C/ 1 SC 1.3 Anslow, Pete	P 22 Ciena	L 8	# 1		C/ 1 S Anslow, Pete	SC 1.4.344a	P 22 Ciena	L31	# 3	
	Comment Status D n-force standard have an em also true for other "-" separat		'Part" with no space		Comment Type IEEE Std a now 1.4.3	802.3bt-2018	Comment Status D has deleted definition 1.4.29	94, so the definit		EZ is
SuggestedRemedy					SuggestedRer	nedy				
For the IEC reference em dash with no space	being added replace " - " befo es before and after.	ore "Part", "Test"	, and "Triaxial" with	an		e editing inst definition fo	truction to: r MultiGBASE-T1 after 1.4.33	33 MultiGBASE-	T (re-numbered from	
Proposed Response	Response Status W						tion of 1.4.294 by IEEE Std 8 inition as 1.4.333a	302.3bt-2018) as	s follows:	
PROPOSED ACCEPT	P22	L 20	# 2		Proposed Res PROPOSI	<i>ponse</i> ED ACCEPT	Response Status W			
Anslow, Pete	Ciena				C/1 S	SC 1.4.495b	P 22	L38	# 4	_
Comment Type E	<i>Comment Status</i> D 8 has now been approved.			EZ	Anslow, Pete		Ciena			
SuggestedRemedy Change all occurrence throughout the draft.	s of "IEEE Std 802.3cb-201x"	to "IEEE Std 80	02.3cb-2018"		System sh	802.3bt-2018 hould be 1.4.4	Comment Status D 8 has deleted definition 1.4.29 494b	94, so the definit		ΕZ
Proposed Response PROPOSED ACCEPT	Response Status W					ing instructio	n change: "1.4.495a" to "1.4. ïnition as 1.4.494b	494a"		
Change 802.3cb-201x page 22, line 20 page 22, line 26	to 802.3cb-2018 on:				Proposed Res PROPOSI	<i>ponse</i> ED ACCEPT	Response Status W			
page 58, line 8 page 58, line 10 page 60, line 4					C/ 23 S Anslow, Pete	SC 23	P 30 Ciena	L 3	# 5	
page 60, line 19 page 60, line 44					Comment Type The "Note		Comment Status D should not be in the draft			ΕZ
					S <i>uggestedRer</i> Delete the	<i>nedy</i> "Notes for E	ditors"			
						ED ACCEPT	Response Status W IN PRINCIPLE. 30 on page 23.			

C/ 45 S	SC 45.2.1	P31	L 8	# 6	C/ 45 SC 45.2.1.185 P32 L29 # 9
Anslow, Pete		Ciena			Anslow, Pete Ciena
	f "-" between nu	<i>Comment Status</i> D mbers to indicate a range	is discouraged	<i>EZ</i> by the IEEE style guide.	Comment Type E Comment Status D E The deleted reserved row in Table 45-149 appears to have an underlined and strikethrough
	not a valid editi two ":" at the er				space between "1" and "x" and a strikethrough space missing between the two "x" characters
SuggestedRen	nedy				SuggestedRemedy
Insert new		tion to: 5-3 for registers 1.2309 to served row as shown (und			Remove the underline from the strikethrough space between "1" and "x" and add a strikethrough space between the two "x" characters
Proposed Res	Ţ.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
					C/ 45 SC 45.2.1.185.2 P32 L39 # 10
	SC 45.2.1	P 31	L17	# 7	Anslow, Pete Ciena
Anslow, Pete		Ciena			Comment Type E Comment Status D E
		<i>Comment Status</i> D 309 to 1.2316 are associated.	ted with an "Inse	EZ ert" editing instruction,	In the editing instruction "(as modified by 802.3cg)as" should be "(as modified by IEEE Std 802.3cg-201x) as" Note the missing space after the ")" character
SuggestedRen	nedy				SuggestedRemedy
Proposed Res	ponse	n the rows for registers 1.2 Response Status W	2309 to 1.2316		In the editing instruction change: "(as modified by 802.3cg)as" to: "(as modified by IEEE Std 802.3cg-201x) as"
PROPOSE	ED ACCEPT.				Proposed Response Response Status W
C/ 45 S Anslow, Pete	SC 45.2.1	P 31 Ciena	L 25	# 8	PROPOSED ACCEPT.
Comment Type	e E	Comment Status D		EZ	C/ 45 SC 45.2.1.192 P32 L45 # 11
51		313, "45.2.1.196" should be	a a cross-refere		Anslow, Pete Ciena
		315, "45.2.1.1988" has a s			Comment Type E Comment Status D E
SuggestedRen	•				In the editing instruction "Insert 45.2.1.192 and 45.2.1.196" should be "Insert 45.2.1.192 through 45.2.1.196"
		813, make "45.2.1.196" a c 815, delete the "8" at the e		88"	SuggestedRemedy
Proposed Res	ponse	Response Status W			In the editing instruction change: "Insert 45.2.1.192 and 45.2.1.196" to: "Insert 45.2.1.192 through 45.2.1.196"
PROPOSE	ED ACCEPT.				
PROPOSE	ED ACCEPT.				Proposed Response Response Status W

