FM SC FM P124 L20 #	¢ 81	CI <b>30</b>	SC 30	).5.1.1.2	P <b>20</b>	L17	# 25	
we, Piers Nvidia		Huber, To	m		Nokia			
nment TypeEComment StatusDMissing tab in the format for some contents entries?	bucket	Comment The te	erm 'DWD	E M system	Comment Status <b>D</b> n' is not present in the c	orresponding text fo		b <i>uck</i> e า
gestedRemedy Fix or re-apply the template?		802.30 Suggested			be present here.			
posed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.		PMD	with reach	up to at	so the text reads 400Gl least 80 km as specifie		GBASE-ZR PMA o	ver a
There is no page 124 in the document so not clear on the specific issue raise spacing and text wrap issues were noticed in the table contents and these wi		Proposed PROP	Response POSED A		Response Status W			
· • ·	# 82	C/ 116	SC 11	6.1.3	P <b>28</b>	L13	# 84	
	62	Dawe, Pie	ers		Nvidia			
we, Piers Nvidia		Comment		TR	Comment Status D			
nment Type TR Comment Status A Saying simply that 400GBASE-Z uses 400GBASE-R encoding is misleading					0GBASE-Z is an "IEEE d needs introduction he		sical Layer device	s",
this isn't just another BASE-R. A distinguishing feature is OTN-like GMP franciscolocking. Also, the next definition, for 400GBASE-ZR, says "using 400GBASE	ming and	Suggested	dRemedy					
encoding", phase and amplitude modulation and coherent detection, the sam		Add a	sentence	introduci	ing the 400GBASE-Z fa	mily.		
There has to be some difference between 400GBASE-R and 400GBASE-Z -		Proposed	Response	Э	Response Status W			
the difference is GMP.		PROP	POSED RI	EJECT.	,			
ngestedRemedy								-
Change "using 400GBASE-R encoding, a combination of phase and amplitude modulation" to "using 400GBASE-R encoding, GMP retiming and framing, of phase and amplitude modulation".		Ethere		ion over <b>I</b>	corresponding text in 80 DWDM systems, and th			
sponse Response Status C		C/ 116	SC 11	6.1.3	P <b>28</b>	L <b>23</b>	# 85	
ACCEPT IN PRINCIPLE.		Dawe, Pie	ers		Nvidia			
Change "using 400GBASE-Z encoding" to "using 400GBASE-R encoding".	No other	Comment	Туре	TR	Comment Status D			
changes to the text. This description aligns with the corresponding text in 80 was the first project to define Etherent operation over DWDM systems, and t intention is to ensure that 802.3cw is aligned with 802.3ct.	2.3ct, which	using GMP i	400GBAS	SE-Z enco nd frameo	E-ZR uses 400GBASE oding. As the encoding d, 400GBASE-Z encodi lete).	is not regular 400G	BASE-R encoding	but
		Suggested	dRemedy					
		Chang	ge "400GE	BASE-R e	encoding" to "400GBAS	E-Z encoding".		
		Proposed PROF	Response POSED RI		Response Status W			
		Ethere	ent operat	ion over l	corresponding text in 80 DWDM systems, and th See response to comm	e stated intention is		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 116	Page 1 of 19
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 116.1.3	5/6/2021 11:00:56 AM
SORT ORDER: Clause, Subclause, page, line		

r, Tom Nokia nent Type <b>T</b> Comment Status <b>A</b> robably best to split out 200G and 400G here, so that the 400G part can refer to both	Dawe, Piers Nvidia
19/120 and 155.	Comment Type E Comment Status D bu P802.3ck is changing this subclause and comes before this project in the list of amendments.
estedRemedy	SuggestedRemedy
evise the text to read as follows:	Update the draft to include P802.3ck's changes as necessary
he term 200GBASE-R refers to a specific family of Physical Layer implementations based pon the 64B/66B coding method specified in clause 119 and the PMA specifications efined in clause 120. The term 400GBASE-R refers to a specific family of Physical Layer performance the 64B/66B coding method specified in clause 110 are 120.	Proposed Response Response Status W PROPOSED ACCEPT.
nplementations based upon the 64B/66B coding method specified in clause 119 or 155 nd the PMA specifications defined in Clause 120 or 155. 200GBASE-R and 400GBASE-R	C/ 116 SC 116.2.5 P30 L25 # 87
CSs perform encoding (decoding) of data from (to) the 200GMII or 400GMII to 256B/257B ode blocks, apply FEC, distribute the data to multiple lanes, and transfer the encoded	Dawe, Piers Nvidia
ata to	Comment Type TR Comment Status D
ne PMA.	Clause 156 is for 400GBASE-ZR which isn't a 400GBASE-R PMD, it's a 400GBASE-Z PMD.
he 200GBASE-R PCS has almost the same functionality as the 200GXS, and therefore nay be configured as a 200GXS in order to implement part of the optional 200GMII	SuggestedRemedy
xtender (see Clause 118). The 400GBASE-R PCS has almost the same functionality as	Change "400GBASE-R" to "400GBASE" in this sentence.
ne 400GXS, and therefore may be configured as a 400GXS in order to implement part of the optional 400GMII Extender (see Clause 118).	Proposed Response Response Status W
onse Response Status C	PROPOSED REJECT.
CCEPT. 6 SC 116.2.4 P30 L17 # 27	The use of x00GBASE-R is consistent between 802.3ct, which was the first project to define Etherent operation over DWDM systems, and 802.3ct and the stated intention is t ensure that 802.3cw is aligned with 802.3ct.
r, Tom Nokia	C/ 116 SC 116.4 P30 L38 # 89
ment Type T Comment Status A	Dawe, Piers Nvidia
ince the 400GBASE-ZR PMA is different, it is perhaps easiest to just add a sentence in ont of the existing text.	Comment Type T Comment Status D
estedRemedy	As this table contains entries for both 400GBASE-R and 400GBASE-Z
hange from: "The 200GBASE-R and 400GBASE-R PMAs are specified in Clause 120."	SuggestedRemedy
	For footnotes a and b, change 400GBASE-R to 400GBASE
he 400GBASE-ZR PMA is specified in clause 155. The 200GBASE-R PMA and all other	Proposed Response Response Status W
00GBASE-R PMAs are specified in Clause 120	PROPOSED REJECT.
00GBASE-R PMAs are specified in Clause 120. 00se Response Status <b>C</b>	
	There is no 400GBASE-Z PMA.

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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C/ 116 SC 116.4	P <b>30</b>	L <b>38</b>	# 88	C/ 155	SC 155.1.	1 P33	L <b>20</b>	# 28
Dawe, Piers	Nvidia			Huber, Tor	n	Nokia		
<i>comment Type</i> <b>T</b> Need an entry for the c	Comment Status <b>D</b> delay of the 400GBASE-Z PM	A		Comment Missin		<i>Comment Status</i> 54B and 66B	D	bucket
uggestedRemedy Add a row for the delay	y of the 400GBASE-Z PMA			<i>Suggested</i> Chang	<i>Remedy</i> e 64B66B to 6	64B/66B		
roposed Response PROPOSED REJECT	Response Status W			Proposed PROP	Response OSED ACCEI	Response Status PT.	w	
There is no 400GBAS	E-Z PMA.			C/ 155	SC 155.1.2	2 P34	L <b>3</b>	# 1
7 116 SC 116.5	P <b>31</b>	L <b>9</b>	# 90	Bruckman	, Leon	Huaw	ei	
awe, Piers	Nvidia			Comment	51	Comment Status	-	bucket
comment Type <b>T</b>	Comment Status D			In follo not	wing clauses	the PCS and PMA are re	eferred to as shaded,	out in the figure they are
As this table contains	entries for both 400GBASE-R	and 400GBASE	-Z	Suggested	Romody			
uggestedRemedy					-	CS and PMA blocks in Fi	aure 155-1	
Change "400GBASE-F	R" to "400GBASE"			Proposed		Response Status	0	
roposed Response	Response Status W			•	OSED ACCEI	,		
PROPOSED REJECT								
There is no 400GBAS	F-7 PMA			C/ 155	SC 155.1.2	2 P <b>3</b> 4	L19	# <u>2</u>
			"	Bruckman		Huaw		
155 SC 155	P33	L <b>2</b>	# 91	Comment	51	Comment Status	D	bucket
awe, Piers	Nvidia			400GA	UI-n is not m	entioned in the figure		
omment Type TR	Comment Status D		nomenclature	Suggested				
type what? This PHY called "4000	GBASE-ZR" in this draft is sim	ilar in intent to 1	0GBASE-LW: the	Remov	e the 400GA	UI-n definition from the F	igure 155-1 text	
output from a BASE-R	PCS is transmitted in telecon ive to S, L or E, is familiar from	ns style framing.	While Z in the first	Proposed PROP	Response OSED ACCEI	Response Status PT.	W	
uggestedRemedy				C/ 155	SC 155.1.2	2 P34	L19	# 57
	GBASE-ZW. Change 400GE	BASE-ZR to 400	GBASE-ZW	Maniloff, E	ric	Ciena		
throughout, change 40	0GBASE-Z to 400GBASE-W	throughout.		Comment	Туре Е	Comment Status	D	bucket
roposed Response	Response Status W			400GA	UI-n does not	t appear in this figure		
PROPOSED REJECT				Suggested	Remedy			
This text aligns with th	e corresponding text in 802.3	ct which was the	e first project to define	Remov	/e 400GAUI-n	from the acronym defin	tions list	
	er DWDM systems, and the st			Proposed PROP	Response OSED ACCEI	Response Status PT.	w	
•	ed ER/editorial required GR/ spatched A/accepted R/reje			0	Z/withdrawn		C/ 155 SC 155.1.2	Page 3 of 19 5/6/2021 11:00:59

C/ <b>155</b>	SC	155.1.3	P <b>34</b>	L <b>38</b>	# 94	
Dawe, Pier	s		Nvidia			
Comment	Гуре	TR	Comment Status D			GMP
			and relies so heavily on ve and reference risks a		on-802.3 docume	nt that
Suggested	Remed	ły				
			able examples (see Anr ailable separately on th		ea). Large exam <sub>l</sub>	oles
Proposed I	Respor	ise	Response Status N	1		
for disc	cussior	ı				
C/ 155	SC	155.1.4	P <b>35</b>	L1	# 3	
Bruckman,	Leon		Huawei			
Comment 1	Гуре	т	Comment Status D			data rate
59.843 has a r	e: "The 75 x (2 ate at	e 400GBA 28/29) Gsy the PMA s	SE-ZR PCS has a nom mbol/s on each of two service interface of (28/ plarizations"	polarizations" with	"The 400GBASE	-ZR PCS
Proposed I	Respor	ise	Response Status N	1		
C/ 155	SC	155.1.4	P <b>35</b>	L <b>2</b>	# 29	
Huber, Tor	n		Nokia			
Comment	Гуре	т	Comment Status D			data rate
stream and no	s of 16 t really	QAM sym	interface between PCS ibols, and that two pola it with how the Tx path M symbols.	rizations are used,	that seems too d	etailed
Suggested	Domo	lv				
Suggesteu	Remea	.,				
State t	he non		at the PMA service inte	face as ~462 Gbit	/s rather than as a	a symbol
State t	he non r polar	ninal rate a ization.	at the PMA service inter		/s rather than as a	a symbol

C/ 155	SC 155.1.4.1	P <b>35</b>	L11	# 30
Huber, Tor	n	Nokia		
	51	Comment Status <b>D</b> pecify both 200GMII and he 400GMII.	400GMII the PCS s	<i>MII description</i> ervice interface for
Suggested Delete	,	e parenthetical "(200GMI	I/400GMII)"	
Proposed I PROP	Response OSED ACCEPT.	Response Status W		
C/ 155	SC 155.2.1	P <b>36</b>	L11	# <u>3</u> 1
Huber, Tor	n	Nokia		
Comment	Туре Т	Comment Status D		PMA inputs

The text here describes the Tx interface between the PCS and PMA as two streams of 4-bit symbols. Figure 155-2 and other text in 155.2.x describes it as 8 bitstreams, and 155.3 describes how the PMA creates the 16QAM symbols and distributes them to the two polarizations.

