C/ 45 SC 45.2.1.7.	.5 P 40	L 14	# 1	C/ 171	SC 171.3	P <b>192</b>	L 15	# 4
Hajduczenia, Marek	Charter Comr	nunications		Nicholl, Sha	awn	AMD		
Comment Type E	Comment Status X			Comment 7	Type <b>TR</b>	Comment Status X		
list uses "." instead of KR4. 800GBASE-KR8	"," in edited list "100GBASE-K 3"	(R1, 200GBASE-	KR2, 400GBASE-	in the t	ransmit path of	al block diagram for the I the PHY 800GXS and like oduces confusion.		
SuggestedRemedy								
Change "." to "," before 12	e newly added entry. Same or	n line 19. The sar	ne applies to Table 45-		e one of the fol	owing solutions:		
Proposed Response	Response Status <b>O</b>			to 8000 800GX	GMII), use label S (i.e. direction	. In the transmit path of t s "Flow 0 Tx" and "Flow 1 from 800GMII to PMA), u proposal is that it contrad	Tx". In the receive se labels "Flow 0 R	e path of the PHY tx" and "Flow 1 Rx".
C/ 173 SC 173.4.2.	1 P <b>232</b>	L 15	# 2	indicate	e that the "171.8	3.4.1 Transmit function" o		
Nicholl, Shawn	AMD				57B transcoder		a datta diana	
Comment Type <b>T</b>	Comment Status X					. Remove the Tx/Rx in the train the		
51	A bit-level multiplexing" the wo	ord "contain" is u	sed which is	"Flow 1	Rx" with "Flow	1". If this solution is cho		
	enced 120.5.2 "Bit-level multip					al block diagram".		
SuggestedRemedy						<ul> <li>n. Since the diagram is e gram", rely on the text (ir</li> </ul>		
•••					JUUITAI DIUUK UIA		the same manner	
Propose to replace "co	ontain" with "carries", so the se	entence reads "	. each of the 8 output			player" was able to rely or		
lanes carries two PCS carrying a stream of b		carries" emphasiz	zes that each lane is		KS/400GXS Sul			
lanes carries two PCS carrying a stream of b Propose to make the s	Ls from". Using the word "o its. same change in 173.4.2.2 "8:3	carries" emphasiz	zes that each lane is	"200G) Proposed I	KS/400GXS Sul Response	layer" was able to rely or <i>Response Status</i> <b>O</b>	text without a new	diagram).
lanes carries two PCS carrying a stream of b	Ls from". Using the word "o its.	carries" emphasiz	zes that each lane is	"200G) Proposed F  Cl <b>172</b>	KS/400GXS Sul Response SC <b>172.1.5</b>	olayer" was able to rely or Response Status <b>O</b> P <b>204</b>		
lanes carries two PCS carrying a stream of b Propose to make the s	Ls from". Using the word "o its. same change in 173.4.2.2 "8:3	carries" emphasiz	zes that each lane is	"200G) Proposed F Cl 172 Nicholl, Sha	KS/400GXS Sul Response SC <b>172.1.5</b> awn	olayer" was able to rely or <i>Response Status</i> <b>O</b> <i>P</i> 204 AMD	text without a new	diagram).
lanes carries two PCS carrying a stream of b Propose to make the s Proposed Response	Ls from". Using the word "o its. same change in 173.4.2.2 "8:3	carries" emphasiz	zes that each lane is	"200G) Proposed F Cl <b>172</b> Nicholl, Sha Comment T	KS/400GXS Sul Response SC <b>172.1.5</b> awn Type <b>TR</b>	P 204 Comment Status X	text without a new	diagram). # <u>5</u>
lanes carries two PCS carrying a stream of b Propose to make the s Proposed Response	Ls from". Using the word "o its. same change in 173.4.2.2 "8:3 <i>Response Status</i> <b>0</b>	carries" emphasiz 32 PMA bit-level	zes that each lane is multiplexing".	"200G) Proposed F Cl <b>172</b> Nicholl, Sha Comment T Figure Curren	KS/400GXS Sul Response SC <b>172.1.5</b> awn Type <b>TR</b> 172.1.5 "Functi tly, the diagram	P 204 AMD Comment Status X onal block diagram" conta shows "Flow <n> Tx" lab</n>	L text without a new L 14 uins a functional dia els in the transmit p	# <u>5</u> gram of the 800G PCS bath and likewise shows
lanes carries two PCS carrying a stream of b Propose to make the s Proposed Response C/ 124 SC 124.8.1 Nicholl, Shawn	Ls from". Using the word "o its. same change in 173.4.2.2 "8:3 <i>Response Status</i> <b>O</b> <i>P</i> <b>115</b>	carries" emphasiz 32 PMA bit-level	zes that each lane is multiplexing".	"200G) Proposed F Cl 172 Nicholl, Sha Comment 7 Figure Curren "Flow <	KS/400GXS Sul Response SC <b>172.1.5</b> awn Type <b>TR</b> 172.1.5 "Functi tly, the diagram m> Rx" labels in	P 204 Comment Status X Diagent Status X Diagent Status X Diagent Status X Diagent Status X Diagent Status X Diagent Status X	L text without a new L 14 uins a functional dia els in the transmit p	# 5 gram of the 800G PCS bath and likewise shows
lanes carries two PCS carrying a stream of b Propose to make the s Proposed Response Cl 124 SC 124.8.1 Nicholl, Shawn Comment Type T The Pattern column fo	Ls from". Using the word "c its. same change in 173.4.2.2 "8:3 <i>Response Status</i> <b>O</b> <i>P</i> <b>115</b> <i>AMD</i> <i>Comment Status</i> <b>X</b> or the Wavelength row contain	carries" emphasiz 32 PMA bit-level 1 <i>L</i> 8 s text "Square wa	tes that each lane is multiplexing". # 3	"200G) Proposed F Cl 172 Nicholl, Sha Comment T Figure Curren "Flow < may ca	KS/400GXS Sul Response SC 172.1.5 awn Type TR 172.1.5 "Functi tly, the diagram m Rx" labels in tuse confusion.	P 204 AMD Comment Status X onal block diagram" conta shows "Flow <n> Tx" lab</n>	L text without a new L 14 uins a functional dia els in the transmit p	diagram). # <u>5</u> gram of the 800G PCS path and likewise show
lanes carries two PCS carrying a stream of b Propose to make the s Proposed Response Cl 124 SC 124.8.1 Nicholl, Shawn Comment Type T The Pattern column fo 400GBASE-R signal, d	Ls from". Using the word "c its. same change in 173.4.2.2 "8:3 <i>Response Status</i> <b>O</b> <i>P</i> <b>115</b> <i>AMD</i> <i>Comment Status</i> <b>X</b> or the Wavelength row contain or 800GBASER signal". Curre	carries" emphasiz 32 PMA bit-level <i>L</i> 8 Is text "Square wa ently, it seems th	tes that each lane is multiplexing". # 3 ave, 3, 4, 5, 6, or valid at the word valid is	"200G) Proposed I Cl 172 Nicholl, Sha Comment T Figure Curren "Flow < may ca Suggested	KS/400GXS Sul Response SC <b>172.1.5</b> awn Type <b>TR</b> 172.1.5 "Functi tly, the diagram cn> Rx" labels in suse confusion. Remedy	P 204 AMD Comment Status X onal block diagram" conta shows "Flow <n> Tx" lab</n>	L text without a new L 14 Lins a functional dia els in the transmit p lf this diagram is re	# <u>5</u> gram of the 800G PCS bath and likewise show e-used for 800GXS it
lanes carries two PCS carrying a stream of b Propose to make the s Proposed Response Cl 124 SC 124.8.1 Nicholl, Shawn Comment Type T The Pattern column for 400GBASE-R signal, only applied to the 400	Ls from". Using the word "c its. same change in 173.4.2.2 "8:3 <i>Response Status</i> <b>O</b> <i>P</i> <b>115</b> <i>AMD</i> <i>Comment Status</i> <b>X</b> or the Wavelength row contain	carries" emphasiz 32 PMA bit-level <i>L</i> 8 Is text "Square wa ently, it seems th	tes that each lane is multiplexing". # 3 ave, 3, 4, 5, 6, or valid at the word valid is	"200G) Proposed F Cl 172 Nicholl, Sha Comment T Figure Curren "Flow < may ca Suggested Propos Tx" wit	KS/400GXS Sul Response SC 172.1.5 awn Type TR 172.1.5 "Functi tly, the diagram cn> Rx" labels in suse confusion. Remedy the to update the h "Flow 0". Rep	olayer" was able to rely or <i>Response Status</i> <b>O</b> <i>P</i> <b>204</b> <i>AMD</i> <i>Comment Status</i> <b>X</b> onal block diagram" conta shows "Flow <n> Tx" lab in the receive path. When diagram. Remove the Ta blace "Flow 1 Tx" with "Flo</n>	L text without a new L 14 L 14 L 14 L 14 L 14 L 14 L 14 L 14	# <u>5</u> gram of the 800G PCS bath and likewise show e-used for 800GXS it rea. Replace "Flow 0 ow 0 Rx" with "Flow 0".
lanes carries two PCS carrying a stream of b Propose to make the s Proposed Response Cl 124 SC 124.8.1 Nicholl, Shawn Comment Type T The Pattern column fo 400GBASE-R signal, o only applied to the 400 SuggestedRemedy	SLS from". Using the word "o its. same change in 173.4.2.2 "8:3 <i>Response Status</i> <b>O</b> <i>P</i> <b>115</b> <i>AMD</i> <i>Comment Status</i> <b>X</b> or the Wavelength row contain or 800GBASER signal". Curre DGBASE-R signal, and not to the	carries" emphasiz 32 PMA bit-level <i>L</i> 8 s text "Square wa ently, it seems th the 800GBASE-F	tes that each lane is multiplexing". # 3 ave, 3, 4, 5, 6, or valid at the word valid is R signal.	"200G) Proposed F Cl 172 Nicholl, Sha Comment T Figure Curren "Flow < may ca Suggested Propos Tx" wit Replac	KS/400GXS Sul Response SC 172.1.5 awn Type TR 172.1.5 "Functi tly, the diagram rn> Rx" labels in suse confusion. Remedy the to update the h "Flow 0". Rep e "Flow 1 Rx" w	AMD <i>Response Status</i> <b>O</b> <i>P</i> <b>204</b> <i>AMD</i> <i>Comment Status</i> <b>X</b> onal block diagram" conta shows "Flow <n> Tx" lab the receive path. When diagram. Remove the Ta</n>	L 14 L 14 L 14 L 14 L 14 L 14 L 14 L 14	# 5 gram of the 800G PCS bath and likewise show e-used for 800GXS it rea. Replace "Flow 0 ow 0 Rx" with "Flow 0". Figure 171-2 "Functiona
lanes carries two PCS carrying a stream of b Propose to make the s Proposed Response Cl 124 SC 124.8.1 Nicholl, Shawn Comment Type T The Pattern column fo 400GBASE-R signal, o only applied to the 400 SuggestedRemedy	Ls from". Using the word "c its. same change in 173.4.2.2 "8:3 <i>Response Status</i> <b>O</b> <i>P</i> <b>115</b> <i>AMD</i> <i>Comment Status</i> <b>X</b> or the Wavelength row contain or 800GBASER signal". Curre	carries" emphasiz 32 PMA bit-level <i>L</i> 8 s text "Square wa ently, it seems th the 800GBASE-F	tes that each lane is multiplexing". # 3 ave, 3, 4, 5, 6, or valid at the word valid is R signal.	"200G) Proposed I Cl 172 Nicholl, Sha Comment T Figure Curren "Flow < may ca Suggested Propos Tx" witt Replac block c	SC 172.1.5 SC 172	AMD <i>Response Status</i> <b>O</b> <i>P</i> <b>204</b> <i>AMD</i> <i>Comment Status</i> <b>X</b> onal block diagram" conta shows "Flow <n> Tx" lab the receive path. When diagram. Remove the Tx blace "Flow 1 Tx" with "Flow the "Flow 1". See similar PHY 800GXS" in sub-clau</n>	L 14 L 14 L 14 L 14 L 14 L 14 L 14 L 14	# <u>5</u> gram of the 800G PCS bath and likewise show e-used for 800GXS it rea. Replace "Flow 0 ow 0 Rx" with "Flow 0". Figure 171-2 "Functiona
lanes carries two PCS carrying a stream of b Propose to make the s Proposed Response Cl 124 SC 124.8.1 Nicholl, Shawn Comment Type T The Pattern column for 400GBASE-R signal, o only applied to the 400 SuggestedRemedy Propose "Square wave signal".	Ls from". Using the word "o its. same change in 173.4.2.2 "8:3 <i>Response Status</i> <b>O</b> <i>P</i> <b>115</b> <i>AMD</i> <i>Comment Status</i> <b>X</b> or the Wavelength row contain or 800GBASER signal". Curre DGBASE-R signal, and not to DGBASE-R signal, and not to comment status <b>X</b> of the Wavelength row contain or 800GBASER signal. Curre	carries" emphasia 32 PMA bit-level <i>L</i> 8 as text "Square wa ently, it seems th the 800GBASE-F SE-R signal, or va	tes that each lane is multiplexing". # 3 ave, 3, 4, 5, 6, or valid at the word valid is R signal. alid 800GBASER	"200G) Proposed F Cl 172 Nicholl, Sha Comment T Figure Curren "Flow < may ca Suggested Propos Tx" wit Replac	SC 172.1.5 SC 172	AMD AMD Comment Status X onal block diagram" conta shows "Flow <n> Tx" lab the receive path. When diagram. Remove the Ta blace "Flow 1 Tx" with "Flov tith "Flow 1". See similar</n>	L 14 L 14 L 14 L 14 L 14 L 14 L 14 L 14	# 5 gram of the 800G PCS bath and likewise show e-used for 800GXS it rea. Replace "Flow 0 ow 0 Rx" with "Flow 0". Figure 171-2 "Functiona

