C/ FM		FM	P <b>1</b>	L <b>28</b>	# 117	C/ 30		30.5.1.1.2	P <b>15</b>	L17	# 123
Dawe, Pier	rs		Nvidia			Dawe, Pi	ers		Nvidia		
Comment T	Туре	Е	Comment Status A		editorial	Comment	Туре	Е	Comment Status R		quick review
Woring S <i>uggestedi</i> Workin <i>Response</i>	Reme	dy	Response Status <b>C</b>			other famili reade	bidirections bidirections bes are not ber that it's	onal types i ot described bidirection	escribe these MAU types in the BASE-BX, BASE-Bf d like that. Writing "one si nal. In any case, Ethernet Here we are talking about	R, BASE-PR, BAS ngle-mode fiber" PHYs are always	SE-PQ and BASE-T was believed to tell the bidirectional, even
ACCEF	РТ		Response Status C			Suggeste	dRemedy	y			
									oject title and the abstract		
CI <b>00</b>	SC	0	P <b>11</b>	L <b>54</b>	# 65				edium bidirectionally, dele ce would need to address		
Wienckows	ski, Na	atalie	IVN Solutions I	LC			•	maintenant	Response Status <b>C</b>	DAGE-1 as well a	
Comment 7	Туре	ER	Comment Status A		contents	Response REJE			Response Status C		
Response ACCEF	table PT IN	of contents	s and insert after the introducto <i>Response Status</i> <b>W</b> E. emedy with editorial license.	ory material and	d before Clause 30.	Want		equired for	r previous BiDi description	S III OLSU.S.	
CI 30	SC	30.5.1.1.2	P15	L16	# 122						
Dawe, Pier	rs		Nvidia								
Comment T	Туре	Е	Comment Status A		format						
			an confirm that the new materi ment 136):	al is inserted ir	the correct place, in the						
Suggested	Reme	dy									
Please	show	one row b	efore and one after the new m	aterial							
Response			Response Status C								
		PRINCIPL uggested r	E. emedy with editorial license.								

C/ 30 SC 30.5.1.1.2

C/ <b>45</b>	SC	45.2.1.6	P <b>16</b>	L <b>10</b>	# 61	C/ <b>45</b>	SC	45.2.1.6	P <b>16</b>	L <b>29</b>	# 120
Zimmerm	nan, Geo	orge	ADI,APLgp,Ci	sco,Marvell,OnS	emi,Sony,SenTekse	Dawe, Pie	ers		Nvidia		
Comment	t Type	Е	Comment Status A		consistency_dj	Comment	Туре	Е	Comment Status A		forma
AHEA	AD of 80	2.3dj, whic	'as amended by IEEE Std 8 n hasn't even entered workir ment 146, but comment 146	g group ballot.	This appears to have	correc	t style,	and withou	n confirm that the new mater t using a code that's already		
			ted out dj was extending the			Suggestee		,			
the ed ADDE amen insert FYI, d	diting ins ED by the adment I ted by 80 correlatio	struction - tl e d1.5 of dj know of, 8 02.3df, nor	ne line "10101xxx = reserved Further, the edit isn't even 02.3df, since it shows 11xxx with 802.3dj, because that s completed and in-progress of	" which is struch n fully consister xxx as an insert, nows 1011xxxx	out and amended is it with the most recent and that was already nserted by dj d1p5.	1 0 1 0 There 7 6 5 4 is part	0 0 0 1 is no su 4 3 2 1 0 of 802.	1 = 1.6TBA ub-row abo 0	vs below and above, if any. SE-DR8-2 PMA/PMD ve. However, the top sub-ro uld not be underlined.		sub-row before is
						Response			Response Status C		
	ullt with	, WG leader	ship on amendment order.					PRINCIPLE	 medy with editorial license.		
			t which change Table 45-7, td 802.3df-2024)"	change editing i	nstruction to indicate	C/ <b>45</b>	SC	45.2.1.8	P <b>17</b>	L <b>22</b>	# 66
Chan	ige edit t	o table 45-	7, to reflect the state of the ta	able at that ame	ndment. (if it is df, then:	Wienckow	/ski, Nat	talie	IVN Solutions	LLC	
remov		rscore from	the bit numbers (7 6 5 4 3 :	210) and 11 x	x x x x x = reserved	Comment	Туре	ER	Comment Status R		cross-re
Retai	n 1011 x		erved row with underscore			Subcla	ause 45	5.2.1.8.1 sh	ould not have been removed	as Table 45-12	is in this subclause.
			eserved, with "1 0 1 x x x x x rted rows (101011xx and be		trikeout)	Suggested Resto		<i>ly</i> lause 45.2.	1.8.1		
	ere are o opriately)		after 802.3df that edit this ta	ole, adjust editin	g instruction and edits	Response			Response Status W		
	EPT IN F						45-12 is	s part of 45 nment #142	.2.1.8, not 45.2.1.8.1. 2.		
· · ·			medy with editorial license.			C/ 45	SC	45.2.1.33	P <b>18</b>	L <b>24</b>	# 121
CI <b>45</b>		45.2.1.6	P <b>16</b>	L <b>13</b>	# 118	Dawe, Pie	ers		Nvidia		
Dawe, Pie			Nvidia			Comment	Туре	Е	Comment Status A		forma
Comment 2regis		Е	Comment Status A		editorial				n confirm that the new mater t using a bit that's already tal		
	dRemea	ły				Suggestee	dRemed	ly			
Suggeste	ister								elow and above, if any. In thi	s case, the row	before begins
S <i>uggeste</i> 2 regi			Response Status <b>C</b>					SE-BR40-	U ability s included anyway.		
2 regi	е		nesponse status C						e molaaca anyway.		
			Response Status C			Response			Response Status C		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/45COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC 45.2.1.33SORT ORDER: Clause, Subclause, page, lineSCSC 45.2.1.33

Page 2 of 28 2025/5/19 21:36:27

C/56 SC 5	6.1.1.1	P <b>2622</b>	LO	# 105	C/ 56	SC 56.1.3	P <b>2630</b>	LO	# 107
Dawe, Piers		Nvidia			Dawe, Pie	ers	Nvidia		
After:	-R PCS, RS	Comment Status <b>A</b> -FEC, and PMA sublayers	are used to su	<i>new</i> pport a bit rate of 50			Comment Status <b>A</b> ature and clause correlation for	P2P systems, i	<i>nev</i> ncludes 25GBASE-BR
		they are specified - but for	consistency)		Suggester		s for 100GBASE-BR.		
SuggestedRemedy	,						nd 59 could be reduced to one	each to save sp	bace.
Add: The 100GBASI Gb/s as defined		S-FEC, and PMA sublayer 168.	s are used to s	upport a bit rate of 100		PT IN PRINCIP			
Response	F	Response Status <b>C</b>			Impler	nent suggested	remedy with editorial license.		
ACCEPT IN PF Implement sug		edy with editorial license.			<i>Cl</i> <b>80</b> Dawe, Pie	SC 80.1.3	P <b>21</b> Nvidia	L17	# 129
After the parag	E raph for 500	P <b>2624</b> Nvidia Comment Status <b>A</b> GBASE-BR	LO	# <u>106</u> new	80-1 Suggested	ause 168 for 100	Comment Status A DGBASE-BRx", BRx is not intro planation to 80.1.4	duced and it do	<i>quick reviev</i> es not appear in Table
SuggestedRemedy Add a similar o Response ACCEPT IN PF Implement sug	ne for 100G <i>F</i> RINCIPLE.	BASE-BR Response Status <b>C</b> edy with editorial license.			Impler	PT IN PRINCIP	Response Status <b>C</b> PLE. remedy with editorial license. BRx" to "100GBASE-BR10, 100	0GBASE-BR20	, and 100GBASE-BR40'
C/56 SC 5	6.1.3	P <b>2627</b>	LO	# 104					
Dawe, Piers		Nvidia							
51	mmary of El	Comment Status <b>A</b> FM Physical Layer signalin	g systems, incl	<i>new</i> udes 25GBASE-BR and					
SuggestedRemedy	/								
		E-BR after 50GBASE-BR makes it longer, split the ta							
Response ACCEPT IN PF	F RINCIPLE.	Response Status C							

Implement suggested remedy with editorial license.

C/ 80 SC 80.1.3

CI 80	SC 80.1.4	P <b>20</b>	L <b>27</b>	# 124	C/ 80	SC 80.1.5	P <b>21</b>	L <b>22</b>	# 126
Dawe, Pie	ers	Nvidia			Dawe, Pie	rs	Nvidia		
	ir to D2.0 comme	<i>Comment Status</i> <b>A</b> ent 159 "This is a long table a equential change."	nd this amendme	<i>quick review</i> ent makes it longer, so it	Comment Missin Suggested	g Ms in Table 8	Comment Status A		editoria
Suggestee	dRemedy				00	Ms, 2 in each c	olumn of 168		
40 Gb and	⁻able 80-1, 40 G /s PHYs ib/s PHYs	b/s and 100 Gb/s PHYs, into t	two tables,		Response ACCE		Response Status C		
Chang at 40 opera	ge the sentence Gb/s and 100 Gl tion at 40 Gb/s.	"Physical Layer devices listed b/s." to "Physical Layer device Physical Layer devices listed	es listed in Table in Table 80-2 are	80-1 are defined for defined for defined for operation at	<i>Cl</i> <b>80</b> Dawe, Pie		P <b>21</b> Nvidia	L <b>23</b>	# 127
		first (40G) sentence earlier, to	o follow the parag	raph about 40GBASE-T.	Comment		Comment Status A		quick review
Implei	PT IN PRINCIP	remedy with editorial license.			as nor then U	mal for 45) and	entries in Table 56-1, Table 5 Table 80-2. The standard ord		
Split 1 PHYs		wo tables, Table 80-1 for 40 G	b/s PHYs and Ta	ble 80-1a for 100 Gb/s	Suggested Re-orc	-	D 20-D 40-D 10-U 20-U 40-U	to 10-D 10-U 20-	-D 20-U 40-D 40-U.
CI 80	SC 80.1.4	P <b>20</b>	L <b>38</b>	# 125	Response		Response Status C		
Dawe, Pie		Nvidia		quick review	Impler		_E. remedy with editorial license. -3, 157-4, 157-5, and 157-6 a	re also required.	
		Comment Status A							
as noi	are the order of rmal for 45) and	entries in Table 56-1, Table 5 Table 80-1. The standard or			C/ 80	SC 80.2.3	P <b>21</b>	L <b>42</b>	# 128
Comp as noi then U	are the order of rmal for 45) and J.	entries in Table 56-1, Table 5					P <b>21</b> Nvidia	L <b>42</b>	# 128
Comp as noi then U Suggestee	are the order of rmal for 45) and J. dRemedy	entries in Table 56-1, Table 5 Table 80-1. The standard ord	der is rate-reach-v	width, then it seems D	C/ 80	rs		L <b>42</b>	# 128 quick review
Comp as not then L Suggestee Re-or	are the order of rmal for 45) and J. dRemedy der this from 10-	entries in Table 56-1, Table 5 Table 80-1. The standard ord D 20-D 40-D 10-U 20-U 40-U	der is rate-reach-v	width, then it seems D	C/ <b>80</b> Dawe, Pie Comment	rs <i>Type</i> <b>E</b> )GBASE-LR1 is	Nvidia		quick review
Comp as noi then U Suggestee Re-or Response	are the order of rmal for 45) and J. dRemedy der this from 10-	entries in Table 56-1, Table 5 Table 80-1. The standard ord D 20-D 40-D 10-U 20-U 40-U <i>Response Status</i> <b>C</b>	der is rate-reach-v	width, then it seems D	Cl <b>80</b> Dawe, Pie Comment As 100 20, 40	rs <i>Type</i> <b>E</b> 0GBASE-LR1 is km	Nvidia Comment Status A		quick review
Comp as not then L Suggestee Re-or Response ACCE Implet	are the order of rmal for 45) and J. d <i>Remedy</i> der this from 10- PT IN PRINCIP ment suggested	entries in Table 56-1, Table 5 Table 80-1. The standard ord D 20-D 40-D 10-U 20-U 40-U <i>Response Status</i> <b>C</b>	der is rate-reach-v	width, then it seems D	C/ 80 Dawe, Pie Comment As 100 20, 40 Suggested Chang	rs <i>Type</i> <b>E</b> DGBASE-LR1 is km <i>IRemedy</i> pe "100GBASE-I	Nvidia Comment Status A	for 80 km, and 10	<i>quick reviev</i> 00GBASE-BR is for 10,