## SuggestedRemedy

Proposed Response

It appears that the intent is that the interface between PCS and PMA in the Tx direction be described as 8 bitstreams, and the PMA is responsible for turning that into two streams of 16QAM symbols. Change "When communicating with the PMA in the transmit direction, the 400GBASE-ZR PCS provides two streams of 4-bit 16-state quadrature amplitude modulation (16QAM) symbols." to "When communicating with the PMA in the transmit direction, the 400GBASE-ZR PCS provides 8 digital lanes, which the PMA encodes into 2 streams of 16QAM symbols."

C/ 155	SC 155.2.1	P <b>37</b>	L <b>47</b>	# 32
Huber, To	om	Nokia		
Comment	Туре Т	Comment Status D		bucket
	sentence would fit in test-pattern mo	better as part of the earlier p de.	aragraph about	the transmit channel
Currente				

Response Status W

SuggestedRemedy

Move the sentence to the end of the paragraph on line 29.

Proposed Response Response Status W PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 155	Page 4 of 19
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 155.2.1	5/6/2021 11:00:59 AM
SORT ORDER: Clause, Subclause, page, line		

Cl 155	SC 155.2.2	P <b>37</b>	L <b>51</b>	# 33	C/ 155 SC '
Huber, To	m	Nokia			Bruckman, Leon
	ng a B in 64/66B	Comment Status D		bucket	<i>Comment Type</i> The "mapper" same in this s
	ge to "64B/66B".				SuggestedRemed Replace: "The
•	Response POSED ACCEPT.	Response Status W			Proposed Respon
C/ 155	SC 155.2.4.1	P <b>38</b>	L12	# 58	C/ 155 SC <sup>·</sup>
Maniloff, E	Eric	Ciena			
Comment	Туре Т	Comment Status D		GMP description	Huber, Tom
		matching isn't required is co is not needed because AM			Comment Type Since the deta clause here.
Suggestee	dRemedy				
on the	transcoded block	ate that rate-matching is not s.	t needed becau	se AM's are not inserted	SuggestedRemed Revise list iter 155.2.4.4.3."
Proposed	Response	Response Status W			Proposed Respon
					PROPOSED
C/ 155	SC 155.2.4.3	P <b>38</b>	L <b>28</b>	# 34	C/ 155 SC '
Huber, To	m	Nokia			
Comment	Туре Т	Comment Status D		bucket	Huber, Tom
blocks bits is the fra	s, which are viewe not clearly stated	ame is confusing. The text and as an array of 256 by 102 in the text (it is clear in the f d in the text (it is clear in the f d into 257B blocks - it just of	80 bits, but the igure). Also, the	switch from blocks to e overhead portion of	Comment Type It would be mo first, and then filled in for the is set to zero,
Suggestee	dRemedy				interleaving ne handled in the
		tence of the first paragraph			SuggestedRemed
transn		as a structure with 256 rows it to right, top to bottom. Thi of payload			Replace the te are interleave
	Response POSED ACCEPT.	Response Status W			320 bits is des first set of 320 (MFAS) byte,

C/ 155	SC 15	5.2.4.3	P <b>3</b> 9	)	L <b>4</b>	# 4
Bruckmar	n, Leon		Huaw	ei		
	napper" is	referrred	<i>Comment Status</i> to in the previous consistency.		tence as the "GMP n	<i>bucket</i> napper". Call it the
Suggestee	dRemedy					
Repla	ce: "The m	apper val	ues" with: "The GI	MP۱	mapper values"	
•	Response POSED AC		Response Status	w		
C/ 155	SC 15	5.2.4.3	P39	9	L <b>5</b>	# <u>3</u> 5
Huber, To	m		Nokia			
			<i>Comment Status</i> erhead are in 155.	-	4.3, it would be bette	<i>bucket</i> er to just reference that
Suggestee	dRemedy					
	e list item 3 .4.4.3."	3) to read	as follows: "The n	ext	1280 bits carry OH b	ytes, as discussed in
•	Response POSED AC		Response Status	w		
C/ 155	SC 15	5.2.4.4.3	P <b>4</b> (	)	L <b>26</b>	# 36
Huber, To	m		Nokia			
Comment	Туре Т	-	Comment Status	D		OH description
It wou	ld be more	clear if th	e specific overhea	ad fu	unctions that are sup	ported are mentioned

nore clear if the specific overnead functions that are in the note that other OH defined in G.709.1 is not used. Also the value to be ne unused bytes should be clearly specified (G.709.1 says unsourced overhead o, so that is suggested here as well), and the editor's note concerning needs to be addressed. The details of the JC OH being multiframed are better he later clause that is specific to that overhead.

## dy

text with the following: The overhead is organized into 4 sets of 320 bits that ed in groups of 10 bits to form the 1280 bit field. The contents of each group of escribed in ITU-T G.709.1 clauses 8.1 and 9.2. For 400GBASE-ZR, only the 20 bits is used, and within those bits, only the multi-frame alignment signal (MFAS) byte, status byte, and six justification control bytes JC1 to JC6 are used. Other overhead defined in G.709.1 is not used and is set to 0.