C/ 173	SC 173.4.2.1	P 232	L7	# 6	C/ 163	50	163.13.4.2	P14	•	L 52	# 8
-	-		LI	# 6			103.13.4.2				# 8
Nicholl, Shaw		AMD			Lusted, Ke			Intel Co	•	lon	
Comment Typ		Comment Status X			Comment		TR	Comment Status	-		
multiplexi	ing" and says	hin the PMA" the text referen to "see 173.4.2.1". However, bit-level multiplexing".			2022, due to	has an the ad	incorrect re dition of the	eference to the relevate new item (h) in 3df	nt sub	clause for the tra	mended by Std 802.3c aining pattern entries sub-clause 162.8.11.1,
uggestedRe	emedy					U	ole 162-10a				
multiplexi function h	ing function ha has an additior	text in 173.4.2.1 "32:8 PMA bas an additional constraint" nal constraint"	with "This rest	ricted bit-multiplexing	For Ite - upda	e 163.1 em 'PC2 te the s	3.4.2 PMD 2': subclause t	Control Function PIC o be 162.8.11.1			
		date the text in 173.4.2.2 "8:			- upda	te valu	e/comment	to reference Table 1	62-10a	a	
		ing function has an additiona as an additional constraint"	I constraint"	with "I his restricted dit-		em 'PC3 te the s		o be 162.8.11.1			
"The 4 PC multiplexi	CSLs received	odate the text in 173.4.2.3 "8: I on an input lane shall be ma as an additional constraint tha ."	apped" with "	This restricted bit-	Proposed	•		Response Status			
Proposed Re	sponse	Response Status 0			C/ 93A	SC	93A.1	P 24	5	L <b>54</b>	# 9
					Lusted, Ke	ent		Intel Co	orporat	ion	
					Comment	Туре	TR	Comment Status	(		
V 162 usted, Kent	SC 162.14.4.2	2 P 139 Intel Corporat	L <b>52</b>	# 7				er specificiations that k-2022, does not con			
omment Ty		Comment Status X			Suggested	Remed	dy				
The PICS 2022, has due to the	S table for "PM s an incorrect	ID control function" the base reference to the relevant sub ne new item (h) in 3df 162.6.1	clause for the t	raining pattern entries	800G/ 800GE	AUI-8 C BASE-C	C2C (Annex CR8 (Claus	de the following Phys 120F)   Table 120F-8 e 162)   Table 162-20 e 163)   Table 163-11	3	ayer references a	and Parameter values:
SuggestedRe					Proposed	Respor	nse	Response Status	C		
Update 1 For Item	62.14.4.2 PMI 'PC2': the subclause	D Control Function PICS item to be 162.8.11.1 It to reference Table 162-10a									
For Item		to be 162.8.11.1									

Proposed Response

Response Status 0

Comment ID 9

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C/ 169 SC 169.4	P 177	L <b>40</b>	# 10	C/ 124 SC 124.	7.3 P 110	L 16	# 12
Laubach, Mark	IEEE Membe	r / Self		Stassar, Peter	Huawei		
Comment Type E	Comment Status X			Comment Type TR	Comment Status X		
the standard. Clause measured in units of p 31B.2. SuggestedRemedy	finition of pause_quanta.)". 1 31B.2 defines "pause_time" c ause_quanta," "pause_qua ere pause_quanta is actually <i>Response Status</i> <b>O</b>	only and that "Th anta" is defined s	e pause_time is	3.5 dB, whereas for The difference of ( potentially sufferin configuration com Because it was ag discrete reflectance	le 124-8, for 400G-DR4 and 800 or 400G-DR4-2 and 800G-DR8-2 .3 dB seems to originate from th g a higher MPI penalty due to lar oared to a DR4/DR8 configuratio reed (during the TF phase) to us es as shown in in-force Table 12 n be assumed for DR4/DR8 and	it is 3.8 dB. ne FR4 spec in Cl ger individual refl n. e the same list of 24-13, also the sa	ause 151, which is lections in an FR4 f requirements for
C/ 45 SC 45.2.5.16	Sa P 81	L <b>49</b>	# 11	In Table 124-8, in	the columns for 400GBASE-DR4 Ities from 3.8 dB to 3.5 dB.	1-2 and 800GBAS	E-DR8-2, change th
Ewen, John	Independent	- 10	" [ <b>1</b>	Furthermore chan	ge Tx min power from x to y and e provided for the comment reso		m a to b. A supportin
Comment Type E	Comment Status X			Proposed Response	Response Status <b>O</b>	C C	
Beginning of sentence defining registers 5.30	refers to registers 4.300 to 4 0 to 5.302	.302; however, t	he subclause is	·,····			
SuggestedRemedy							
Change 4.300 - 4.302 paragraph.	to 5.300 - 5.302 respectively	in first sentence	of second sub-clause				

C/ 171 SC 171.4	P 193	L <b>42</b>	# 13	C/ 173 SC 173.4.8.3	B P 236	L 19	# 14
Ran, Adee	Cisco			Ran, Adee	Cisco		
Comment Type T	Comment Status X			Comment Type T	Comment Status X		

Comment Type т Comment Status X

The standard should be explicit about what happens in a PHY connected to an 800GMII Extender when there is no valid input signal.

The precedence is set in 802.3cw: D2.1 states (in 155.2.6.7.2) that the 400GBASE-ZR PCS sends local fault ordered sets to the 400GMII when there is no signal; this means the PHY XS transmits these local fault over the 400GAUI-n toward the DTE XS. There is no provision for "shutting down" the PHY XS output, so the 400GAUI-n in an Extender is never silent.

The behavior of the 800GMII extender should be the same as that of the 400GMII extender as described above.

Note that this behavior is different from existing optical modules that are connected with any AUI-C2M to a PCS (as part of the PHY, not an extender), where it is common to squelch the module electrical output (aka disable the AUI's transmitter) when there is no optical input (PMD:IS SIGNAL indication is not ok); that is indicated to by PCS via PMA:IS\_SIGNAL.indication on its adjacent PMA. That would not be compliant behavior when the AUI is within a 800GMII Extender.

The different behavior required from Extender modules may not be obvious and should be mentioned.

Note: if the task force wants to allow squelching the Extender's AUI, it may require more significant changes; as an alternative, an editor's note can be added to capture that intent until a detailed proposal is presented

(such as "Editor's note: the behavior of the Extender when there is no input signal from the PHY is to be determined").

#### SuggestedRemedy

Add the following paragraph at the end of 171.4:

NOTE-link fault signaling generated by the PHY (see 170.3 and 81.3.4) is transmitted to the RS through the 800GMII Extender. Therefore, the electrical interface used within the 800GMII Extender sends valid PHY 800GXS data regardless of the link state of the PHY below the 800GMII.

Proposed Response Response Status 0 "Otherwise the SIL reports the signal status as FAIL"

In the case of 8:8 PMA, this FAIL status typically indicates that data is not being received on all 8 input lanes (inst:IS UNITDATA 0.7.indication). When this happens, the data on the output lanes (PMA:IS\_UNITDATA\_0:7.indication) cannot be determined from the standard. Apparently it is unspecified, but it isn't stated explicitly.

In optical modules (a common implementation of PMAs similar to this one), the typical behavior is to turn off the electrical output of the AUI-C2M; but this functionality is not specified in the standard, and there is no specification of "output disabled" in 120G.3.2. It can be argued that this common behavior is non-compliant.

With no specification of behavior in this condition, the signal status is not conveyed to the PMA client (host ASIC) in a specified and consistent manner. Moreover, SerDes designers cannot assume what signal appears on the AUI when there is no input, and that is a repeating source of confusion, often leading to bad design or unnecessary over-design.

We need to specify the AUI behavior when signal status is FAIL such that the PMA client can detect this situation. Based on existing module behavior, it is suggested to state that a PMA with a physically instantiated interface disables the transmitters on all lanes of that interface when signal status is FAIL on the other interface, for some minimum time. The PMA client can infer the status by detecting that its input signal corresponds to a disabled transmitter. This requires adding the missing "output disabled" mode in the module output characteristics (120G.3.2).

A possible alternative is to allow the PMA to transmit the PRBS31Q test pattern (120.5.11.2.2), if implemented, instead of disabling the transmitter. The PMA client can then infer the link status by detecting that its input corresponds to a PRBS31Q test pattern. This would not require adding "output disabled" mode, but it is likely not the existing behavior, and would be more disruptive.

Note that this isn't just an 802.3df problem (ambiguity of the module output is a longstanding issue), but since we are defining a new PMA it is a good opportunity to close this gap.

#### SugaestedRemedv

Add the following paragraph at the end of 173.4.8.3:

"When the signal status is FAIL, an 8:8 PMA shall disable the output on all lanes of its physically instantiated service interface for a minimum time of 50 ms."

Add 120G.3.2 to the draft. Change the first sentence from

"The module output shall meet the specifications given in Table 120G-3" to

"When the module output is enabled, it shall meet the specifications given in Table

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: Comment ID

Comment ID 14

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120G-3. When the module output is disabled, the Differential peak-to-peak output voltage shall be less than 35 mV."<paragraph break>

CI <b>45</b>	SC 45.2.1.135	P 45	L <b>29</b>	# 16
Ran, Adee		Cisco		

Change the title of Table 120G-3 to "Module output characteristics in enabled state at TP4"

Proposed Response

Response Status O

C/ 120	SC 120.5.11.2	P 98	L 13	# 15

Ran. Adee

Cisco
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Comment Type T Comment Status X

"All test patterns specified in 120.5.11.2.1, 120.5.11.2.2, 120.5.11.2.3, and 120.5.11.2.4 are defined without precoding."