CI 80 SC 80.2.3

C/ 80 SC 80.2	.5	P <b>21</b>	L <b>51</b>	# 71	CI 80	SC 80.4	P <b>22</b>	L <b>6</b>	# 108
Wienckowski, Natalie		IVN Solutions	LLC		Dawe, Pier	ſS	Nvidia		
Comment Type EF	R Comm	ent Status A		external	Comment 7	Type E	Comment Status A		quick review
As comment #235	5 on D2.0 stated	: References to ex	ternal points not	properly indicated.			ccepted with editorial license)		
SuggestedRemedy					is a lon change		s amendment makes it longer	, so it should ma	ike the consequential
				92, Clause 95, Clause	Suggested				
	,	use 154, and Clau	ise 163.		00	-	o, Sublayer delay constraints f	or 40Gb/s PHYs	and Sublaver delay
Response	,	se Status W			constra	aints for 100Gb	/s PHYs. Then footnotes a ar	nd b can be simp	blified.
ACCEPT IN PRIN Implement sugges		n editorial license			Response		Response Status C		
	,					PT IN PRINCIP			
C/ 80 SC 80.2	2.5	P <b>21</b>	L <b>52</b>	# 72			remedy with editorial license. wo tables, Table 80-7 for 40G		0-7a for 100Gb/s
Wienckowski, Natalie		IVN Solutions	LLC		· · · · · ·				
Comment Type E	Comm	ent Status A		cross-ref	C/ 80	SC 80.4	P <b>22</b>	L <b>12</b>	# 74
broken link					Wionckows	ski. Natalie	IVN Solution		
DIOKEITIIIK						,		3 LLO	
SuggestedRemedy					Comment 7	Type ER	Comment Status A		
	use 168" as it is	in the document.			Comment 7	Type ER			<i>external</i> t properly indicated.
SuggestedRemedy fix the link to "Clau Response		in the document. se Status <b>C</b>			Comment 7 As com Suggested	<i>Type</i> <b>ER</b> nment #235 on <i>Remedy</i>	Comment Status A D2.0 stated: References to ex	xternal points no	
SuggestedRemedy fix the link to "Clau					Comment 7 As com Suggested	<i>Type</i> <b>ER</b> nment #235 on <i>Remedy</i>	Comment Status A	xternal points no	
SuggestedRemedy fix the link to "Clau Response	Respon		L52	# 73	Comment T As com Suggestedi Apply a Response	<i>Type</i> <b>ER</b> nment #235 on <i>Remedy</i> a character tag	Comment Status A D2.0 stated: References to ex of "External" to: 140.3 and 88 Response Status W	xternal points no	
SuggestedRemedy fix the link to "Clau Response ACCEPT. Cl 80 SC 80.2	Respon	se Status C		# [ <u>73</u>	Comment T As com Suggested Apply a Response ACCEF	<i>Type</i> <b>ER</b> nment #235 on <i>Remedy</i> a character tag	Comment Status A D2.0 stated: References to ex of "External" to: 140.3 and 88 <i>Response Status</i> W LE.	xternal points no	
SuggestedRemedy fix the link to "Clau Response ACCEPT. C/ 80 SC 80.2 Wienckowski, Natalie	Respon	se Status <b>C</b> P <b>21</b> IVN Solutions			Comment T As com Suggested Apply a Response ACCEF	Type ER nment #235 on Remedy a character tag PT IN PRINCIP nent suggested	Comment Status A D2.0 stated: References to ex of "External" to: 140.3 and 88 Response Status W	xternal points no	
SuggestedRemedy fix the link to "Clau Response ACCEPT. Cl 80 SC 80.2	Respon 2.5 Comm	se Status C P21 IVN Solutions ent Status A		# <u>73</u> editorial	Comment T As com Suggested Apply a Response ACCEF	<i>Type</i> <b>ER</b> nment #235 on <i>Remedy</i> a character tag	Comment Status A D2.0 stated: References to ex of "External" to: 140.3 and 88 <i>Response Status</i> W LE.	xternal points no	
SuggestedRemedy fix the link to "Clau Response ACCEPT. Cl 80 SC 80.2 Wienckowski, Natalie Comment Type E There is an extra '	Respon 2.5 Comm	se Status C P21 IVN Solutions ent Status A			Comment T As com Suggestedi Apply a Response ACCEF Implem	Type ER nment #235 on Remedy a character tag PT IN PRINCIP nent suggested SC 80.7	Comment Status A D2.0 stated: References to ex of "External" to: 140.3 and 88 <i>Response Status</i> W LE. remedy with editorial license.	.3.1.	t properly indicated.
SuggestedRemedy fix the link to "Clau Response ACCEPT. Cl 80 SC 80.2 Wienckowski, Natalie Comment Type E There is an extra '	Respon 2.5 Comm "and" in the sen	se Status C P21 IVN Solutions ent Status A tence.			Comment T As com Suggestedi Apply a Response ACCEF Implem Cl 80	<i>Type</i> ER nment #235 on <i>Remedy</i> a character tag PT IN PRINCIP nent suggested SC 80.7 ski, Natalie	Comment Status A D2.0 stated: References to ex of "External" to: 140.3 and 88 <i>Response Status</i> W LE. remedy with editorial license. P23	.3.1.	t properly indicated.
SuggestedRemedy fix the link to "Clau Response ACCEPT. Cl 80 SC 80.2 Wienckowski, Natalie Comment Type E There is an extra ' SuggestedRemedy Remove the "and"	Respon 5 "and" in the sen " after "Clause 1	se Status C P21 IVN Solutions ent Status A tence. 40,"			Comment T As com Suggestedi Apply a Response ACCER Implem Cl <b>80</b> Wienckows	Type ER nment #235 on Remedy a character tag PT IN PRINCIP nent suggested SC 80.7 ski, Natalie Type E	Comment Status A D2.0 stated: References to ex of "External" to: 140.3 and 88 <i>Response Status</i> W LE. remedy with editorial license. <i>P23</i> IVN Solution:	.3.1.	t properly indicated.
SuggestedRemedy fix the link to "Clau Response ACCEPT. Cl 80 SC 80.2 Wienckowski, Natalie Comment Type E There is an extra ' SuggestedRemedy Remove the "and" Response	Respon 5 "and" in the sen " after "Clause 1	se Status C P21 IVN Solutions ent Status A tence.			Comment T As com Suggestedi Apply a Response ACCEF Implem Cl 80 Wienckows Comment T	<i>Type</i> <b>ER</b> nment #235 on <i>Remedy</i> a character tag PT IN PRINCIP nent suggested SC <b>80.7</b> ski, Natalie <i>Type</i> <b>E</b> link	Comment Status A D2.0 stated: References to ex of "External" to: 140.3 and 88 <i>Response Status</i> W LE. remedy with editorial license. <i>P23</i> IVN Solution:	.3.1.	t properly indicated.
SuggestedRemedy fix the link to "Clau Response ACCEPT. Cl 80 SC 80.2 Wienckowski, Natalie Comment Type E There is an extra ' SuggestedRemedy Remove the "and"	Respon 5 "and" in the sen " after "Clause 1	se Status C P21 IVN Solutions ent Status A tence. 40,"			Comment T As com Suggestedi Apply a Response ACCEF Implem Cl 80 Wienckows Comment T broken Suggestedi fix the 0	Type ER nment #235 on Remedy a character tag PT IN PRINCIP nent suggested SC 80.7 ski, Natalie Type E link Remedy Clause 45 link	Comment Status A D2.0 stated: References to ex of "External" to: 140.3 and 88 <i>Response Status</i> W LE. remedy with editorial license. <i>P23</i> IVN Solution:	.3.1.	t properly indicated.
SuggestedRemedy fix the link to "Clau Response ACCEPT. Cl 80 SC 80.2 Wienckowski, Natalie Comment Type E There is an extra ' SuggestedRemedy Remove the "and" Response	Respon 5 "and" in the sen " after "Clause 1	se Status C P21 IVN Solutions ent Status A tence. 40,"			Comment T As com Suggestedi Apply a Response ACCEF Implem Cl 80 Wienckows Comment T broken Suggestedi fix the 0	Type ER nment #235 on Remedy a character tag PT IN PRINCIP nent suggested SC 80.7 ski, Natalie Type E link Remedy Clause 45 link	Comment Status A D2.0 stated: References to ex of "External" to: 140.3 and 88 <i>Response Status</i> W LE. remedy with editorial license. <i>P23</i> IVN Solution: <i>Comment Status</i> A as it is in the document.	.3.1.	t properly indicated.