C/ 45 SC 45.2.1.192	P32	L 48	# 12	C/ 45 SC 45.2.1.192.3	P34	L 2	# 15
Anslow, Pete	Ciena		-	Anslow, Pete	Ciena		
Comment Type E In the text of 45.2.1.192 " control register"	Comment Status D MultiGBASE-T1 PMA regi	ster" should be "	E MultiGBASE-T1 PMA	Strange paragraph formatting at the "The default value of bit 1.2309.11 is		to be a separate	EZ e paragraph, but if so,
SuggestedRemedy				the spacing is incorrect.			
Change: "MultiGBASE-T1 PMA reg				SuggestedRemedy Fix the formatting at the top of page	34		
"MultiGBASE-T1 PMA co Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response PROPOSED ACCEPT.	Status W		
C/ 45 SC 45.2.1.192 Anslow, Pete	P 33 Ciena	L11	# 13	C/ 45 SC 45.2.1.192.4 Anslow, Pete	Р 34 Ciena	L12	# 16
			·	In the heading of 45.2.1.192.4, "(1.2 SuggestedRemedy In the heading of 45.2.1.192.4, chan	ge "(1.2309.14)" <i>Status</i> W	,	
PROPOSED ACCEPT.				This is covered by Comment #85.			
C/ 45 SC 45.2.1.192.4 Anslow, Pete	l P 33 Ciena	L 35	# 14	C/ 45 SC 45.2.1.192.4 Anslow, Pete	Р 34 Ciena	L 14	# 17
Comment Type E Notes should have parage	Comment Status D raph tag "Note" applied		E	Comment Type E Comment "149.3.2.2.19" should be a cross-ref	<i>Status</i> D erence		EZ
SuggestedRemedy Apply paragraph tag "Not	e" to the note.			SuggestedRemedy Make "149.3.2.2.19" a cross-referen	ce		
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response PROPOSED ACCEPT.	Status W		

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

Cl 45 SC 45.2.1.193 Anslow, Pete	<i>P</i> 34 Ciena	L31	# 18	C/ 45 SC 45.2.1.196.1 P37 L48 # 22 Anslow, Pete Ciena
Comment Type E	Comment Status D GBASE-T1 OAM Ability" sh	nould not have a d	<i>EZ</i> capital A in Ability	Comment Type E Comment Status D E2 In the heading of 45.2.1.196.1, "(1.2315.15:13)" should be "(1.2313.15:13)"
SuggestedRemedy Change to "MultiGBASE	E-T1 OAM ability" as per the	e heading of 45.2	1.193.1	SuggestedRemedy In the heading of 45.2.1.196.1, change "(1.2315.15:13)" to "(1.2313.15:13)"
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
C/ 45 SC 45.2.1.193 Anslow, Pete	3.4 <i>P</i> 35 Ciena	L 23	# 19	C/ 45 SC 45.2.1.196.1 P 38 L 5 # 23 Anslow, Pete Ciena Ci
Comment Type E "either bit 1.2318.11 or b	Comment Status D bit 1.0.11" should be "either	bit 1.2309.11 or	<i>Editorial</i> bit 1.0.11"	Comment Type T Comment Status D Registers In Table 45-155e, the Test mode control bits should be R/W Registers Registers
SuggestedRemedy Change "1.2318.11" to "	'1.2309.11"			SuggestedRemedy Change the entry in the R/W column to "R/W" and also change footnote a to "RO = Read
Proposed Response PROPOSED ACCEPT.	Response Status W			only, R/W = Read/Write" Proposed Response Response Status W PROPOSED ACCEPT.
C/ 45 SC 45.2.1.194 Anslow, Pete	P 35 Ciena	L 48	# 20	C/ 45 SC 45.2.1.197 P38 L21 # 24
Comment Type E Double full stop ""	Comment Status D		EZ	Anslow, Pete Ciena Comment Type E Comment Status D E2
SuggestedRemedy Delete one "."				IEEE uses an en-dash as a minus sign and also it should not be on a different line from the number. SuggestedRemedy
Proposed Response PROPOSED ACCEPT.	Response Status W			Since this draft appears to be written using FrameMaker version 12, this can be fixed by changing the minus sign to an en-dash (Ctrl-q Shft-p) and ensuring that under Format, Document, Text Options, en-dash does not appear in the Allow Line Breaks After list.
C/ 45 SC 45.2.1.195 Anslow, Pete	5 P36 Ciena	L 45	# 21	Proposed Response Response Status W PROPOSED ACCEPT.
Comment Type E Double full stop ""	Comment Status D		EZ	
SuggestedRemedy Delete one "."				
Proposed Response	Response Status W			