This should also include 120.5.11.2.a (PRBS9Q test pattern added in 802.3ck).

#### SuggestedRemedy

Add 120.5.11.2.a.

Proposed Response Response Status 0

Comment Type TR Comment Status X

Registers 1.500 through 1.515 and 1.516 through 1.531 are mapped to variables that are used for transmitter equalization (local and remote) with AUI-C2C interfaces at 25 or 50 Gb/s per lane (defined in Annex 120B or 120D respectively). The transmit equalizer has 3 taps and specific sets of tap values (or ratios) with relatively coarse steps.

For 100 Gb/s per lane AUI-C2C, the transmitter equalization is controlled by a different set of variables, as defined in 120F.3.1.7 and 120F.3.2.6. The variables are different from and incompatible with those of Annex 120B/120D - the transmit equalizer has 5 taps and finer step size. The mapping of these variables to MDIO registers is also specified in these subclauses of 120F.

Therefore, Registers 1.500 through 1.531 should be made specific to the AUI-C2C at 25 or 50 Gb/s per lane.

This should have been done in 802.3ck, but if the subclauses of clause 45 are modified by this project, it should be done correctly.

If the suggested remedy is not within scope then, as an alternative, these subclauses of clause 45 should be deleted from 802.3df, since they are irrelevant for 800GAUI-n and thus out of scope.

SuggestedRemedy

In the title and body text of 45.2.1.135, change "50GAUI-n, 100GAUI-2, 200GAUI-n, and 400GAUI-n, and 800GAUI-n" to "50GAUI-n, 100GAUI-2, 200GAUI-8, 200GAUI-4, 400GAUI-16, and 400GAUI-8". Apply the same change in the title of Table 45-107.

Apply similarly in 45.2.1.136, 45.2.1.137 (including Table 45-108), and 45.2.1.138.

Proposed Response Response Status **O** 

C/ 45	SC 45.2.3.25	P <b>0</b>	L <b>0</b>	# 17
Slavick, Jeff	:	Broadcom		

Comment Status X Comment Type TR

Listing the number of PCS lanes for each PCS type in Clause 45 just adds duplication of information provided in the actual PCS clause. This text is likely to get stale or not updated as new rates or PCS configurations are added.

#### SuggestedRemedv

Remove the last paragraph that begins with Clause 82

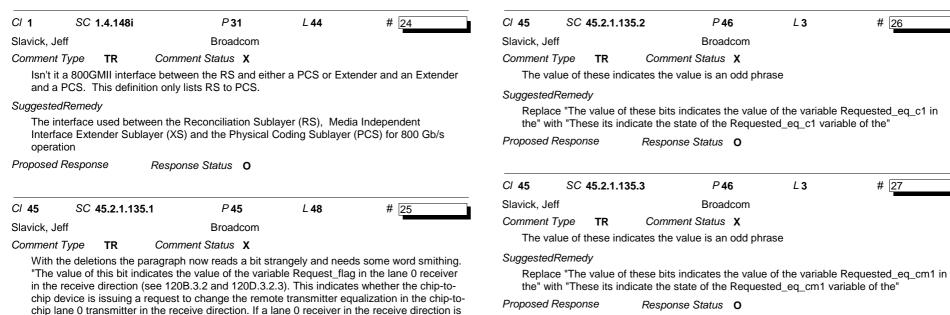
Proposed Response Response Status **O** 

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

Comment ID 17

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C/ 45 SC 45.2.3	<b>3.25.1</b> P	0	L <b>0</b>	# 18	Cl <b>45</b>	SC 45.2.4.15	i	P <b>0</b>	LO	# 21
lavick, Jeff	Bro	adcom			Slavick, Jeff			Broadcom		
Comment Type TR	Comment Statu	s X			Comment T	ype TR	Comment S	tatus X		
provide the clauses	rate when defining which those given variable a			formation. Just	informat	tion provided in		Sclause. Thi	is text is likely to	ust adds duplication of o get stale or not
SuggestedRemedy	ntanaa ta kaad "Thia hi	t rofloato th	a atota of am la	aki01 ar amna laaki01	' SuggestedF		0			
•	ntence to read "This bi 19.2.6.2.2, or 172.2.6.2		e state of am_ic	ock[U] of amps_lock[U]	00	,	raph that begins	s with Clause	119	
Proposed Response	Response Statu	s O			Proposed R	esponse	Response St	tatus <b>O</b>		
7 45 SC 45.2.3	3.48a P	0	L <b>0</b>	# 19	C/ <b>45</b>	SC 45.2.5.16	a	P <b>0</b>	L <b>0</b>	# 22
lavick, Jeff	Bro	adcom			Slavick, Jeff			Broadcom		-
Comment Type TR	Comment Statu	s X			Comment T	ype TR	Comment S	tatus X		
The clause 45 regis	Comment Statu sters are containers for nctional Clause depend	information			The cla	use 45 registers	s are containers	s for informati	on the other cla a Clause 45 de	
The clause 45 regist counter exists is fur	sters are containers for	information			The cla	use 45 registers exists is function	s are containers	s for informati		
The clause 45 regis counter exists is fur SuggestedRemedy	sters are containers for	information dency not a			The clai counter <i>SuggestedF</i>	use 45 registers exists is functio Remedy	s are containers	s for information	a Clause 45 de	
The clause 45 regis counter exists is fur SuggestedRemedy	sters are containers for nctional Clause depend	information dency not a l sentence			The clai counter <i>SuggestedF</i>	use 45 registers exists is function Remedy the word "opti	s are containers onal Clause dep	s for information	a Clause 45 de	uses have. Whether a pendency.
The clause 45 regis counter exists is fur suggestedRemedy Remove the word " Proposed Response	sters are containers for nctional Clause depend optional" in the second <i>Response Statu</i>	information dency not a l sentence			The clai counter <i>SuggestedF</i> Remove	use 45 registers exists is function Remedy the word "opti	s are containers onal Clause dep onal" in the sec <i>Response St</i>	s for information	a Clause 45 de	
The clause 45 regis counter exists is fu uggestedRemedy Remove the word " Proposed Response	sters are containers for nctional Clause depend optional" in the second <i>Response Statu</i> 4.15 <i>P</i>	information dency not a l sentence s <b>O</b>	I Clause 45 dep	endency.	The clar counter SuggestedF Remove Proposed R	use 45 registers exists is function Remedy the word "opti esponse SC <b>45.2.4.16</b>	s are containers onal Clause dep onal" in the sec <i>Response St</i>	s for information bendency not cond sentence tatus <b>O</b>	a Clause 45 de	pendency.
The clause 45 regis counter exists is fur SuggestedRemedy Remove the word " Proposed Response C/ 45 SC 45.2.4 Slavick, Jeff	sters are containers for nctional Clause depend optional" in the second <i>Response Statu</i> 4.15 <i>P</i>	information dency not a l sentence s O	I Clause 45 dep	endency.	The clar counter SuggestedF Remove Proposed R Cl 45	use 45 registers exists is function Remedy the word "opti esponse SC <b>45.2.4.16</b>	s are containers onal Clause dep onal" in the sec <i>Response St</i>	s for information bendency not cond sentence tatus <b>O</b> P <b>0</b> Broadcom	a Clause 45 de	pendency.
The clause 45 regis counter exists is fur SuggestedRemedy Remove the word " Proposed Response C/ 45 SC 45.2.4 Slavick, Jeff Comment Type TR Including the PCS	sters are containers for nctional Clause depend optional" in the second <i>Response Statu</i> 4.15 <i>F</i> Bro	information dency not a l sentence s O '0 adcom s X ch variable	L <b>0</b>	endency. # 20	The clar counter SuggestedF Remove Proposed R Cl 45 Slavick, Jeff Comment T The clar	use 45 registers exists is function Remedy the word "opti esponse SC 45.2.4.16 ype TR use 45 registers	s are containers onal Clause dep onal" in the sec <i>Response St</i> ia <i>Comment S</i> s are containers	For information of the sentence of the sentenc	a Clause 45 de	# 23
The clause 45 regis counter exists is fur SuggestedRemedy Remove the word " Proposed Response Cl 45 SC 45.2.4 Slavick, Jeff Comment Type TR Including the PCS in provide the clauses	esters are containers for nctional Clause depend optional" in the second <i>Response Statu</i> 4.15 <i>F</i> Bro <i>Comment Statu</i> rate when defining whice	information dency not a l sentence s O '0 adcom s X ch variable	L <b>0</b>	endency. # 20	The clar counter SuggestedF Remove Proposed R Cl 45 Slavick, Jeff Comment T The clar	use 45 registers exists is function Remedy the word "opti- esponse SC 45.2.4.16 Sype TR use 45 registers exists is function	s are containers onal Clause dep onal" in the sec <i>Response St</i> ia <i>Comment S</i> s are containers	For information of the sentence of the sentenc	a Clause 45 de	# 23
The clause 45 regis counter exists is fur SuggestedRemedy Remove the word " Proposed Response Cl 45 SC 45.2.4 Slavick, Jeff Comment Type TR Including the PCS is provide the clauses SuggestedRemedy	sters are containers for nctional Clause depend optional" in the second <i>Response Statu</i> <b>1.15</b> <i>P</i> Bro <i>Comment Statu</i> rate when defining which is those given variable a ntence to read "This bi	information dency not a l sentence s O 0 adcom s X ch variable and the clau	L <b>0</b> <i>L</i> <b>0</b> is extraneous in use numbers.	# 20	The clar counter SuggestedF Remove Proposed R Cl 45 Slavick, Jeff Comment T The clar counter SuggestedF	use 45 registers exists is function Remedy the word "opti- esponse SC 45.2.4.16 Sype TR use 45 registers exists is function Remedy e the word "opti-	s are containers onal Clause dep onal" in the sec <i>Response St</i> ia <i>Comment S</i> s are containers	For information of the sentence of the sentenc	a Clause 45 de	# 23



C/ 45 SC	45.2.1.13	5.2 P	46	L <b>3</b>	# 28
Slavick, Jeff		Broa	dcom		
Comment Type	TR	Comment Status	X		

We're requesting the transmitter that is driving this given receiver to be changed. Not sure this text supports lane reversal between ends of the C2C link or not.

#### SuggestedRemedy

Replace "for the transmitter equalization in the chip-to-chip lane 0 transmitter in the receive direction." with "for the transmitter equalization of the transmitter driving the lane 0 receiver in the receive direction."

Make the same chan ge in 45.2.1.135.3

Response Status **O** 

Make the same change
Proposed Response

not present in the package, then the value returned for this bit should be zero."

Response Status 0

then the value returned for this bit should be zero."

