scrambled idle pattern (see 119.2.4.9)." The transmitted test pattern shall be the scrambled idle pattern (see 119.2.4.9)." The transmitted test pattern shall be the scrambled idle pattern (see 119.2.4.9)." The transmitted test pattern shall be the scrambled idle pattern (see 119.2.4.9)." The transmitted test pattern shall be the scrambled idle pattern (see 119.2.4.9)." The transmitted test pattern shall be the scramble of the pattern (see 119.2.4.9)." The transmitted test pattern shall be the scramble of the pattern (see 119.2.4.9)." The transmitted test pattern shall be the scramble of the pattern (see 119.2.4.9)." The transmitted test pattern shall be the scramble of the pattern (see 119.2.4.9)." The transmitted test pattern shall be the scramble of the pattern (see 119.2.4.9)." The transmitted test pattern shall be the scramble of the pattern (see 119.2.4.9)." The transmitted test pattern shall be the scramble of the pattern (see 119.2.4.9)." The transmitted test pattern shall be the scramble of the pattern shall be the scramble of the pattern (see 119.2.4.9)." The transmitted test pattern shall be the scramble of the pattern shall be pattern (see 119.2.4.9)." The transmitted test pattern shall be the scramble of the pattern shall be the scramble of the pattern shall be pattern transmitted test pattern that the transmitted test pattern than an x. Suggested/Remedy The transmitted test pattern shall be pattern shall be pattern than an x. Suggested/Remedy The transmit	,									
paragraph has already established that a test pattern is its mamilted when the transmit channel is in test pattern mode. The second sentence is intended to indicate what the test pattern is.       mapped"         SuggestedRemedy       Change the second sentence: "The PCS shall provide transmit test-pattern mode for the scrambled idle pattern (see 119.2.4.9)."       The 648/668 codestream is then transcoded into a 2568/2578 stream, GMP mapped and FC bits added in this PCS before transmission to         The transmitted test pattern shall be the scrambled idle pattern (see 119.2.4.9)."       The 648/668 codestream is then transcoded into a 2568/2578 stream, mapped to a 4000BASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to         2/ 155 SC 155.2.1       P37       L39       # 10         1/ uber, Tom       Nokia       O         2/ 155 SC 155.2.2       P37       L39       # 10         1/ 155 SC 155.2.2       P37       L50       # 11         2/ 165 SC 155.2.2       P37       L50       # 11         2/ 165 SC 155.2.2       P37       L50       # 11         2/ 165 SC 155.2.2       P37       L50       # 11         1/ uber, Tom       Nokia       SuggestedRemedy         Change the score clear to describe demapping the MIL explicitly rather than using vice versa.       Multiplication.         2/ 165 SC 155.2.2       P37       L50       # 11         1/ uber, Tom	51									
pattern is.       Suggested/Renedy         Change the second sentence: "The PCS shall provide transmit test-pattern mode for the scrambled idle pattern (see 119.2.4.9)."       The 48/66B codestream is then transcoded into a 256B/257B stream, GMP mapped and PC bits added in this PCS before transmission to a 10 to the 48/66B codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to a 10 to the 48/66B codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmissic or the 400GBASE-ZR frame using GMP. Than CS before transmissic or the 400GBASE-ZR frame using GMP than "GM mapped", the word 'payload is missing from the description of the area of the frame into which the 257b blocks are mapped, and the multiplication symbol should be used rather than 'GM mapped', the word 'payload is missing from the description of the area of the 400GBASE-ZR frame using GMP' than "GM mapped", the word 'payload is missing from the description of the area of the 400GBASE-ZR frame using GMP' than "GM mapped," the word 'payload is missing from the description of the area of the 400GBASE-ZR frame using GMP' than "GM mapped", the word 'payload is missing from the description of the area of the 400GBASE-ZR frame using GMP' than "GM mapped", the word 'payload is missing from the description of the area of the 400GBASE-ZR frame using GMP' than "GM mapped", the word 'payload is missing from the description of the area of the 400GBASE-ZR frame using diverter mathem using vice versa.         2/ 155 SC 155.2.       P37       L50       # 11         2/ 165 SC 155.2.       P37       L50       # 11         2/ 165 SC 155.2.       P37       L50	paragraph h	has already	established that a test patter	n is transmitted v	vhen the transmit			ar to say "mapped into a	a 400GBASE-ZR 1	frame using GMP" than "GMP