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

Anslow, Pete	Р 38 Ciena	L 28	# 25	C/ 45 SC 45.2.3 Anslow, Pete	Р 39 Ciena	L 9	# 28
IEEE uses an en-dash as a n	<i>mment Status</i> D ninus sign		EZ		Comment Status D 8 has an error in Table 45-176 ing modified by the P802.3ch dr		
SuggestedRemedy	an deels (Otal a Obft a		n line 07	SuggestedRemedy	с ,		
	ponse Status W) here and also o		In the first row of Ta underline, "08"	ble 45-176 change "3.3208" to	"3.", "32" in strike	ethrough, "23" in
PROPOSED ACCEPT.				Proposed Response	Response Status W		
C/ 45 SC 45.2.1.199 Anslow, Pete	P 38 Ciena	L 32	# 26	PROPOSED ACCE Make the change in OAM transmit.	PT IN PRINCIPLE. the first row being modified by	802.3ch. This is	the row for BASE-T1
Comment Type E Co it is preferable to use "Rx" rat	<i>mment Status</i> D her than "RX" to be ar	abbreviation of ı	EZ	C/ 45 SC 45.2.3 Anslow, Pete	<i>Р</i> 39 Ciena	L14	# 29
SuggestedRemedy Change "RX" to "Rx" in 3 plac Table 45-3	· ·	uding the title) to	align with the name in	Comment Type E The subclause colur 45.2.3.80 in the inse	Comment Status D mn of Table 45-176 is missing o erted rows	cross-references	EZ to 45.2.3.76 through
	ponse Status W			SuggestedRemedy			
PROPOSED ACCEPT.			# 27	SuggestedRemedy	umn of Table 45-176 add unde	rlined cross-refer	rences to 45.2.3.76
PROPOSED ACCEPT.	P38	L44	# 27	SuggestedRemedy In the subclause col	umn of Table 45-176 add unde	rlined cross-refer	rences to 45.2.3.76
PROPOSED ACCEPT. Cl 45 SC 45.2.3 Anslow, Pete	P 38 Ciena	L 44		SuggestedRemedy In the subclause col through 45.2.3.80 in	umn of Table 45-176 add unde the inserted rows <i>Response Status</i> W	rlined cross-refer	rences to 45.2.3.76
PROPOSED ACCEPT. C/ 45 SC 45.2.3 Anslow, Pete	P 38 Ciena <i>mment Status</i> D ers to indicate a range nstruction		EZ	SuggestedRemedy In the subclause col through 45.2.3.80 in Proposed Response	umn of Table 45-176 add unde the inserted rows <i>Response Status</i> W PT.	rlined cross-refer	# <u>30</u>
PROPOSED ACCEPT. <i>Cl</i> 45 <i>SC</i> 45.2.3 Anslow, Pete <i>Comment Type</i> E <i>Co</i> The use of "-" between numb "adjust" is not a valid editing	P 38 Ciena <i>mment Status</i> D ers to indicate a range nstruction		EZ	SuggestedRemedy In the subclause col through 45.2.3.80 in Proposed Response PROPOSED ACCE Cl 45 SC 45.2.3	umn of Table 45-176 add unde the inserted rows <i>Response Status</i> W PT. <i>P</i> 39		
PROPOSED ACCEPT. <i>Cl</i> 45 <i>SC</i> 45.2.3 Anslow, Pete <i>Comment Type</i> E <i>Co</i> The use of "-" between numb "adjust" is not a valid editing The inserted rows are 1.2318	P38 Ciena mment Status D ers to indicate a range nstruction to 1.2324	e is discouraged b	EZ by the IEEE style guide.	SuggestedRemedy In the subclause col through 45.2.3.80 in Proposed Response PROPOSED ACCE CI 45 SC 45.2.3 Anslow, Pete Comment Type E	lumn of Table 45-176 add unde the inserted rows <i>Response Status</i> W PT. <i>P</i> 39 Ciena <i>Comment Status</i> D 8 through 3.32767" in Table 45-	L 20	# <u>30</u> EZ
PROPOSED ACCEPT. <i>CI</i> 45 <i>SC</i> 45.2.3 Anslow, Pete <i>Comment Type</i> E <i>Co</i> The use of "-" between numb "adjust" is not a valid editing The inserted rows are 1.2318 <i>SuggestedRemedy</i> In the editing instruction, chan "adjust" to "change the"	P38 Ciena mment Status D ers to indicate a range nstruction to 1.2324	e is discouraged b	EZ by the IEEE style guide.	SuggestedRemedy In the subclause col through 45.2.3.80 in Proposed Response PROPOSED ACCE Cl 45 SC 45.2.3 Anslow, Pete Comment Type E The entry for "3.231 "3.2325 through 3.3 SuggestedRemedy	lumn of Table 45-176 add unde the inserted rows <i>Response Status</i> W PT. <i>P</i> 39 Ciena <i>Comment Status</i> D 8 through 3.32767" in Table 45-	L 20 -176 should be sl	# <u>30</u> EZ