Make it so the old paragraph is a full cross out text and replaced with the following

"This bit indicates the state of the Request\_flag variable of the lane 0 receiver in the receive direction (see 120B.3.2 and 120D.3.2.3). When read as a one, the device is issuing

a request to change the transmitter equalization of the transmitter driving lane 0 in the

receive direction. If a lane 0 receiver in the receive direction is not present in the package,

SuggestedRemedy

paragraph:

Proposed Response

Comment ID 28

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C/ 45 SC 45.2.1.	.135.4 <i>P</i> 46	L 22	# 29	C/ 171 SC 171.8	.4.3 P 20	D1 L8	# 32
Slavick, Jeff	Broadcom			Huber, Tom	Nokia		
Comment Type TR	Comment Status X			Comment Type E	Comment Status	х	
	transmitter eq that is driving thi en ends of the C2C link or not.	is receiver. Not s	ure this text supports		he coding rules PICS iten clause 118, which numbe		
SuggestedRemedy				SuggestedRemedy			
	d in lane 0 of the transmitter in	the receive directi	ion"	Change the numbe	ering of C9 through C11 to	C7 through C9, resp	ectively.
with "being used by the ti Make the same char	ransmitter driving the lane 0 reand	ceiver in the recei	ve direction."	Proposed Response	Response Status	0	
Proposed Response	Response Status O			C/ 172 SC 172.2	.1 P20	)5 <i>L</i> 19	# 33
				Huber, Tom	Nokia		
C/ 45 SC 45.2.3.	.25 P 60	L <b>1</b>	# 30	Comment Type E	Comment Status	х	
Slavick, Jeff	Broadcom				overloaded in this paragra		
Comment Type TR	Comment Status X			blocks, and also us 172-2.	ses 'block' to refer to the p	processes (called fund	ctional blocks) in Figure
The second percert				1122.			
	ph is not necessary and just m			SuggestedPomody			
first paragraph provi	ph is not necessary and just m des references to all the neces unused lanes for thinner PCS's	sary registers for	the maximal width		ence, change "encode an		
first paragraph provi PCS and states the	des references to all the neces	sary registers for	the maximal width	In the second sente matching functiona	I block" or "encode and ra	ate matching process	
first paragraph provi PCS and states the SuggestedRemedy Remove the last par Remove the last par	des references to all the neces unused lanes for thinner PCS's ragraph of 45.2.3.25 ragraph of 45.2.4.15	sary registers for	the maximal width	In the second sente		ate matching process	
first paragraph provi PCS and states the SuggestedRemedy Remove the last par Remove the last par Remove the last par	des references to all the neces unused lanes for thinner PCS's ragraph of 45.2.3.25 ragraph of 45.2.4.15 ragraph of 45.2.5.15	sary registers for	the maximal width	In the second sente matching functiona	l block" or <sup>"</sup> encode and ra <i>Response Status</i>	ate matching process	
first paragraph provi PCS and states the SuggestedRemedy Remove the last par Remove the last par Remove the last par	des references to all the neces unused lanes for thinner PCS's ragraph of 45.2.3.25 ragraph of 45.2.4.15	sary registers for	the maximal width	In the second sente matching functiona Proposed Response	l block" or <sup>"</sup> encode and ra <i>Response Status</i>	ate matching process	"
first paragraph provi PCS and states the SuggestedRemedy Remove the last par Remove the last par Remove the last par Proposed Response	des references to all the neces unused lanes for thinner PCS's ragraph of 45.2.3.25 ragraph of 45.2.4.15 ragraph of 45.2.5.15 <i>Response Status</i> <b>O</b>	sary registers for s are to to return (	the maximal width ).	In the second sente matching functiona Proposed Response 	l block" or "encode and ra Response Status	O O D5 <i>L</i> 33	"
first paragraph provi PCS and states the suggestedRemedy Remove the last par Remove the last par Remove the last par Proposed Response	des references to all the neces unused lanes for thinner PCS's ragraph of 45.2.3.25 ragraph of 45.2.4.15 ragraph of 45.2.5.15 <i>Response Status</i> <b>O</b>	sary registers for	the maximal width	In the second sente matching functiona Proposed Response Cl 172 SC 172.2 Huber, Tom Comment Type E	l block" or "encode and ra Response Status .1 P 20 Nokia	o O D5 <i>L</i> 33 X	". # <u>34</u>
first paragraph provi PCS and states the SuggestedRemedy Remove the last par Remove the last par Remove the last par Proposed Response	des references to all the neces unused lanes for thinner PCS's ragraph of 45.2.3.25 ragraph of 45.2.4.15 ragraph of 45.2.5.15 <i>Response Status</i> <b>O</b>	sary registers for s are to to return (	the maximal width ).	In the second sente matching functiona Proposed Response Cl 172 SC 172.2 Huber, Tom Comment Type E	l block" or <sup>"</sup> encode and ra <i>Response Status</i> .1 <i>P</i> 20 Nokia <i>Comment Status</i>	o O D5 <i>L</i> 33 X	". # <u>34</u>
first paragraph provi PCS and states the SuggestedRemedy Remove the last par Remove the last par Remove the last par Proposed Response	des references to all the neces unused lanes for thinner PCS's ragraph of 45.2.3.25 ragraph of 45.2.4.15 ragraph of 45.2.5.15 <i>Response Status</i> <b>O</b> <b>1</b> <i>P</i> <b>32</b> Nokia <i>Comment Status</i> <b>X</b>	sary registers for s are to to return (	the maximal width ).	In the second sente matching functiona Proposed Response Cl 172 SC 172.2 Huber, Tom Comment Type E The sentences des SuggestedRemedy Change	l block" or "encode and ra <i>Response Status</i> 2.1 <i>P</i> 20 Nokia <i>Comment Status</i> scribing AM lock, reorderin	O O D5 <i>L</i> 33 X ng, deskewing could b	". # <u>34</u> be written more clearly.
first paragraph provi PCS and states the SuggestedRemedy Remove the last par Remove the last par Remove the last par Proposed Response C/ 1 SC 1.4.467 Huber, Tom	des references to all the neces unused lanes for thinner PCS's ragraph of 45.2.3.25 ragraph of 45.2.4.15 ragraph of 45.2.5.15 <i>Response Status</i> <b>O</b> <b>1</b> <i>P</i> <b>32</b> Nokia <i>Comment Status</i> <b>X</b>	sary registers for s are to to return (	the maximal width ).	In the second sente matching functiona Proposed Response Cl 172 SC 172.2 Huber, Tom Comment Type E The sentences des SuggestedRemedy Change It attains alignment	I block" or "encode and ra <i>Response Status</i> <b>1.1</b> <i>P</i> <b>20</b> Nokia <i>Comment Status</i> scribing AM lock, reorderin	o o b c c c c c c c c c c c c c	". # <u>34</u> be written more clearly. M) portion that is
first paragraph provi PCS and states the SuggestedRemedy Remove the last par Remove the last par Remove the last par Proposed Response Cl 1 SC 1.4.467 Huber, Tom Comment Type E The text has a comm SuggestedRemedy Change "the PCS	des references to all the neces unused lanes for thinner PCS's ragraph of 45.2.3.25 ragraph of 45.2.4.15 ragraph of 45.2.5.15 <i>Response Status</i> <b>O</b> <b>1</b> <i>P</i> <b>32</b> Nokia <i>Comment Status</i> <b>X</b>	L 18	the maximal width ). # <u>31</u>	In the second senter matching functiona Proposed Response Cl 172 SC 172.2 Huber, Tom Comment Type E The sentences des SuggestedRemedy Change It attains alignment periodically transm lanes, the individua then reordered, reo to It attains alignment	I block" or "encode and ra Response Status .1 P 20 Nokia Comment Status cribing AM lock, reorderin marker lock based on th itted on every PCS lane. al PCS lanes are identified ordered and deskewed, ar	ate matching process         0         05       L 33         X         ng, deskewing could b         e common marker (C         After alignment marked         d using the unique mand         the align_status fla         e common marker (C	<ul> <li># <u>34</u></li> <li>be written more clearly.</li> <li>M) portion that is ers are found on all PCS arker portion (UM) and ig is set</li> <li>M) portion of the</li> </ul>
first paragraph provi PCS and states the SuggestedRemedy Remove the last par Remove the last par Proposed Response Cl 1 SC 1.4.467 Huber, Tom Comment Type E The text has a comn SuggestedRemedy Change "the PCS PCS lanes." to "th	des references to all the neces unused lanes for thinner PCS's ragraph of 45.2.3.25 ragraph of 45.2.4.15 ragraph of 45.2.5.15 <i>Response Status</i> <b>O</b> <b>1</b> <i>P</i> <b>32</b> Nokia <i>Comment Status</i> <b>X</b> na splice distributes data to multiple logi	L 18	the maximal width ). # <u>31</u>	In the second sente matching functional Proposed Response Cl 172 SC 172.2 Huber, Tom Comment Type E The sentences des SuggestedRemedy Change It attains alignment periodically transm lanes, the individual then reordered, reo to It attains alignment alignment markers individual PCS lane	I block" or "encode and ra <i>Response Status</i> <b>1</b> <i>P</i> <b>2</b> Nokia <i>Comment Status</i> cribing AM lock, reorderin marker lock based on th itted on every PCS lane. al PCS lanes are identified ordered and deskewed, ar	<b>O X</b> ng, deskewing could be         e common marker (C         After alignment marker         and the align_status flate         e common marker (C         smitted on every PCS         er portion (UM) or the	<ul> <li># 34</li> <li>be written more clearly.</li> <li>M) portion that is ers are found on all PC: arker portion (UM) and ng is set</li> <li>M) portion of the lane and identifies alignment makers. Th</li> </ul>

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: Comment ID

Comment ID 34

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	.4.1.1	P <b>206</b>	L 29	# 35	C/ 172	SC 172.	.2.6.3	P 214	L 15	# 38
luber, Tom		Nokia			Huber, Tom			Nokia		
Comment Type E	Commen	nt Status X			Comment T	ype E		Comment Status X		
Per the style guide, have some separat	ion between the	e general descript	ion and this new	stateless encoder.	figure 1 separat	19-3 has t	been sp ch flow.	ifference between figure lit into two parts because It would be helpful if that	the part shown in	figure 172-6 is done
level 5 heading imr				er would be insert a e 'Process	SuggestedF	Remedy				
description' and rer	umber the exist	ting 172.2.4.1.1 to		either case, the cross-	Change					
reference at line 15						PCS syncl of in Figu		tion process is depicted in	n Figure 172–5 an	id Figure 172–6,
Proposed Response	Response	e Status <b>O</b>			— The done in	monitor fo	or three	consecutive uncorrectable n each flow.	e FEC codewords	(see Figure 172–6) is
7 172 SC 172.2	.4.9	P 210	L <b>48</b>	# 36				tion process is depicted in		
luber, Tom		Nokia						gure 119–13 into two par ectable FEC codewords (		
Comment Type T	Commen	nt Status X				ach flow.			see i igure 172-0	
It's more clear to sa Idle characters (wh				ontinuous stream of	Proposed R	esponse		Response Status O		
SuggestedRemedy										
800GMII is a contro	test pattern is the	he output of the F		ut to the PCS at the	C/ <b>172</b> Huber, Tom			P <b>222</b> Nokia	L <b>21</b>	# 39
800GMII is a contiu	ous stream of id	dle characters.	PCS when the inp	ut to the PCS at the		ars that Ite rules, whic	ems C7-	Comment Status X C9 are omitted here beca ot relevant to 800G - but		
Proposed Response	Response	e Status <b>O</b>			SuggestedF					
							perina o	f C9 through C11 to C7 th	rough C9 respec	tively
7 172 SC 172.2	.5.8.1	P 212	L 10	# 37	Proposed R		o ching o	Response Status <b>O</b>		
luber, Tom		Nokia			1 1000000	0000000				
Comment Type E	Commen	nt Status X								
Per the style guide have some separat										
SuggestedRemedy										
One option would h				er would be insert a e 'Process						
level 5 heading imr	umber the exist	ting 172.2.5.8.1 to		either case, the cross-						