CI 80

SC 80.7

C/ 80	SC 80.7	P <b>23</b>	L <b>38</b>	# 76	C/ 91	SC 91.5.3.3	P <b>24</b>	L35	# 77
Wienckow	/ski, Natalie	IVN Solutions	LC		Wienckows	ki, Natalie	IVN Solutions	LLC	
Comment As co		Comment Status <b>A</b> 2.0 stated: References to exte	ernal points not	external properly indicated.	Comment T As com		Comment Status A D2.0 stated: References to ext	ernal points not	<i>externa</i> properly indicated.
95, Čl 163. Response	a character tag o ause 135, Clause	"External" to: Clause 73, Cla 138, Clause 140, Clause 152 <i>Response Status</i> <b>W</b> E.			Response ACCEP	character tag o	of "External" to "91.6.8". <i>Response Status</i> <b>W</b> .E. remedy with editorial license.		
Implei	ment suggested re	emedy with editorial license.			C/ 91	SC 91.5.3.3	P <b>24</b>	L <b>36</b>	# 78
Suggestee as mo Possil Response ACCE	Type E dified by IEEE Stu dRemedy dified by IEEE Stu bly in several place FT IN PRINCIPLI	d 802.3db-2022 and IEEE Std es. <i>Response Status</i> <b>C</b> E.	L11 802.3ck-2022	# <u>119</u> <i>quick review</i>	SuggestedF Apply a Response ACCEP	r/pe ER ment #235 on I Remedy character tag o	IVN Solutions Comment Status A D2.0 stated: References to ext of "External" to "91.6.1". Response Status W .E. remedy with editorial license. P25		external properly indicated. # 7 <u>9</u>
· · · ·		emedy with editorial license.		"	Wienckows	,	IVN Solutions	LLC	
<i>Cl</i> <b>91</b> Dawe, Pie	SC 91.5.2.7 ers	P <b>24</b> Nvidia	L <b>14</b>	# 109	Comment T As com		Comment Status A D2.0 stated: References to ext	ernal points not	<i>external</i> properly indicated.
Simila Suggestee	BASEVR1 1000 Irly, 100GBASEVF <i>dRemedy</i> BASE-VR1 100 p on	Comment Status A GBASELR1,100GBASE-CR1 R1, 100GBASELR1 and 100G GBASE-LR1, 100GBASE-CR Response Status C	·	<i>editorial</i> rice) in 91.5.3.3,	Response ACCEP	character tag o	of "External" to "91.5.2.6". <i>Response Status</i> <b>W</b> .E. remedy with editorial license.		

C/ 91 SC 91.6.3

C/ 91 SC 91.6.3 P25 L25 # 80 C/ 91 SC 91.7.4.2 P28 L22 # 84 Wienckowski. Natalie IVN Solutions LLC Wienckowski, Natalie **IVN Solutions LLC** Comment Type ER Comment Status A Comment Type E Comment Status A external cross-ref broken link As comment #235 on D2.0 stated: References to external points not properly indicated. SuggestedRemedy SuggestedRemedy Apply a character tag of "External" to "45.2.1.116". fix the 91.5.3.3 link as it is in the document. Response Response Status W Response Response Status C ACCEPT IN PRINCIPLE ACCEPT Implement suggested remedy with editorial license. C/ 91 SC 91.7.4.2 P28 L37 # 85 C/ 91 # 81 SC 91.7.4.1 P27 L13 Wienckowski, Natalie **IVN Solutions LLC** Wienckowski, Natalie **IVN Solutions LLC** Comment Type E Comment Status A cross-ref Comment Type E Comment Status A cross-ref broken link broken link SuggestedRemedy SuggestedRemedy fix the 91.5.3.3 link as it is in the document. fix the 91.5.2.7 link as it is in the document. Response Response Status C Response Response Status C ACCEPT. ACCEPT. C/ 91 SC 91.7.4.1 P27 L18 # 82 Wienckowski, Natalie IVN Solutions LLC Comment Type E Comment Status A cross-ref broken link SuggestedRemedy fix the 91.5.2.7 link as it is in the document. Response Response Status C ACCEPT. C/ 91 SC 91.7.4.2 P28 L7 # 83 Wienckowski, Natalie **IVN Solutions LLC** Comment Type E Comment Status A cross-ref broken link SuggestedRemedy fix the 91.5.3.3 link as it is in the document. Response Response Status C ACCEPT.

E 802.3dk D2.1 Bidirectional 100Gb/s Optical Access PHYs 1st Working Group recirculation ballot comme

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

C/ 91 SC 91.7.4.2 Page 7 of 28 2025/5/19 21:36:27

C/ 135 SC	135.5.7	P <b>29</b>	LO	# 110	C/ 157	SC 157.1.4	P31	L <b>28</b>	# 87
Dawe. Piers	100.0.1	r <b>25</b> Nvidia	-0			ski. Natalie	IVN Solution		
Comment Type		Comment Status A	). There are pre	coder request (1.60	new Comment As co	<i>Type</i> <b>ER</b> nment #235 on	Comment Status A D2.0 stated: References to e		<i>extern</i> t properly indicated.
and precoder and let the ne ability is know Precoding car Consider inclunetwork opera If so: in 135.5 BRx PMD, or To make wha connected to connected to are part of a C Change The PMA sha optionally pro- to:	request statu etwork operat vn and its use n be impleme dy uding precod ator accordin 5.7.2, before ' " at is already a 100GBASE- PMD that inc C2C all provide 1/(1+D)	us (1.605) registers, but w or choose when to use pre- a is negotiated during Train- ented or used in one or bo ing (135.5.7) as an option g to experience. 'a 50GBASE-R or 100GB/ long and difficult sentenc BRx, or cludes, or 1+D) mod 4 precoding capability	e would add pred ecoding (unlike C ning). th directions or ( . This could be o ASE-R PMD that e clearer, lay it o pability on each of o on each input la	coder ability register CR/KR where precord default) neither. controlled by the ", insert "a 100GBA ut as a bulleted list: putput lane and may ane.	ACCE STS Suggested Apply Response ACCE Impler Cl 157 ASE- Wienckow Comment As co Suggested Apply Y Response ACCE	a character tag PT IN PRINCIF nent suggested SC <b>157.2.1</b> ski, Natalie <i>Type</i> <b>ER</b> nment #235 on <i>IRemedy</i> a character tag PT IN PRINCIF	remedy with editorial license. P31 IVN Solution Comment Status A D2.0 stated: References to e: of "External" to: Table 157-3, Response Status W PLE.	L <b>46</b> s LLC xternal points not Table 157-4, and	# 8 <u>8</u> extern t properly indicated.
PMA shall pro that is connec a capability. Modify PICS	ovide 1/(1+D) cted to the se 135.7.7.	rovide 1/(1+D) mod 4 dec ) mod 4 precoding capabili rvice interface of a 100GE its in MDIO, one for Tx and	ty on each outpu ASE-BRx PMD	ut lane, except a PM	MA such C/ 157	SC <b>157.2.2</b> ski, Natalie	remedy with editorial license. P <b>31</b> IVN Solution Comment Status A	L <b>54</b>	# <u>89</u> extern
Response	•	Response Status <b>C</b>			As co	nment #235 on	D2.0 stated: References to e	xternal points not	t properly indicated.
ACCEPT IN F The group ag	ree to use it	as optional to implement a edy with editorial license.	nd use.		Suggestee Apply	•	of "External" to: Table 157-3,	Table 157-4, and	d Table 157-5.
D2.0 commer		P29	L <b>33</b>	# 86		PT IN PRINCIF	Response Status W LE. remedy with editorial license.		
Nienckowski, Nat	Italie	IVN Solutions	LLC		Inplet	neni suyyesieu	Ternedy with editorial license.		
Comment Type broken link	E	Comment Status A		cro	oss-ref				
SuggestedRemed fix the 80.1.3	-	the document.							
Response ACCEPT.		Response Status C							

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

C/ 157 SC 157.2.2 Page 8 of 28 2025/5/19 21:36:27

C/ 157 SC 157.	2.2 P32	L <b>8</b>	# 91	C/ 157	SC 157.2.4	P <b>32</b>	L <b>50</b>	# 94
Vienckowski, Natalie	IVN Solution	s LLC		Wienckows	ski, Natalie	IVN Solution	s LLC	
omment Type E broken link	Comment Status A		cross-ref	Comment T As con		Comment Status A 02.0 stated: References to ex	xternal points not	externa properly indicated.
uggestedRemedy				Suggested	•			. <b>.</b>
Fix the 168 link as	it is in the document, and make i	t black.		Apply a	a character tag c	f "External" to: Table 157-3,	Table 157-4, and	Table 157-5.
Response ACCEPT.	Response Status C				PT IN PRINCIPL	Response Status W E. emedy with editorial license.		
SC 157 SC 157.	2.2 P32	L <b>8</b>	# 90	C/ 157	SC 157.2.4	P <b>32</b>	L51	# 95
/ienckowski, Natalie	IVN Solution	s LLC			ski, Natalie	IVN Solution		
Comment Type EF As comment #235 CuggestedRemedy	Comment Status A on D2.0 stated: References to ex	tternal points no	<i>external</i> t properly indicated.	Comment T broken	Type E	Comment Status A	S LLO	cross-re
	ag of "External" to: 120F and 120	)G.		Suggested	•			
esponse	Response Status W				Table 157-6 link	as it is in the document.		
ACCEPT IN PRIN	,			Response ACCE	PT.	Response Status C		
/ 157 SC 157.	2.3 P32	L <b>36</b>	# 93	C/ 157	SC 157.2.5	P <b>33</b>	L <b>5</b>	# 96
/ienckowski, Natalie	IVN Solution	s LLC		Wienckows	ski, Natalie	IVN Solution	s LLC	
omment Type E broken link	Comment Status A		cross-ref	Comment As con	51	Comment Status A 02.0 stated: References to ex	xternal points not	externa properly indicated.
uggestedRemedy				Suggested	Remedy			
fix the Table 157-6	link as it is in the document.			Apply a	a character tag c	f "External" to: Table 157-3,	Table 157-4, and	l Table 157-5.
esponse	Response Status C			Response		Response Status W		
ACCEPT.					PT IN PRINCIPL nent suggested r	E. emedy with editorial license.		
/ 157 SC 157.	2.3 P32 IVN Solution	L <b>36</b>	# 92	C/ 157	SC 157.2.5	P <b>33</b>	L <b>5</b>	# 97
/ienckowski, Natalie			external	Wienckows	ski, Natalie	IVN Solution	s LLC	
omment Type EF As comment #235	on D2.0 stated: References to ex	ternal points no		Comment T broken		Comment Status A		cross-re
uggestedRemedy Apply a character	ag of "External" to: Table 157-3,	Table 157-4, and	d Table 157-5.	Suggested	Remedy			
esponse	Response Status W	,		fix the	Table 157-6 link	as it is in the document.		
, ACCEPT IN PRIN	,			Response ACCE	PT.	Response Status C		
COMMENT STATUS:	uired ER/editorial required GR/ D/dispatched A/accepted R/reje e, Subclause, page, line	• •	5		U/unsatisfied Z	/withdrawn SC 1	57 57.2.5	Page 9 of 28 2025/5/19 21:36