Utggested/Remedy       The 6ÅB/6BB codestream is then transcoded into a 256B/257B stream, GMP mapped and the second sentence: "The PCS shall provide transmit test-pattern mode for the scrambled idle pattern (see 119.2.4.9)."         The transmitted test pattern shall be the scrambled idle pattern (see 119.2.4.9)."         Proposed Response       Response Status         C/ 155       SC 155.2.1       P37       L39       # 10         C/ 155       SC 155.2.1       P37       L39       # 10       Comment Type       E       Comment Status X       Multiplication should be indicated with a multiplication symbol rather than an x.       Suggested/Remedy       Response Status       O         Replace 510 x 512 with 510 x 512       P37       L50       # 11       Multiplication.       Suggested/Remedy       Suggested/Remedy       Suggested/Remedy       Response Status       O         C/ 155       SC 155.2.2       P37       L50       # 11       Multiplication.       Suggested/Remedy       Suggested/Remedy       Suggested/Remedy       Suggested/Remedy       Change Item 5 from:       The 6AB/6BB codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP* than 'GM       Multiplication should be indicated with a multiplication symbol rather than a x.       Suggested/Remedy       Comment Type       E       Comment Type       Comment Status X       Multiplication.         12 155       SC 155		in test patter	in mode. The second senten		indicate what the test	Suggested	Remedy			
Change the second sentence: "The PCS shall provide transmit test-pattern mode for the scrambled idle pattern (see 119.2.4.9)."       FEC bits added in this PCS before transmission to the 648/668 codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to the 648/668 codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to the 648/668 codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to the 648/668 codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to the 648/668 codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to 400GBASE-ZR frame using GMP and FEC bits are added in this PCS before transmission to the 648/668 codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to the 648/668 codestream is then transcoded into a 256B/257B stream, mapped to a 400GBASE-ZR frame using GMP, and FEC bits are added in this PCS before transmission to the 648/668 coding scheme."	SuggestedRem	nedy						eam is then transcoder	1 into a 256B/257	B stream GMP manned and
Proposed Response       Response Status       0         Cl 155       SC 155.2.1       P37       L39       # 10         Luber, Tom       Nokia       0       0         Comment Type       E       Comment Status       X         Multiplication should be indicated with a multiplication symbol rather than an x.       SuggestedRemedy       Nokia         Replace 510 x 512 with 510 × 512       0       1         Proposed Response       Response Status       0         Cl 155       SC 155.2.2       P37       L50       # 1         Luber, Tom       Nokia       SuggestedRemedy       SuggestedRemedy<	scrambled i to	idle pattern (	see 119.2.4.9)."			FEC b to The 64	its added in thi 4B/66B codestr	s PCS before transmiss ream is then transcoded	sion d into a 256B/257I	B stream, mapped to a
C/ 155       SC 155.2.1       P37       L39       # 10         Huber, Tom       Nokia         Comment Type       E       Comment Status X       Multiplication should be indicated with a multiplication symbol rather than an x.         SuggestedRemedy       Replace 510 x 512 with 510 × 512       P37       L50       # 11         Proposed Response       Response Status O       C/ 155       SC 155.2.2       P37       L50       # 11         Huber, Tom       Nokia       Change item 5 from:       The 400CBASE-ZR PCS payload is GMP mapped into the area of the 400GBASE-ZR frame using a column 10 280 of row 255. The payload size is 10 220 x 257B.       No         Comment Type       E       Comment Status X       The 400GBASE-ZR PCS payload is mapped into the payload area of the 400GBASE-ZR frame using a column 10 280 of row 255. The payload size is 10 220 x 257B.       No         SuggestedRemedy       Change "The PCS maps the 400GMII signal into 66 bit blocks, and vice versa using a 64B/66B coding scheme."       No and demaps the 400GMII signal into 66 bit blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme."       No       No	"The transm	nitted test pa	attern shall be the scrambled	idle pattern (see	9 119.2.4.9)."	400GE	BASE-ZR frame	e using GMP, and FEC	bits are added in	this PCS before transmission.