Proposed Response Response Status W

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

Cl	155
SC	155.2.4.4.3

C/ 155 SC 155.2.4.4.3 P40 L29	<b>9</b> # <u>5</u>	C/ 155 SC 155.2.4.4.5	5 P <b>40</b>	L <b>44</b>	# 38
Bruckman, Leon Huawei		Huber, Tom	Nokia		
Comment Type E Comment Status D	bucket	Comment Type T	Comment Status D		replacement signal
The "mapper" is referrred to in the previous sentence as the ' same in this sentence for consistency.	'GMP mapper". Call it the		cement signal to insert (thi	s is what ITU and	d OIF both specify)
SuggestedRemedy		SuggestedRemedy	معافلهم والمنتجم وتعافلهم وما		ha fallau únas ha Aha anna
Replace: "The mapper values" with: "The GMP mapper value	es"		ce of the clause and the ed GBASE-ZR frame or multi-		0
Proposed Response Response Status W			blocks carrying LF ordere		
PROPOSED ACCEPT.		Proposed Response	Response Status W		
C/ 155 SC 155.2.4.4.4 P40 L39	<b>#</b> <u>3</u> 7	C/ 155 SC 155.2.4.4.5	5 P <b>41</b>	L <b>5</b>	# 7
Huber, Tom Nokia				23	# /
Comment Type T Comment Status D	bucket	Bruckman, Leon	Huawei		
There are apply 4,200 bit instances in the symplectic the MEAS		Comment Type E	Comment Status D		bucket
There are only 4 320-bit instances in the overhead; the MFAS	s is only in the first one.	51			DUCKEL
	s is only in the first one.	Redundant text			DUCKER
SuggestedRemedy Change "The MFAS is in the first four 320-bit OH instances"		51			Ducker
SuggestedRemedy		Redundant text SuggestedRemedy Replace "The 3-bit LDI fit	eld is defined to indicate to		n 400GBASE-ZR PHY
SuggestedRemedy Change "The MFAS is in the first four 320-bit OH instances" t the four 320-bit OH instances."		Redundant text <i>SuggestedRemedy</i> Replace "The 3-bit LDI fit to indicate the quality" wi	ield is defined to indicate to		n 400GBASE-ZR PHY
SuggestedRemedy Change "The MFAS is in the first four 320-bit OH instances" t the four 320-bit OH instances."		Redundant text SuggestedRemedy Replace "The 3-bit LDI fit to indicate the quality" wi 400GBASE-ZR PHY the	eld is defined to indicate to ith "The 3-bit LDI field is de quality"		n 400GBASE-ZR PHY
SuggestedRemedy Change "The MFAS is in the first four 320-bit OH instances" to the four 320-bit OH instances." Proposed Response Response Status W PROPOSED ACCEPT.	to "The MFAS is in the first of	Redundant text SuggestedRemedy Replace "The 3-bit LDI fit to indicate the quality" wi 400GBASE-ZR PHY the Proposed Response	ield is defined to indicate to		n 400GBASE-ZR PHY
SuggestedRemedy         Change "The MFAS is in the first four 320-bit OH instances."         the four 320-bit OH instances."         Proposed Response       Response Status         PROPOSED ACCEPT.         C/ 155       SC 155.2.4.4.4	to "The MFAS is in the first of	Redundant text SuggestedRemedy Replace "The 3-bit LDI fit to indicate the quality" wi 400GBASE-ZR PHY the Proposed Response PROPOSED ACCEPT.	eld is defined to indicate to ith "The 3-bit LDI field is de quality" <i>Response Status</i> <b>W</b>	efined to indicate	n 400GBASE-ZR PHY to the downstream
SuggestedRemedy         Change "The MFAS is in the first four 320-bit OH instances."         the four 320-bit OH instances."         Proposed Response       Response Status         W         PROPOSED ACCEPT.         CI 155       SC 155.2.4.4.4         Pruckman, Leon       Huawei	to "The MFAS is in the first of # 6	Redundant text SuggestedRemedy Replace "The 3-bit LDI fit to indicate the quality" wi 400GBASE-ZR PHY the Proposed Response	eld is defined to indicate to ith "The 3-bit LDI field is de quality" <i>Response Status</i> <b>W</b>		n 400GBASE-ZR PHY
SuggestedRemedy         Change "The MFAS is in the first four 320-bit OH instances."         Proposed Response       Response Status         PROPOSED ACCEPT.         CI 155       SC 155.2.4.4.4         Pruckman, Leon       Huawei         Comment Type       E	to "The MFAS is in the first of	Redundant text SuggestedRemedy Replace "The 3-bit LDI fit to indicate the quality" wi 400GBASE-ZR PHY the Proposed Response PROPOSED ACCEPT.	eld is defined to indicate to ith "The 3-bit LDI field is de quality" <i>Response Status</i> <b>W</b>	efined to indicate	n 400GBASE-ZR PHY to the downstream
SuggestedRemedy         Change "The MFAS is in the first four 320-bit OH instances."         Proposed Response       Response Status         PROPOSED ACCEPT.         C/       155       SC 155.2.4.4.4       P40       L40         Bruckman, Leon       Huawei         Comment Type       E       Comment Status       D         The MFAS is a wrapping counter       The MFAS is a wrapping counter	to "The MFAS is in the first of # 6	Redundant text SuggestedRemedy Replace "The 3-bit LDI fit to indicate the quality" wi 400GBASE-ZR PHY the Proposed Response PROPOSED ACCEPT. CI 155 SC 155.2.4.4.5	ield is defined to indicate to ith "The 3-bit LDI field is de quality" <i>Response Status</i> <b>W</b>	efined to indicate	n 400GBASE-ZR PHY e to the downstream # <u>59</u>
SuggestedRemedy         Change "The MFAS is in the first four 320-bit OH instances."         Proposed Response       Response Status         PROPOSED ACCEPT.         Cl 155       SC 155.2.4.4.4         Paul       L40         Bruckman, Leon       Huawei         Comment Type       E         Comment Type       E         Counter       SuggestedRemedy	to "The MFAS is in the first of	Redundant text SuggestedRemedy Replace "The 3-bit LDI fit to indicate the quality" wi 400GBASE-ZR PHY the Proposed Response PROPOSED ACCEPT. CI 155 SC 155.2.4.4.5 Maniloff, Eric Comment Type T	ield is defined to indicate to ith "The 3-bit LDI field is de quality" <i>Response Status</i> <b>W</b> <b>P41</b> Ciena	efined to indicate	n 400GBASE-ZR PHY e to the downstream # <u>59</u>
SuggestedRemedy         Change "The MFAS is in the first four 320-bit OH instances."         Proposed Response       Response Status         PROPOSED ACCEPT.         CI 155       SC 155.2.4.4.4       P40       L40         Bruckman, Leon       Huawei         Comment Type       E       Comment Status       D         The MFAS is a wrapping counter	to "The MFAS is in the first of	Redundant text SuggestedRemedy Replace "The 3-bit LDI fit to indicate the quality" wi 400GBASE-ZR PHY the Proposed Response PROPOSED ACCEPT. CI 155 SC 155.2.4.4.5 Maniloff, Eric Comment Type T	ield is defined to indicate to ith "The 3-bit LDI field is de quality" <i>Response Status</i> <b>W</b> <b>6 P41</b> Ciena <i>Comment Status</i> <b>D</b>	efined to indicate	n 400GBASE-ZR PHY to the downstream
SuggestedRemedy         Change "The MFAS is in the first four 320-bit OH instances."         Proposed Response       Response Status         PROPOSED ACCEPT.         C/       155         SC 155.2.4.4.4       P40         L40         Bruckman, Leon       Huawei         Comment Type       E         Comment Status       D         The MFAS is a wrapping counter         SuggestedRemedy	to "The MFAS is in the first of	Redundant text SuggestedRemedy Replace "The 3-bit LDI fit to indicate the quality" wi 400GBASE-ZR PHY the Proposed Response PROPOSED ACCEPT. C/ 155 SC 155.2.4.4.5 Maniloff, Eric Comment Type T Need complete OH diagr SuggestedRemedy	ield is defined to indicate to ith "The 3-bit LDI field is de quality" <i>Response Status</i> <b>W</b> <b>6 P41</b> Ciena <i>Comment Status</i> <b>D</b>	efined to indicate	n 400GBASE-ZR PHY e to the downstream # <u>59</u>

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C/ 155	SC 155.2.4.4.6	6 P41	L <b>14</b>	# 39	C/ 155	SC	155.2.4.5	P <b>41</b>	L <b>30</b>	# 10
Huber, Tor	m	Nokia			Bruckma	n, Leon		Huawei		
	Id be helpful to intr	Comment Status <b>D</b> roduce the multiframed aspe are in the OIF 400ZR IA.	ect of this overhe	<i>GMP descript</i> ad here and also		<i>Type</i> g plural	E	Comment Status D		bucke
Suggested Insert t across	<i>Remedy</i> this text at the sta the second, third t order bits of the N	rt of the clause: The justifica , and fourth frames of a four MFAS) as described in OIF <i>Response Status</i> <b>W</b>	r-frame multifram	ne (based on the two	code Proposed	ce "A 3 is calcu <i>Respol</i>	2-bit cyclic lated"	redundancy codes is calcul Response Status W	ated" with: "A 32	e-bit cyclic redundancy
					C/ 155	SC	155.2.4.5	P <b>41</b>	L <b>31</b>	# 40
C/ 155	SC 155.2.4.4.6	6 P <b>41</b>	L15	# 8	Huber, To	m		Nokia		
Bruckman.		Huawei	210	# 0	Comment	Туре	т	Comment Status D		CRC descriptior
Comment 3		Comment Status D		GMP descript			or polynomia ntended.	al is clearly not described in	3.2.9 of 802.3.	It is unclear what
		ecover the data blocks from	the payload.		Suggeste	dReme	dy			
Suggested	IRemedy				Provi	de the c	orrect cross	s-reference. The generator	polynomial is dis	scussed in 9.2 of OIF
Suggested Replac 257B b	<i>. IRemedy</i> ce "which are then blocks to the same	ecover the data blocks from used by the receive path G e" with "which are then use a blocks and re-time them to	GMP de-mapper t ed by the receive		Provio 400Z	de the c R IA; is	correct cross that the inte	s-reference. The generator ended reference? <i>Response Status</i> <b>W</b>	polynomial is die	scussed in 9.2 of OIF
Suggested Replac 257B b to reco	<i>Remedy</i> ce "which are then blocks to the same over the 275B data	used by the receive path G e" with "which are then use	GMP de-mapper t ed by the receive		Provio 400Z	de the c R IA; is	correct cross that the inte	ended reference?	polynomial is dis	scussed in 9.2 of OIF
Suggested Replac 257B b to reco	<i>Remedy</i> ce "which are then blocks to the same over the 275B data	used by the receive path G e" with "which are then us a blocks and re-time them to	GMP de-mapper t ed by the receive		Provio 400Z	te the c R IA; is <i>Respor</i>	correct cross that the inte	ended reference?	polynomial is dis	scussed in 9.2 of OIF # <u>11</u>
Suggested Replac 257B b to reco Proposed I	dRemedy ce "which are then blocks to the same over the 275B data Response	used by the receive path G e" with "which are then us a blocks and re-time them to <i>Response Status</i> <b>W</b>	GMP de-mapper t ed by the receive o the same"	e path GMP de-mappe	Provin 400Z Proposed	de the c R IA; is <i>Respol</i> SC	correct cross that the inte nse	ended reference? Response Status W		
Suggested Replac 257B b to reco Proposed I Cl 155	IRemedy IRemedy ce "which are then blocks to the same over the 275B data Response SC <b>155.2.4.5</b>	used by the receive path G e" with "which are then use a blocks and re-time them to <i>Response Status</i> <b>W</b> <i>P</i> <b>41</b>	GMP de-mapper t ed by the receive		Provi 400Z Proposed C/ 155	de the c R IA; is <i>Respor</i> SC n, Leon	correct cross that the inte nse	ended reference? Response Status W P <b>42</b>		
Suggested Replac 257B b to reco Proposed I Cl 155 Bruckman	<i>IRemedy</i> ce "which are then blocks to the same over the 275B data <i>Response</i> <i>SC</i> <b>155.2.4.5</b> I, Leon	used by the receive path G e" with "which are then use a blocks and re-time them to <i>Response Status</i> <b>W</b> <i>P</i> <b>41</b> Huawei	GMP de-mapper t ed by the receive o the same"	e path GMP de-mappe # <u>9</u>	C/ 155	de the c R IA; is <i>Respol</i> SC n, Leon <i>Type</i>	that the intense nse	P42 Comment Status D		# [ <u>11</u>
Suggested Replac 257B b to reco Proposed I CI 155 Bruckman, Comment	<i>IRemedy</i> ce "which are then blocks to the same over the 275B data <i>Response</i> <i>SC</i> <b>155.2.4.5</b> I, Leon <i>Type</i> <b>E</b>	used by the receive path G e" with "which are then us a blocks and re-time them to <i>Response Status</i> <b>W</b> <i>P</i> <b>41</b> Huawei <i>Comment Status</i> <b>D</b>	GMP de-mapper t ed by the receive o the same"	e path GMP de-mappe	C/ 155	de the c R IA; is <i>Respor</i> <i>SC</i> n, Leon <i>Type</i> cesary n	that the internet cross that t	P42 Comment Status D		# [ <u>11</u>
Suggested Replac 257B b to reco Proposed I Cl 155 Bruckman, Comment Unnec Suggested	IRemedy IRemedy ce "which are then blocks to the same over the 275B data Response SC 155.2.4.5 I, Leon Type E cessary new line an IRemedy	used by the receive path G e" with "which are then use a blocks and re-time them to <i>Response Status</i> <b>W</b> <i>P</i> <b>41</b> Huawei <i>Comment Status</i> <b>D</b> nd missing chracter	GMP de-mapper t ed by the receive o the same"	# 9	C/ 155 C/ 155 Bruckman Comment Ket Suggeste	de the c R IA; is <i>Respol</i> SC n, Leon <i>Type</i> cesary v d <i>Reme</i> d ce "req	that the internse 155.2.4.6 E word (IMHC	P42 Comment Status D	L12	# 11 bucke
Suggested Replac 257B t to reco Proposed I Cl 155 Bruckman, Comment Unnec Suggested Make " paragr	<i>dRemedy</i> ce "which are then blocks to the same over the 275B data <i>Response</i> <i>SC</i> <b>155.2.4.5</b> I, Leon <i>Type</i> <b>E</b> cessary new line and <i>dRemedy</i> "Each SC-FEC blo	used by the receive path G e" with "which are then us a blocks and re-time them to <i>Response Status</i> <b>W</b> <i>P</i> <b>41</b> Huawei <i>Comment Status</i> <b>D</b>	GMP de-mapper t ed by the receive o the same" <i>L</i> 27 4 664 bits." part d	# 9buc.	CI 155 CI 155 CI 155 CI 155 Comment Co	de the c R IA; is Respoi SC n, Leon Type cesary n dRemed ce "req ng" Respoi	155.2.4.6 E word (IMHC dy uires an add	P42 Comment Status D	L12	# 11 bucke