CI 157 SC 157.3	P33	L <b>21</b>	# 98	C/ 157 SC 157.4.2	P33	L <b>49</b>	# 101
Wienckowski, Natalie	IVN Solutions	LLC		Wienckowski, Natalie	IVN Solutions	s LLC	
Comment Type ER	Comment Status A		external	Comment Type E	Comment Status A		externa
As comment #235 on	D2.0 stated: References to ext	ernal points not	properly indicated.	As comment #235 or	n D2.0 stated: References to ex	ternal points not	properly indicated.
SuggestedRemedy				SuggestedRemedy			
Apply a character tag	of "External" to "80.3".			Apply a character tag	g of "External" to "Figure 80-8" a	and "Figure 116-	5".
Response	Response Status W			Response	Response Status C		
ACCEPT IN PRINCIF Implement suggested	PLE. I remedy with editorial license.			ACCEPT IN PRINCI	PLE. d remedy with editorial license.		
C/ 157 SC 157.4.2	P <b>33</b>	L <b>48</b>	# 100	C/ 157 SC 157.6	P <b>34</b>	L <b>12</b>	# 111
Wienckowski, Natalie	IVN Solutions	LLC		Dawe, Piers	Nvidia		
Comment Type ER	Comment Status A		external	Comment Type E	Comment Status A		quick review
As comment #235 on	D2.0 stated: References to ext	ernal points not	properly indicated.	Add 100G clauses			
SuggestedRemedy				SuggestedRemedy			
Apply a character tag	of "External" to "116.5".			Add 81-83 and 91. (	Consider if 90 (time sync) shoul	d be added, here	and in Table 168-1.
Response	Response Status W			Response	Response Status C		
ACCEPT IN PRINCIP				ACCEPT IN PRINCI			
	I remedy with editorial license.				d remedy with editorial license. 157.6 and Table 168-1.		
C/ 157 SC 157.4.2	P <b>33</b>	L <b>48</b>	# 99	C/ 157 SC 157.6	P <b>34</b>	L12	# 68
Wienckowski, Natalie	IVN Solutions	LLC		Wienckowski. Natalie	IVN Solutions		# 00
Comment Type E	Comment Status A		cross-ref	Comment Type E	Comment Status A	SLLC	cross-re
broken link				broken link	Comment Status A		0000-16
SuggestedRemedy				SuggestedRemedy			
fix the 80.5 link as it is	s in the document.				as it is in the document.		
Response	Response Status C						
ACCEPT.				Response ACCEPT.	Response Status C		
				AUGEPT.			

C/ 157 SC 157.6

C/ 157 SC 157.6	P <b>34</b>	L <b>14</b>	# 67	C/ 168 S	SC 168.1	P <b>35</b>	L <b>34</b>	# 112
Vienckowski, Natalie	IVN Solutions	LLC		Dawe, Piers		Nvidia		
Comment Type ER	Comment Status A		external	Comment Type	E	Comment Status A		quick review
As comment #235 or Clause 160 is not in t	n D2.0 stated: References to ext this document.	ternal points not	properly indicated.			k, 83D and 83D be together? N w, but 162 has 91 above all the		all be above 91 FEC,
SuggestedRemedy				SuggestedRen	nedy			
Apply a character taç	g of "External" to "Clause 160".			Swap 83 a	nd 91, or mo	ove 91 to below 83E		
Response	Response Status W			Response		Response Status C		
ACCEPT IN PRINCI Implement suggested	PLE. d remedy with editorial license.			Implement	N PRINCIPL suggested r below 83E	emedy with editorial license.		
C/ 168 SC 168.1	P <b>27</b>	L <b>9</b>	# 33					
Dawe, Piers	Nvidia				SC 168.1	P <b>35</b>	L <b>35</b>	# 113
Comment Type E	Comment Status R		D2.0 unresolved	Dawe, Piers		Nvidia		
In 157, this figure inc	ludes OAM (OPTIONAL)			Comment Type		Comment Status A		nev
SuggestedRemedy Do the same here?				one way or	n, one way c	rleaved FEC. I believe that bo ff). There is a 100G RS-FEC- bit (1.200.6).		
Response	Response Status <b>C</b>			SuggestedRen	nedy			
REJECT. Keep consistent with	existing clauses 140 and 160.			152—Inve	rse RS-FEC		nsert:	
C/ 168 SC 168.1	P <b>27</b>	L <b>13</b>	# 30		EC-Int Option	equired to convert between RS	-FEC and RS-F	EC-Int (see 152.1.2).
	ADI,APLgp,Ci	sco,Marvell,OnS	Semi,Sony,SenTekse			91 and 135, insert 152 and 16		
<u>Zimmerman, George</u>				Add a 100	G KO-FEC-I	nt ability bit, e.g. in 45.2.1.117	RS-FEC status	register (Register
, <b>G</b>	Comment Status R		D2.0 unresolved	1.201).				
Comment Type T	Comment Status <b>R</b> tion of the CGMII is optional, but	t that is not what		Add text in		g that a network operator can		
		t that is not what		Add text in robustness	s, determinin	g that a network operator can g if both ends of the link have		
Comment Type <b>T</b> Physical implementa SuggestedRemedy Add footnote 1 to CG	tion of the CGMII is optional, but GMII at line 13. Add text of "NOT		Figure 168-1 shows.	Add text in robustness link to use	s, determinin it.			
Comment Type <b>T</b> Physical implementa SuggestedRemedy Add footnote 1 to CG is optional" at line 29	tion of the CGMII is optional, but GMII at line 13. Add text of "NOT (below PCS).		Figure 168-1 shows.	Add text in robustness link to use	s, determinin it.	g if both ends of the link have		
Comment Type <b>T</b> Physical implementa SuggestedRemedy Add footnote 1 to CG	tion of the CGMII is optional, but GMII at line 13. Add text of "NOT		Figure 168-1 shows.	Add text in robustness link to use Add these <i>Response</i> ACCEPT I	s, determinin it. registers to N PRINCIPL	g if both ends of the link have tables 168-2 and 3. <i>Response Status</i> <b>C</b>		

C/ 168	SC 168.	1	P <b>45</b>	L <b>29</b>	# 69	C/ 168	SC 168.5.1	P <b>30</b>	L <b>8</b>	# 1
Wienckow	ski, Natalie		IVN Solutions L	LC		Ran, Adee		Cisco Syste	ms, Inc.	
Comment	Type EF	र	Comment Status A		external	Comment 7	Type TR	Comment Status A		D2.0 unresolved
followi		e not in	nts not properly indicated. the document: 81, 82, 83, 8 and 78.				e of 168.5.1 is ' ut of a transmit	"PMD block diagram", but the /receive path.	block diagram ir	n Figure 168-2 is not of a
Suggested							vare that the in carried over to	correct heading exists in mar	y previous clause	es, but an error should
Apply	a character	tag of "E	External" to "Clause 160".					y is being used in similar sub	clauses in P802.3	3dj.
Response			Response Status W			Suggested	Remedy			-
	PT IN PRIN					Change	e the subclause	e title from "PMD block diagra	im" to "Block diag	ıram".
Implen	nent sugges	sted rem	edy with editorial license.			Response		Response Status W		
C/ 168	SC 168.	1	P <b>45</b>	L <b>36</b>	# 70		PT IN PRINCIP			
	ski, Natalie		IVN Solutions L	LC		Impierr	ient suggested	remedy with editorial license		
Comment			Comment Status A		cross-ref	C/ 168	SC 168.5.1	P <b>30</b>	L <b>38</b>	# 57
broker						Dudek, Mił	æ	Marvell		
Suggested						Comment	51	Comment Status A		D2.0 unresolve
fix the	link to 91 a	s it is in t	he document.			poor E	nglish.			
Response			Response Status C			Suggested	,			
ACCE	PT.					Delete	the "be" in "are	not typically be accessible"		
C/ 168	SC 168.	3.2	P <b>29</b>	L <b>2</b>	# 27	Response		Response Status C		
Zimmerma	n, George		ADI,APLgp,Cis	co,Marvell,OnS	emi,Sony,SenTekse		PT IN PRINCIP mment #34.	LE.		
Comment	Туре ТБ	2	Comment Status R		D2.0 unresolved			for Clause 160.		
			t. The limitation on the ske			C/ 168	SC 168.5.1	P <b>30</b>	L <b>39</b>	# 34
			.4 go further and specify sko ned earlier defining skew, it			Dawe, Pier	S	Nvidia		
			should be stated.			Comment		Comment Status A		D2.0 unresolved
Suggested	Remedy							P4 (these test points are n		
			mited to 43 ns as defined by ply with the requirements of		Skew and skew	not be	accessible". Li	' but this is outdated. Clause near optical modules are fea		
Response			Response Status W				nar: "are not typ	ocally be"		
REJEC		In 11 - 4				Suggested	,	ally hall to "might set he"		
	onsistent w		nder control of PMD, so "sh se 140.	all" is inappropr	late.	•	e "are not typica	ally be" to "might not be"		
· P						Response		Response Status C		
						ACCE	рт			

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

C/ 168 SC 168.5.1 Page 12 of 28 2025/5/19 21:36:28

C/ 168	SC 168.5.4	P <b>31</b>	L <b>25</b>	# 05	C/ 168	SC 168.6	P32	L <b>40</b>	# 60
			L <b>25</b>	# 35				L <b>40</b>	# 32
Dawe, Pie		Nvidia		DO 0 waraan kund	Huber, The		Nokia	0	
the sa preser	the status variabl me as multilane F nce of the optical	Comment Status <b>R</b> es have "global" in their nam PHYs, saying that SIGNAL_D signal isn't really right.			channe that the	ntence concerr el requirements	Comment Status hing BR40 working with are met is helpful, but it perates with a BR10 PM	BR20 or BR10 as long seems incomplete. W	ould is also not be true
Suggested					Suggested				
Response	"global" here and	Response Status Z			Make t	he sentence me	ore generic: "A longer re hannel requirments of th		
REJE	CT.				Response	0	Response Status	2	
This c	omment was WIT	HDRAWN by the commenter				PT IN PRINCIP mment #58.	•		
Keep o	consistent with cla	ause 140.			C/ 168	SC 168.6	P <b>32</b>	L <b>40</b>	# 58
/ 168	SC 168.5.9	P <b>32</b>	L <b>21</b>	# 31	Dudek, Mił	æ	Marvel		
luber, Th		Nokia		" 01	Comment	51	Comment Status		nresolved (interoperation)
Suggested Replac PMDs	st sentence of thi <i>IRemedy</i> ce the comma wit , or write it as "Th	Comment Status <b>A</b> s clause is a comma splice. h a semicolon, split into two le PMD_receive_fault function a 100GBASE-BRx-D PMD.".			100GB BR10 a require additio operati for 100	ASE-BR10 and and 100GBASE ments for intero n of minimum lo on between 100	BR20 are met, however operation between 1000 osses. Section 168.11	ided the channel requ er section 168.11 inclu BASE-BR40 and 1000 doesn't include minimu GBASE-10 and the m	irements for 100GBASE- des additional GBASE-20 including the um losses for inter- inimum Tx output power
Response		Response Status <b>C</b>			Suggested	Remedy			
Chang The 10	) 0GBASE-BRx-U	E. PMD shall include the PMD D, the PMD_receive_fault fun			table fo 168.11	or the inter-oper	channel losses are spec ration between 100GBA <i>Response Status</i>	SE-BR40 and 100GBA	
C/ 168	SC 168.5.10	P <b>41</b>	L <b>28</b>	# 102	Response	PT IN PRINCIP	,	•	
	ski, Natalie	IVN Solutions		# 102	Remov		ation related contents in	Clause 168.6 and Cla	use 168.11.
comment	51	Comment Status A		external					
		2.0 stated: References to ext	ternal points not	properly indicated.					
Suggested Remov 157.5	ve the hyperlink, v	which goes no where, and ap	ply a character t	ag of "External" to					
esponse ACCE	PT IN PRINCIPLI	Response Status W E. emedy with editorial license.							
COMMEN	T STATUS: D/dis	d ER/editorial required GR/g patched A/accepted R/rejec bclause, page, line				U/unsatisfied 2		C/ 168 SC 168.6	Page 13 of 28 2025/5/19 21:36