Huber, Tom       Nokia         Comment Type       E       Comment Status X         Multiplication should be indicated with a multiplication symbol rather than an x.       SuggestedRemedy         Replace 510 x 512 with 510 x 512       Comment Type       E       Comment Status X         Proposed Response       Response Status       O       E       Comment Status X         Uter, Tom       Nokia       SuggestedRemedy       Change item 5 from:       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy       Change item 5 from:       SuggestedRemedy       SuggestedR	Proposed Resp	oonse	Response Status <b>O</b>			Proposed	Response	Response Status	0	
Comment Type       E       Comment Status X         Multiplication should be indicated with a multiplication symbol rather than an x.         SuggestedRemedy         Replace 510 x 512 with 510 × 512         Proposed Response         Response Status       O         C1 155       SC 155.2.2         P37       L 50         Huber, Tom       Nokia         Comment Type       E         Comment Status X       It would be more clear to describe demapping the MII explicitly rather than using vice versa.         SuggestedRemedy       The PCS maps the 400GMII signal into 66 bit blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme."         "The PCS maps the 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme."       Comment Status X	C/ 155 SC	C 155.2.1	P <b>37</b>	L <b>39</b>	# 10	C/ 155	SC 155.2.4	.3 P39	9 L4	# 13
Multiplication should be indicated with a multiplication symbol rather than an x. SuggestedRemedy Replace 510 x 512 with 510 × 512 Proposed Response Response Response Status <b>O</b> C/ 155 SC 155.2.2 P37 L50 # 11 Huber, Tom Nokia Comment Type <b>E</b> Comment Status <b>X</b> It would be more clear to describe demapping the MII explicitly rather than using vice versa. SuggestedRemedy Change "The PCS maps the 400GMII signal in 66b bit blocks, and vice versa using a 64B/66B coding scheme." to "The PCS maps the 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme."	Huber, Tom		Nokia			Huber, To	m	Nokia		
SuggestedRemedy Replace 510 x 512 with 510 × 512       mapped", the word 'payload' is missing from the description of the area of the frame into which the 257b blocks are mapped, and the multiplication symbol should be used rather than x to indicate multiplication.         Proposed Response       Response Status       O         C/ 155       SC 155.2.2       P37       L50       # 11         Huber, Tom       Nokia       The 400GBASE-ZR PCS payload is GMP mapped into the area of the 400GBASE-ZR frame starting at column 5141 of row 0 and ending at column 10 280 of row 255. The payload size is 10 220 x 257B.         Comment Type       E       Comment Status       X         It would be more clear to describe demapping the MII explicitly rather than using vice versa.       The 400GBASE-ZR PCS payload is mapped into the payload area of the 400GBASE-ZR frame, starting at column 5141 of row 0 and ending at column 10 280 of row 255, using GMP. The payload size is 10 220 x 257B.         Change "The PCS maps the 400GMII signal into 66 bit blocks, and vice versa using a 64B/66B coding scheme."       The PCS maps the 400GMII signal into 66 bit blocks, and vice versa using a 64B/66B coding scheme.         to       "The PCS maps the 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme."       Response       Response Status       O	Comment Type	E	Comment Status X			Comment	Туре Е	Comment Status	X	
C/ 155 SC 155.2.2 P37 L50 # 11 Huber, Tom Nokia Comment Type E Comment Status X It would be more clear to describe demapping the MII explicitly rather than using vice versa. SuggestedRemedy Change "The PCS maps the 400GMII signal into 66 bit blocks, and vice versa using a 64B/66B coding scheme." to "The PCS maps the 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme.	SuggestedRem	nedy		n symbol rather	than an x.	mappe which	ed", the word 'p the 257b block	ayload' is missing from s are mapped, and the	the description of	f the area of the frame into
Cl 155       SC 155.2.2       P37       L 50       # 11         Huber, Tom       Nokia         Comment Type       E       Comment Status X         It would be more clear to describe demapping the MII explicitly rather than using vice versa.       SuggestedRemedy         Change "The PCS maps the 400GMII signal into 66 bit blocks, and vice versa using a 64B/66B coding scheme."       The 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme.	Proposed Resp	oonse	Response Status <b>O</b>			Suggested	Remedy			
C/ 155       SC 155.2.2       P37       L50       # 11         Huber, Tom       Nokia         Comment Type       E       Comment Status X         It would be more clear to describe demapping the MII explicitly rather than using vice versa.         SuggestedRemedy         Change "The PCS maps the 400GMII signal into 66 bit blocks, and vice versa using a 64B/66B coding scheme."         to         "The PCS maps the 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme."										
Huber, Tom       Nokia         Comment Type       E       Comment Status X         It would be more clear to describe demapping the MII explicitly rather than using vice versa.       The 400GBASE-ZR PCS payload is mapped into the payload area of the 400GBASE-ZR frame,         SuggestedRemedy       Status X         Change "The PCS maps the 400GMII signal into 66 bit blocks, and vice versa using a 64B/66B coding scheme."       The 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme.		C 155 2 2	D <b>37</b>	/ 50	# 11					
Comment Type <b>E</b> Comment Status <b>X</b> It would be more clear to describe demapping the MII explicitly rather than using vice versa. SuggestedRemedy Change "The PCS maps the 400GMII signal into 66 bit blocks, and vice versa using a 64B/66B coding scheme." to "The PCS maps the 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme.		0 133.2.2		230	# 11	payloa			chang at column	10 200 01 10 200. 1110