C/ 155 SC 155.2.4.6 bucket

C/ 155 SC 155.2.	4.8	P <b>44</b>	L <b>8</b>	# 12	C/ 155	SC 155.2.5.7.	2 P <b>48</b>	L <b>41</b>	# 14
Bruckman, Leon		Huawei			Bruckman,	Leon	Huawei		
Comment Type E	Comment S	tatus <b>D</b>		bucket	Comment 7	<i>уре</i> <b>Т</b>	Comment Status D		OH descriptior
There seem to be a	missing space after	er the dot			The se confusi	•	he RPF bit, although ident	ical to the one in (	G.709.1, is a little bit
SuggestedRemedy		hander an <b>f</b> iller a	····	u anatian U	Suggested	0			
Add a space betwee		0 0	sentence "I ne o	peration."	00	,	ndicates that a signal fail s	tatus was detecte	d by the remote
Proposed Response PROPOSED ACCE	Response St PT.	tatus W			400GB the ups	ASE-ZR receive	function in the upstream d that a signal fail status wa	irection" with: "Th	e RPF bit indicates, in
C/ 155 SC 155.2.	5.1	P <b>47</b>	L <b>5</b>	# 41	Proposed F	Response	Response Status W		
Huber, Tom		Nokia							
Comment Type T	Comment S	tatus D		SD-FEC description	C/ 155	SC 155.2.5.7.	2 P48	L <b>4</b> 8	# 15
The text is difficult to	o parse.				Bruckman,		– Huawei		
					Braokinan,	Loon	ridawor		
,					Comment 7	vpe E	Comment Status D		bucke
SuggestedRemedy Replace the first sei second sentence as					Comment 7 Wrong		Comment Status D		bucke
Replace the first ser second sentence as incoming 128-bit SE	s shown: The Hamı D-FEC codeword. T	ming SD-FEC	decoder extrac SD-FEC codewo	ts 119 bits from an rd is formed from a		tense	Comment Status D		bucke
second sentence as incoming 128-bit SE	s shown: The Hamı D-FEC codeword. T tion of sixteen DP-	ming SD-FEC The incoming \$ 16QAM symbo	decoder extrac SD-FEC codewo	ts 119 bits from an	Wrong Suggested	tense Remedy	Comment Status D se 118" with "defined in Cl	ause 118"	bucke
Replace the first ser second sentence as incoming 128-bit SE digitized representa	s shown: The Hamı D-FEC codeword. T tion of sixteen DP-	ming SD-FEC The incoming S 16QAM symbo the PMA	decoder extrac SD-FEC codewo	ts 119 bits from an rd is formed from a	Wrong Suggested Replac Proposed F	tense R <i>emedy</i> e "define in Clau	se 118" with "defined in Cl Response Status W	ause 118"	bucke
Replace the first ser second sentence as incoming 128-bit SE digitized representa are digitized to an m Proposed Response	s shown: The Hami D-FEC codeword. T tion of sixteen DP- n-bit resolution by t <i>Response Si</i>	ming SD-FEC The incoming S 16QAM symbo the PMA	decoder extrac SD-FEC codewo	ts 119 bits from an rd is formed from a	Wrong Suggested Replac Proposed F	tense R <i>emedy</i> e "define in Clau Response	se 118" with "defined in Cl Response Status W	ause 118" 	bucke # <u>1</u> 6
Replace the first set second sentence as incoming 128-bit SE digitized representa are digitized to an m Proposed Response Cl 155 SC 155.2.	s shown: The Hami D-FEC codeword. T tion of sixteen DP- n-bit resolution by t <i>Response Si</i> 5.7.1	ming SD-FEC The incoming \$ 16QAM symbo the PMA tatus <b>W</b>	decoder extrac SD-FEC codewo ols. The incomir	ts 119 bits from an rd is formed from a g DP-16QAM symbols	Wrong Suggestedi Replac Proposed F PROPO	tense Remedy e "define in Clau Response DSED ACCEPT. SC <b>155.2.5.8</b>	se 118" with "defined in Cl Response Status W		
Replace the first set second sentence as incoming 128-bit SE digitized representa are digitized to an m Proposed Response Cl 155 SC 155.2. Bruckman, Leon	s shown: The Hami D-FEC codeword. T tion of sixteen DP- n-bit resolution by t <i>Response Si</i> 5.7.1	ming SD-FEC The incoming S 16QAM symbo the PMA tatus W P48 Huawei	decoder extrac SD-FEC codewo ols. The incomir	ts 119 bits from an rd is formed from a g DP-16QAM symbols	Wrong Suggestedi Replac Proposed F PROPO Cl 155	tense Remedy e "define in Clau Response DSED ACCEPT. SC <b>155.2.5.8</b> Leon	se 118" with "defined in Cl <i>Response Status</i> W P <b>49</b>		
Replace the first set second sentence as incoming 128-bit SE digitized representa are digitized to an m Proposed Response Cl 155 SC 155.2. Bruckman, Leon	s shown: The Hami D-FEC codeword. T tion of sixteen DP- n-bit resolution by t <i>Response Si</i> 5.7.1 <i>Comment S</i>	ming SD-FEC The incoming S 16QAM symbo the PMA tatus W P48 Huawei	decoder extrac SD-FEC codewo ols. The incomir	ts 119 bits from an rd is formed from a ig DP-16QAM symbols # 13	Wrong Suggestedi Replac Proposed F PROPO CI 155 Bruckman, Comment T	tense Remedy e "define in Clau Response DSED ACCEPT. SC <b>155.2.5.8</b> Leon	se 118" with "defined in Cl <i>Response Status</i> <b>W</b> <i>P</i> <b>49</b> Huawei		# [ <u>1</u> 6
Replace the first set second sentence as incoming 128-bit SE digitized representa are digitized to an m Proposed Response Cl 155 SC 155.2. Bruckman, Leon Comment Type T The MFAS is a wrap	s shown: The Hami D-FEC codeword. T tion of sixteen DP- n-bit resolution by t <i>Response Si</i> 5.7.1 <i>Comment S</i>	ming SD-FEC The incoming S 16QAM symbo the PMA tatus W P48 Huawei	decoder extrac SD-FEC codewo ols. The incomir	ts 119 bits from an rd is formed from a ig DP-16QAM symbols # 13	Wrong Suggestedi Replac Proposed F PROPO CI 155 Bruckman, Comment T	tense Remedy e "define in Clau Response DSED ACCEPT. SC <b>155.2.5.8</b> Leon Type <b>T</b> g clause	se 118" with "defined in Cl <i>Response Status</i> <b>W</b> <i>P</i> <b>49</b> Huawei		# [ <u>1</u> 6
Replace the first set second sentence as incoming 128-bit SE digitized representa are digitized to an m Proposed Response Cl 155 SC 155.2. Bruckman, Leon Comment Type T The MFAS is a wrap SuggestedRemedy	s shown: The Hami D-FEC codeword. T tion of sixteen DP- n-bit resolution by t <i>Response</i> Si <b>5.7.1</b> <i>Comment</i> S oping counter	ming SD-FEC The incoming S 16QAM symbol the PMA tatus W P48 Huawei tatus D	decoder extrac SD-FEC codewo ols. The incomir	ts 119 bits from an rd is formed from a ig DP-16QAM symbols # 13	Wrong Suggestedu Replac Proposed F PROPO Cl 155 Bruckman, Comment T Missing Suggestedu There i	tense Remedy e "define in Clau Response DSED ACCEPT. SC <b>155.2.5.8</b> Leon Type <b>T</b> g clause Remedy s no clause that	se 118" with "defined in Cl <i>Response Status</i> <b>W</b> <i>P</i> 49 Huawei <i>Comment Status</i> <b>D</b> describes the GMP de-ma	L <b>1</b> pper, something li	# [ <u>16</u> <i>GMF</i> ike: "The GMP de-
Replace the first set second sentence as incoming 128-bit SE digitized representa are digitized to an m Proposed Response Cl 155 SC 155.2. Bruckman, Leon Comment Type T The MFAS is a wrap SuggestedRemedy	s shown: The Hami D-FEC codeword. T tion of sixteen DP- n-bit resolution by t <i>Response</i> Si <b>5.7.1</b> <i>Comment</i> S oping counter	ming SD-FEC The incoming S 16QAM symbolic the PMA tatus W P48 Huawei Etatus D " with "It is a w	decoder extrac SD-FEC codewo ols. The incomir	ts 119 bits from an rd is formed from a ig DP-16QAM symbols # <u>13</u> <i>bucket</i>	Wrong Suggestedu Replac Proposed F PROPO Cl 155 Bruckman, Comment T Missing Suggestedu There i	tense Remedy e "define in Clau Response DSED ACCEPT. SC 155.2.5.8 Leon Type T g clause Remedy s no clause that r uses the JC by	se 118" with "defined in Cl <i>Response Status</i> <b>W</b> <i>P</i> <b>49</b> Huawei <i>Comment Status</i> <b>D</b>	L <b>1</b> pper, something li	# [ <u>16</u> <i>GMF</i> ike: "The GMP de-