C/ 168	SC 168.6	P <b>32</b>	L <b>53</b>	# 2	C/ 168	SC	168.6.1	P <b>33</b>	L <b>28</b>	# 4
Ran, Adee	•	Cisco System	ns, Inc.		Ran, Adee			Cisco System	is, Inc.	
Comment	Туре Т	Comment Status A		D2.0 unresolved	Comment 7	Гуре	ER	Comment Status R		D2.0 unresolved
distand	ce". This is not a	RS-FEC correction function m n option, so "may" is inapprop t optical specifications.			indicate	ed by i		(min) in Table 167-7 contain , as done in the "Receiver se s.		
	ware that the sar l over to a new c	me text exists in many previou lause.	us clauses, but a	n error should not be	The phrase "for 1.4 dB <= max(TECQ, TDECQ) <= TDECQ(max)" is overly long and can be shortened to improve readabilty.					
Suggested	Remedy				Suggestedl	Remed	dy			
Table	168-1, stating "T	Table 168-5, and instead add he option to perform error det ted. FEC error correction shal	ection without er	ror correction (see		e "for 1		rting with "for". max(TECQ, TDECQ) <= TDE	ECQ(max)" to "fo	or max(TECQ, TDECQ)
Response		Response Status C			Response			Response Status W		
Delete	ACCEPT IN PRINCIPLE. Delete footnote a from Table 168-5. Add a footnote to Table 168-1 to the RS-FEC row, stating "The option to perform error				REJECT. Following dj format (e.g., Table 183-6).					
		correction (see 91.5.3.3) is no		to perform error	C/ 168	SC	168.6.1	P <b>33</b>	L <b>36</b>	# 26
C/ 168	SC 168.6.1	P <b>33</b>	L11	# 3	Stassar, Pe	eter		Huawei		
Ran, Adee	•	Cisco System	ns. Inc.		Comment 7		ER	Comment Status A		solved (over/under shoot)
Comment	Type <b>TR</b>	Comment Status R		D2.0 unresolved	This draft still uses "over/undershoot", In P802.3dj it was recently agreed to use "transmitter over and undershoot". Also in 168.7,1 and 168.7.7					reed to use "transmitter
The sig	gnaling range for	recent PMDs with 100 Gb/s	per lane has bee	n narrowed to +/- 50				Also III 100.7,1 and 100.7.7		
ppm, te	o avoid possible	performance degradatation.			Suggestedl		,	nittor over/under sheet" to "7		about and undersheat"
The 10	00 Gb/s AUIs def	fined in Annex 120F and 1200	G support this na	rrower range.	168.6.1 change "Transmitter over/under -shoot" to "Transmitter overshoot and undershoot". In 168.7.1, Table 168-10 change "Over/under-shoot" to "Transmitter overshoot and undershoot". Change heading of 168.7.7 from "Over/under-shoot" to "Transmitter overshoot					overshoot and
	See 800GBASE-VR8/SR8 PMDs in 802.3df, Table 167-7 and Table 167-8 (both amended from 802.3db) as an example of how this is implemented in new PMDs.					and undershoot". In paragraphs 1 and 2 of 168.7.7 change "over/under-shoot" to "ov undershoot".				
Suggested	Remedy				Response			Response Status C		
In Tab	le 168-6 and Tab	ble 168-7, change the signalin	ng rate range to 5	3.125 +/- 50 ppm.	ACCEF	PT.				
Response		Response Status W								

REJECT.

802.3df uses 100ppm for all single lane PMDs.

C/ 168	SC 168.6.1	P33	L36	# 6	C/ 168	SC 168.6.1	P <b>34</b>	L <b>1</b>	# 5
Ran, Adee				# U					# 0
,		Cisco Systems			Ran, Adee		Cisco Systen	ns, inc.	
Comment T		Comment Status A		olved (over/under shoot)	Comment		Comment Status R	4	D2.0 unresolved
The de	finitions in subcl	r -shoot" is shorthand that sho ause 168.7.7 are actually to tw /under-shoot" is not defined a	vo different para				gh 168-3 are not equations - 1 ontext, which is Table 167-7.	tney are express	ions that don't mean
The lab	pel in the table ha	as been changed to "overshoo	ot/undershoot" ir	n 802.3db.	It would	d be a better sei	rvice to the reader if these ex	pressions are pla	aced directly in the table
	ne definition subo 8) instead of old	clause 168.7.7 should be aligr er clauses.	ned with the rece	ent text in 802.3db		hese expressior	ns into Table 168-8, OMA_ou	iter row, replacin	g the references to the
Suggested	Remedy				equatio	JIIS.			
		vershoot/undershoot (max)".			Response	-	Response Status C		
		7.7 to align it with 167.8.8 in 8 0 and elsewhere accordingly.			REJEC Follow	dj format, Table	183-6.		
Response		Response Status W			C/ 168	SC 168.6.1	P <b>42</b>	L <b>29</b>	# 114
		IPLE.			Dawe, Pier	s	Nvidia		
See co	mment #26.				Comment	Туре Е	Comment Status A		editoria
C/ 168	SC 168.6.1	P <b>33</b>	L <b>46</b>	# 36	Missing	g equation numb	per, non-functioning cross-ref	erences	
Dawe, Pier	s	Nvidia			Suggested	Remedv			
Comment 7	Туре Т	Comment Status R		D2.0 unresolved	Fix				
		esting some transmitters for T 3. The cost in paperwork may			Response ACCE	т	Response Status C		
Suggested	Remedy				ACCER	-1.			
		6 to 15 here and in Table 168-	11 (simplifying a	and being	C/ 168	SC 168.6.1	P <b>42</b>	L <b>36</b>	# 115
	vative). 2NvOMA can be	come RIN15OMA.			Dawe, Pier	S	Nvidia		
		le, the discrete reflectances fo	r 100GBASE-BI	R10 in Table 168-14	Comment	Гуре Е	Comment Status A		quick reviev
and the that 0.6		return loss in Table 168-12 c	ould be made sl	ightly worse, to spend	For im (6) PM		ty, where the parameter limits	s seem likely to r	emain the same for all 3
Response		Response Status C			Suggested	Remedy			
REJEC Small c		in other clauses, such as clau	se 140.				s, merge and straddle the trip reflectance in Table 168-7.	ble entries for trar	nsmitter over/under -
					Response		Response Status C		
					ACCE	PT.			

C/ 168	SC 168.6.1	P <b>42</b>	L51	# 116	C/ 168	SC 168.6.3	P44	L18	# 62		
			L01	# 110				LIQ	# 102		
Dawe, Pie		Nvidia		., .	Maniloff, E		Ciena				
Comment		Comment Status A		quick review	Comment		Comment Status R		technical		
that in max(1 max(-2	Ćlause 140, they .1, -0.3+max(TE0 2.3, -3.7+max(TE	CQ, TDECQ))		nent is different from	Penalty allocations include 0.9dB more than TDECQ for the 10km spec, but only 0.5dB more for the 20 & 40km specs. Penalty allocations normally include allocations for DGD and MPI penalties. DGD is 3.1/3.9/5.0 ps for 10/20/40km specs. The expectation would be that penalties for 20 & 40 kms would be ≥ those for 10 km. SuggestedRemedy						
max(5 140 ha	.3, 3.9+max(TEC	Q, TDECQ)).									
max(-( max(-) max(1) They a include Suggested	0.8, -2.2+TDECQ 0.1, -1.5+TDECQ .1, -0.3+max(TDI are not the same, es TECQ and the <i>IRemedy</i>	ÉCQ). and would not be the same other does not, but it has an	option dependir		0.1dB penalty approx at the I	for the BR20 DG r for for both BR 0.1 to 0.15 dB l higher loss. Usir nended, resultir	shuai_3cu_adhoc_050119.pd D spec. MPI allocation shou 10 and BR20 is recommend DGD penalty, however this w g 0.9dB additional penalty fo g in total allocations for pena	ld be comparab led. For BR40 th vill be offset by th or BR10, BR20, s	le hence having 0.9dB here is an additional he reduced MPI penalty and BR40 is		
Delete	the sentence, it	is unnecessary. The spec is	clear without it.		Response		Response Status C				
Response ACCE	PT.	Response Status C					ensus that additional analysis	s is needed befo	re updating the values.		
C/ 168	SC 168.6.3	P35	L <b>14</b>	# 37	C/ 168	SC 168.7.1	P <b>36</b>	L1	# 7		
Dawe, Pie		Nvidia			Ran, Adee		Cisco Syster	ns, Inc.			
Comment	51	Comment Status R		D2.0 unresolved	Comment	Type <b>TR</b>	Comment Status A		D2.0 unresolved		
Suggested	Remedy	,1); change 10.6 to 10.3 (or 1		ent against 168.9	The title of Table 168-10 is incorrect. It does not include or even refer to test pattern definitions; what it contains is the mapping of parameters to test patterns and related sublclause.						
	Response Response Status C REJECT. Based on group discussion, it should be kept to 6.3dB.					I am aware that the same title exists in many previous clauses, but an error should not be carried over to a new clause. It has been corrected in P802.3dj, and the suggested remedy is taken from Table 180-15.					
					Suggested	Remedy					
					Chang subcla		le 168-10 to "Mapping of par	ameters to test	patterns and related		
					Response		Response Status W				
					ACCER Keep o		02.3 dj, Table 183-13.				

C/ 168	SC 168.7.1	P <b>49</b>	L <b>45</b>	# 130
Dawe, Piers		Nvidia		
Comment Ty	pe <b>T</b>	Comment Status R		new

After RIN measurement is improved (D2.0 comments 94 and 191), the only use for square wave in the standard will be as an alternative to SSPRQ for measuring transmitter transition time (but it relies on 20% and 80% of OMAouter; OMAouter is measured with PRBS13Q or SSPRQ, not square wave, so it's not practical anyway). But transmitter transition time goes with TECQ, extinction ratio, overshoot and undershoot; they can all be obtained from the same measurement with SSPRQ. There is no need for the standard to mandate a second way. Square wave is a very untypical pattern which should not be recommended if there is a practical alternative.

### SuggestedRemedy

Delete square wave from tables 168-9 and 168-10. Someone who wants to use it still can, because it still exists in 120.5.11.2.5, and the registers to advertise it and control it still exist in 45, but we should not encourage it in future.