It would be more clear to describe demapping the MII explicitly rather than using vice versa. SuggestedRemedy Change "The PCS maps the 400GMII signal into 66 bit blocks, and vice versa using a 64B/66B coding scheme." to "The PCS maps the 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme.		E						PCS navload is manner	h into the navload	area of the 100CBASE-7R
SuggestedRemedy Change "The PCS maps the 400GMII signal into 66 bit blocks, and vice versa using a 64B/66B coding scheme." to "The PCS maps the 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme.	51			II explicitly rathe	r than using vice versa	frame,		.,		
64B/66B coding scheme." to "The PCS maps the 400GMII signal in 66b blocks, and demaps the 400GMII signal from 66b blocks, using a 64B/66B coding scheme.					and doing vice versu.				at column 10 280	of row 255, using GMP. The
66b blocks, using a 64B/66B coding scheme.	64B/66B co to	oding schem	e."		Ū.	Proposed	Response	Response Status	0	
				ind demaps the 4	HUUGMII signal from					
		Ū	5							

C/ 155 SC 155.2.4.3

C/ 155 SC 155.2.4.4.1 P40 L6 # 14	C/ 155 SC 155.2.4.5 P41 L26 # 16
Huber, Tom Nokia	
Comment Type       T       Comment Status       X         The AMs are used to locate the row that is the start of the frame, not the row number. There is also a stray comma before the parenthetical phrase.       SuggestedRemedy         Change:       AM alignment is processed post-FEC decode, after descrambling, to locate the row number corresponding to the start of the 400GBASE-ZR frame, (SC-FEC being already 10 970 bit row aligned).       to         AM alignment is processed post-EC decode, after descrambling, to locate the row correspondence to the start of the 400GBASE ZR frame (SC-FEC being already 10 970 bit row aligned).	Huber, Tom       Nokia         Comment Type       T       Comment Status       X         The generator polynomial G(x) is not defined anywhere in the text, which makes the detailed description of how to compute the CRC that was copied from the referenced OIF document not useful.       SuggestedRemedy         The computation is fully specified in the referenced OIF document. Delete the second sentence of the second paragraph and the entire third paragraph and bullet list, so the text reads:       A 32-bit cyclic redundancy code is calculated over 244 664 input bits as described in the OIF-400ZR-01.0, March 10, 2020, subclause 9.2.         The 32 bits of the CRC value are       Proposed Response
Proposed Response       Response Status       O         Cl 155       SC 155.2.4.4.3       P40       L21       # 15         Huber, Tom       Nokia         Comment Type       E       Comment Status       X         The reference to G.709.1 at the end of the paragraph should be preceded by ITU-T         SuggestedRemedy       Insert "ITU-T" before "G.709.1".         Proposed Response       Response Status       O	Cl       155       SC       155.2.4.5       P41       L 31       # 17         Huber, Tom       Nokia         Comment Type       E       Comment Status       X         Missing a 'd' in 'placed' in the description of where the CRC goes.       SuggestedRemedy         Change "The 32 bits of the CRC value are place with" to "The 32 bits of the CRC value are placed with"       Proposed Response         Proposed Response       Response Status       O

C/ 155 SC 155.2.4.5

C/ <b>155</b>	SC 155.2.4.5	P <b>41</b>	L <b>40</b>	# 18	C/ 155 SC 155.2.4	7 P44	L <b>3</b>	# 22
Huber, Toi	m	Nokia			Huber, Tom	Nokia		
Comment	Туре Е	Comment Status X			Comment Type E	Comment Status X		
	1 0 1	s would be better combined,			Multiplication should	be indicated with a multiplicati	on symbol rather	than an x.
		cerning the location of the MI rst sentence of the next-to-la		ed (that information is	SuggestedRemedy			
Suggested	, ,		1 3 1 /		Replace the x here a	nd in the first paragraph of 155	5.2.4.8 with multip	plication symbols
Replac Follow	ce the last two pa ing the CRC-32 a	ragraphs with: a 6-bit MBAS is added. The N nize the state of the error de			Proposed Response	Response Status <b>O</b>		
receive	er and the transm	itter. The staircase FEC imp	ementation use	s a 7-bit MBAS which	C/ 155 SC 155.2.4	7 P44	L <b>3</b>	# 21
provide transfe	es a 128-block se erred between so	equence. The six most signifi urce and sink in the 6-bit MB	cant bits of the 7 AS overhead. Th	/-bit MBAS are	Huber, Tom	Nokia		
repres	ented in the six N	IBAS overhead bits is increm			Comment Type E	Comment Status X		
	es a 128-block m				Capital B is used as t	he abbreviation for 'bit' in the	rest of the docum	nent
Proposed	Response	Response Status <b>O</b>			SuggestedRemedy Change 119b/128b to	119B/128B		
C/ 155	SC 155.2.4.6	P <b>41</b>	L <b>48</b>	# 19	Proposed Response	Response Status 0		
Huber, To	m	Nokia						
Comment	Туре Е	Comment Status X			C/ 155 SC 155.2.4	8 P44	L15	# 23
Multipl	ication should be	indicated with a multiplicatio	n symbol rather	than an italicized x.	Huber. Tom	Nokia		
Suggested					Comment Type E	Comment Status X		
Replac	ce the italicized x	's in the formula with multiplic	ation symbols.		"5 x SC-FEC blocks"	is awkward		
Proposed	Response	Response Status <b>O</b>			SuggestedRemedy Change to "five SC-F	EC blocks"		
C/ 155	SC 155.2.4.6	P <b>42</b>	L <b>1</b>	# 20	Proposed Response	Response Status 0		
Huber, Toi	m	Nokia						
Comment	Туре Е	Comment Status X						
Missin	g a 'd' in 'illustrate	ed'						
Suggested	Remedy							
	" to "which are a	added to the 400GBASE-ZR dded to the 400GBASE-ZR S						
	Response							

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

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	.9 P44	L <b>20</b>	# 24	C/ 155 SC	C 155.2.5.7	P <b>48</b>	L10	# 27
Huber, Tom	Nokia			Huber, Tom		Nokia		
Comment Type E	Comment Status X			Comment Type	Е	Comment Status X		
	d out, and no need to describre	e the size of the p	adding again here	The first se	ntence of the	e second paragraph is gramr	matically awkwar	d
,	arly described in 155.2.4.7			SuggestedRem	edy			
SuggestedRemedy				Change "Th	e beginning	of each 400GBASE-ZR fram	ne will have the A	AM and OH fields
Change the first sente	ence from: ut from the SC-encoder plus 6	v110b podding io	organized as 10.076		rst 20 x 257E	3, and are repeated every 10	) 240 x 257B."	
