Ran, Adee							8.1.1	P <b>85</b>		# <u>R</u> 1-2		
		Intel Corporat	tion		Ran, Adee			Intel Corporati	on			
Comment Ty	rpe <b>TR</b>	Comment Status D			Comment 7	ype TR		Comment Status D				
Footnote optional".		s the test pattern checker	defined in 49.2.	12. Pattern 3 is				Test pattern definition". But ker for these test pattern, or				
		efine a test pattern checker;		•				enerating/checking these te or BER in SRS test in 158.8		. for measuring		
with the " is irreleva	"pseudo-rando ant for this sub	define a test pattern checke n" (A/B) pattern and has sor clause which just defines the	me requirements e test pattern (eq	about its operations. It uivalent to 49.2.8).	must be		ited so	to require implementation o omewhere (e.g. in test equip xt.				
clause th not imple	3. The test pattern is not optional; its implementation may be optional, but in this PMD clause there is no requirement to implement any of the test patterns anyway (a PMD may not implement any test pattern generator or checker, including test patterns 1/2 or square wave). Therefore, there is no need to state "optional" only for PRBS31.						Note that testing a PMD in isolation (e.g. optical module) is typically done using test equipment, but when testing a full PHY, test pattern generation by test equipment may not be applicable (the clause 51 PMA does not require remote loopback capability), and test pattern checking in the PCS requires bypassing the RS-FEC sublayer; going into these					
SuggestedRe	emedy							ary, but the test definition sh				
		th the following ern is identical to the one def	fined in 49.2.8".		SuggestedRemedy							
Proposed Re	•	Response Status W			Add the following paragraph in 158.8.1, before the NOTE:							
PROPOS	SED REJECT.				"Test pattern generation and checking functions, such as the ones defined in 49.2.8 and in							
Out of sc	Out of scope of this recirculation				49.2.12, are required for testing a PMD. Tests may utilize test pattern generator and checker in other sublayers (e.g. the PCS of clause 49) or in the test equipment, as appropriate".							
					In 158.8.9.1.1, change the sentence "As defined in section 49.2.12 and 50.3.8, the PCS capable of detecting the data pattern and reporting any errors received" to "error countin may be performed in a higher sublayer (e.g. the PCS of clause 49) or in the test equipm as appropriate".							
					Proposed F	Response		Response Status W				
					PROPO	OSED REJ	ECT.					
					Out of s	scope of th	is recir	culation				

			•		•		•						
C/ 158	SC 158.8.	5	P <b>87</b>	L <b>36</b>	# <u>R1-3</u>	C/ 158	SC 158.7	,	P <b>85</b>	L <b>22</b>	# <u>R</u> 1-5		
Ran, Adee			Intel Corporati	on		Ran, Adee			Intel Corpora	ation			
Comment	Type <b>TR</b>	Comme	ent Status D			Comment 7	ype <b>TR</b>	Commer	t Status D				
test pa	ttern or 68.6.2	2 (from the			ave (8 ones, 8 zeros) ) for  measurement	-				defined in 158.8.9			
with a PRBS9 test pattern"							But they are not; 158.8.9 specifies jitter tolerance, which is complementary to jitter specification. There seem to be no jitter specifications in this clause, similar to other optical						
1. 52.9.5 defines the test procedure, not a value. There should be no "shall" for a definition										actually defined in			
of a test procedure (it is defined by the standard, not by an implementation). The "shall" should refer to the test result and the requirements in Table 158–7.										oidal jitter used to ading "jitter specif	o test receiver jitter ications".		
			ses PRBS9 test pat			Suggested				0, 1			
	, and a differe should be one		n. The results might	be different and	create ambiguity.	00		this subclause t	0				
										<b>.</b>			
Also applies to 159.7.4 (cross-clause).										fined by the trans in 158.8.7 and th	mitter eye mask e reference receiver		
Suggested	2						in 158.8.10						
			OMA shall meet the red in 52.9.5".	e requirements in	Table 158–7 when	Proposed F	Response	Response	Status W				
medea	ned doing the	method demi	100 11 02:0:0 .			PROP	OSED REJE	ECT.					
	•	e to 159.7.4 (v	with reference to Ta	able 159–6 instea	ad).	Out of	scope of this	s recirculation ba	llot				
Proposed I	Response	Respon	se Status W			Outors			inot.				
PROP	OSED REJEC	CT.				This te	kt was from	D2.3 resolved co	omment #17 fro	om Adee Ran with	satisfied response.		
Out of	scope of this	recirculation											
C/ 158	SC 158.6.	1	P <b>83</b>	L <b>24</b>	# R1-4								
Ran, Adee			Intel Corporati	on									
Comment	Туре Е	Comme	ent Status D										
			ulation Amplitude" i ow, and unlike Tab		the abbreviation								
	he row "Launo fine OMA and		n) in OMA minus TE	DP" should be pla	ced after the rows								
Suggested	Remedy												
	e the descript ude (OMA) (m		tical Modulation Am	nplitude (min)" to	"Optical Modulation								
Reorde	er rows such t	hat "Launch p	oower (min) in OMA	A minus TDP" is a	after OMA and TDP.								
Proposed I	Response	Respon	se Status W										
PROP	OSED ACCEI	PT.											