C/ 155 SC 155.2.5.8

C/ 155	SC 155.3.1.3	P <b>49</b>	L <b>44</b>	# 97	C/ 155	SC 155.3.3.5	P58	L <b>48</b>	# 96
0awe, Pier	rs	Nvidia			Dawe, Pier	S	Nvidia		
omment	Type <b>TR</b>	Comment Status D		PMA	Comment	Гуре Т	Comment Status	D	bucket
		er's PMA. Frame alignmen ilot sequences (PS) are mo			PMA:IS	S_UNITDATA_0	.indication to PMA:IS_	UNITDATA_3.indica	ation
		y directive risks ambiguity.	e like PCS lunci	ions, and complicated	Suggested	Remedy			
uggested		, , , , , , , , , , , , , , , , , , , ,			PMD:IS	S_UNITDATA_0	indication to PMD:IS_	UNITDATA_3.indic	ation
As for	a PCS: add an ar	nnex with suitable examples e made available separately	<b>`</b>	A for the idea). Large	Proposed F PROP	Response DSED ACCEPT	Response Status	W	
Proposed I	Response	Response Status W			C/ 155	SC 155.3.3.6	P59	L <b>21</b>	# 19
					Bruckman,	Leon	Huawe	i	
2/ 155	SC 155.3.2	P <b>50</b>	L <b>32</b>	# 17	Comment	Гуре Е	Comment Status	D	bucket
Bruckman,	, Leon	Huawei			Missing	g plural			
c <i>omment</i> T Missing	51	Comment Status D		bucket	Suggested Replac		am" with: "into two strea	ams"	
Suggested Add do	Remedy ot after "400GBAS	SE-ZR PCS"			Proposed F	Response DSED ACCEPT	Response Status	w	
•	Response OSED ACCEPT.	Response Status W			C/ 155	SC 155.3.3.6		L <b>41</b>	# 20
	00 455 3 3	054	/ 40	# 40	Bruckman,		Huawe		
가 <b>155</b> Bruckman,	SC <b>155.3.2</b> , Leon	P <b>51</b> Huawei	L <b>49</b>	# 18	Comment T Not cle		Comment Status I is referred here	D	cross reference
comment T	Туре Т	Comment Status D		PMA	Suggested	Remedy			
Senter	nce is not clear, a	nd also the "SIL" acronym s	hall be called out	here.	00		55", but this is clause <sup>·</sup>	155, so either repal	ce with "according to this
uggested	Remedy				clause'	' or write the righ	nt clause.		
indicati	ion logic that repo	SIGNAL.indication primitive orts", with "The PMA:IS_SIG on logic (SIL) that reports"			Proposed F	Response	Response Status	W	
0	Response	Response Status W			C/ 155	SC 155.7	P <b>60</b>	L <b>31</b>	# 60
500001					Maniloff, E	ric	Ciena		
					Comment 7 Delay I	51	Comment Status I ns is incorrect, actual		Delay constraints
					<i>Suggested</i> Update	R <i>emedy</i> delay with actu	al value.		
					Proposed I	•	Response Status	w	
OMMENT	Γ STATUS: D∕dis	d ER/editorial required GR/ patched A/accepted R/reje pclause, page, line				Z/withdrawn		C/ 155 SC 155.7	Page 9 of 19 5/6/2021 11:01:00

C/ 156 SC 156.1	P <b>64</b>	L <b>25</b>	# 61	C/ 156 SC 15	6.2	P <b>65</b>	L19	# 21
Maniloff, Eric	Ciena			Bruckman, Leon	•	Huawei		
Comment Type E	Comment Status D		bucket	Comment Type	r Com	ment Status A		
ZR is incomplete name				5	use 156.5.4 SIC	SNAL_DETECT is f	ixed to OK. This	ahhl be reflected in
SuggestedRemedy				thetext here				
Replace ZR with 400GE	BASE-ZR			SuggestedRemedy				
Proposed Response PROPOSED ACCEPT.	Response Status W			FAIL." with "The	SIGNAL_DETE	ECT parameter car ECT parameter valu ECT = FAIL, the rx	e is fixed to OK."	
C/ 156 SC 156.1.1	P <b>64</b>	L <b>37</b>	# 62	2 - Just remove			,	
Maniloff, Eric	Ciena			Response	Respo	nse Status C		
Comment Type <b>T</b> BER of 2.4E-4 is incorre	Comment Status A			ACCEPT IN PR	INCIPLE.			
SuggestedRemedy Replace 2.4E-4 with cor	rrect value of ~1.26e-2			When SIGNAL_ to	DETECT = FAI	<pre>parameter can tak _, the rx_symbol pa eter takes a fixed van</pre>	rameters are und	values: OK or FAIL. lefined."
Response ACCEPT IN PRINCIPLE	Response Status <b>C</b> =			C/ 156 SC 15	6.2	P <b>65</b>	L <b>23</b>	# 22
Replace 2.4E-4 with cor				Bruckman, Leon Comment Type	r Com	Huawei ment Status <b>R</b>		
C/ 156 SC 156.2	P <b>65</b>	L19	# 83	21		on light received, it	is fixed to OK	
Dawe, Piers	Nvidia			SuggestedRemedy				
Comment Type T	Comment Status A					ence: "It is possible	,	•
	IAL_DETECT parameter can , while 156.5.4 says that SIG		s fixed to OK.	sufficient light fo 156.1.1."	or a SIGNAL_DE	TECT = OK indica	tion and still not r	neet the BER defined ir
SuggestedRemedy	,			Response	Respo	nse Status <b>C</b>		
	ed with non-amplified channe signal detect function with tw		REJECT. This text exactly matches the corresponding text in 802.3ct 154.2 and the stated intentio					
Response	Response Status <b>C</b>					ned with 802.3ct.		
ACCEPT IN PRINCIPLE	,							
Saa raananaa ta aamm	ent 21. No change to 156.5.	٨						

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 156.2 Page 10 of 19 5/6/2021 11:01:00 AM

156 S	C 156.5.1	P <b>67</b>	L <b>7</b>	# 103	C/ 156	SC 156.6	P68	L37	# 98
we. Piers		Nvidia		" 100	Dawe. Pie		Nvidia		
mment Type	• TR	Comment Status R			Comment		Comment Status R		
TP2 and TF	P3 are test p	oints for the PMD. The way ck link is causing problems,			Chann		ported, they are transmission	paths. Signals n	nay be transported or
		ord between 2 m and 5 m in I			Suggested	Remedy			
to be at the The input to others) is th	e same point. to the "Fiber on he MDI.	optic cabling (channel)" (see	Figure 38-7, Fig	ure 151-7 or many	Chang multipl	e "enable the t	ransport of multiple DWDM ch nels over a single fiber" or "er fiber".		
		nes for the output of the PMD	) (such as "MDI"	, "PMD" or	Response		Response Status C		
	<i>,,</i>	one could be invented.			REJEC	CT.			
ggestedRem				<i></i>	This to	wt ovootly moto	has the corresponding tout in	902 2 of 154 6	which was the first
in so many appropriate	v clauses, and e.	nnel" as from MDI to MDI, sa d or "link segment" (see 1.4.3	309). Use a figur	e like Figure 151-7 if	project	t to define Ethe	thes the corresponding text in rent operation over DWDM sy s aligned with 802.3ct.		
		in the "DWDM channel", or th WDM channel" for use, whic			C/ 156	SC 156.6	P <b>69</b>	L <b>32</b>	# 63
sponse		Response Status C			Maniloff, E	ric	Ciena		
REJECT.	TP2 and TP	3 in clause 156 is the same a	as 802.3ct claus	e 154. which was the			Comment Status A be indexed to in figure 156-3	to define intra ar	nd inter-channel
		herent operation over DWDN is aligned with 802.3ct.	I systems, and	the stated intention is	Suggested	Remedy			
156 S	C 156.5.1	P <b>67</b>	L16	# 77	•		2_i and TP3 with TP3_i		
irk, Charles		Juniper Netwo	arks		Response		Response Status C		
mment Type	e E	Comment Status D		bucket	ACCE	PT IN PRINCIF	PLE.		
Figure 156-	-2,	in Fig. 156-2 need to be corr	rected.	bucket			I TP3_i as suggested. The us channel spectral attenuation a		
ggestedRem		Ū							
00	-	.request to PMD:IS_UNITDA	ATA_3.request"						
		indication to PMD:IS UNITE	DATA_3.indication	on"					
"PMD:IS_U		—							
"PMD:IS_U oposed Resp	—	– Response Status W							