rows of 119b,"		ki i i so paddirig is	organized as 10 970	to The beginn	ing of each 4	00GBASE-ZR frame will ha	ve the AM and C	)H fields within the firs
to						elds are repeated every 10 2		
"The scrambled outpu 119 bits, …"	ut from the SC-encoder plus p	adding is organiz	zed as 10 976 rows of	Proposed Resp	onse	Response Status 0		
Proposed Response	Response Status 0							
				C/ 155 SC	C 155.3.2	P 50	L <b>41</b>	# 28
155 SC 155.2.5	.2 P47	L <b>20</b>	# 25	Huber, Tom		Nokia		
luber, Tom	Nokia			Comment Type	Е	Comment Status X		
Comment Type E	Comment Status X			Multiplicatio	n should be	indicated with a multiplication	on symbol rather	than an x.
	be indicated with a multiplication	on symbol rather	than an x	SuggestedRem	edy			
					via in hath f	armulas in the neregraph wi		
SuggestedPomody				Replace the		ormulas in the paragraph wi	th multiplication	symbols.
,	and elsewhere on the page, in	cluding the end o	f 155.2.5.6 on the next	Replace the Proposed Resp		Response Status <b>O</b>	th multiplication	symbols.
Replace the x's here page, with multiplicat	and elsewhere on the page, in	cluding the end o	f 155.2.5.6 on the next	Proposed Resp	onse	Response Status O		
Replace the x's here page, with multiplicat	and elsewhere on the page, in ion symbols.	cluding the end c	f 155.2.5.6 on the next	Proposed Resp Cl <b>156</b> St		Response Status 0 P63	th multiplication	symbols. # 1
Replace the x's here page, with multiplicati Proposed Response	and elsewhere on the page, in ion symbols. <i>Response Status</i> <b>O</b>	cluding the end c		Proposed Resp Cl <b>156</b> St Maniloff, Eric	onse	Response Status O P63 Ciena		
Replace the x's here page, with multiplication Proposed Response	and elsewhere on the page, in ion symbols. <i>Response Status</i> <b>O</b> .7 P48	-	f 155.2.5.6 on the next # 26	Proposed Resp C/ <b>156</b> St Maniloff, Eric Comment Type	onse C 156.1 E	Response Status O P63 Ciena Comment Status X	L12	
Replace the x's here page, with multiplication Proposed Response	and elsewhere on the page, in ion symbols. <i>Response Status</i> <b>O</b> .7 <i>P</i> 48 Nokia	-		Proposed Resp Cl <b>156</b> St Maniloff, Eric Comment Type PHY shows	onse C 1 <b>56.1</b> E 400GBASE	Response Status O P63 Ciena	L12	
Replace the x's here page, with multiplicati Proposed Response Cl 155 SC 155.2.5 Huber, Tom Comment Type E	and elsewhere on the page, in ion symbols. <i>Response Status</i> <b>O</b> .7 <i>P</i> 48 Nokia <i>Comment Status</i> <b>X</b>	L7	# 26	Proposed Resp Cl <b>156</b> SC Maniloff, Eric Comment Type PHY shows SuggestedRem	onse C <b>156.1</b> E 400GBASE edy	Response Status O P63 Ciena Comment Status X -R PCS instead of 400GBAS	L12	
page, with multiplicat Proposed Response Cl 155 SC 155.2.5 Huber, Tom Comment Type E Multiplication should I	and elsewhere on the page, in ion symbols. <i>Response Status</i> <b>O</b> .7 <i>P</i> 48 Nokia	L7	# 26	Proposed Resp Cl <b>156</b> So Maniloff, Eric Comment Type PHY shows SuggestedRem Replace 40	onse C <b>156.1</b> E 400GBASE edy 0GBASE-E v	Response Status O P63 Ciena Comment Status X -R PCS instead of 400GBAS	L12	