C/ 45 Anslow, Pete	SC 45.2.3	Р 39 Сіепа	L 21	# 31	C/ 45 Anslov		45.2.3.73	P 41 Ciena	L 6	# 33	
		Comment Status D ays "unchanged rows not sh	own" so the last	row of Table 45-176	6 "co	ent Type ontained ir 319"	E n registers 3	Comment Status D 3.2328 and 3.2329" should be	"contained in	registers 3.2318 a	OAM and
SuggestedRe Replace	emedy the last row wit	h ""			00	s <i>tedReme</i> ange "3.2		2329" to "3.2318 and 3.2319"			
Proposed Re PROPOS	sponse SED ACCEPT.	Response Status W			PF	<i>ed Respo</i> OPOSED e Comme	ACCEPT I	Response Status W N PRINCIPLE.			
Cl 45 Anslow, Pete	SC 45.2.3	Р 39 Сіепа	L10	# 32	C/ 45 Anslov		45.2.3.76	P 43 Ciena	L31	# 34	
through 3 In table 4 In 45.2.3 In 45.2.3 before "ro In Table 9 SuggestedRe	8.2317, 3.2318 95-176, these r 73 and 45.2.3 76 and 45.2.3 egister") and n 97-6 "<0:7>" of	ent regarding the names of re through 3.2319, and 3.2320 egisters have had "<0:7>" or 75 the register names do noi 77 "<8:11>" appears in the ir of at all for the other places the "<8:11>" is missing from the	through 3.2321. "<8:11>" added : include "<0:7>' ncorrect place in ne register name	to the name. the title (should be	In Sugge Inc co Propos	stedReme rease the umn to re ed Respo	244a, the "N dy width of the move the lii	Comment Status D Name" column has unnecessa e "Name" column and decreas ne wraps Response Status W			EZ
or:	III instances of t.	<0:7>" and "<8:11>" as they each register name to includ Response Status W		,	Comm	, Pete ent Type	45.2.3.77 E E-T1" should	P 43 Ciena <i>Comment Status</i> D d not split across two lines	L 47	# 35	EZ
, PROPOS Remove	, SED ACCEPT	IN PRINCIPLE. f <0:7> and <8:11>.			Re Propos	ed Respo	hyphen with	n a non-breaking hyphen [Esc Response Status W	- h (three key	/ presses)]	

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

C/ 45 SC 45.2.3.78.1 Anslow, Pete	Р 44 Ciena	L 47	# 36		Cl 45 SC 45.2.9. Anslow, Pete	3.2 <i>P</i> 48 Ciena	L 50	# 39
Comment Type E Notes should have parag SuggestedRemedy Apply paragraph tag "No				EZ	Space missing befor SuggestedRemedy	,		EZ
Proposed Response PROPOSED ACCEPT.	Response Status W				Change "Change Se Proposed Response PROPOSED ACCEF	ction 45.2.9.3.2(as…" to "Chai Response Status W PT.	nge 45.2.9.3.2 (as	5"
C/ 45 SC 45.2.3.80.2 Anslow, Pete Comment Type E	P 47 Ciena Comment Status D	L 23	# 37	EZ	C/ 78 SC 78.3 Anslow, Pete	Р 51 Ciena	L17	# 40
IEEE uses an en-dash a SuggestedRemedy Change the minus sign t Proposed Response) here and also o	n line 24	LZ	Comment Type E IEEE does not use th Space missing befor SuggestedRemedy Delete "section" here	,	tructions.	EZ
PROPOSED ACCEPT.	P48	L35	# 38		Proposed Response PROPOSED ACCEF	Response Status W PT.		
Anslow, Pete Comment Type E	Ciena Comment Status D			EZ	C/ 149 SC 149.9 .1 Fritsche, Matthias	I P 144 HARTING Te	L 5 echnology	# 41
Space missing before "(" SuggestedRemedy	erm "section" in editing instr n 45.2.9.2.7(as" to "Chan Response Status W		5"		Comment Type E IEC 60950-1 is repla SuggestedRemedy Change "IEC 60950- Proposed Response PROPOSED ACCEF	1" to "IEC 62368-1 (former IEC Response Status W	C 60950-1)"	Editorial