C/ 156 SC 156.6

C/ 156 SC	156.6	P <b>69</b>	L <b>47</b>	# 78	CI 156 SC	5 156.7.1	P <b>72</b>	L17	# 64
Park, Charles		Juniper Netwo	orks		Maniloff, Eric		Ciena		
Comment Type	т	Comment Status R			Comment Type	т	Comment Status A		Interchannel cross ta
	number and c	corresponding optical freque enting the channel center					nes a single point on the tra channel crosstalk penalties		
SuggestedReme	dy				SuggestedRem	edy			
	le summarizing g description in	g the channel index numben the text.	er and center fre	equency for 100GHz			rsion with a Maximum and illable to define this.	minimum spect	ral mask. A supporting
Alternatively	refer the table	e 154-6 in IEEE802.3ct for	100GHz arid o	r refer ITI I_T G 607 1	Response		Response Status C		
		index assignment for two			ACCEPT IN				
Response	R	Response Status <b>C</b>					Ad Hoc was formed to discu		
REJECT.					was capture	d in manilo	Gb compared to 100 GHz s ff_3cw_01a_210429 and p ich showed clear consensu	resented on 4/2	9. During the meeting a
		IEEE P802.3ct task force decision was made while t			l would sup	oort adoptin	g the optical crosstalk prop	osal defined in	
the IEEE P80 This decision teleconference	02.3ct project. n was then rea			on April 2nd interim	maniloff_3c • Yes – 28 • No – 2 • Abstain - 6	w_01a_210			
the IEEE P80 This decision teleconference Cl 156 SC	02.3ct project. n was then rea ce meeting.	firmed by the IEEE P802.3	3cw task force o		maniloff_3c • Yes – 28 • No – 2 • Abstain - 6	w_01a_210			0429 with editorial license
the IEEE P80 This decision teleconference C/ 156 SC Park, Charles	02.3ct project. n was then rea ce meeting. 156.7.1	firmed by the IEEE P802.3	3cw task force o	on April 2nd interim	maniloff_3c • Yes – 28 • No – 2 • Abstain - 6 Implement f	w_01a_210	429		
the IEEE P80 This decision teleconference Cl 156 SC Park, Charles Comment Type	02.3ct project. n was then rea ce meeting. 156.7.1 T (	firmed by the IEEE P802.3 P <b>72</b> Juniper Netwo	3cw task force o <i>L</i> <b>12</b> ırks	on April 2nd interim # [79	maniloff_3c • Yes – 28 • No – 2 • Abstain - 6 Implement f	w_01a_210 he recomm	429 endations stated in manilo	ff_3cw_01a_210 <i>L</i> <b>18</b>	0429 with editorial license # <u>42</u>
the IEEE P80 This decision teleconference Cl 156 SC Park, Charles Comment Type In Table 156	02.3ct project. n was then rea ce meeting. 156.7.1 T (	firmed by the IEEE P802.3 <b>P72</b> Juniper Netwo Comment Status <b>R</b> nter frequency is referring	3cw task force o <i>L</i> <b>12</b> ırks	on April 2nd interim # [79	maniloff_3c • Yes – 28 • No – 2 • Abstain - 6 Implement f C/ <b>156</b> Sc Zhang, Bo	w_01a_210 he recomm	429 endations stated in manilo <i>P</i> <b>72</b> Marvell / Inp	ff_3cw_01a_210 <i>L</i> <b>18</b>	
the IEEE P80 This decision teleconference Cl 156 SC Park, Charles Comment Type In Table 156- center freque	02.3ct project. n was then rea ce meeting. 156.7.1 T ( -6, nominal ce ency of 75GHz	firmed by the IEEE P802.3 <b>P72</b> Juniper Netwo Comment Status <b>R</b> nter frequency is referring	3cw task force o <i>L</i> <b>12</b> vrks Table 156-4, w	n April 2nd interim # [ <u>79</u> hich indicating the	maniloff_3c • Yes – 28 • No – 2 • Abstain - 6 Implement f C/ <b>156</b> SC Zhang, Bo Comment Type	w_01a_210 he recomm C 156.7.1 TR	429 endations stated in manilo	ff_3cw_01a_210 <i>L</i> 18 phi	# 42
the IEEE P80 This decision teleconference Cl 156 SC Park, Charles Comment Type In Table 156- center freque Center freque	02.3ct project. n was then rea ce meeting. 156.7.1 T ( -6, nominal ce ency of 75GHz ency for 100G	firmed by the IEEE P802.3 P72 Juniper Netwo Comment Status R Inter frequency is referring grid spacing.	3cw task force o <i>L</i> 12 wrks Table 156-4, w	n April 2nd interim # [ <u>79</u> ] hich indicating the	maniloff_3c • Yes – 28 • No – 2 • Abstain - 6 Implement f <i>Cl</i> <b>156</b> <i>SC</i> Zhang, Bo <i>Comment Type</i> Side-mode <i>SuggestedRem</i>	w_01a_210 he recomm C 156.7.1 TR suppression ady	429 endations stated in manilo P <b>72</b> Marvell / Inp <i>Comment Status</i> <b>A</b> n ratio (SMSR) is not a rele	ff_3cw_01a_210 <i>L</i> <b>18</b> ohi vant Tx spec fo	# <u>42</u> r 400GBASE-ZR
the IEEE P80 This decision teleconference Cl 156 SC Park, Charles Comment Type In Table 156- center freque Center freque Better to prov	02.3ct project. n was then rea ce meeting. <b>156.7.1</b> <b>T</b> ( -6, nominal ce ency of 75GHz ency for 100G vide the chann	firmed by the IEEE P802.3 P72 Juniper Netwo Comment Status R nter frequency is referring grid spacing. Hz grid is different from th	3cw task force o <i>L</i> 12 wrks Table 156-4, w	n April 2nd interim # [ <u>79</u> ] hich indicating the	maniloff_3c • Yes – 28 • No – 2 • Abstain - 6 Implement f <i>Cl</i> <b>156</b> <i>SC</i> Zhang, Bo <i>Comment Type</i> Side-mode <i>SuggestedReme</i> Replace SM	w_01a_210 he recomm C 156.7.1 TR suppressior edy ISR spec w	429 endations stated in manilo P <b>72</b> Marvell / In <i>Comment Status</i> <b>A</b>	ff_3cw_01a_210 <i>L</i> <b>18</b> ohi vant Tx spec fo	# <u>42</u> r 400GBASE-ZR
the IEEE P80 This decision teleconference Cl <b>156</b> SC Park, Charles Comment Type In Table 156- center freque Center freque Better to prov SuggestedRemen	02.3ct project. n was then rea ce meeting. <b>156.7.1</b> <b>T</b> ( -6, nominal ce ency of 75GHz ency for 100G vide the chann	firmed by the IEEE P802.3 <b>P72</b> Juniper Netwo <i>Comment Status</i> <b>R</b> nter frequency is referring grid spacing. Hz grid is different from th hel index and corresponding	3cw task force o <i>L</i> 12 wrks Table 156-4, w	n April 2nd interim # [ <u>79</u> ] hich indicating the	maniloff_3c • Yes – 28 • No – 2 • Abstain - 6 Implement f C/ 156 SC Zhang, Bo Comment Type Side-mode SuggestedRemode Replace SM OpenROAD	w_01a_210 he recomm C 156.7.1 TR suppressior edy ISR spec w	429 endations stated in manilo <b>P72</b> Marvell / Inp <i>Comment Status</i> <b>A</b> n ratio (SMSR) is not a rele ith out-of-band OSNR (min	ff_3cw_01a_210 <i>L</i> <b>18</b> ohi vant Tx spec fo	# <u>42</u> r 400GBASE-ZR
the IEEE P80 This decision teleconference Cl 156 SC Park, Charles Comment Type In Table 156- center freque Center freque Better to prov SuggestedRemen	02.3ct project. n was then rearce meeting. <b>156.7.1</b> <b>T</b> ( -6, nominal ceancy of 75GHz ency for 100G vide the chann <i>dy</i> ext correspond	firmed by the IEEE P802.3 <b>P72</b> Juniper Netwo Comment Status <b>R</b> nter frequency is referring a grid spacing. Hz grid is different from the hel index and corresponding tingly	3cw task force o <i>L</i> 12 wrks Table 156-4, w	n April 2nd interim # [ <u>79</u> ] hich indicating the	maniloff_3c • Yes – 28 • No – 2 • Abstain - 6 Implement f C/ 156 SC Zhang, Bo Comment Type Side-mode SuggestedRem Replace SM OpenROAD Response	w_01a_210 he recomm C 156.7.1 TR suppressior edy (SR spec w M	429 endations stated in manilo P <b>72</b> Marvell / Inp <i>Comment Status</i> <b>A</b> n ratio (SMSR) is not a rele ith out-of-band OSNR (min <i>Response Status</i> <b>C</b>	ff_3cw_01a_210 <i>L</i> <b>18</b> ohi vant Tx spec fo	# <u>42</u> r 400GBASE-ZR
the IEEE P80 This decision teleconference Cl 156 SC Park, Charles Comment Type In Table 156- center freque Center freque Better to prov SuggestedRement change conte	02.3ct project. n was then rearce meeting. <b>156.7.1</b> <b>T</b> ( -6, nominal ceancy of 75GHz ency for 100G vide the chann <i>dy</i> ext correspond	firmed by the IEEE P802.3 <b>P72</b> Juniper Netwo <i>Comment Status</i> <b>R</b> nter frequency is referring grid spacing. Hz grid is different from th hel index and corresponding	3cw task force o <i>L</i> 12 wrks Table 156-4, w	n April 2nd interim # [ <u>79</u> ] hich indicating the	maniloff_3c • Yes – 28 • No – 2 • Abstain - 6 Implement f C/ 156 SC Zhang, Bo Comment Type Side-mode SuggestedRemode Replace SM OpenROAD	w_01a_210 he recomm C 156.7.1 TR suppressior edy (SR spec w M	429 endations stated in manilo P <b>72</b> Marvell / Inp <i>Comment Status</i> <b>A</b> n ratio (SMSR) is not a rele ith out-of-band OSNR (min <i>Response Status</i> <b>C</b>	ff_3cw_01a_210 <i>L</i> <b>18</b> ohi vant Tx spec fo	# <u>42</u> r 400GBASE-ZR

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

Cl	156
SC	156.7.1

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	P <b>72</b>	L <b>20</b>	# 44	C/ 156 SC 156.7.1 P72 L26 # 45
Zhang, Bo	Marvell / Inphi		17 <b>44</b>	Zhang, Bo Marvell / Inphi
Comment Type TR	Comment Status A s to be companioned with la		e spec	Comment Type TR Comment Status D address TBD for EVM (max)
(13.1.210)	ec from OIF published 4002 Response Status <b>C</b> t 65.	ZR IA - laser fre	quency noise mask	progress. Note that test methodology detailed in way_3ct_01b_1119.pdf might be different than that from pittala_3ct_01a_191205 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
C/ 156 SC 156.7.1	P <b>72</b>	L <b>20</b>	# 65	See response to comment 24.
Maniloff, Eric	Ciena			C/ 156 SC 156.7.1 P72 L28 # 43
Comment Type T	Comment Status A			Zhang, Bo Marvell / Inphi
A single value for the line SuggestedRemedy	width is insufficient for a co	herent receiver.		Comment Type TR Comment Status A address TBD for I-Q offset (max)
,	aser Frequency Noise mas	sk		SuggestedRemedy
Response	Response Status C	л.		Adopt DC I-Q offset of -26dB and instantaneous I-Q offset of -20dB from OIF 400ZR spec to ensure interoperability between 400ZR and 400GBASE-ZR
ACCEPT IN PRINCIPLE.				Response Response Status C
	aser linewidth (max)" with " efinitions 156.9 with editori		y Noise mask". Val	ues ACCEPT IN PRINCIPLE.
Implement lager phase pe	ise spec consistent with O	IE published 400	7PIA looor	See response to comment 67.
	.1.210) with editorial licens			Cl 156 SC 156.7.1 P72 L28 # 67
OIE IA available at https:/	/www.oiforum.com/wp-cont	ent/unloads/OIE	-4007R-	Maniloff, Eric Ciena
01.0_reduced2.pdf.	www.onorum.com/wp-cont	ent/uploads/On	-400211-	Comment Type <b>T</b> Comment Status <b>A</b> I-Q Offset should include both a max instantaneous and mean value
				SuggestedRemedy Split I/Q offset into maximum instantaneous and mean values
				Response Response Status C ACCEPT IN PRINCIPLE.
				In Table 156-6 replace "I-Q offset (max)" with "I-Q (max instantaneous)" and "I-Q (mean)". Use values consistent with the published OIF 400ZR IA "13.1.270a and 13.1.270b". Update parameter definitions 156.9, with editorial license.
				OIF IA available at https://www.oiforum.com/wp-content/uploads/OIF-400ZR- 01.0_reduced2.pdf.
TYPE: TR/technical required COMMENT STATUS: D/dispa	tched A/accepted R/rejec			orial G/general         Cl         156         Page 13 of 19           en W/written C/closed Z/withdrawn         SC         156.7.1         5/6/2021         11:01:0