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: Comment ID

Comment ID 39

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C/ 173 SC 173.6.5 P 241 L 15 # 40	C/ 171 SC 171.6 P194 L 26 # 43
Huber, Tom Nokia	Brown, Matt Huawei
Comment Type E Comment Status X	Comment Type E Comment Status X
The status column should be reformatted so the items are not spilling over lines SuggestedRemedy	The PMA above the PMD may not be an 800GBASE-R PMA (per Clause 173) and the PMA may not have 8 lanes.
Reformat so that the items are not split across lines	SuggestedRemedy
	For the PMA immediately above the PMD change "PMA (32:8)" to "PMA".
Proposed Response Response Status O	Proposed Response Response Status <b>O</b>
CI 4 SC 4.4.2 P 33 L 32 # 41	
Schreiner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG	C/ 171 SC 171.1 P 189 L 11 # 44
Comment Type E Comment Status X	Brown, Matt Huawei
in minFrameSize for 2.5 GB/s, 5 GB/s, is a line break after 512 bits, which might be	Comment Type E Comment Status X
caused by a different column width SuggestedRemedy	Description of Extender implies it has only one 800GAUI-n, but it can also have two by definition 800GAUI-n is a physical instantiations so a bit superfluous.
Inrease width of column to match the size of the other columns from the MAC data rate	SuggestedRemedy
Proposed Response Response Status <b>O</b>	Change "The 800GMII Extender is composed of a DTE 800GXS at the RS end, and a 800GXS at the PHY end with a physical instantiation of 800GAUI-n between two adja PMA sublayers." To:
C/ 124 SC 124.5.4 P 106 L 10 # 42	800GXS at the PHY end with a physical instantiation of 800GAUI-n between two adja PMA sublayers." To: "The 800GMII Extender is composed of a DTE 800GXS at the RS end, and a PHY 800GXS at the PHY end with one or two 800GAUI-n between."
C/ 124 SC 124.5.4 P 106 L 10 # 42	800GXS at the PHY end with a physical instantiation of 800GAUI-n between two adja PMA sublayers." To: The 800GMII Extender is composed of a DTE 800GXS at the RS end, and a PHY
Cl 124 SC 124.5.4 P 106 L 10 # 42 Schreiner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG Comment Type E Comment Status X Missing Bracket 3x"(" but only 2x")"	800GXS at the PHY end with a physical instantiation of 800GAUI-n between two adja PMA sublayers." To: "The 800GMII Extender is composed of a DTE 800GXS at the RS end, and a PHY 800GXS at the PHY end with one or two 800GAUI-n between." Align definition in 1.4.184j.
Cl 124 SC 124.5.4 P 106 L 10 # 42 Schreiner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG Comment Type E Comment Status X Missing Bracket 3x"(" but only 2x")" SuggestedRemedy Insert Bracket at the End of Line 11	800GXS at the PHY end with a physical instantiation of 800GAUI-n between two adja PMA sublayers." To: "The 800GMII Extender is composed of a DTE 800GXS at the RS end, and a PHY 800GXS at the PHY end with one or two 800GAUI-n between." Align definition in 1.4.184j. Proposed Response Response Status <b>O</b>
Cl 124 SC 124.5.4 P 106 L 10 # 42 Schreiner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG Comment Type E Comment Status X Missing Bracket 3x"(" but only 2x")" SuggestedRemedy Insert Bracket at the End of Line 11	800GXS at the PHY end with a physical instantiation of 800GAUI-n between two adja         PMA sublayers."         To:         "The 800GMII Extender is composed of a DTE 800GXS at the RS end, and a PHY         800GXS at the PHY end with one or two 800GAUI-n between."         Align definition in 1.4.184j.         Proposed Response       Response Status         O         Cl 124       SC 124.12.4       P 124       L 11       # 45
Cl 124       SC 124.5.4       P 106       L 10       # 42         Schreiner, Stephan       Rosenberger Hochfrequenztechnik GmbH & Co. KG         Comment Type       E       Comment Status       X         Missing Bracket 3x"(" but only 2x")"         SuggestedRemedy         Insert Bracket at the End of Line 11	800GXS at the PHY end with a physical instantiation of 800GAUI-n between two adja         PMA sublayers."         To:         "The 800GMII Extender is composed of a DTE 800GXS at the RS end, and a PHY         800GXS at the PHY end with one or two 800GAUI-n between."         Align definition in 1.4.184j.         Proposed Response       Response Status         C/ 124       SC 124.12.4       P 124       L 11       # [45]         Brown, Matt       Huawei
Cl       124       SC       124.5.4       P 106       L 10       # 42         Schreiner, Stephan       Rosenberger Hochfrequenztechnik GmbH & Co. KG         Comment Type       E       Comment Status       X         Missing Bracket 3x"(" but only 2x")"         SuggestedRemedy         Insert Bracket at the End of Line 11	800GXS at the PHY end with a physical instantiation of 800GAUI-n between two adja         PMA sublayers."         To:         "The 800GMII Extender is composed of a DTE 800GXS at the RS end, and a PHY         800GXS at the PHY end with one or two 800GAUI-n between."         Align definition in 1.4.184j.         Proposed Response         Response Status       0         Cl       124       SC 124.12.4       P 124       L 11       # 45         Brown, Matt       Huawei         Comment Type       E       Comment Status       X         In 124.12.4.3a/b/c the PICS item nicknames DR1 and DR2 are repeated. Also, the status       Status
Cl 124 SC 124.5.4 P 106 L 10 # 42 Schreiner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG Comment Type E Comment Status X Missing Bracket 3x"(" but only 2x")" SuggestedRemedy Insert Bracket at the End of Line 11	800GXS at the PHY end with a physical instantiation of 800GAUI-n between two adja         PMA sublayers."         To:         "The 800GMII Extender is composed of a DTE 800GXS at the RS end, and a PHY         800GXS at the PHY end with one or two 800GAUI-n between."         Align definition in 1.4.184j.         Proposed Response         Response Status       0         Cl       124       SC 124.12.4       P 124       L 11       # 45         Brown, Matt       Huawei         Comment Type       E       Comment Status       X         In 124.12.4.3a/b/c the PICS item nicknames DR1 and DR2 are repeated. Also, the status variable is not defined and a different variable will need to be defined for each PMD to the trained of

C/ 173A SC 173A P 276	L <b>28</b>	# 46	C/ 173 SC 173.1	P 226	L <b>26</b>	# 49
Brown, Matt Huawei			Brown, Matt	Huawei		
Comment Type E Comment Status X			Comment Type E	Comment Status X		
No such thing as "800 Gb/s Extender Sublayer". See 2	171.1.		No such thing as "800 G	b/s Extender Sublayer". Se	ee 171.1.	
SuggestedRemedy			SuggestedRemedy			
Change "800 Gb/s EXTENDER SUBLAYER" to "800G Also in Figure 173-4, page 277, line 31.	MII EXTEND	ER SUBLAYER"	Change "800 Gb/s EXTE	ENDER SUBLAYER" to "80	DOGMII EXTENDE	R SUBLAYER"
Proposed Response Response Status <b>O</b>			Proposed Response	Response Status 0		
			C/FM SC FM	P1	L <b>29</b>	# 50
C/ 1 SC 1.4.184k P 32	L 1	# 47	Grow, Robert	Self		
Brown, Matt Huawei			Comment Type E	Comment Status X		
Comment Type E Comment Status X No such thing as "800 Gb/s Extender Sublayer". See 7	171.1.		Both cx and cz were app with the year 2023.	proved during the March SA	SB meeting and	should be referenced
SuggestedRemedy			SuggestedRemedy			
Change "800 Gb/s Extender Sublayer" to "800GMII Ex	tender Sublay	ver"	Replace "202x" with "20	23" here and on page 12.		
Also in 1.5, page 32, line 32			Proposed Response	Response Status 0		
Proposed Response Response Status O						
			C/FM SC FM	P <b>4</b>	L <b>21</b>	# 51
C/ 171 SC 171.6 P194	L <b>35</b>	# 48	Grow, Robert	Self		
Brown, Matt Huawei			Comment Type E	Comment Status X		
Comment Type E Comment Status X No such thing as "800 Gb/s Extender Sublayer". See 2	171 1		This is not the current from	ont matter.		
Suggested Remedy	.,		SuggestedRemedy			
Change "800 Gb/s EXTENDER SUBLAYER" to "800G		ER SLIBI AVER"	Replace with current from	nt matter.		
Proposed Response Response Status <b>O</b>			Proposed Response	Response Status 0		
Toposed Response Response Status U						
			C/FM SC FM	P <b>8</b>	L <b>24</b>	# 52
			Grow, Robert	Self		
			Comment Type E	Comment Status X		
			The WG ballot group is	now known, please fill in sc	that names can	be reviewed.
			SuggestedRemedy			
			Per comment.			
			Per comment.			

C/FM SC FM	P 12	L 37	# 53	C/ 1 SC 1.4.18	4h P 33	L 37	# 56
Grow, Robert	Self			Dudek, Mike	Marvell		
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
	description of the approved D3.2			The editors note has	s served its purpose		
was changed when Std 802.3cz-2023 is	the original project was split add	ding P802.3dh. (	Publication of IEEE	SuggestedRemedy			
SuggestedRemedy				delete the editors no	ote		
<u>,</u>	ive Ethernet using graded-index	glass optical fibe	er "	Proposed Response	Response Status 0		
Proposed Response	Response Status <b>0</b>	giass option inc					
r Toposeu Nesponse	Response Status U			C/ 45 SC 45.2.1	.135.1 P48	L <b>44</b>	# 57
C/FM SC FM	P12	L <b>47</b>	# 54	Dudek, Mike	Marvell		
Dudek, Mike	Marvell	L 47	# 34	Comment Type E	Comment Status X		
	Comment Status X			800GAUI-16 is not b	being defined in this amendme	nt and therefore 1	20D and 120B are not
Comment Type E	22 has been published			used. There is no r	need to make changes to thes	e sections?	
	22 has been published			SuggestedRemedy			
SuggestedRemedy	20				es to sections 45.2.1.135.1 to 4		
Change 202x to 202	22				AUI-16 is to be included in this te changes (including Title cha		bring in Annex 120D
					J	3	
Proposed Response	Response Status O			Proposed Response	Response Status 0		
Proposed Response	Response Status <b>O</b>			Proposed Response	Response Status <b>O</b>		
· ·	Response Status O	L 40	# 55	· · ·	,		# [50
		L <b>40</b>	# 55	C/ 167 SC 167.10	0.3.4 <i>P</i> 165	L 14	# 58
C/ 1 SC 1.3	Р <b>30</b>	L <b>40</b>	# 55	C/ 167 SC 167.10 Dudek, Mike	<b>0.3.4</b> <i>P</i> 165 Marvell	L 14	# 58
C/ 1 SC 1.3 Dudek, Mike	P <b>30</b> Marvell Comment Status <b>X</b>	L <b>40</b>	# 55	Cl 167 SC 167.10 Dudek, Mike Comment Type T	0.3.4 P 165 Marvell Comment Status X		
C/ 1 SC 1.3 Dudek, Mike Comment Type E	P <b>30</b> Marvell Comment Status <b>X</b>	L 40	# 55	Cl 167 SC 167.10 Dudek, Mike Comment Type T The option B uses th	<b>0.3.4</b> <i>P</i> 165 Marvell		
C/ 1 SC 1.3 Dudek, Mike Comment Type E "One fibre rows" is s SuggestedRemedy	P <b>30</b> Marvell Comment Status <b>X</b>			Cl 167 SC 167.10 Dudek, Mike Comment Type T	0.3.4 P 165 Marvell <i>Comment Status</i> X he angled interface which is de		