Proposed Response

PROPOSED ACCEPT.

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

<i>Cl</i> 149 Tu, Mike	SC 149.1.3	P 65 Broadcom	L11	# 42	<i>Cl</i> 149 Tu, Mike	SC 149.3.2.2	17 P89 Broadcom	L 31	# 45
Comment 7 Insert a	51	Comment Status D onal block diagram", similar	to Figure 97-2	<i>Overview</i> and Figure 126-3.	Comment In Figu	51	Comment Status D indices of the input and ou	utput sequences a	Interleave are incorrect.
figures. 2. On p	ot page 2 of "tu_3o	ch_01_0119.pdf" as Figure ´ dd one sentence at the end am."	·		Chang To: "m	S Encoder #L" in e from: "m_{326 _{325xL}, m_{32	, kL}, m_{325xL},, m_L" 4xL},, m_0".		
Proposed F PROP	Response OSED ACCEPT.	Response Status W			Chang	S Encoder #L" or e from: "m_{326) _{325xL}, m_{32	utput, ‹L}, m_{325xL}, …, m_L, p 4xL}, …, m_0, p_{L,33}, …	_{L,33},, p_{L,0 , p_{L,0}")}"
<i>Cl</i> 149 Tu, Mike	SC 149.1.3	P 64 Broadcom	L1	# 43	Proposed I PROP	Response OSED ACCEPT.	Response Status W		
Comment 7 Interlea	51	Comment Status D led to achieve target BER p	erformance	Interleave	<i>Cl</i> 149 Tu, Mike	SC 149.1.4	P 67 Broadcom	L 20	# 46
PAM4 to: "e	each group of 5 " ach group of 50 64	0 64B/65B blocks. The PAN 4B/65B blocks, plus optiona leaver, and PAM4"			Suggested	upport is optional Remedy	Comment Status D	ert signaling during	Overview g LPI operation."
Proposed F PROP(Response DSED ACCEPT.	Response Status W			To: "i) Proposed I		y to support refresh, quiet a Response Status W	and alert signaling	during LPI operation."
<i>CI</i> 149 Tu, Mike	SC 149.1.3.1	Р 65 Broadcom	L 25	# 44	PROP C/ 149	OSED ACCEPT.		L1	# 47
Comment 7		Comment Status D entioned here as well.		Interleave	Tu, Mike		Broadcom	L1	
Suggestedl Change	R <i>emedy</i> e from: "Next, a 10	-bit OAM field is appended appended to create a 3600			Suggested	is no SEND_I (si Remedy	Comment Status D milar to Clause 55 and Cla s descriptions on line 1 and	,	PMA
blocks 326, 2^	are formed into a 10) and the round	ield is appended to form a 3 RS-FEC input superframe, t -robin interleaving as descri sts of L x 3600 bits (duration	hen encoded b bed in 149.3.2.2	y the RS-FEC (360, 2.17. The RS-FEC		OSED ACCEPT	Response Status W IN PRINCIPLE. ext on page 128, lines 34&	35 and on pae 13	6, line 36.

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

Response Status W

PROPOSED ACCEPT.