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 156.7.1	P <b>72</b>	L <b>33</b>	# 66	C/ <b>156</b>	SC 156.7.2	P <b>73</b>	L17	# 49
Maniloff, Eric	Ciena			Zhang, Bo		Marvell / Inphi	i	
Comment Type <b>T</b> Laser RIN is missing from	Comment Status A			<i>Comment</i> Value	<i>Type</i> <b>TR</b> in damage thres	Comment Status <b>D</b> hold is empty		bucke
SuggestedRemedy				Suggestea	IRemedy			
Add an entry for RIN Aver	rage and an entry for RIN	peak		Either	remove this dan	nage threshold spec or add a	TBD in the valu	e cell
Response ACCEPT IN PRINCIPLE.	Response Status C			Proposed PROP		Response Status W IN PRINCIPLE.		
In Table 156-6 add entries				Add TI	BD as value			
the published OIF 400ZR license.	IA "13.1.212". Update pa	rameter definition	is 156.9 with editorial	C/ 156	SC 156.7.2	P <b>73</b>	L <b>24</b>	# 68
OIF IA available at https://	/www.oiforum.com/wp.com	stont/uploads/OIE	1007P	Maniloff, E	Fric	Ciena		
01.0_reduced2.pdf.	/www.onorum.com/wp-cor	itent/uploads/Oil	-400211-	Comment	Туре Т	Comment Status A		
2/ 156 SC 156.7.2	P <b>73</b>	L14	# 80	Receiv	ver OSNR specs	should be defined relative to	-12dBm	
Park, Charles	Juniper Netw		# 00	Suggested Replac	<i>IRemedy</i> ce -16dBm with ·	12dBm		
Comment Type <b>T</b> In Table 156-7, nominal c center frequency of 75GH		g Table 156-4, w	hich indicating the	Response ACCE		Response Status C		
Center frequency for 1000	GHz grid is different from t	hat of 75GHz grid	d.	C/ 156	SC 156.7.2	P <b>73</b>	L <b>24</b>	# 46
Better to provide the chan	nel index and correspond	ing ontical freque	ncy for 100GHz arid	Zhang, Bo		Marvell / Inphi	i	
SuggestedRemedy				Comment	Type <b>TR</b>	Comment Status A		
change context correspon	ndingly					values called out in 'Receive value in line 20	r OSNR' are no	t aligned with the min
Response REJECT.	Response Status C			Suggesteo Replac	<i>lRemedy</i> ce -16dBm with⊸	12dBm		
See response to commen	ıt 78.			Response ACCE	PT IN PRINCIPI	Response Status <b>C</b> E.		
				See re	sponse to comn	nent 68.		
					-			

C/ 156 SC 156.7.2

CI 156 SC 156.7.2 P73	L <b>27</b>	# 69	C/ 156	SC 156.7.2	P <b>73</b>	L <b>33</b>	# 48
Maniloff, Eric Ciena			Zhang, Bo		Marvell / Inph	ni	
Comment Type <b>T</b> Comment Status <b>A</b> Receiver OSNR tolerance should be defined for Aver	age Power (mir	n)	Comment 7 footnot		Comment Status A atory receiver OSNR tolerance	e spec is inform	native
SuggestedRemedy			Suggestedl	Remedy			
Replace -16dBm with -12dBm					o: Receiver sensitivity (max),	for OSNR >=34	dB (12.5GHz) is
Response Response Status C			informa <i>Response</i>	auve	Deenenee Statue		
ACCEPT.				PT IN PRINCIP	Response Status <b>C</b>		
CI 156 SC 156.7.2 P73	L <b>28</b>	# 47					
Zhang, Bo Marvell / Inphi				sponse to comr	nent 70.		
Comment Type TR Comment Status A			C/ 156	SC 156.8	P <b>74</b>	L <b>7</b>	# 71
Average receive power value called out in 'Receiver 0 min Average receive power value in line 20	OSNR tolerance	e' is not aligned with the	Maniloff, E	ric	Ciena		
5			Comment 7		Comment Status A		
SuggestedRemedy Replace -16dBm with -12dBm			passba	ind and the pas	Γ G698.2 to define both the al sband. Ripple as used here s thin the passband.		
Response Response Status C			Suggestedl	Remedy	·		
ACCEPT IN PRINCIPLE. See response to comment 69.				ootnote to clari I channel passt	fy that ripple is only defining t and.	he loss/gain var	riations withing th
See response to comment 69.           C/ 156         SC 156.7.2         P73	L <b>33</b>	# 70	DWDM Response		Response Status C	he loss/gain var	riations withing th
See response to comment 69.	L <b>33</b>	# 70	DWDM <i>Response</i> ACCEF In Tabl	l channel passi PT IN PRINCIP e 156-8 add foo	Response Status C	g "Only used to	define the loss or gain
See response to comment 69.         Cl 156       SC 156.7.2       P73         Maniloff, Eric       Ciena         Comment Type       T       Comment Status         A       Tx OSNR min is 34dB, this should be used in note b	L <b>33</b>	# <u>70</u>	DWDM <i>Response</i> ACCEF In Tabl	l channel passi PT IN PRINCIP e 156-8 add foo	and. <i>Response Status</i> <b>C</b> LE. otnote to "Ripple (max)" statin	g "Only used to	define the loss or gain
See response to comment 69.         Cl 156       SC 156.7.2       P73         Maniloff, Eric       Ciena         Comment Type       T       Comment Status         A       Tx OSNR min is 34dB, this should be used in note b	L 33	# 70	DWDM <i>Response</i> ACCEF In Tabl variatio	I channel pass PT IN PRINCIP e 156-8 add foo ns within the D SC <b>156.8</b>	and. <i>Response Status</i> <b>C</b> LE. btnote to "Ripple (max)" statin WDM channel passband" with	g "Only used to h editorial licens	define the loss or gain se.
See response to comment 69.         Cl 156       SC 156.7.2       P73         Maniloff, Eric       Ciena         Comment Type       T       Comment Status         Tx OSNR min is 34dB, this should be used in note b       SuggestedRemedy         Replace 35 dB with 34 dB	L 33	# 70	DWDM Response ACCEF In Table variatio C/ <b>156</b> Maniloff, El Comment 7	I channel passt PT IN PRINCIP e 156-8 add fod ons within the D SC <b>156.8</b> ric Fype <b>T</b>	And. <i>Response Status</i> <b>C</b> LE. btnote to "Ripple (max)" statin WDM channel passband" with <i>P</i> 74	g "Only used to h editorial licens <i>L</i> 7	define the loss or gain se. # <u>72</u> Interchannel cross talk
See response to comment 69.         Cl 156       SC 156.7.2       P73         Maniloff, Eric       Ciena         Comment Type       T       Comment Status         Tx OSNR min is 34dB, this should be used in note b       SuggestedRemedy         Replace 35 dB with 34 dB       Response       Response Status	L <b>33</b>	# <u>70</u>	DWDM Response ACCEF In Table variatio CI 156 Maniloff, El Comment T The sp Suggested	I channel passi PT IN PRINCIP e 156-8 add foo ns within the D SC <b>156.8</b> ric <i>Sype</i> <b>T</b> ecification need <i>Remedy</i> passband defin	and. <i>Response Status</i> <b>C</b> LE. otnote to "Ripple (max)" statin WDM channel passband" with <i>P</i> 74 Ciena <i>Comment Status</i> <b>A</b>	g "Only used to h editorial licens <i>L</i> 7 DWDM channel	t define the loss or gain se. # 72 Interchannel cross talk
See response to comment 69.         Cl 156       SC 156.7.2       P73         Maniloff, Eric       Ciena         Comment Type       T       Comment Status         A       Tx OSNR min is 34dB, this should be used in note b         SuggestedRemedy       Replace 35 dB with 34 dB         Response       Response Status       C	L 33	# 7 <u>0</u>	DWDM Response ACCEF In Table variatio CI 156 Maniloff, El Comment 7 The sp Suggested Add a p	I channel passi PT IN PRINCIP e 156-8 add foo ns within the D SC <b>156.8</b> ric <i>Sype</i> <b>T</b> ecification need <i>Remedy</i> passband defin	And. Response Status C LE. btnote to "Ripple (max)" statin WDM channel passband" with P74 Ciena Comment Status A Is to include a more detailed	g "Only used to h editorial licens <i>L</i> 7 DWDM channel	define the loss or gain se. # 72 Interchannel cross talk
See response to comment 69.         Cl 156       SC 156.7.2       P73         Maniloff, Eric       Ciena         Comment Type       T       Comment Status         A       Tx OSNR min is 34dB, this should be used in note b         SuggestedRemedy       Replace 35 dB with 34 dB         Response       Response Status	L 33	# [ <u>70</u>	DWDM Response ACCEF In Table variatio CI 156 Maniloff, En Comment T The sp Suggested Add a p present	I channel passi PT IN PRINCIP e 156-8 add foo ns within the D SC <b>156.8</b> ric <i>Sype</i> <b>T</b> ecification need <i>Remedy</i> passband defin	and. <i>Response Status</i> <b>C</b> LE. otnote to "Ripple (max)" statin WDM channel passband" with <i>P</i> 74 Ciena <i>Comment Status</i> <b>A</b> Is to include a more detailed b tion for the DWDM channel. <i>A</i> <i>Response Status</i> <b>C</b>	g "Only used to h editorial licens <i>L</i> 7 DWDM channel	t define the loss or gain se. # 72 Interchannel cross talk

C/ 156 SC 156.8	P <b>74</b>	L <b>9</b>	# 53	C/ 156 SC 156.8	P <b>74</b>	L12	# 54
Zhang, Bo	Marvell / Inphi			Zhang, Bo	Marvell / Inpl	ni	
Comment Type <b>TR</b> Address TBD for Avera	Comment Status <b>A</b> age output power at TP3			Comment Type <b>TR</b> Con Address TBD for OSNR at TP	mment Status A 3<35dB		
SuggestedRemedy Replace TBD with 0dB	m per Receiver spec			SuggestedRemedy Replace TBD with -12dBm pe	r Receiver spec		
Response ACCEPT.	Response Status C			Response Res ACCEPT.	ponse Status C		
C/ 156 SC 156.8	P <b>74</b>	L11	# 73	C/ 156 SC 156.8	P <b>74</b>	L17	# 51
Maniloff, Eric	Ciena			Zhang, Bo	Marvell / Inpl	ni	
Comment Type <b>T</b> References to 35 dB sl	Comment Status <b>A</b> nould all be to 34dB, since this	s is the minimu	n Tx OSNR	Comment Type <b>TR</b> Con OSNR at TP3 value is not alig	<i>mment Status</i> <b>A</b> ned with Transmitter	in-band OSNR value	9
SuggestedRemedy Replace all references	(lines 11, 12, 16, 19) to 35dB	(12.5GHz) with	34 dB (12.5GHz)	SuggestedRemedy Replace 35dB with 34dB			
Response ACCEPT.	Response Status C			Response Res ACCEPT IN PRINCIPLE.	oonse Status <b>C</b>		
C/ 156 SC 156.8	P <b>74</b>	L <b>12</b>	# 50	See response to comment 73			
Zhang, Bo	Marvell / Inphi			C/ 156 SC 156.8	P <b>74</b>	L19	# 52
Comment Type TR	Comment Status A			Zhang, Bo	Marvell / Inpl	ni	
OSNR at TP3 value is	not aligned with Transmitter ir	n-band OSNR v	alue	0	nment Status A		
SuggestedRemedy				OSNR at TP3 value is not alig	ned with Transmitter	in-band OSNR value	9
Replace 35dB with 34d	IB			SuggestedRemedy			
Response	Response Status C			Replace 35dB with 34dB			
ACCEPT IN PRINCIPL	E.			·	oonse Status <b>C</b>		
				ACCEPT IN PRINCIPLE.			
See response to comm	ient 73.			ACCELLING MINION EE.			