C/ 158 SC 158.8.7	P <b>87</b>	L <b>46</b>	# <u>R</u> 1-6	C/ 158	SC 158.8	.6	P <b>87</b>	L <b>42</b>	# <u>R</u> 1-7	
Ran, Adee	Ran, Adee Intel Corporation									
Comment Type T	Comment Status D			Comment	Type <b>TR</b>	С	omment Status D			
	nsmitter eye depends on the 0 mask requirements, so it has		. The bandwidth can		hall be as de e optical retu		the measurement mether nall be"	odology of 52.9.	6 with the exception	
The referenced procect in another place, 86.8.	lure in 86.8.4.6.1 does not sp 3.2).	ecify the CRU b	pandwidth (it is specified				ogy of 52.9.6 does not -7. So the "shall" should		ment for RINxOMA - the le.	
In this clause, the CRU (although it is placed u unit (CRU) used in the		easurement needed.	methodol	ogy does have the retu	rn loss as a para	ameter, so the exception				
	is identical to 86.8.3.2). This			Also, using the term RIN where Table 158–7 uses RINxOMA is unnecessarily confusing. SuggestedRemedy						
,	but it should be made less sp	ecific to apply to	o transmitter eye as							
well).				Changer the text of this subclause to						
SuggestedRemedy	Alternatively, a reference to 86.8.3.2 can be added instead. SuggestedRemedy Add the following sentence after the existing paragraph in 158.8.7:								red using the method of I in Table 158–7 for the	
"The reference receive 158.8.10.3".	"The reference receiver for the transmitter optical waveform measurement is defined in			Proposed Response Response Status W PROPOSED REJECT.						
In the last paragraph of Proposed Response PROPOSED REJECT	f 158.8.10.3, delete the word: Response Status W	s "used in the T	DP measurement".	Out of	scope of this	s recircula	ation			
Out of scope of this re	circulation									

C/ 158 SC 158.8.9.1.1	P <b>90</b>	L <b>1</b>	# R1-8	C/ 158	SC	158.8.9.2	P <b>95</b>		L <b>50</b>	# <u>R</u> 1-10
Ran, Adee	Intel Corporati	on		Ran, Adee	1		Intel Co	rporation		
Comment Type TR Co.	mment Status D			Comment	Туре	TR	Comment Status	)		
Figure 158–4 has a "system u irrelevant for this clause; the I	PHYs in this clause do	not support WIS	<ol><li>The system under</li></ol>				ased on 95.8.8, which litional exception is re			
test may also not have a PCS host).	(for example, when a	module is tested	d unconnected to a	Suggested Add to		<i>dy</i> t of exception	ons:			
Also, there is a BiDi arrow lab the PCS. It is unclear what it i	eled "test pattern" whic neans. Is this a selecto	h goes to both t or of test pattern	the test equipment and s?	- Since to the	e 10GB	ASE-BR20	has a single lane in e receiver, and the cor			
To minimize confusion, it is su figure to be incorrect.	uggested to remove un	necessary detai	ls which may cause the	Proposed PROP	•	nse REJECT.	Response Status V	v		
SuggestedRemedy					OOLD	NEULOI.				
Delete the "test pattern" label			V.	Out of	scope	of this recir	culation. Item g) cove	ers the sug	gested remed	dy.
Change the label "PCS or WI Proposed Response Res	с ,			C/ 158	SC	158.8.10.2	P <b>96</b>		L <b>10</b>	# R1-11
PROPOSED REJECT.	ponse Status W			Ran, Adee			Intel Co	rporation		
Ther osed Reject.				Comment	Туре	т	Comment Status	)		
Out of scope of this recirculat	on				hannel 158–15		SE-BRx is a 2 m to 5	m patch c	ord meeting t	he requirements in
C/ 158 SC 158.8.9.1.4	P <b>93</b>	L <b>53</b>	# R1-9	Table	100-10					
Ran, Adee	Intel Corporation	on				requireme at larger le	nt is only for the spec ngths.	ific test. Th	ne PHYs are i	intended to operate
···· //·· ···	mment Status <b>D</b>	the requirement	to of this tost anarstas	Suggested	Remed	dy				
"It does, however, guarantee with the worst-case optical inp		the requirement	its of this test operates				r 10GBASE-BRx" to " sed in this test".	The chann	nel for testing	the 10GBASE-BRx
The word "guarantee" should necessarily guarantee what is		ard. The test me	ethod does not	Proposed PROP			Response Status V	V		
I am suggesting deletion of th saying, as it does in many oth with a looser claim it would al	er places throughout 8						this only applies to 10 ince D2.1. It is an erro			
SuggestedRemedy										
Delete this sentence.										
Proposed Response Res	ponse Status W									
PROPOSED REJECT.										
Out of scope of this recirculat	on									