Response			Response Status C		
REJEC See co		nt #25.			
C/ 168	SC	168.7.4	P36	L <b>41</b>	# 22
Mi, Guang	can		Huawei Tech	nologies Co., Ltd	
Comment	Туре	TR	Comment Status A		D2.0 unresolved
recent CL168			n pointing out the source of (	OMAout data. Re	commend to add in

### SuggestedRemedy

add "OMAouter is measured using waveforms captured at the output of the reference receiver defined in 168.7.5, before the reference equalizer.

Response

Response Status C

ACCEPT IN PRINCIPLE. Implement suggested remedy with editorial license.

C/ 168	SC 168.7.4	P <b>36</b>	L <b>46</b>	# 14
Johnson, Jo	hn	Broadcom		
Comment Ty	pe TR	Comment Status A		D2.0 unresolved

Add text to clarify the reference receiver used to measure OMAouter, refering to the definitions in 168.7.5.

## SuggestedRemedy

Add the following sentence to the end of the paragraph:

"OMAouter is measured using waveforms captured at the output of the reference receiver defined in 168.7.5, before the reference equalizer."

Response Response Status C

ACCEPT IN PRINCIPLE. See comment #22.

C/ 168 SC 168.7.5	P <b>37</b>	L <b>20</b>
-------------------	-------------	-------------



Response

Response Status W

ACCEPT IN PRINCIPLE. Resolve using response to comment #15.

Comment Type ER Comment Status A

D2.0 unresolved

looking back at CL 140.7 and other IMDD clauses in 100Gbps, the description of TDECQ and its measurement setup has been referencing as much as possible the existing content in CL 121.8.5 and writing only the changes and differences. An example in CL140 is: "TDECQ, and for 100GBASE-DR only, TDECQ – 10log10(Ceq) shall be within the limits given in

Huawei Technologies Co., Ltd

Table 140–6 if measured using the test setup specified in 121.8.5.1, with an optical channel specified in 140.7.5.2, using the measurement method specified in 121.8.5.3, and using a reference equalizer as described in 140.7.5.1, with the following exceptions: ....."

also double checking the content of 168.7.5.1, there seems no technical difference than what was defined in CL 140.7.5 or CL 124.8.5, except need of updates to the table references. For the sake of clarity and consistence, also avoiding misleading message of new test setp, it is recommended to update the section with references to existing clauses while only listing out the exceptions.

### SuggestedRemedy

Mi, Guangcan

delet sections 168.7.5.1, 168.7.5.3, 168.7.5.4. make appropriate references to existing clauses, so that the overall standard of 802.3 is coherent. implement with editorial licenses.

### some possible languages:

The TDECQ shall be within the limits given in

Table 168–6 if measured using the test setup specified in 121.8.5.1, with an optical channel specified in 168.7.5.2, using the measurement method specified in 121.8.5.3, and using a reference equalizer as described in 168.7.5.1, with the following exceptions:

The signaling rate of the test pattern generator is as given in Table 168–6 and uses a test pattern

specified for TDECQ in Table 168-10.

— The combination of the O/E converter and the oscilloscope has a 3 dB bandwidth of approximately 26.5625 GHz with a fourth-order Bessel-Thomson response to at least  $1.3 \times 53.125$  GHz and at frequencies above  $1.3 \times 53.125$  GHz the response should not exceed – 20 dB. Compensation may be made for any deviation from an ideal fourth-order Bessel-Thomson response.

— The normalized noise power density spectrum, N(f) in Equation (121–9), is equivalent to white noise filtered by a fourth-order Bessel-Thomson response filter with a 3 dB bandwidth of 26.5625 GHz."

### or

"The TDECQ shall be within the limits given in Table 168–6 if measured using the test setup specified in 121.8.5.1, with an optical channel specified in 168.7.5.2, using the measurement method specified in 140.7.5, and using a reference equalizer as described in 140.7.5.1."

or other format that fits.

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

C/ 168 SC 168.7.5 Page 18 of 28 2025/5/19 21:36:28

C/ 168	SC 168.7.5	P <b>37</b>	L <b>21</b>	# 15
Johnson, Jo	ohn	Broadcom		
Comment T	ype <b>TR</b>	Comment Status A		D2.0 unresolved

The TDECQ test method in 168.7.5 needlessly reiterates the definitions in 121.8.5. The text of 168.7.5.1 lists test method exceptions that should be in 168.7.5.3. 168.7.5.3 has a single exception for the FFE (which is not needed because it is the same as 121.8.5.4). This clause should reference 121.8.5 and list a complete set of test method exceptions specific to Cl. 168.

### SuggestedRemedy

Follow the specification method of 802.3dj D1.5, Cl.180.9.5, which includes improved descriptions of the reference receiver that are used in other test method sub-clauses. Remove sub-clauses 168.7.5.1, 168.7.5.3 and 168.7.5.4. (168.7.5.2 becomes 168.7.5.1) Replace the text in 168.7.5 with the following:

The TDECQ of each lane shall be within the limits given in Table 168-6 if measured using the methods

specified in 121.8.5.1, 121.8.5.3, 121.8.5.4 and 168.7.5.1, with the following exceptions: — The signaling rate of the test pattern generator is as given in Table 168-6 and uses the test pattern

specified for TDECQ in Table 168-10.

— The reference receiver, composed of the combination of the O/E converter and the oscilloscope, has

a 3 dB bandwidth of approximately 26.5625 GHz with a fourth-order Bessel-Thomson response to at

least 1.3 × 53.125 GHz, and at frequencies above 1.3 × 53.125 GHz, the response should not exceed

 $-20~\mathrm{dB}.$  Compensation may be made for any deviation from an ideal fourth-order Bessel-Thomson

response.

— The normalized noise power density spectrum N(f) is equivalent to white noise filtered by a fourth order

Bessel-Thomson response filter with a 3 dB bandwidth of 26.5625 GHz.

— The optical return loss is as given in Table 168-6.

— The lowest measured TDECQ values are achieved with the equalizer optimization method described

in 121.8.5. Alternative optimization methods such as minimum mean squared error (MMSE) may be

used to determine equalizer tap weights to reduce test time, and are expected to report equal or

higher values of TDECQ. These alternative methods should not be used for receiver sensitivity and

stressed receiver sensitivity calibration.

### Response

Response Status C

ACCEPT IN PRINCIPLE. Implement suggested remedy with editorial license refer to CL140.

C/ 168	SC 168.7.5.1	P <b>38</b>	L <b>5</b>	# 38
Dawe, Piers		Nvidia		
Comment Typ	e E	Comment Status A		D2.0 unresolved

This long sentence with two clauses is hard to understand. In a few places such as 150.8.5, 150.8.7, 150.8.10 and 151.8.1 it has been divided into two sentences.

### SuggestedRemedy

Change "GHz and at frequencies" to "GHz. At frequencies", here and in 168.7.10.

Response Response Status C

ACCEPT IN PRINCIPLE.

Resolve using response to comment #15.

C/ 168	SC 168.7.5.3	P38	L <b>53</b>	# 39
Dawe, Pie	ers	Nvidia		
Comment	Туре Т	Comment Status A		D2.0 unresolved
More	exceptions			

### SuggestedRemedy

The signaling rate of the test pattern generator is as given in Table 168-6 and uses a test pattern specified for TDECQ in Table 168–10.

There are no interfering optical lanes and therefore the delay requirement of at least 31 UI between test pattern on one lane and any other lane, as specified in 121.8.5.1, is redundant. [Stated above — The combination of the O/E converter and the oscilloscope has a 3 dB bandwidth of approximately 26.5625 GHz with a fourth-order Bessel-Thomson response to at least  $1.3 \times 53.125$  GHz. At frequencies above  $1.3 \times 53.125$  GHz the response should not exceed -20 dB. Compensation may be made for any deviation from an ideal fourth-order Bessel-Thomson response.]

The normalized noise power density spectrum, N(f) in Equation (121–9), is equivalent to white noise filtered by a fourth-order Bessel-Thomson response filter with a 3 dB bandwidth of 26.5625 GHz.

Response Response Status C

ACCEPT IN PRINCIPLE. Resolve using response to comment #15.

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

C/ 168 SC 168.7.5.3 Page 19 of 28 2025/5/19 21:36:28

C/ 168	SC 168.7.5.4	P <b>39</b>	L <b>19</b>	# 40	C/ 168	SC 1	68.7.7	P <b>39</b>	L <b>37</b>	# 16
Dawe, Pier	rs	Nvidia			Johnson,	John		Broadcom		
Comment	Туре Т	Comment Status R		D2.0 unresolved	Comment	Туре	TR	Comment Status A	inres	olved (over/under shoot
trouble	some for the rece	nain tap at 0.8 would be unh eiver. The over/under-shoot	spec may catch	many such signals. If it			rify the re in 168.7.	eference receiver used to mea 5.	sure TX over/u	ndershoot, refering to
	s them all, tighter ing this limit will t	ning this limit will make no di be beloful	fference. If it doe	esn't catch all of them,	Suggestee	dRemedy	/			
Suggested	•					at the ou		e reference equalizer being a e reference receiver defined ir		
Response		Response Status <b>C</b>			Response			Response Status C		
REJEC	CT. Isensus to make				ACCE	PT.				
Call for	r more contributio	ons on this topic in the next n	neeting.		C/ 168	SC 1	68.7.8	P <b>40</b>	L17	# 17
C/ 168	SC 168.7.7	P <b>39</b>	L <b>31</b>	# 24	Johnson,	John		Broadcom		
Mi, Guang	can		nologies Co., Ltd		Comment	Туре	TR	Comment Status A		D2.0 unresolve
Comment	Type <b>ER</b>	Comment Status A	inres	olved (over/under shoot)			rify the re in 168.7.	eference receiver used to mea 5.	sure TX power	excursion, refering to
	seems to be no c ing the calculatio	hange from the method defi	ned in CL 140. re	ference to CL 140	Suggestee	dRemedy	/			
Suggested	Remedy	CL 151, and update the refe	erence tables sho	ould serve the purpose :		at the out		e reference equalizer being ap e reference receiver defined ir		e the reference
"The o	ver/under-shoot d	of each lane shall be within tl	he limite aiven in	Table 151_7 if	Response	!		Response Status C		
	red using a test		ne innits given in		ACCE	PT.				
		er/under-shoot in Table 151– oot are measured using the		ed for the TDECQ test	C/ 168	SC 1	68.7.9	P <b>40</b>	L <b>32</b>	# 18
(see 1	51.8.5) and the w	aveform captured for the TE			Johnson,			Broadcom		
		ng applied in each case.	mothods in 140	77"	,		TR	Comment Status A		D2.0 unresolve
Overshoot and undershoot are calculated using the methods in 140.7.7." Response Response Status W					Comment Type <b>TR</b> Comment Status <b>A</b> D2.0 unresolved Add text to clarify the reference receiver used to measure extinction ratio, refering to the definitions in 168.7.5.					
	PT IN PRINCIPLE	=. e to comment #16.			Suggestee	Remed	/			
	is the point of the poi				Add th "The e	ne followi extinctior	ing to the ratio is i	e end of the paragraph: measured using waveforms ca .7.5, before the reference equ:		utput of the reference
					Response			Response Status C		
					ACCE	PT.				