C/ 156 SC 156.8

C/ <b>156</b> S	SC 156.8	P <b>74</b>	L <b>25</b>	# 55	C/ 156	SC 156.9.9		P <b>76</b>	L <b>31</b>	# 24
Zhang, Bo	Marvell / Inphi			Le Cheminant, Greg Keysight Technologies						
Comment Type Address Th		Comment Status <b>A</b> chromatic dispersion slope			Comment 7 The de		Comment S		irrently in TBD s	tatus. EVM requires a
SuggestedRen	nedy				definitio change	on as well as a s es in OSNR (see	specification lim	nit. Small char	nges in EVM ca	n be seen as large
	BD with 0.05	ps/km/nm/nm per P802.3ct sp	Dec		http://g A spe	rouper.ieee.org/	/groups/802/3/c equires a knowr	n/public/adhoon method of m	c/18_1025/ansic easurement Th	w_3cn_01_181025.pdf e complexity of the
Response ACCEPT.		Response Status C			EVM m This pr	neasurement rec ocess should be	quires a specific e explcitly define	c analysis proc ed. See	cess to achieve	consistent results.
	SC 156.8	P74	L <b>34</b>	# 74	7.pdf a	nd		•	-	eminant_3cn_01_1902 eminant 3ct 01 1905
Maniloff, Eric	_	Ciena			9.pdf	grouper.ieee.or	g, g, oup 0, 002, 0,	on/public/durit		
Comment Type		Comment Status <b>A</b> k is not a meaningful specifica	tion for a cabo	Interchannel cross talk	Suggestedl	Remedy				
		the crosstalk needs to be defined								hnologies and used in
SuggestedRen	nedy									pt. The computation his script is available fo
		should be replaced with a sp								tly written into the ed on the details for
presented.		on the DWDM Black Link. A	supporting con	Itribution will be	script n	nanagement an	d inclusiion with	nin the 802.3c	w clauses. A p	resentation on the
presented. Response		Response Status <b>C</b>	supporting con	itridution will de	script n Keysigl	nanagement an ht EVM script is	d inclusiion with planned to sup	port this com	w clauses. A p	
presented. Response		Response Status <b>C</b>	supporting con	itribution will be	script n Keysigl <i>Proposed F</i>	nanagement an ht EVM script is	d inclusiion with planned to sup <i>Response S</i>	nin the 802.3cm oport this comr Status <b>W</b>	w clauses. A p	
presented. Response ACCEPT II		Response Status <b>C</b> E.	supporting con	itribution will be	script n Keysigl Proposed F PROPC	nanagement an ht EVM script is Response OSED ACCEPT	d inclusiion with planned to sup <i>Response</i> S IN PRINCIPLE	nin the 802.3cm oport this comr Status <b>W</b>	w clauses. A p	
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presented. Response ACCEPT II See respon Cl <b>156</b> S Maniloff, Eric Comment Type Laser Line SuggestedRen A laser free Response ACCEPT II	N PRINCIPL nse to comm SC 156.9.5 e T width defined nedy quency noise	Response Status C E. nent 64. <b>P76</b> Ciena <i>Comment Status</i> A d as a single parameter is insu e mask should be included <i>Response Status</i> C E.	L13	# <u>75</u>	script n Keysigl Proposed F PROPO For tas Cl 156 Dawe, Pier Comment T This su in 156.5 Suggestedl Comple	nanagement an ht EVM script is Response OSED ACCEPT ik force discussi SC <b>156.9.12</b> S Type <b>TR</b> ibclause is supp 9.11." but does Remedy ete the definition	d inclusiion with planned to sup <i>Response S</i> IN PRINCIPLE ion. <i>Comment S</i> posed to define not say what "tr	hin the 802.3cc port this comm tatus W  P77 Nvidia Status R transmitter in-b	k clauses. A priment	# <u>95</u>

C/ 156 SC 156.9.12

C/ 156	SC 156.9.15	P <b>77</b>	L <b>25</b>	# 100	C/ 156	SC 156.9	22	P <b>78</b>	L17	# 76
Dawe, Pier		Nvidia		" 100	Maniloff, E			Ciena		
which s	ubclause "Receive	Comment Status <b>R</b> er OSNR" says "The Receiv R tolerance. Yet the next su are too similar.				Channel Cros al distributior	stalk is not a	ment Status <b>A</b> meaningful specific stalk needs to be de		Interchannel cross talk rent receiver. The
	changes to make	it clear to the reader why th , rename one of them. A re			156.9. DWDN	22 should be	and describe	how this is used ale		l attenuation for the trum to calculate the
Response REJEC	CT.	Response Status C			Response ACCE	PT IN PRINC	'	onse Status C		
was the	e first project to d	es the corresponding text in efine Etherent operation over at 802.3cw is aligned with 80	er DWDM systen		See re <i>Cl</i> <b>156</b>	esponse to co SC <b>156.1</b>		P <b>78</b>	L <b>38</b>	# 101
C/ 156	SC 156.9.15	P <b>77</b>	L <b>28</b>	# 99	Dawe, Pie	rs		Nvidia		
Dawe, Pier	Type <b>TR</b>	Nvidia Comment Status A	-1				ove says, la	ment Status <b>R</b> ser safety should ap	oply at the Tx MI	0I also. As we know,
Need to say whether transmitter impairments are included or not SuggestedRemedy Following 154.9.15 (P802.3ct), change "includes effects from impairments inside the DWDM black link." to "includes effects associated with impairments of the transmitter and inside the DWDM black link." Further, as the receiver should tolerate any compliant transmitter, not just its own transmitter, this would be better "includes effects associated with impairments of a transmitter and inside a DWDM black link.".					SuggestedRemedy Change "to the single channel points at TP2 and TP3, as shown in Figure 156-3," to "where the signals are in separate fibers, such as TP2 and TP3 in Figure 156-3".					
					Response REJE		Respo	onse Status <b>C</b>		
Response	•		This text exactly matches the corresponding text in 802.3ct 154.10.2, which was the first project to define Etherent operation over DWDM systems, and the stated intention is to ensure that 802.3cw is aligned with 802.3ct.							
	o "includes offect	- <b>f</b> ue and increasing a state in a total of the		Reality A Weiss Incolor	C/ 156	SC 156.1	0.2	P <b>78</b>	L <b>44</b>	# 23
Chang	e includes effect	s from impairments inside tl		link" to "includes	0/ 100	30 130.1	0.2	1 10	L 44	# 23

Verb fix SuggestedRemedy

REJECT.

Comment Type E

Replace: "that the manufacturer of a laser product provide information" with: "that the manufacturer of a laser product provides information"

Comment Status R

Response Response Status C

The existing text is consistent with multiple enforce clauses.

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	C/ 156	Page 18 of 19
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 156.10.2	5/6/2021 11:01:00 AM
CORT ORDER, Clause, Cubeleure, name line			

SORT ORDER: Clause, Subclause, page, line

C/ 156 SC 156.	11 P <b>79</b>	L <b>41</b>	# 92	C/ <b>156A</b>	SC 156A.4	P <b>88</b>	L <b>34</b>	# 56		
Dawe, Piers	Nvidia			Zhang, Bo		Marvell / Inph	i			
Comment Type TR	Comment Status A			Comment	Type <b>TR</b>	Comment Status R				
As we all know an which reminds us mode fiber patch o	As the loss budget between TP2 to TP3 is less than 10dB, there is practically no usage for unamplified scenarios with Mux/dmux included									
	has been deleted from 154.11.	inteligitt. And	quivalent sentence to	SuggestedRemedy						
SuggestedRemedy				Sugges	st remove this v	whole 156A.4 section				
	ce "At the transmitter output the N a TP3, as shown in Figure 156–2.'		h TP2 and at the	Response REJEC	т.	Response Status C				
Response ACCEPT.	Response Status C			placeh	olders from 802	e beginning annex 156A state 2.3ct and are subject to change ecessary and is pending furthe	e". Analysis def	ining which scenarios		
CI 156A SC 156A	<b>A.3</b> <i>P</i> 87	L <b>47</b>	# 93			, , ,	·			
Dawe, Piers	Nvidia			Contrib	utions are weld	come to address which scenar	los can be supp	orted.		
Comment Type TR	Comment Status R			C/ 156A	SC 156A.4	P <b>88</b>	L <b>54</b>	# <u>1</u> 02		
	t if anything "application" means h	ere. Sometimes	it's the wrong word	Dawe, Pier	s	Nvidia				
-	4.309 link segment.			Comment	Type <b>TR</b>	Comment Status R				
	Examples of DWDM black link ap		SNR" to "DWDM			at TP2 and TP3" yet we know en 2 m and 5 m in length (see		nd TP2 are separated		
	e with OSNR" (there is only one ny application over any DWDM bl		and any number of	Suggested	Remedy					
	a particular DWDM black link dist			Delete	"at TP2 and TF	93".				
• •	ifically in an example application of	of 40 channels" to	o "Specifically in an	Response		Response Status C				
example with"; In 156A.4:				REJEC	т.					
<ol> <li>In 156A.4, chai black link example</li> <li>Change "four e</li> <li>Change "convertional poir</li> <li>Change Table</li> <li>Table 156A-2</li> </ol>	nge "Example of DWDM black lin es with OSNR" (there are four exa examples of DWDM black link app entional point-to-point Ethernet ap nt-to-point Ethernet link segment v 156A-240 channel example DW 40-channel example with ne next three tables.	mples here); lications" to "fou plication where tl vhere the PMDs"	r examples"; ne PMDs" to ;	first pro	ject to define E	P3 in annex 156A is the same Etherent operation over DWDN v is aligned with 802.3ct.				
Response	Response Status C									
REJECT.										
project to define E	natches the corresponding text in therent operation over DWDM sy									

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

ensure that 802.3cw is aligned with 802.3ct.

C/ 156A SC 156A.4