C 158 SC 158.9.7	P <b>97</b>	L <b>38</b>	# R1-12	C/ 159	SC 159.7.10	P <b>117</b>	L17	# <u>R</u> 1-14
Ran, Adee	Intel Corporat	ion		Ran, Adee		Intel Corporati	ion	
Comment Type E The subclause title is "Pl that" - this is not a requir Also in 159.8.7 and in 16		out the text says	"It is recommended	The in	ition to "the cond terface BER is no	Comment Status <b>D</b> itions for receiver aggressor l ot an average of four BER me		
SuggestedRemedy Change the subclause til Proposed Response PROPOSED REJECT. Out of scope of this recir	ile to "PMD labeling" in all 3 Response Status W	cases.		Suggested Add ar "The ir Proposed PROP	Remedy nother exception nterface BER is in Response OSED REJECT. scope of this rec	dentical to the BER on the sir Response Status W		
Cl <b>159</b> SC <b>159.6.1</b> Ran, Adee Comment Type <b>E</b> Table 159–6 has row for is only one value of optic	P112 Intel Corporat Comment Status D "RINxOMA", but 159.7.7 de al return loss tolerance).		# R1-13	Suggested	<i>Type</i> <b>E</b> ote d has "RINxO <i>IRemedy</i>	P <b>136</b> Intel Corporati <i>Comment Status</i> <b>D</b> IAM" (typo).	L <b>42</b> ion	# <u>R1-15</u>
was simply RIN20OMA.	NxOAM" (typo), but this foo N20OMA, and delete footno		be required if the term	Proposed	ie to "RINxOMA" <i>Response</i> OSED ACCEPT.	Response Status W		

EE P802.3cp D3.1 BiDi 10, 25, and 50 Gb/s Optical Access PHYs 1st Sponsor recirculation ballot comme
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/ 160 SC 160.7.9	P <b>143</b>	L <b>38</b>	# <u>R</u> 1-16	C/ FM	SC FM	P1	L <b>27</b>	# <u>R</u> 1-18
an, Adee	Intel Corporati	on		Dawe, Pie	rs J G	NVIDIA		
omment Type TR	Comment Status D			Comment	Type E	Comment Status D		
	ed by the measurement metho	0,		50 Gb/s				
a test procedure (it is o	procedure, not a value. There defined by the standard, not b result and the requirements i	/ an implementa			-	ace. Also at 20		
Also, using the term R	IN where Table 160–7 uses R	INxOMA is unne	ecessarily confusing.	Proposed	Response	Response Status W		
uggestedRemedy				PROP	OSED ACCEF	Т.		
	ntence to "RINxOMA shall me the method defined in 52.9.6"		ents in Table 160–7	C/ FM	SC FM	P <b>6</b>	L <b>50</b>	# <u>R</u> 1-19
roposed Response	Response Status W			Dawe, Pie	rs J G	NVIDIA		
PROPOSED REJECT				Comment Two p	<i>Type</i> <b>E</b> eople's names	Comment Status <b>D</b> in one entry		
Out of scope of this re	circulation			Suggested				
158 SC 158.5.10		L <b>44</b>	# R1-17	Suggestet Split tl				
in, Adee	Intel Corporati	on		Proposed	Response	Response Status W		
omment Type E "157.5" is not an active	Comment Status <b>D</b> e cross reference.			PROP	OSED ACCEF	ΥТ.		
Also in 159.5.10 and ir	160 5 10			C/ 56	SC 56.1.3	P <b>41</b>	L12	# R1-20
ggestedRemedy	1100.0.10			Dawe, Pie	rs J G	NVIDIA		
Create active xref in al	1.3 places			Comment		Comment Status D		
oposed Response	Response Status W			Clause	e 108's title has	s changed and it is clear now th	at it can be used	d at 10G
PROPOSED REJECT	,			Suggested	dRemedy			
	in the clean file of D3.1.					R RS-FEC" to "Reed-Solomon I te note a, it's no longer needed		now it is referred to in
				Proposed PROP	Response OSED ACCEF	Response Status W		