Replace the x's here page, with multiplicati Proposed Response Cl 155 SC 155.2.5 Huber, Tom Comment Type E Multiplication should I SuggestedRemedy	and elsewhere on the page, in ion symbols. <i>Response Status</i> <b>O</b> .7 <i>P</i> 48 Nokia <i>Comment Status</i> <b>X</b> be indicated with a multiplication	L7 on symbol rather	# 2 <u>6</u> than an x.	Proposed Resp Cl <b>156</b> SC Maniloff, Eric Comment Type PHY shows SuggestedRem	onse C <b>156.1</b> E 400GBASE edy 0GBASE-E v	Response Status O P63 Ciena Comment Status X -R PCS instead of 400GBAS	L12	
Replace the x's here page, with multiplication Proposed Response Cl 155 SC 155.2.5 Huber, Tom Comment Type E Multiplication should I SuggestedRemedy	and elsewhere on the page, in ion symbols. <i>Response Status</i> <b>O</b> .7 <i>P</i> 48 Nokia <i>Comment Status</i> <b>X</b>	L7 on symbol rather	# 2 <u>6</u> than an x.	Proposed Resp Cl <b>156</b> So Maniloff, Eric Comment Type PHY shows SuggestedRem Replace 40	onse C <b>156.1</b> E 400GBASE edy 0GBASE-E v	Response Status O P63 Ciena Comment Status X -R PCS instead of 400GBAS	L12	

C/ 156 SC 156.1

	P63	L <b>21</b>	# 35	C/ 156 SC 15	6.2 P65	L <b>23</b>	# 29
)'Ambrosia, John	Futurewei, US	S Subsidiary of H	Jawei	Huber, Tom	Nokia		
Comment Type TR	Comment Status X	120) are not noted	1	Comment Type 1		-	at dependent on the
Υ.	19) and 400GBASE-R PMA (1	120) are not noted	I		of SIGNAL_DETECT is fixed t being received, the NOTE need		iot dependent on the
SuggestedRemedy update table to include	clauses 119 and 120 as opti	onal		SuggestedRemedy	5		
Proposed Response	Response Status <b>O</b>			known to be goo	DETECT = OK does not gua d. It is possible for a poor qua CT = OK indication and still no	lity link to provide suff	ficient light for a
C/ 156 SC 156.1	P <b>63</b>	L <b>25</b>	# 36	to			
Issenhuth, Tom	Huawei				_DETECT = OK does not gua d or that the BER defined in 1		mbol parameters are
Comment Type <b>E</b> Clause 155 should not PMA for 400GBASE-Z	Comment Status X be an external cross reference R	ces for PCS for 40	00GBASE-ZR and	Proposed Response			
SuggestedRemedy				C/ 156 SC 15	6.7.1 P71	L <b>48</b>	# 40
Correct the clause 155	cross references			Issenhuth, Tom	Huawei		
					Comment Status X		
Proposed Response	Response Status <b>O</b>			Comment Type E Sentence does r	not contain location of definitio	-	
· ·	Response Status O	L <b>39</b>	# 2	51		-	
		L39	# 2	Sentence does r	not contain location of definitio	-	
<i>Cl</i> <b>156</b> <i>SC</i> <b>156.1.1</b> Maniloff, Eric	P <b>64</b>	L39	# [ <u>2</u>	Sentence does r SuggestedRemedy	not contain location of definitio	ns.	
C/ <b>156</b> SC <b>156.1.1</b> Maniloff, Eric Comment Type <b>T</b> Comment on FLR refe	P64 Ciena <i>Comment Status</i> X rences being processed by C			Sentence does r SuggestedRemedy Add location of c	not contain location of definitio	ns.	