C/ 149 SC 149 Tu, Mike	9.3.2 P77 Broadcom	L 4	# 48	C/ 149 SC 149.3.2.2.16 Tu, Mike	P 86 Broadcom	L12	# 51
1. OAM is not sh 2. link status is i	S reference diagram need to be r own in the figure	evised:	PCS	Comment Type TR Comme Wrong indices in Equation 149-3 SuggestedRemedy Delete "g6", and change "g5" to "g	a33"		PCS
4. tx_symb_vectors SuggestedRemedy	"tu_3ch_01_0119.pdf" as Figure <i>Response Status</i> W	149-3.			se Status W		
PROPOSED AC	CEPT.			C/ 149 SC 149.3.2.2.16 Tu, Mike	P 86 Broadcom	L 22	# 52
Cl 149 SC 149 Tu, Mike	9.3.2.2 P79 Broadcom	L1	# 49	Comment Type TR Comme Wrong indices in Equation 149-4	ent Status D		PCS
	R Comment Status D eaving depthes depend on the PH	Y speed.	Interleave	SuggestedRemedy Change from: " + m1 x^36 + m0) x^35"		
To: " and the p	the possible choices of L are 1, 2 possible choices of L are: 1 for 2.5			To " + m1 x^35 + m0 x^34".	se Status W		
Proposed Response PROPOSED AC	BASE-T1, which …" <i>Response Status</i> W CEPT IN PRINCIPLE. Remedy and remove highlighting].		C/ 149 SC 149.3.2.2.16 Tu, Mike Comment Type ER Comme	P86 Broadcom ent Status D	L 32	# <u>53</u> Editorial
Tu, Mike	D.2.2.3.1 P71 Broadcom R Comment Status D	L46	# <u>50</u> PMA	I think the corrrect name is "tx_oa SuggestedRemedy Change from "Link partner access	_ s field<9:0>" to "tx_c	pam_field<9:0>".	
97, tx_symb is P SuggestedRemedy	hould have values of {-1, -1/3, 1/3 AM3 and it has values of {-1, 0, 1 , 3} to {-1, -1/3, 1/3, 1}.	3, 1} per 149.3.2.2. }.	.20. Also, see Clause	Proposed Response Respon PROPOSED ACCEPT.	se Status W		
Proposed Response	Response Status W						

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

C/ 149 SC 149.3.2.3 Tu, Mike	.1 P92 Broadcom	L 27	# 54	<i>Cl</i> 149 Tu, Mike	SC 149.3.4.2	2 P94 Broadcom	L 9	# 57
Comment Type TR Use 97.3.2.3.1 as bas	Comment Status D		PCS		ing to Motion #4	Comment Status D Passed in Bangkok, PAM2		
PMA_UNITDATĂ.indic to rx_PAM4_1799 (see	e data mode, the receiving l ation primitive by concatena Figure 149-5). It obtains bl	ating requests in c ock lock to the PH	rder from rx_PAM4_0 IY frames during the	Suggested Need a Option	Remedy advices from cha	Sn = 0 then Tn = +1, if Sn = ²		
PAM2 training pattern Proposed Response PROPOSED ACCEPT	using synchronization bits p <i>Response Status</i> W	rovided in the trai	ning sequence.	,	#2: Keep the cu	rrent text as is, if the TF agr Response Status W	ee to define PAI	M2 mapping.
Cl 149 SC 149.3.4.4 Tu, Mike Comment Type TR Need to determine the	P93 Broadcom <i>Comment Status</i> D number of partial frames.	L43	# <u>55</u> Partial Frame	PROP Motion training has "if Nov. M	DSED ACCEPT #7 from Sept, 2 side-stream so Sn = 0 then Tn lotion #4 mentio	IN PRINCIPLE. 2018 "Move to adopt PAM2 a: rambler polynomials from 97 = +1, if Sn = 1 then Tn = -1 " ns the generator polynomials AM2 mapping, which is differe	3.4 (same as C so this is the m and the genera	Clause 55)". 97.3.4.2 apping we should use. ator functions, but
SuggestedRemedy Adopt recommended of Proposed Response PROPOSED ACCEPT	hanges as shown on page Response Status W	4 of "tu_3ch_01_0	119.pdf".	C/ 149 Tu, Mike <i>Comment T</i> S n is	SC 149.3.4.4	Broadcom Comment Status D	L19	# <u>58</u> Editoria
C/ 149 SC 149.3.4.4 Tu, Mike Comment Type TR Equation 149-8 is inco	Broadcom Comment Status D	L2	# <u>56</u> Partial Frame	Proposed F	this line	Response Status W		
SuggestedRemedy Adopt recommended o Proposed Response PROPOSED ACCEPT	hanges as shown on page Response Status W	4 of "tu_3ch_01_0	119.pdf".	Suggested	already defined Remedy this line	Broadcom Comment Status D	L21	# <u>59</u> Editoria