C/ 56 SC 56.1.3	B P41	L12	# <u>R</u> 1-21	C/ 159	SC 159.6.3	P106	L12	# <u>R</u> 1-24
Dawe, Piers J G	NVIDIA			Dawe, Pie	rs J G	NVIDIA		
Comment Type E 108 appears twice i	Comment Status <b>D</b> in Table 56-2			<i>Comment</i> Blank	<i>Type</i> <b>E</b> line in table, layo	Comment Status D		
<i>tuggestedRemedy</i> Combine the entries	s				•	ary C/R at line 12. Prefer	rably, make column	2 wider in tables 159-7
roposed Response PROPOSED ACCE	Response Status W			Proposed	Response POSED ACCEPT.	Response Status W		
7 108 SC 108.2	.1.3.3 P50	L <b>36</b>	# R1-22	C/ 159	SC 150 7 10	P110	L <b>25</b>	# 01.05
awe, Piers J G	NVIDIA				SC 159.7.10		L <b>23</b>	# R1-25
comment Type E	Comment Status D			Dawe, Pie		NVIDIA		
"See 107.1.4.2"				<i>Comment</i> Table		Comment Status D		
uggestedRemedy					•			
As this is for one of for FEC_UNITDATA	the 10GBASE-R service primit A.indication above.	ives, maybe it sh	ould be "See 49.2", as	Suggested Remo	,	ng the empty line 31. Ma	ke the right column	(or both) a little wider
roposed Response PROPOSED ACCE	Response Status W			Proposed PROP	Response POSED ACCEPT.	Response Status W		
/ 49 SC 49.2.1	13.2.2 P542	L	# R1-23	C/ 160	SC 160.9	P <b>138</b>	L <b>35</b>	# R1-26
awe, Piers J G	NVIDIA			Dawe, Pie	rs J G	NVIDIA		
omment Type E In the base docume	Comment Status D			<i>Comment</i> The he	<i>Type</i> <b>E</b> eader row of the t	Comment Status D able		
	at is set based on the most rec cation(SIGNAL_OK) or WIS_SI	,		Suggested Should	d <i>Remedy</i> d be bold			
if the value was OK	and false if the value was FAII			Proposed	Response	Response Status W		
uggestedRemedy				PROP	OSED ACCEPT.			
This could say: PMA_SIGNAL.indic FEC_SIGNAL.indic	cation(SIGNAL_OK) or WIS_SI ation(SIGNAL_OK)	GNAL.indication(	SIGNAL_OK) or	C/ 160	SC 160.6.1	P <b>127</b>	L14	# <u>R</u> 1-27
or more neatly,	· _ /			Dawe, Pie	rs J G	NVIDIA		
PMA_SIGNAL.indic FEC_SIGNAL.indic	cation(SIGNAL_OK), WIS_SIGI ation(SIGNAL_OK)	NAL.indication(SI	GNAL_OK) or	<i>Comment</i> Blank	<i>Type</i> <b>E</b> line in table	Comment Status D		
roposed Response	Response Status W			Suggested	dRemedv			
PROPOSED ACCE	EPT IN PRINCIPLE.			00	ve any unnecessa	ary C/R		
	oversight of last round.			Proposed	Response	Response Status W		
Change it to say "	PMA_SIGNAL.indication(SIC ation(SIGNAL_OK) or FEC_SIC		SIGNAL_OK)"	•	OSED ACCEPT.			
	uired ER/editorial required GF	R/general required		general			nment ID R1-27	Page 7 of 7

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

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