Cl <b>156</b> SC <b>156.1.1</b> Maniloff, Eric Comment Type <b>T</b> Comment on FLR refe reference the clause 1	P64 Ciena <i>Comment Status</i> X rences being processed by C			Sentence does r SuggestedRemedy Add location of c	not contain location of definitio definitions. <i>Response Status</i> <b>C</b>	ns.	# 41
Cl <b>156</b> SC <b>156.1.1</b> Maniloff, Eric Comment Type <b>T</b> Comment on FLR refe reference the clause 1: SuggestedRemedy	P64 Ciena <i>Comment Status</i> X rences being processed by C 55 PCS.			Sentence does r SuggestedRemedy Add location of o Proposed Response	hot contain location of definition definitions. Response Status C	ns.	# [41
Cl 156 SC 156.1.1 Maniloff, Eric Comment Type T Comment on FLR refer reference the clause 1 SuggestedRemedy Change "additionally p	P64 Ciena <i>Comment Status</i> X rences being processed by C 55 PCS.	lause 119 PCS, b	ut should actually only	Sentence does r SuggestedRemedy Add location of c Proposed Response Cl 156 SC 156 Issenhuth, Tom Comment Type	hot contain location of definitions. Response Status C 6.7.2 P73 Huawei	L <b>3</b>	# [41
Cl 156 SC 156.1.1 Maniloff, Eric Comment Type T Comment on FLR reference the clause 1 SuggestedRemedy Change "additionally p (Clause 155) and PCS	P64 Ciena Comment Status X rences being processed by C 55 PCS. rocessed by the FEC	lause 119 PCS, b	ut should actually only	Sentence does r SuggestedRemedy Add location of c Proposed Response Cl 156 SC 156 Issenhuth, Tom Comment Type	hot contain location of definition definitions. <i>Response Status</i> <b>C</b> <b>6.7.2</b> <i>P</i> <b>73</b> Huawei <i>Comment Status</i> <b>X</b> hot contain location of definitio	L <b>3</b>	# <u>41</u>

C/ 156 SC 156.7.2

C/ 156 SC 156.7.2	P <b>73</b>	L13	# 30	C/ 156	SC 156.8	P <b>74</b>	L <b>27</b>	# 4
D'Ambrosia, John	Futurewei, US	Subsidiary of H	uawei	Maniloff, Eri	C	Ciena		
Comment Type ER	Comment Status X			Comment T	vpe T	Comment Status X		
Agreed upon language approproiate situation	e from 802.3ct, which is a ratifie s.	ed standard sho	uld be used in			nalty for OSNR at TP3 ≥ 34dl to a separate PMD.	3 is a separate a	application, and should
SuggestedRemedy				SuggestedR	emedy			
	156-7, change: le 156–4 corresponding to the v	variable Rx_optic	cal_channel_index	Remove separate		y from Table 156-8, or modify	to indicate that	this is applied to a
to The frequency in Tabl Rx_optical_channel_ir	le 156–4 where the channel ind ndex	ex number equa	als the variable	Proposed R	esponse	Response Status O		
Proposed Response	Response Status O			C/ 156	SC 156.9.4	P77	L15	# 37
				Issenhuth, 7	om	Huawei		
C/ 156 SC 156.7.2	P <b>73</b>	L <b>21</b>	# 3	Comment T		Comment Status X		
Maniloff, Eric	Ciena			Figure 1	56-4 is an imp	orted pdf and appears fuzzy.		
Comment Type TR	Comment Status X			SuggestedR	emedv			
21				00	,			
Receiver Sensitivity for	or an unamplified link should no	t be part of the s	same PMD as receiver	Update	figure in native	FrameMaker format to impro	ove quality	
sensitivity for an ampl burdened with a requi Table 156-7 is informa	lified link. This is a distinct appli rement to support both applicat ative, other aspects of this appl	ication, and a re tions. Although t ication are norm	ceiver should not be he sensitivity spec in	Update Proposed R	•	FrameMaker format to impro <i>Response Status</i> <b>O</b>	ove quality	
sensitivity for an ampl burdened with a requi Table 156-7 is informa required application it	lified link. This is a distinct appli rement to support both applicat	ication, and a re tions. Although t ication are norm	ceiver should not be he sensitivity spec in	-	•		bve quality	# 38
sensitivity for an ampl burdened with a requi Table 156-7 is informa required application it SuggestedRemedy	ified link. This is a distinct appli rement to support both applicat ative, other aspects of this appl should be defined as a separat	ication, and a re tions. Although t ication are norm te PMD.	ceiver should not be the sensitivity spec in ative. If this is a	Proposed R	SC 156.9.6	Response Status O		# 38
sensitivity for an ampl burdened with a requi Table 156-7 is informa required application it SuggestedRemedy	lified link. This is a distinct appli rement to support both applicat ative, other aspects of this appl	ication, and a re tions. Although t ication are norm te PMD.	ceiver should not be the sensitivity spec in ative. If this is a	Proposed R Cl 156	SC <b>156.9.6</b>	Response Status 0		# <u>38</u>
sensitivity for an ampl burdened with a requi Table 156-7 is informa required application it SuggestedRemedy Remove sensitivity sp this.	ified link. This is a distinct appli rement to support both applicat ative, other aspects of this appl should be defined as a separat	ication, and a re tions. Although t ication are norm te PMD.	ceiver should not be the sensitivity spec in ative. If this is a	Proposed R Cl <b>156</b> Issenhuth, T Comment Ty	SC <b>156.9.6</b>	Response Status O P78 Huawei Comment Status X		# 38