C/ 167 SC 167.11	4.6 <i>P</i> 168	L <b>35</b>	# 59	CI 30	SC 30.5.1.1.	2	P 35	L 16	# 62
Dudek, Mike	Marvell			D'Ambros	ia, John	Fu	turewei, U	S Subsidiary of H	luawei
Comment Type E	Comment Status X			Comment	Type E	Comment Stat	us X		
OC17 appears to be	identical to OC16 except in the	status column.			BASE-VR8				
SuggestedRemedy						f WDM technolog lane may be eithe			is ambigous when
Label one of these w	ith Option A and one with Optic	on B		Suggeste	•		. a naroio	ingur er a noem	
Proposed Response	Response Status 0			Chan					
				800G	BASE-R PCS/PN		ltimode fib	er PMD with read	h up to at least 50 m
C/ 173 SC 173.3	P 227	L 26	# 60	as sp to	ecified in Clause	167			
Maguire, Valerie	Copperopolis	L 20	# 00						i-mode fibres PMD with
Comment Type E	Copperopolis Comment Status X			reach	up to at least 50	m as specified in	Clause 16	57	
	space between figures and abb	reviations		Make	s changes throug	hout document as	appropria	ate with editorial lo	cense
0	space between ngures and abb	Te viations		Proposed	Response	Response Stat	us <b>O</b>		
SuggestedRemedy Use a non-breaking	space between "53.125" and "G	Bd".			-	·			
Proposed Response	Response Status O			C/ 116	SC 116.1.3		P 95	L <b>38</b>	# 63
				D'Ambros	ia, John	Fu	turewei, U	S Subsidiary of H	luawei
C/ 30 SC 30.5.1.	1.2 P 35	L 14	# 61	Comment	51	Comment Stat	us X		
D'Ambrosia, John	Futurewei, US	Subsidiary of H	luawei		BASE-DR4 arm "lane" is aml	higous when discu	ussina SMI	F -as a lane may	be either a wavelength
Comment Type E	Comment Status X			or a fi		ligeus when aloot			be chiller a wavelength
800GBASE-SR8				Suggeste	dRemedy				
	of WDM technology over MMF		is ambigous when		ge description to:				
-	a lane may be either a waveler	igth of a liber.				00GBASE-R encon or up to at least 50			stributed over 4 single-
SuggestedRemedy				mode	nores, with react		5 m (366 C	Jiause 124)	
Change 800GBASE-R PCS/F	PMA over 8-lane multimode fibe	er PMD with read	h up to at least 100 m	Make	s changes throug	hout document as	appropria	ate with editorial lo	cense
as specified in Claus	e 167□			Proposed	Response	Response Stat	us <b>O</b>		
to 800GBASE-R PCS/F	PMA over 8 wavelengths distrib	uted over 8 mult	i-mode fibres PMD with						
	00 m as specified in Clause 16								
Makes changes through	ughout document as appropriat	e with editorial l	anca						
Marco changes the	agnost socurrent as appropriat		0000						

Proposed Response Response Status **0** 

C/ 116 SC 116.1	3 P95	L <b>4</b> 1	# 64	C/ 124	SC 1	124 1	P 99	L 13	# 66
D'Ambrosia, John		S Subsidiary of H		D'Ambrosi			Futurewei, US		
Comment Type E	Comment Status X			Comment	,	ER	Comment Status X	Cubbialary of	
400GBASE-DR4-2	ambigous when discussing SMF	- as a lane may t	be either a wavelength	Given 10km be difl	progres it is ass ferent th	s of 800 sumed th nan the F	G in IEEE P802.3dj with the c lat there will be a PCS related PCS for other 800GBASE-R P PCSs and PMAs at 800G.	to coherent of	otical signaling that will
SuggestedRemedy						•	COS and FIMAS at 600G.		
mode fibres, with re	to: g 400GBASE-R encoding over ach up to at least 2 km (see Cla bughout document as appropria	ause124)		editor Modify	/ "PCS" al licens	to be "80 e. to be "89	00GBASE-R PCS" throughout 00GBASE-R PMA" throughou		-
Proposed Response	Response Status O			Proposed	Respon	se	Response Status O		
C/ 124 SC 124.1	P 99	L 36	# 65	C/ 171	SC 1	171.1	P 190	L <b>22</b>	# 67
D'Ambrosia, John	Futurewei, U	S Subsidiary of H	uawei	D'Ambrosi	a, John		Futurewei, US	Subsidiary of	Huawei
Comment Type ER	Comment Status X			Comment	Туре	TR	Comment Status X		
PCS and PMA asso	outliple PCSs and PMAs with the ociated with 400GBASE-R PMD					of the O Physica	SI Physical Layer is incorrect I Layer	as shown in Fi	g 171-1. The medium i
	E-R PMA, respectively.			Suggestee					
SuggestedRemedy	s in text and figures of PCS and	NPMA in the docu	iment that are relevant		Ū		ow the Physical Layer bottom	border at the	pottom of the MDI
	IDs to "400GBASE-R PCS" and			Proposed	Respon	se	Response Status 0		
Proposed Response	Response Status 0								
				C/ 00	SC (	)	P 225	L	# 68
				D'Ambros	a, John		Futurewei, US	Subsidiary of	Huawei
				Comment	Туре	TR	Comment Status X		
				and op in the PMA 8	otical PH extende 3:8	IY types r. This r	9-2 and 169-3, 800G AUI varia , which means you could have neans you would PMA (32:8) ample that a PMA (32:8) is cal	e an 800GAUI- and PMA (8:32	8 in the PHY as well as 2) to support AUIs - not
				Suggestee	Remed	У			
							ling the 32:8 and 8:32 PMAs s not just be in the Extender as		
				Proposed	Respon	se	Response Status 0		

C/ 173	SC 173.4.11	P 236	L <b>31</b>	# 69	C/ FM	SC FM	P 8	L <b>42</b>	# 72
D'Ambrosia	a, John	Futurewei, US	Subsidiary of H	luawei	D'Ambros	sia, John	Futurewei, US	S Subsidiary of I	Huawei
Comment T	Type ER	Comment Status X			Commen	t Type E	Comment Status X		
		escribed elsewhere as an ele		in 163.1, but the	Mem	bers of WG Ballot	not added		
		cal instantiation" - use consist	ent language		Suggeste	dRemedy			
Suggested					Add	NG Balloting List			
0		300GAUI elsewhere from elec	ctrical interface	to physical instantiation	Proposed	l Response	Response Status 0		
Proposed F	Response	Response Status <b>O</b>							
			• • • •		C/ 1	SC 1.4.135a	P 30	L <b>49</b>	# 73
C/ 120G	SC 120G.1	P <b>255</b>	L 14	# 70	D'Ambros	sia, John	Futurewei, US	S Subsidiary of I	Huawei
D'Ambrosia			Subsidiary of H	łuawei	Commen	t Type E	Comment Status X	-	
Comment T	51	Comment Status X			400G	BASE-DR4-2			
The MI sublaye		ers, and AUI's are all distingu	ished by data ra	ates except the PMA	The t or a f		bigous when discussing SMF	-as a lane may	be either a wavelength
Suggested	lRemedy				Suggeste	dRemedy			
Disting	guish PMA sublay	vers with reference to data rat	te		Char	ge			
Proposed F	Response	Response Status 0					ayer specification for 400 Gb nodulation over four lanes of		
					least		Std 802.3, Clause 124.)"	single mode no	
C/ FM	SC FM	P 8	L <b>12</b>	# 71			ayer specification for 400 Gb		
D'Ambrosia	a, John	Futurewei, US	Subsidiary of H	luawei	fibes	with reach up to a	nodulation over four wavelen at least 2 km. (See IEEE Std	gths distributed	over 4 single-mode
Comment 7	Type ER	Comment Status X				l Response	Response Status <b>0</b>		,
Task F	Force Leadership	not fully recognized							
Suggested	lRemedy								
1. Mod									
"Mark I to	Nowell, IEEE P8	02.3df Task Force Vice Chair	-"						
		2.3df Task Force Vice Chair,	IEEE P802.3d	"Optics"Sub-task					
	usted, IEEE P80	2.3df "Electrical" Sub-task Fo )23df "Architecture and Logic		e Chair					
Proposed F		Response Status <b>O</b>		o onan					
ioposed r	nesponse	response status U							

Comment ID 73

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C/ 1	SC 1.4.184b	P <b>31</b>	L <b>6</b>	# 74	C/ 1	SC 1.4.184	f	P 31	L <b>20</b>	# 76
D'Ambros	ia, John	Futurewei, US	S Subsidiary of I	Huawei	D'Ambro	sia, John	F	<sup>-</sup> uturewei, U	S Subsidiary of H	luawei
Comment	51	Comment Status X			Commer	51	Comment St	atus X		
		gous when discussing SMF	-as a lane may	be either a wavelength	With		of WDM technolo a lane may be eith			' is ambigous when
Suggeste	dRemedy				Suggeste	edRemedy				
level p least to IEEE level p	802.3 Physical La pulse amplitude mo 500 m. (See IEEE \$ 802.3 Physical Lay pulse amplitude mo	yer specification for 800 Gb dulation over eight lanes of Std 802.3, Clause 124.)" er specification for 800 Gb/ dulation over eight waveler at least 500 m. (See IEEE	f single-mode fil /s using 800GB. ngths distibuted	ber, with reach up to at ASE-R encoding and 4- over 8 single-mode	level least to IEEE level	E 802.3 Physical pulse amplitude 100 m. (See IEE 802.3 Physical pulse amplitude	modulation over EE Std 802.3, Cla Layer specificatio	eight lanes o use 167.)" n for 800 Gt eight wavele	of multimode fibe	ASE-R encoding and 4- r, with reach up to at ASE-R encoding and 4- over 8 multimode a 167.)
		Response Status <b>O</b>				d Response	Response Sta			,
C/ 1	SC 1.4.184c	P 31	L 10	# 75	C/ 1	SC 1.4.184	g	P 31	L <b>24</b>	# 77
D'Ambros	ia, John	Futurewei, US	S Subsidiary of I	Huawei	D'Ambro	sia, John	F	<sup>-</sup> uturewei, U	S Subsidiary of H	luawei
	BASE-DR8-2 erm "lane" is ambig	Comment Status X	-as a lane may	be either a wavelength	With	BASE-VR8 the introduction	Comment St of WDM technolo a lane may be eith	gy over MM		' is ambigous when
Suggeste	dRemedy				Suggeste	edRemedy	-		-	
level   least	802.3 Physical Lagoulse amplitude mo	yer specification for 800 Gb dulation over eight lanes of Std 802.3, Clause 124.)"			level least	E 802.3 Physical pulse amplitude		eight lanes o		ASE-R encoding and 4- r, with reach up to at
	oulse amplitude mo	er specification for 800 Gb/ dulation over eight waveler at least 2 km. (See IEEE S	ngths distibuted	over 8 single-mode	level	pulse amplitude		eight wavele	engths distributed	ASE-R encoding and 4- over 8 multimode 167.)
	with reaches up to		,							

C/ 30	SC 30.5.1.1.2	P 34	L 51	# 78	C/ 30	SC 30.5.1.1	. <b>2</b> F	°35	L 10	# 80
D'Ambrosia,		-	Subsidiary of H		D'Ambrosi				Subsidiary of H	
	ASE-DR4 n "lane" is ambigous	when discussing SMF	-as a lane may b	be either a wavelength		BASE-DR8-2 erm "lane" is an	Comment Statu		-as a lane may	be either a wavelength
m as sp to 400GBA	ASE-R PCS/PMA ove lecified in Clause 124 ASE-R PCS/PMA ove ch up to at least 500	er 4-lane single-mode fil er 4 wavelengths distribu m as specified in Claus sponse Status <b>O</b>	uted over 4 single		as spe to 800GE reach	ge BASE-R PCS/P ecified in Clause BASE-R PCS/P up to at least 2 s changes throu	e 124	iths distrib Clause 124 appropriat	uted over 8 sing	ach up to at least 2 km le-mode fibres PDwith cense
The terr or a fibe SuggestedF Change 800GB/ m as sp to 800GB/	ype E Co ASE-DR8 n "lane" is ambigous r. Remedy ASE-R PCS/PMA ove ecified in Clause 124 ASE-R PCS/PMA ove	when discussing SMF when discussing SMF er 8-lane single-mode fil	ber PMD with rea	be either a wavelength ach up to at least 500	in lagg <i>Suggestec</i> See sl	kew numbers in ging skew spec d <i>Remedy</i> lide 10 of li_3df_ ecture and logic	Inte Comment State	<i>is</i> <b>X</b> longer rep eds to be o ion made a ted.	changed.	# 81 ogy in reality, resulting 023 "802.3df