C/ 168	SC 168.7.10	P <b>40</b>	L <b>41</b>	# 19	C/ 168	SC 1	68.7.11	P <b>40</b>	L <b>53</b>	# 41
Johnson,	John	Broadcom			Dawe, Pie	rs		Nvidia		
Comment	Type <b>TR</b>	Comment Status A		D2.0 unresolved	Comment	Туре	т	Comment Status R		D2.0 unresolve
	ning it in this claus	is previously defined in 168.7 se.	7.5, so it can be re	ferenced rather than	these of literatu	days, but	t with the	easured with the optical pow scope method described in F advantage that RIN can be c	2802.3dj 180.9.	11 (and T&M vendor's
	the following text				Suggestea		,			
of app × 53.1 20 dB	roximately 26.562 25 GHz and at fre . Compensation m	an O/E converter and oscillos 25 GHz with a fourth-order Be equencies above 1.3 × 53.12 nay be made for any deviatio	essel-Thomson re 5 GHz the respon	sponse to at least 1.3 se should not exceed –	As this project is ahead of P802.3dj, replace the contents of 168.7.11 with a copy of 180.9.11, adjusting for the optical return loss(es) and reference Rx bandwidth of this clause In Table 168-10, change "Square wave" to "4 or 6".					
Repla "The t	son response." ce with the followi ransmitter transitionce receiver defin	ng text: on time is measured using w ed in 168.7.5, before the refe	aveforms capture	d at the output of the	Response REJE0 See co	CT. omment a	#25.	Response Status C		
Response		Response Status C			C/ 168	SC 1	68.7.11	P <b>41</b>	L <b>3</b>	# 8
ACCEPT.					Ran, Adee	•		Cisco Systems	s, Inc.	
/ 168	SC 168.7.11	# 25	Comment	Туре	т	Comment Status A		D2.0 unresolve		
Mi, Guang		P <b>40</b> Huawei Tech	L <b>51</b> nologies Co., Ltd		The sig	gnaling r	ate is 53. <sup>-</sup>	125 GBd, so the number sho	uld be 53.125 (	GHz, not 53.2.
		Comment Status R	lologico co., Eta	D2.0 unresolved	Suggestea	IRemedy	,			
update with w	R         Comment Status         R         D2.0 unresolved           802.3 dj has extensively discussed the definition of RINxOMA. Consensus were made to update the definition of RINxOMA which better describes the actual behaviour and aligns with what is being used in the field. Related contribution from Ahmad and JJ, https://www.ieee802.org/3/dj/public/24_09/chayeb_3dj_01_2409.pdf						RINCIPLE	Response Status <b>C</b>  arenthesis.		
00	o what is defined	in di			C/ 168	SC 1	68.7.12	P <b>41</b>	L	# 59
Response					Dudek, Mi	ke		Marvell		
REJE	CT.	Response Status W le consensus to keep consistent with CL140.				11.	T ) "meets e	Comment Status <b>A</b> equation constraints" needs to		unresolved (Ref_receiver he lines or it needs to be
					Suggestea	IRemedy	,			
					Fix it					
					Response			Response Status <b>C</b>		

C/ 168 SC 168	8.7.12	P <b>41</b>	L <b>7</b>	# 11	C/ 168	SC 168.7.12	P <b>41</b>	L15	# 29
Ran, Adee		Cisco System	is, Inc.		Zimmerma	n, George	ADI,APLg	p,Cisco,Marvell,Or	nSemi,Sony,SenTekse
Comment Type E	ER	Comment Status A		2.0 unresolved (Ref_receiver)	Comment		Comment Status A		unresolved (Ref_receiver)
Figure 168-6 is a	a bitmap wi	th poor quality.					aints" cannot possibly be		
SuggestedRemedy Replace the figur	ire with an	SVG one.			equatio	ons 168-4, 168-5	the axis says OMAouter( 5, and 168-6 and the text t with an OMA of the level	o unravel. Is this s	aying that the RS should
Response ACCEPT.		esponse Status W			(depen needs of the I	ding on the PH to be 3 different ine The equa	( type) (but can be sensitive labels, each indicating white tions need more words to	ve to a lower level nich line they are fo describe the meas	signal)? If so, the label or, and on the bottom side
CI 168 SC 168	8.7.12	P <b>41</b>	L <b>8</b>	# 42	Suggested	Ũ	n what you meant to write	a good solution.	
Dawe, Piers		Nvidia			00	2	location of "Meets equation	on constraints" so ti	hat it meets all 3 lines
<i>Comment Type</i> <b>E</b> This figure is a bi	_	Comment Status <b>A</b> / and unclear		2.0 unresolved (Ref_receiver)		er more explana	atory words and converting		
SuggestedRemedy	170				Response		Response Status C		
,		way so it appears as a "v	ector grap	hic" in the pdf;	Follow Implem				
Response	F	esponse Status C							
ACCEPT IN PRII Implement with e		ense.			<i>Cl</i> <b>168</b> Ran, Adee	SC 168.7.12	P <b>41</b> Cisco Sys	L <b>15</b> tems, Inc.	# 12
C/ 168 SC 168	8.7.12	P <b>41</b>	L <b>9</b>	# 43	Comment 7	Type <b>TR</b>	Comment Status A	2.0	unresolved (Ref_receiver)
		Nvidia	-					between curves. It	suggests that the allowed
Dawe Piers				2.0 unresolved (Ref receiver)	Ŭ		e lines, which is incorrect.		
	-	Comment Status A			Suggested				
,	_	Comment Status A				Remedy he label below t	he hottom line		
	_	Comment Status A			Move t	<i>Remedy</i> he label below t			
Comment Type E y axis can be opt SuggestedRemedy	timised	to 0) to (-15 to -3)			Move t Response	he label below t	Response Status W		
Comment Type E y axis can be opt SuggestedRemedy	timised				Move t Response ACCEF	•	Response Status W		

C/ 168 S	C 168.7.12	P <b>41</b>	L <b>32</b>	# 21	Cl 168	SC 168.7.12	P <b>41</b>	L <b>40</b>	# 45
Simms, William	า	NVIDIA			Dawe, Pie	ſS	Nvidia		
Line 32, 35	168-6 has ar , and 38	Comment Status <b>A</b> n x-axis of TECQ but the test		nresolved (Ref_receiver) e references SECQ.	Comment Units s Suggested	hould be upright	Comment Status A not italic	2.0 u	inresolved (Ref_receiver,
SuggestedRem	•				Per co	mment			
Not sure if	this is an erro	or			Response		Response Status C		
Response ACCEPT IN		Response Status <b>C</b>			ACCE	PT.	·		
Change SE	ECQ in the tex	xt to TECQ, 3 places.			C/ 168	SC 168.7.12	P <b>41</b>	L <b>40</b>	# 10
C/ 168 S	C 168.7.12	P <b>41</b>	L <b>32</b>	# 9	Ran, Adee		Cisco System	ns, Inc.	
Ran, Adee		Cisco System	s, Inc.		Comment	Type <b>TR</b>	Comment Status A	2.0 u	inresolved (Ref_receiver,
	rence to equa	Comment Status <b>A</b> ation 168-4 is not active.		nresolved (Ref_receiver)	receive		h 168-5 have equal signs an s not need to be equal to a va the figure.		
	•	68-5 and 168-6 in the subse	quent paragrapr	IS.	Suggested	Remedy			
SuggestedRem Make the c	nedy pross-referenc	ces active.			Either RS.	change the equa	tion to have a "lower than" va	alue, or define th	e term as the maximum
Response		Response Status C			Response		Response Status W		
	N PRINCIPLE suggested re	E. emedy with editorial license.				PT IN PRINCIPL e the equal signs	E. to less than or equals.		
C/ 168 S	C 168.7.12	P <b>41</b>	L <b>37</b>	# 44	C/ 168	SC 168.7.12	P <b>51</b>	L <b>4</b>	# 131
Dawe, Piers		Nvidia			Dawe, Pie	ſS	Nvidia		
Comment Type 100GBASE		Comment Status R	2.0 u	nresolved (Ref_receiver)	Comment Correc		Comment Status <b>A</b> ment 194: change 100GBAS	E-BR10 to	editoria
SuggestedRem 100GBASE	2				Suggested 100GE	Remedy ASE-BR40			
Response REJECT.		Response Status Z			Response ACCE	PT.	Response Status C		
This comm	ent was WITI	HDRAWN by the commenter							

See comment #29.

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

C/ 168 SC 168.7.12 Page 23 of 28 2025/5/19 21:36:28

C/ 168	SC 168.7.13	P <b>42</b>	L1	# 20	C/ 168	SC	68.7.13	P <b>42</b>	L <b>38</b>	# 46
Johnson, Jo	ohn	Broadcom			Dawe, Pie	ers		Nvidia		
Comment T	Type <b>TR</b>	Comment Status A		D2.0 unresolved (SRS)	Comment	Туре	Е	Comment Status A		D2.0 unresolved (SRS
The stro method	essed receiver s d specified in 121	ensitivity test method in 168. 1.8.10.	7.13 needlessl	y reiterates the test	confor	rmance	e signal, opt	conformance test signal, sign ical test signal, stressed rece al, and stressed receiver cor	eiver conform	ance test signal, test
Suggested								me name for a thing, every tir		
		method of 802.3dj D1.5, Cl.1			Suggested			0. 7		<b>o ,</b> ,
with a s	snort list of excep	ptions. Replace the entirety of	or 168.7.13 With	i the following text:	00		•	nuch as is reasonable.		
Stresse	ed receiver sensi	itivity of each lane shall be wi	thin the limit gi	ven in Table 168-7 if			une up, ue i			
	red using the				Response			Response Status <b>C</b>		
		8.10 with the following except essed receiver conformance		possured according to			PRINCIPLE nt #20.	1.		
	5, except		test signal is n	leasured according to	0000	ommei	iπ <del>π</del> 20.			
that the	test fiber is not	used. The transition time of t	he stressed red	ceiver conformance test	C/ 168	SC	68.7.13	P <b>42</b>	L <b>39</b>	# 47
signal i					Dawe, Pie	ers		Nvidia		
		ue specified in Table 168-6. oise generator on and the sin	usoidal iitter a	nd sinusoidal interferer	Comment	Type	Е	Comment Status A		D2.0 unresolved (SRS
turned		oloo generator en ana me en			"SRS"	" is not	explained.	It is used only three times.		·
RINXO	MA of the SRS to	est source should be no grea	ter than the va	ue specified in Table 168-	Suggested	dDomo	dv			
6. Tho	aignaling rate of	the test pattern generator an	d the extinction	a ratio of the $E/O$	00		ach time			
	ter are as	the test pattern generator an		Tallo of the E/O	•					
		ing test patterns specified in	Table 168-10.		Response			Response Status C		
		of the "Stressed receiver sen	sitivity (OMAou	uter), each lane (max)", "			PRINCIPLE			
Stresse	,	Q), lane under test" and "OM	A outor of ooob	addresser lone" are as	See c	ommer	nt #20.			
given ir			Auter of each	aggressor lane are as	C/ 168	SC	68.7.13	P <b>42</b>	L <b>42</b>	# 48
Table 1	168-7.				Dawe, Pie	ers		Nvidia		
Response		Response Status C			Comment	Туре	т	Comment Status A		D2.0 unresolved (SRS
	PT IN PRINCIPL	E. CL140 and remove each lane	9.			o tell the		ice of the optical link should that to do, and unlike the TDE		
					Suggested	dReme	edy			

Explain this fully or delete the sentence.