sensitivity for an ampl burdened with a requi Table 156-7 is informa required application it SuggestedRemedy Remove sensitivity sp this.	lified link. This is a distinct appli rement to support both applicat ative, other aspects of this appl should be defined as a separat pec from Table 156-7, or modify	ication, and a re tions. Although t ication are norm te PMD.	ceiver should not be the sensitivity spec in ative. If this is a	Proposed R Cl <b>156</b> Issenhuth, T Comment Ty	SC <b>156.9.6</b> Form SC <b>156.9.6</b> Form SC <b>156.9.6</b> Form	Response Status O P78 Huawei Comment Status X		# 38
sensitivity for an ampl burdened with a requi Table 156-7 is informa required application it SuggestedRemedy Remove sensitivity sp this. Proposed Response	iffied link. This is a distinct appli rement to support both applicat ative, other aspects of this appl should be defined as a separat bec from Table 156-7, or modify <i>Response Status</i> <b>O</b>	ication, and a re tions. Although t ication are norm te PMD.	ceiver should not be the sensitivity spec in ative. If this is a	Proposed R Cl <b>156</b> Issenhuth, T Comment Ty Figure 1 SuggestedR	SC 156.9.6 Form Type E 56-5 is incomp emedy the figure 156-5	Response Status O P78 Huawei Comment Status X	L <b>42</b>	
sensitivity for an ampl burdened with a requi Table 156-7 is informa required application it SuggestedRemedy Remove sensitivity sp this. Proposed Response	ified link. This is a distinct appli rement to support both applicat ative, other aspects of this appl should be defined as a separat pec from Table 156-7, or modify <i>Response Status</i> <b>O</b> <i>P</i> <b>73</b> Huawei	ication, and a re tions. Although t ication are norm te PMD. r to define a sepa	ceiver should not be the sensitivity spec in native. If this is a arate PMD supporting	Proposed R Cl <b>156</b> Issenhuth, T Comment Ty Figure 1 SuggestedR Comple	SC 156.9.6 Fom type E 56-5 is incomp emedy the figure 156-5	Response Status 0 P78 Huawei Comment Status X olete.	L <b>42</b>	
sensitivity for an ampl burdened with a requi Table 156-7 is informa required application it SuggestedRemedy Remove sensitivity sp this. Proposed Response	iffied link. This is a distinct appli rement to support both applicat ative, other aspects of this appl should be defined as a separat bec from Table 156-7, or modify <i>Response Status</i> <b>O</b>	ication, and a re tions. Although t ication are norm te PMD. r to define a sepa	ceiver should not be the sensitivity spec in native. If this is a arate PMD supporting	Proposed R Cl <b>156</b> Issenhuth, T Comment Ty Figure 1 SuggestedR Comple 13.1.210	SC 156.9.6 Fom type E 56-5 is incomp emedy the figure 156-5	Response Status <b>0</b> P <b>78</b> Huawei <i>Comment Status</i> <b>X</b> olete. to be consistent with the figu	L <b>42</b>	
sensitivity for an ampl burdened with a requi Table 156-7 is informa required application it SuggestedRemedy Remove sensitivity sp this. Proposed Response CI 156 SC 156.8 Issenhuth, Tom Comment Type E	ified link. This is a distinct appli rement to support both applicat ative, other aspects of this appl should be defined as a separat bec from Table 156-7, or modify <i>Response Status</i> <b>O</b> <i>P</i> <b>73</b> Huawei <i>Comment Status</i> <b>X</b> ontain location of definitions.	ication, and a re tions. Although t ication are norm te PMD. r to define a sepa	ceiver should not be the sensitivity spec in native. If this is a arate PMD supporting	Proposed R Cl <b>156</b> Issenhuth, T Comment Ty Figure 1 SuggestedR Comple 13.1.210	SC 156.9.6 Fom type E 56-5 is incomp emedy the figure 156-5	Response Status <b>0</b> P <b>78</b> Huawei <i>Comment Status</i> <b>X</b> olete. to be consistent with the figu	L <b>42</b>	

C/ 156 SC 156.9.6

C/ 156	SC	156.9.10	P <b>79</b>	L18	# 39				
Issenhuth,	Tom		Huawei						
Comment EVM d		<b>T</b> on in incom	Comment Status X plete.						
Suggested Update			based on output from EVM	ad hoc					
Proposed I	Respo	nse	Response Status O						
C/ 156A	SC	156A.2	P89	L <b>37</b>	# 31				
D'Ambrosi	D'Ambrosia, John		Futurewei, US Subsidiary of Huawei						
Comment	Туре	TR	Comment Status X						
OSNR optical	erating is bety power	g ranges in ween TBD r at	Figure 156A–3 can be rou dB (12.5 GHz) and TBD df d –16 dBm						
	e the -	•	the noted sentence to -12, lue.	and modify the T	BD in Fig 156A-3 to				
Proposed I	Respo	nse	Response Status O						
C/ 156A	SC	156A.3	P91	L <b>5</b>	# 32				
D'Ambrosi	a, Joh	n	Futurewei, U	JS Subsidiary of H	luawei				
Comment	Туре	TR	Comment Status X						
"should	d be ai	mplified to	ower range is incorrect a channel output range of - A-1, the range is -12 dBM t		1."				
Suggested	Reme	dy							
		-16 dBM to 16 dBM to	o -12 dBm -12 dBM throughout the re	st of the subclaus	e as appropriate				
Proposed I	Respo	nse	Response Status 0						

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

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