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

<i>CI</i> 149 SC Tu, Mike	6 149.4.2.4	P 118 Broadcom	L 14	# 60	<i>Cl</i> 149 Tu, Mike	SC 149.4.2.4	4.5 P120 Broadcom	L 42	# 62
Comment Type	TR	Comment Status D		PHY Control	Comment T	ype TR	Comment Status D	Con	trol, Interleave, Precode
Subclause 1	49.4.2.4, 149.	2.4.1 to 149.4.2.4 have mi	ssing contents,	or require revisions.			ghlight on line 42		
SuggestedReme	edy						terleaverDepth and PrecodeS	Sel	
		3ch_01_0119.pdf" as base	line. Insert the	figures and tables as	SuggestedF				
	that document				Change	this paragraph	n and then add two more para	ipraphes.	
Proposed Respo	-	Response Status W			EEEen		pability shall be enabled only i nal 1000BASE-T1 OAM capal AMen = 1.		
C/ 149 SC	149.4.2.4.5	P 120	L38	# 61					
Tu, Mike		Broadcom					ates the requested data mode indicate interleaving depth L		
Comment Type	ER	Comment Status D		PHY Control	Oct10<	2:1> = 01 and	10 shall indicate interleaving of	depth of 2 and 4,	, respectively. The only
	editorial highlig						SE-T1 is 00. The valid values		
		hange seed values anymo Irable register bits.	re.				SE-T1 are 00, 01, and 10. The aving depth as requested by		
SuggestedReme	-								
	paragraph to:						the requested data mode precess, or no precoder. The value		
0					indicate	precoder choi	ce of 1-D, 1+D, and 1-D^2, re	spectively, as in	dicated in 149.3.2.2.19.
		ING state, the minwait_tim			The PH partner.		hall be able to support the se	lected precoder	as indicated by the link
		T sending PAM2 together sends the PHY capability b		The PHY Control also	Proposed R		Response Status W		
Proposed Respo		Response Status W					IN PRINCIPLE.		
PROPOSED							optional EEE capability shall	be enabled only	if both PHYs set the
					capabili	ty bit EEEen =	1. The optional BASE-T1 OA		
							ability bit OAMen = 1." n Comment #91 and refer to :	14932217	
							for Selectable precoder detail		
					C/ 149	SC 149.4.2.	5 <i>P</i> 120	L 45	# 63
					Tu, Mike		Broadcom		
					Comment T Remove		<i>Comment Status</i> D ighlighs in this paragraphs.		PHY Contro
					SuggestedF Remove		ighlighs in this paragraphs.		
					Proposed R		Response Status W		

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

C/ 149 SC Tu, Mike	149.4.2.5	P 120 Broadcom	L 51	# 64	C/ 149 Tu, Mike	SC 149.4.2.	5 P121 Broadco	L 13 m	# 67
	uld be aligned to I	nment Status D RS super-frame bound			Comment There	51	Comment Status D E1 state. There is also	no SEND_I for tx_m	PHY Control node.
and 5G. SuggestedRemed Change: " i To: " its tra	dy its transmit TBD-l nsmit 65B-RS FE	_0119.pdf" page 4, the RS frame to within +0/- C super frame to with s in this paragraph.	-1"	uld be relaxed for 10G	"Upon TX_SV =SENI Proposed I	e this paragraph reaching DataS VITCH state and D_N."	wPFC24 partial PHY fra I forces transmission int Response Status	o the data mode by	
Proposed Respor PROPOSED See tu_3ch_(ACCEPT IN PRI	oonse Status W NCIPLE.			<i>Cl</i> 149 Tu, Mike	SC 149.4.2.5		L 16	# 68
<i>Cl</i> 149 <i>SC</i> Tu, Mike	149.4.2.5	P 121 Broadcom	L1	# 65	Comment T PAM3	51	Comment Status D M4". Also the state nam	e should be PCS_T	PHY Control EST.
SuggestedRemed	orial highlights dy orial highlights for nse Resp	nment Status D the first two paragrap bonse Status W	hes	PHY Control	"Once PCS_1 Proposed I PROP	e this paragraph the link partner EST state and Response OSED ACCEPT	has transitioned from P/ starts the minwait_timer <i>Response Status</i> N	." /	Control transitions to the
C/ 149 SC Tu, Mike	149.4.2.5	P 121 Broadcom	L11	# 66	<i>Cl</i> 149 Tu, Mike	SC 149.3.6	P 96 Broadco	L 13 m	# 69
SuggestedRemed	ransmits PAM4, n dy ditorial highlights nd of sentence: ". nse Resp		2 to PAM3." to "	PHY Control	Suggested Copy f 1. Rep 2. Dele 3. Dele 4. Rep 5. Rep Proposed I PROPu Copy a	use 149.3.6 ha Remedy rom 126.3.6 as lace all "LDPC" ete "tx_active_pa te "ldpc_two_fra lace "rx_symb_ lace "tx_symb_ Response OSED ACCEPT	air" and associated contr ame_done" and associa vector" with "rx_symb" vector" with "tx_symb" <i>Response Status</i> TIN PRINCIPLE. cluding all subsections a	ents ed contents	PCS and make the changes