Response Response Status C

ACCEPT IN PRINCIPLE. Revise figure 168-7 according to contribution 3dk\_effenberger\_2504\_1.

C/ 168	SC 168.7.13	P <b>42</b>	L <b>44</b>	# 49	C/ 168	SC 168.8.1	P <b>53</b>	L <b>18</b>	# 103
Dawe, Pie	ers	Nvidia			Wienckow	rski, Natalie	IVN Solutions	LLC	
Comment	Туре Т	Comment Status A		D2.0 unresolved (SRS)	Comment	Type ER	Comment Status A		external
While	it should be obvio	ous			As cor	mment #235 on	D2.0 stated: References to exte	ernal points not	properly indicated.
Suggested	Remedy				Suggested	Remedy			
		PMD's transmitter and any c			Apply	a character tag	of "External" to "J.2".		
		when stressed sensitivity (and ter measurements such as TE			Response		Response Status W		
Response	-	Response Status <b>C</b>				PT IN PRINCIPI			
ACCE	PT IN PRINCIPL	E.			Implei		remedy with editorial license.		
Impler	ment suggested r	emedy with editorial license.			C/ 168	SC 168.9	P <b>45</b>	L <b>26</b>	# 52
See co	omment #20.				Dawe, Pie		Nvidia		
C/ 168	SC 168.7.13.	3 P <b>4</b> 3	L <b>33</b>	# 50	Comment		Comment Status R		D2.0 unresolved
Dawe, Pie		Nvidia	233	# 50			B at 1310 nm. 10GBASE-BR1 50GBASE-BR10, also 1260 nm		
Comment		Comment Status A		D2.0 unresolved (SRS)	shorte	st wavelength is	1303.6 nm so the same cable	won't show so	much loss. Calculating
		finition of TECQ, this can be o	one directly			annel insertion l 1303.6 nm	oss using the link model, it's 6.	00 dB at 1310 r	m 6.20 at 1260 or 6.02
Suggested		,	,		Suggested				
Chang	•	according to 168.7.5, except th 168.7.6"	nat the test fibe	r is not used" to "is	00	,	1). Change the budget for 100	GBASE-BR10 f	rom 10.6 to 10.3 (or
Response		Response Status C			Response		Response Status C		
	PT IN PRINCIPL omment #20.	E.			REJE The gi		ensus to keep it as 6.3 dB for E	3R10.	
C/ 168	SC 168.7.13.	3 P43	L <b>41</b>	# 51					
Dawe, Pie	ers	Nvidia							
Comment	Туре Е	Comment Status A		D2.0 unresolved (SRS)					
		he word may is used to indica d (may equals is permitted to		action permissible within					
Suggested	Remedy								
Chang might		d may result" to "under-stress	ed could result	" or "under-stressed					
Response		Response Status C							
	PT IN PRINCIPL omment #20.	E.							

C/ 168 SC 168.9	P <b>45</b>	L <b>30</b>	# 13	C/ 168	SC 168.	٩	P <b>55</b>	L7	# 132
Maniloff, Eric	Ciena	200	π 10	Dawe. Pie			Nvidia	-1	# 10Z
Comment Type T	Comment Status A		D2.0 unresolved	Comment		Comment	Status A		new (dispersion
values, as documente used to arrive at the 0	stical analysis is being used to ed in G.652 Appendix I. The do CD values. 802.3dj currently ind ons are based on the statistical opendix I."	ocument should cl	arify the approach ng text: "The	Table minim	168-12 give um in the up separately		But transceive	r designers need	ction (D to U) and the to know the range for D
SuggestedRemedy				00		ows with four rows	:		
Add a footnote to the dispersion values.	CD values in Table168-12 indi	icating the metho	d used to calculate the	Maxim Maxim	ium dispersi ium dispersi	on, D to U 4.6 on, U to D 0.6	4.2 2.5 -3.7 -13.4		
Response ACCEPT IN PRINCIF	Response Status <b>C</b> PLE.			Minim Delete	um dispersion note b	on, D to U -13.9 -2 on, U to D -18 -3	32 -59		
Add to footnote b: "The dispersion spec documented in	ifications are based on the stat	tistical link design	methodology	Add a <i>Response</i>		the four wavelengt <i>Response</i>			
ITU-T REC G.652, Ap	opendix I.".				PT IN PRIN				
C/ 168 SC 168.9	P <b>45</b>	L <b>36</b>	# 53			ows with four rows			
Dawe, Piers	Nvidia			Maxim	um dispersi	on, U to D 0.6	0 0		
Comment Type T	Comment Status A	D2.0	unresolved (dispersion)			on, D to U -13.9 -2 on, U to D -18 -3			
	sion ranges for the upstream di			Delete	note b from	dispersion rows.			
SuggestedRemedy				Add a	column for	the four wavelengt	hs		
,	or the dispersion ranges for the	e downstream dire	ection.	C/ 168	SC 168.	10	P <b>46</b>	L <b>26</b>	# 54
Response	Response Status C			Dawe, Pie	rs		Nvidia		
ACCEPT IN PRINCIP	PLE.			Comment	51		Status A		D2.0 unresolve
See comment #132.					ot support o 100GBASE		100GBASE-BI	R10, 20 km for 10	0GBASE-BR20 or 40
				Suggested	lRemedy				
					ot support o for 100GBA		n for 100GBAS	E-BR10, 20 km fo	or 100GBASE-BR20 or
				Response		Response	Status C		

ACCEPT.

01.400	00.400.44	D.:-	1.00	" ==				0		"
C/ 168	SC 168.11	P <b>47</b>	L <b>39</b>	# 55	C/ 168		168.11	P <b>47</b>	L <b>47</b>	# 60
Dawe, Pie	ers	Nvidia			Dudek, Mi	ke		Marvell		
Comment	Type E	Comment Status A	.0 un	resolved (interoperation)	Comment	Туре	TR	Comment Status A	.0 ui	nresolved (interoperation
materi	ial e.g. in 151 doe	for interoperation between 10 sn't say "Requirements for".	0GBASE-BRx P	MDs" other similar	specs	for the	two direct	between the BR20 and BR40 ions. To be compliant in bot 40 would have to be min 8.3dl	h directions it a	ppears that the loss
Suggested Delete	-	or" here and in the table title.			range	but co	uld be spe			
					Suggested	lReme	dy			
	PT IN PRINCIPL	Response Status <b>C</b> E.			Collap 10dB	se the	two rows i	n Table 168-15 into one row.	With min loss o	f 8.3dB and max loss of
See co	omment #58.				Response			Response Status C		
C/ 168	SC 168.11	P <b>47</b>	L <b>39</b>	# 56			PRINCIPL	E.		
Dawe, Pie	ers	Nvidia			See co	ommer	nt #58.			
Comment	Туре Т	Comment Status A	.0 un	resolved (interoperation)	C/ 168	SC	168.12.3	P <b>49</b>	L <b>28</b>	# 28
		o introduce the table, which sł			Zimmerma	an, Geo	orge	ADI,APLgp,Cis	sco,Marvell,On	Semi,Sony,SenTekse
		R10. Presumably the mixed li shorter-reach PMD.	ink has to stay w	ithin the chromatic	Comment	Туре	т	Comment Status A		D2.0 unresolved
Suggested								ection of the PICS, not a capa out in their own table.	bility or option.	These are requiremeths
	thing like:	etween 100GBASE-BRx PMI	25		Suggested	lReme	dy			
The 10 an enç 100GE	00GBASE-BR20 gineered link) pro BASE-BR20 in Ta	and 100GBASE-BR40 PMDs vided that the fiber optic cabli ble 168-12 are met, with the o tion loss values, which are giv	can interoperate ng (channel) cha exception of the	nacteristics for maximum and	and re	numbe aint ree	er subsequ quirments	8.12.3, add new section 168.1 ent PICS statements. Go thro one-by-one to populate (this is	ough 168.3 and	call out the delay
Interop	peration between	ttenuators may be used to ac 100GBASE-BR10 and 100G ever the case is).				PT IN	PRINCIPL			
Response		Response Status <b>C</b>			Impler	nent si	uggested r	emedy with editorial license.		
	PT IN PRINCIPL	,								

C/ 168 SC 168.12.3 Page 27 of 28 2025/5/19 21:36:28

C/ 168	SC 168.6,1	P <b>42</b>	L <b>28</b>	# 64
Maniloff, E	Fric	Ciena		
(Min) v	ntly the OMA (Max values for this is 7 outer for BR40. T	Comment Status A x) values for 100GBASE-B 7.8 dBm. This leaves 0.5 dB his is not sufficient differen	3 difference betwe	en Min and Max
reduce resista loss wi	er to increase the ed or maximum ne ince to increasing ill enable an incre	$\Delta$ between min and max va seds to be increased. Due the maximum value. Spec- tase to the maxumimum Ta- loss of 11 dB in Table 168-	to overload conce ifying a 1 dB high power. A recomn	rns, there has been er minimum insertion nended solution is to
After C Table 168-6, thresh	168-12 and increa Average receive old in Table 168-7	sion, there's consensus to ase maximum OMA_outer power (max), Receive pow 7 by 1 dB for 100GBASE-B	and Average laun ver (OMAouter) (m R40.	ch power (max) in Table nax), and damage
C/ 168	SC 168.6,1	P <b>42</b>	L <b>28</b>	# 63
Maniloff, E Comment		Ciena Comment Status A		technical
Curren (Min) v	ntly the OMA (Max alues for this are	x) value for 100GBASE-BR -0.3 dBm. This leaves 0.3 ent difference for manufac	dB difference betw	hax TDECQ the OMA ween Min and Max for
Suggested	IRemedy			
reduce resista an incr	ed or maximum ne ince to increasing rease to the maxu	$\Delta$ between min and max vaseds to be increased. Due the maximum value. Specuminum Tx power. A recorble 168-12 and a maximum	to overload conce ifying a minimum nmended solution	rns, there has been insertion loss will enable is to specify a minimum
Response		Response Status C		
	PT IN PRINCIPL	E. sion there's consensus to	keen the minimur	n link loss of 0 dB in

After CRG group discussion, there's consensus to keep the minimum link loss of 0 dB in Table 168-12 and increase maximum OMA\_outer and Average launch power (max) in Table 168-6, Average receive power (max), Receive power (OMAouter) (max), and damage threshold in Table 168-7 by 1.2 dB for 100GBASE-BR20. Add an editor's note: call for contributions in the next meeting.

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

C/ 168 SC 168.6,1 Page 28 of 28 2025/5/19 21:36:28