Makes changes throughout document as appropriate with editorial lcense

Proposed Response Response Status **0** 

C/ 169 SC 169.4	P 177	L 27	# 82	C/ 173	SC 173.4.2.3	P 233	L <b>7</b>	# 83
/laki, Jeffery	Juniper Netwo	orks		Nicholl, Ga	ary	Cisco Systen	าร	
Comment Type T	Comment Status X			Comment	Type <b>T</b> Con	nment Status X		
and 20.48 ns for 800 the observed delay of delays are specified	ayer delays of 92.16 ns for 8000 OGBASE-VR8/SR8/DR8/DR8-2 of two PMA stages and the PME too small in value to be feasible dules (two PMA stages + PMD).	PMD is 112.64 n . The concern is	s, which is less than that these sublayers	173.4. "https: As caj	ultiplexing rules in this s 2.1) were updated base //www.ieee802.org/3/df/ ptued in slide 3 of ran_30 id the situation "where of	d on comment #27 ag public/23_01/0130/ra df_01b_230130 the m	gainst D1.1 and s n_3df_01b_2301 notivation of the p	supporting presentation 30.pdf". proposed change was
	es for PMA and PMD to align wi	th prevalent impl	ementation.	The c	nanges to the mutiplexin	a rules for PMA 32.8	(173 4 2 1) and I	PMA 8·32 (173 4 2 2)
Proposed Response	Response Status <b>O</b>				ve this goal.	g 10105 101 1 1017 02.0	(170.4.2.1) and 1	1117 0.02 (110.4.2.2)
				futher unnec 32:8 a	ver the change to the muthan the changes to the essary (as the situation and PMA 8:32 anyway), a nentions non-compliant.	PMA 32:8 and PMA this step is trying to a and it any may make	8:32. This addition would can be cause	onal restriction is sed by both the PMA
				PAM4 seque PAM4 requir with th refere	dditional step is the requ symbol sequence on th nce on the input lane" Th input. It is not clear that ed for the 400GbE generated description of the PAM nces the PAM4 encoding MSB/LSB aligned to PAM	e output lane is ident his means the PAM4 this would always be ration of PAM4 retime /4 Encoding describe g rules from Clause 1	ical to the Gray n output must be n the case, and is or chips. It is also d in 173.4.7.1 (v	MSB/LSB aligned to th something that is not not fully consistent which essentially
					tep is not required in ord df_01b_230130.pdf.	ler to meant the inten	t captured in slid	e 3 of
				ran_3 order to take in 173	PAM4 input is decoded t df_01b_230130.pdf, the (no rearrangement of bit e two bits at a time and e .4.7.1). There is no nee n coming from the PAM4	only rquirement is the s) to the PAM4 output encode into a PAM4 s d for the PAM4 encode	at the bit stream l it encoder. The o symbol (consister	be sent in the same utput encoder just has nt with the description
				a seria	uld also be noted that thi al bit stream (in keeping are described in a differe	with Figure 173-5), a	and the PAM4 de	
				Suggested	Remedy			
				"The <sup>2</sup> Gray r	ge from: I PCSLs received on an napped PAM4 symbol s symbol sequence on th	equence on the output	ut lane is identica	I to the Gray mapped
YPE: TR/technical requ	uired ER/editorial required GR/	neneral required	T/technical E/editorial G/o	eneral		Comm	ent ID 83	Page 18 of 2

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#### (see 173.4.7.1)."

#### to:

"The 4 PCSLs received on an input lane shall be mapped to an output lane such that the order of PCSLs is maintained from input lane to output lane, except for possible swapping of each bit pair (see 173.4.7.1)."

Proposed Response Response Status **O** 

C/ 124	SC 124.5.4	P 106	L 10	# 84
Dawe, Pier	rs	Nvidia		

Comment Type TR Comment Status X

The same modules will be capable of any of 100GBASE-DR, 400GBASE-DR4, 800GBASE-DR8, 100GBASE-FR1, 400GBASE-DR4-2, 800GBASE-DR8-2. Nominal nearlycompliance for a virtually unusable 0.2 dB on an unimportant spec would make the market more complicated and add procedural cost.

#### SuggestedRemedy

In the longer term, the average launch power (min) for 100GBASE-FR1 should be increased from -3.1 to -2.9 dBm to bring it in line with 100GBASE-DR/400GBASE-DR4. In the meantime: add a recommendation that the SIGNAL\_DETECT power criterion for 800GBASE-DR8, 400GBASE-DR4-2 and 800GBASE-DR8-2 (which is: >= average receive power, each lane (min) in Table 124-7) should be -7.1 dBm.

In practice, module implementers will set it lower than this anyway. See other comments for Tx and Rx specs, and for interoperability text.

Proposed Response Response Status O

C/ 124	SC 124.7.1	P 108	L 23	# 85
Dawe, Piers		Nvidia		

#### Comment Type **TR** Comment Status **X**

The minimum OMA for 400GBASE-DR4-2 and 800GBASE-DR8-2 is 0.7 dB higher than for 400GBASE-DR4/100GBASE-DR and 800GBASE-DR8, so setting the average launch power 0.2 dB lower is not helpful. Any transmitter with an extinction ratio lower than 9.8 dB, which is very high, will exceed the 400GBASE-DR4 limit anyway. Modules will be made multi-compliant for convenience in interoperability and breakout - let us document that.

There is a minor benefit in improving the clearance between Rx min power and Tx off max power, which should be very wide to accomodate better-than-worst receivers and intentional signal detect hysteresis.

#### SuggestedRemedy

Change Average launch power, each lane (min) from -3.1 to -2.9 dBm Change Average receive power, each lane (min) from -7.1 to -6.9 dBm. See another commen for interoperability text.

Proposed Response Response Status **O** 

C/ 124	SC 124.11a.1	P 122	L <b>21</b>	#	86
Dawe, Piers		Nvidia			

Comment Type **TR** Comment Status **X** 

We have a nuisance exception "provided that ... the 400GBASE-DR4-2 transmitter average power is greater than or equal to the value for average launch power (min) for 400GBASE-DR4 in Table 124-6" that adds procedural cost for no technical benefit.

#### SuggestedRemedy

Having made the minimum 400GBASE-DR4-2 transmitter average power the same as for 400GBASE-DR4 (see another comment), delete "and the 400GBASE-DR4-2 transmitter average power is greater than or equal to the value for average launch power (min) for 400GBASE-DR4 in Table 124-6." Similarly in 124.11a.2.

Proposed Response Response Status O

C/ 124 SC 124.12.	2 P 123	L <b>42</b>	# 87	C/ 124	SC 124.12.4	.4 P 125	L1	# 90
Dawe, Piers	Nvidia			Dawe, Pier	S	Nvidia		
Comment Type E	Comment Status X			Comment 7	Гуре Е	Comment Status X		
Missing 124.12.3 Ma	jor capabilities/options					ptical measurement metho		
SuggestedRemedy						ich we don't; we specify pa ow they might be determine		
Add major options fo	r the four PMD types					se 52, where this subclaus		
Proposed Response	Response Status O				ments", matchii rement methods	ng 52.9. But 124.8 is calle s"	d "Definition of opt	ical parameters and
				Suggested	Remedy			
C/ 124 SC 124.12.		L <b>3</b>	# 88	Change method		surement methods" to "Opt	ical parameters an	d measurement
Dawe, Piers	Nvidia Comment Status X			Proposed F	Response	Response Status O		
Comment Type E F1 Compatible with 4	100GBASE-R PCS and PMA							
uggestedRemedy				C/ 124	SC 124.12.4	.4 P 125	L <b>21</b>	# 91
Modify to include 800	)G			Dawe, Pier	s	Nvidia		
Proposed Response	Response Status 0			Comment T	Туре Е	Comment Status X		
				The sta	atus of OM9 to 0	OM12 should depend on th	e major option for	PMD type
7 124 SC 124.12.	4.3a <i>P</i> 124	L 11	# 89	Suggested	Remedy			
Dawe, Piers	Nvidia	211	# [09	Per co	mment			
Comment Type E	Comment Status X			Proposed F	Response	Response Status 0		
	us" criterion in each of these for	our tables in 124	12 4 3X will be					
adjusted to the PMD	type major options. Also, they SE-DR4-2 transmitter meets s	could be combi	ned as one table in one	C/ 124	SC 124.12.4	. P <b>125</b>	L <b>35</b>	# 92
uggestedRemedy				Dawe, Pier	s	Nvidia		
Per comment				Comment 7	Гуре Е	Comment Status X		
Proposed Response	Response Status O	Response Status <b>O</b>				OG MDIs because the IEC of the performance spec.	connector referenc	e is different to 400G,
				Suggested	Remedy			
				Per cor	mment			
				Proposed F	Response	Response Status 0		

C/ 167 SC 167.1.1 P 151 L 40 # 93	C/ 167 SC 167.10.3.4 P 165 L 1 # 95
Dawe, Piers Nvidia	Dawe, Piers Nvidia
Comment Type E Comment Status X	Comment Type TR Comment Status X
Clause 173 and then Clause 172	A dual-row 24-position connector was recommended for 100GBASE-SR10, long ago 400GBASE-SR8 has two options: a dual-row twelve-fiber interface (although differer
uggestedRemedy	positions are used) and a single-row sixteen-fiber interface. Since then, the sixteen-
Could be simplified to: Clause 173 then Clause 172	approach has become established.
Proposed Response Response Status O	With the higher bandwidth for 800GBASE-SR8 vs. 400GBASE-SR8, the advantage single-row angled connector is more important.
	SuggestedRemedy
C/         167         SC         167.8.1         P 159         L 9         # 94           Down         Disco         Nuidio         Nuidio         Nuidio	Delete Option A, the dual-row 24-position non-angled connector. Update PICS accordingly.
Dawe, Piers Nvidia Comment Type T Comment Status X	Proposed Response Response Status O
For the transmitter, we aren't talking about an optical signal but the pattern the transmitter is transmitting, which does not depend on V vs. S. It is not stated what "valid" means.	
One could assume it means the same as compliant, in which case it adds nothing. This	C/ 169 SC 169.5 P 180 L 9 # 96
table entry has become very long.	Dawe, Piers Nvidia
We can simplify: 3, 4, 5, 6, or valid 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 800GBASE-VR8,	Comment Type <b>TR</b> Comment Status <b>X</b> As discussed, the Skew and Skew Variation limits were based on a digital clock rate
We can simplify: 3, 4, 5, 6, or valid 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 800GBASE-VR8, 100GBASE-SR1, 200GBASE-SR2, 400GBASE-SR4, or 800GBASE-SR8 signal to 3, 4, 5, 6, or 100GBASE-R1, 200GBASE-R2, 400GBASE-R4 or 800GBASE-R8 signal Surprisingly, we have not used the term "800GBASE-R8" although in Section 6 we have	Comment Type TR Comment Status X As discussed, the Skew and Skew Variation limits were based on a digital clock rate slow by modern standards, and CWDM over 40 km which is not going to happen for Also they were heavily sandbagged. It is important to sort this out for 800G so that t future 200G/lane-based Ethernet is not locked into decisions made long ago for tech
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<ul> <li>We can simplify:</li> <li>3, 4, 5, 6, or valid 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 800GBASE-VR8, 100GBASE-SR1, 200GBASE-SR2, 400GBASE-SR4, or 800GBASE-SR8 signal to</li> <li>3, 4, 5, 6, or 100GBASE-R1, 200GBASE-R2, 400GBASE-R4 or 800GBASE-R8 signal Surprisingly, we have not used the term "800GBASE-R8" although in Section 6 we have 100GBASE-R10 and 100GBASE-R4. Such names will be useful for describing PMAs and AUIs, increasingly so as we work on 200G/lane in P802.3dj.</li> </ul>	Comment Type TR Comment Status X As discussed, the Skew and Skew Variation limits were based on a digital clock rate slow by modern standards, and CWDM over 40 km which is not going to happen for Also they were heavily sandbagged. It is important to sort this out for 800G so that t future 200G/lane-based Ethernet is not locked into decisions made long ago for tech
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We can simplify: 3, 4, 5, 6, or valid 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 800GBASE-VR8, 100GBASE-SR1, 200GBASE-SR2, 400GBASE-SR4, or 800GBASE-SR8 signal to 3, 4, 5, 6, or 100GBASE-R1, 200GBASE-R2, 400GBASE-R4 or 800GBASE-R8 signal Surprisingly, we have not used the term "800GBASE-R8" although in Section 6 we have 100GBASE-R10 and 100GBASE-R4. Such names will be useful for describing PMAs and AUIs, increasingly so as we work on 200G/lane in P802.3dj. <i>PuggestedRemedy</i> Change: 3, 4, 5, 6, or valid 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 800GBASE-VR8, 100GBASE-SR1, 200GBASE-SR2, 400GBASE-SR4, or 800GBASE-SR8 signal to 3, 4, 5, 6, or 100GBASE-R1, 200GBASE-R2, 400GBASE-R4, 800GBASE-SR8, signal to 3, 4, 5, 6, or 100GBASE-R1, 200GBASE-R2, 400GBASE-R4, 800GBASE-R8, signal Similarly for Average optical power. For Stressed receiver sensitivity, just delete "valid". The SRS signal is on the edge of non-	Comment Type       TR       Comment Status       X         As discussed, the Skew and Skew Variation limits were based on a digital clock rate slow by modern standards, and CWDM over 40 km which is not going to happen for Also they were heavily sandbagged. It is important to sort this out for 800G so that that doesn't apply in this case.         SuggestedRemedy       Continue the investigation, revise the numbers according to relevant technology, tak some of the padding.         Proposed Response       Response Status       0         Cl 169       SC 169.5       P 180       L 31       # 97         Dawe, Piers       Nvidia
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<ul> <li>We can simplify:</li> <li>3, 4, 5, 6, or valid 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 800GBASE-VR8, 100GBASE-SR1, 200GBASE-SR2, 400GBASE-SR4, or 800GBASE-SR8 signal to</li> <li>3, 4, 5, 6, or 100GBASE-R1, 200GBASE-R2, 400GBASE-R4 or 800GBASE-R8 signal Surprisingly, we have not used the term "800GBASE-R8" although in Section 6 we have 100GBASE-R10 and 100GBASE-R4. Such names will be useful for describing PMAs and AUIs, increasingly so as we work on 200G/lane in P802.3dj.</li> <li>SuggestedRemedy</li> <li>Change:</li> <li>3, 4, 5, 6, or valid 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 800GBASE-VR8, 100GBASE-SR1, 200GBASE-SR2, 400GBASE-SR4, or 800GBASE-SR8 signal to</li> <li>3, 4, 5, 6, or 100GBASE-SR2, 400GBASE-SR4, or 800GBASE-SR8 signal to</li> <li>3, 4, 5, 6, or 100GBASE-R1, 200GBASE-R2, 400GBASE-R4, 800GBASE-SR8 signal</li> <li>Similarly for Average optical power.</li> <li>For Stressed receiver sensitivity, just delete "valid". The SRS signal is on the edge of non-</li> </ul>	Comment Type       TR       Comment Status       X         As discussed, the Skew and Skew Variation limits were based on a digital clock rate slow by modern standards, and CWDM over 40 km which is not going to happen for Also they were heavily sandbagged. It is important to sort this out for 800G so that the future 200G/lane-based Ethernet is not locked into decisions made long ago for tech that doesn't apply in this case.         SuggestedRemedy       Continue the investigation, revise the numbers according to relevant technology, tak some of the padding.         Proposed Response       Response Status       O         Cl 169       SC 169.5       P 180       L 31       # 97         Dawe, Piers       Nvidia         Comment Type       E       Comment Status       X         Table layout       Status       X
<ul> <li>We can simplify:</li> <li>3, 4, 5, 6, or valid 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 800GBASE-VR8, 100GBASE-SR1, 200GBASE-SR2, 400GBASE-SR4, or 800GBASE-SR8 signal to</li> <li>3, 4, 5, 6, or 100GBASE-R1, 200GBASE-R2, 400GBASE-R4 or 800GBASE-R8 signal Surprisingly, we have not used the term "800GBASE-R8" although in Section 6 we have 100GBASE-R10 and 100GBASE-R4. Such names will be useful for describing PMAs and AUIs, increasingly so as we work on 200G/lane in P802.3dj.</li> <li>SuggestedRemedy</li> <li>Change:</li> <li>3, 4, 5, 6, or valid 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 800GBASE-VR8, 100GBASE-SR1, 200GBASE-VR1, 200GBASE-SR4, or 800GBASE-SR8 signal to</li> <li>3, 4, 5, 6, or 100GBASE-R1, 200GBASE-R2, 400GBASE-SR4, or 800GBASE-SR8 signal to</li> <li>3, 4, 5, 6, or 100GBASE-R1, 200GBASE-R2, 400GBASE-R4, 800GBASE-R8, signal</li> <li>Similarly for Average optical power.</li> <li>For Stressed receiver sensitivity, just delete "valid". The SRS signal is on the edge of noncompliance anyway, by definition.</li> <li>Define 100GBASE-R1, 200GBASE-R2, 400GBASE-R4, 800GBASE-R8 in the PMA</li> </ul>	Comment Type       TR       Comment Status       X         As discussed, the Skew and Skew Variation limits were based on a digital clock rate slow by modern standards, and CWDM over 40 km which is not going to happen for Also they were heavily sandbagged. It is important to sort this out for 800G so that t future 200G/lane-based Ethernet is not locked into decisions made long ago for tech that doesn't apply in this case.         SuggestedRemedy       Continue the investigation, revise the numbers according to relevant technology, tak some of the padding.         Proposed Response       Response Status       0         Cl 169       SC 169.5       P 180       L 31       # 97         Dawe, Piers       Nvidia         Comment Type       E       Comment Status       X

	.2 <i>P</i> 187	L <b>3</b>	# 98	C/ 172 SC 172.2.	3 P 206	L <b>1</b>	# 101	
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia			
Comment Type E	Comment Status X			Comment Type E	Comment Status X			
Broken variable name	e			Same topic, very sh	ort subclauses			
SuggestedRemedy				SuggestedRemedy				
Make second columr	n slightly wider				2.2.1, or remove this subheading	g and change the	e title of 172.2.2 to " 66	
Proposed Response Response Status <b>O</b>			bit blocks and the 64B/66B code" or similar.					
				Proposed Response	Response Status O			
C/ 171 SC 171.2	P <b>190</b>	L <b>46</b>	# 99	01.170 00.170.1	. / Data		" 100	
Dawe, Piers	Nvidia			C/ 173 SC 173.4.		L <b>26</b>	# 102	
Comment Type TR	Comment Status X			Dawe, Piers	Nvidia			
I don't see any the m	odification to the FEC degrade	signaling in 171	.5. It might be different	Comment Type T	Comment Status X			
to the 400GBASE-R thought we sorted thi	PCS, but here we are comparing s out last time.	ng it to the 800G	BASE-R PCS. I		tion: this must be output not gen s made clear for the receive dire		are multiple PMAs they	
SuggestedRemedy				SuggestedRemedy				
Delete "with the mod	ified FEC degrade signaling de	fined in 171.5"		Per comment				
	inou i Eo dogrado olgitaling de							
	Response Status <b>O</b>			Proposed Response	Response Status O			
Proposed Response	0 0 0	L1	# 100	Proposed Response		L <b>44</b>	# 103	
Proposed Response Cl 172 SC 172.2	Response Status O	L1	# 100			L <b>44</b>	# [103	
Proposed Response Cl 172 SC 172.2 Dawe, Piers	Response Status O	L1	# 100	C/ 172 SC 172.2.	4.1.1 P 206	L <b>44</b>	# 103	
Proposed Response Cl 172 SC 172.2 Dawe, Piers Comment Type ER	Response Status O P 205 Nvidia			Cl <b>172</b> SC <b>172.2</b> . Dawe, Piers Comment Type <b>T</b>	<b>4.1.1</b> <i>P</i> <b>206</b> Nvidia			
Proposed Response Cl 172 SC 172.2 Dawe, Piers Comment Type ER This title "Physical Co	Response Status O P 205 Nvidia Comment Status X	od as the same	as the main clause title	Cl <b>172</b> SC <b>172.2</b> . Dawe, Piers Comment Type <b>T</b>	4.1.1 P 206 Nvidia Comment Status X			
Proposed Response Cl 172 SC 172.2 Dawe, Piers Comment Type ER This title "Physical Coding Sub	Response Status O P 205 Nvidia Comment Status X oding Sublayer (PCS)" is as go	od as the same	as the main clause title	Cl <b>172</b> SC <b>172.2</b> Dawe, Piers Comment Type <b>T</b> If it's OK to combine SuggestedRemedy	4.1.1 P 206 Nvidia Comment Status X			
Proposed Response Cl 172 SC 172.2 Dawe, Piers Comment Type ER This title "Physical Co "Physical Coding Sut SuggestedRemedy Change this to "Func	Response Status O P 205 Nvidia Comment Status X oding Sublayer (PCS)" is as go	od as the same R" which can't b 172.2.1 to "Over	as the main clause title e right.	Cl <b>172</b> SC <b>172.2</b> Dawe, Piers Comment Type <b>T</b> If it's OK to combine SuggestedRemedy	4.1.1 P 206 Nvidia <i>Comment Status</i> X e criteria in the second column in			

C/ 172 SC 172.2.4.	4 P 208	L <b>7</b>	# 104	C/ 173 SC 173.4	P 229	L <b>7</b>	# 107
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia		
Comment Type ER	Comment Status X			Comment Type T	Comment Status X		
	to use. The next is split over	two pages		The grouping into t numbers are not).	wo flows of 16 lanes each is sig	nificant to the PM	A (although the lane
SuggestedRemedy	a up with the columns a g		~~	SuggestedRemedy			
Combine the two table are unique, but sub-he	e up with the ~columns, e.g. t es, adjusting the text on the pr eading rows or another column	evious page. Th	ne PCS lane numbers	Instead of one grou figures. Similarly in	up of 32 input lanes, show two g n Figure 173-4.	roups of 16, consi	istent with the PCS
used. Use the orphan rows	property to ensure the table is	not split.		Proposed Response	Response Status O		
Proposed Response	Response Status O						
				C/ 173 SC 173.4	P 231	L <b>231</b>	# 108
C/ 172 SC 172.2.4.	4 P 207	L 27	# 105	Dawe, Piers	Nvidia		
Dawe. Piers	Nvidia			Comment Type T	Comment Status X		
Comment Type ER	Comment Status X			An IC implementing	g a 8:8 PMA is likely to have sig	nal detect ability i	n both directions.
Please don't make wo	rk for your readers			SuggestedRemedy			
SuggestedRemedy	·				SIL on the Tx side, that looks at I SIGNAL primitive). Add MDI		TA_0:7.request (ther
Add an informative NO	DTE saying what is common a at is the same in 400G.	among these lane	es, what is the same for	Proposed Response	Response Status <b>O</b>	o register.	
Proposed Response	Response Status O						
C/ 172 SC 172.2.4.	4 P 207	L <b>20</b>	# 106				
Dawe. Piers	Nvidia						
Comment Type E	Comment Status X						
21	ight be better to number the la	anes 0.0 to 0.15.	1.0 to 1.15				
	0	· · · · · · · · · · · · · · · · · ·	-				
SuaaestedRemedv							
SuggestedRemedy Per comment							