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

Comment Type E				Wienckowski, Natalie	General Motors		
"Annex 149-4" link to Figu	Comment Status D ure 149-4 doesn't belong.		EZ	Comment Type T C Update registers based on (Comment Status D Clause 45!		Registers
SuggestedRemedy Delete "Annex 149-4".				SuggestedRemedy Registers were added in Cla See presentation with detail		updated thro	ughout the document.
Proposed Response PROPOSED ACCEPT.	Response Status W				esponse Status W		
C/ 149 SC 149.3.2.2 Wienckowski, Natalie	P 79 General Motors	L 1	# 71	Implement changes specifie	ed in wienckowski_3ch_01_0	0119 L 54	# 75
Comment Type T	Comment Status D		Interleave	Wienckowski, Natalie	General Motors	L 3 4	# 15
Agreed the only inerleave SuggestedRemedy	ers to be used are 1, 2 and 4.			Comment Type T C Add definition for "REC Clea	Comment Status D ared" in OAM<10><0>		OAM
Remove highlight and cha	ange text to "1, 2 and 4".			SuggestedRemedy			
	Response Status W			See presentation.			
PROPOSED ACCEPT IN See comment #49.	I PRINCIPLE.			PROPOSED ACCEPT IN P			
C/ 149 SC 149.3.4.4	P 94 General Motors	L19	# 72	Implement changes specifie	ed in wienckowski_3ch_02_0	0119.	
Nienckowski, Natalie Comment Type E	Comment Status D		Editorial	C/ 149 SC 149.3.8.2.12	P102	L 51	# 76
This is in section 149.3.4.			Lutona	Wienckowski, Natalie Comment Type E C	General Motors		EZ
SuggestedRemedy				Need tab in front of OAM<1		rectly.	
Delete section 149.3.4.4.				SuggestedRemedy	-		
	Response Status W			Add tab.			
PROPOSED ACCEPT.					esponse Status W		
C/ 149 SC 149.3.4.5 Wienckowski, Natalie	P 94 General Motors	L 21	# 73	PROPOSED ACCEPT.			
Comment Type E This is in section 149.3.4.	Comment Status D .2.		Eeditorial				
SuggestedRemedy Delete section 149.3.4.5.							
Proposed Response PROPOSED ACCEPT.	Response Status W						

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

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

Cl 149 SC 149.4.5 Wienckowski, Natalie	P 129 General Motors	L7	# 77		C/ 44 Wienckow	SC 44.1.4.4 /ski, Natalie	P 29 General Moto	L 26 ors	# 81
Comment Type E Remove Editor's note as	Comment Status D it no longer applies.			EZ	Comment Incorr	51	Comment Status D pottom of 10GBASE-CX4/68	cell.	E.
SuggestedRemedy Remove box around note	and all contents.				Suggestee Fix lin	,	the rest of the table.		
Proposed Response PROPOSED ACCEPT.	Response Status W				'	Response POSED ACCEPT.	Response Status W		
<i>Cl</i> 149 SC 149.7 Wienckowski, Natalie	P 138 General Motors	L7	# 78		C/ 45 Wienckow	SC 45.2.1.19 vski, Natalie	2.3 P 34 General Moto	L 5 ors	# 82
Comment Type E Remove Editor's note as SuggestedRemedy	Comment Status D it no longer applies.			EZ		eve this is the star	Comment Status D Idard statement; however, 80 operation on exit from reset		
Remove box around note	and all contents. Response Status W				may t mode	ge: The data path ake many second	n of the MultiGBASE-T1 PMA s to run at optimum error rat ne MultiGBASE-T1 PMA, der	tio after exiting fr	om reset or low-power
C/ 149 SC 149.3.8.2.12 Wienckowski, Natalie	General Motors	L 2	# 79		take נ Proposed		un at optimum error ratio afte Response Status W		
Comment Type E Typo	Comment Status D		Edi	itorial	C/ 125	SC 125.1.2	P 59	L 49	# 83
SuggestedRemedy						/ski, Natalie	General Moto		
Change "the number erro Proposed Response PROPOSED ACCEPT.	r RS-FEC block errors" to "the Response Status W	number of RS	-FEC block errors	5".		<i>Type</i> E e title was not upd d <i>Remedy</i>	Comment Status D ated properly.		Editoria
<i>Cl</i> intro <i>SC</i> intro Wienckowski, Natalie	P 21 General Motors	L 27	# 80		Remo	ove " - Part 1 of 2" <i>Response</i>	Response Status W		
Comment Type E Typo	Comment Status D			EZ	PROF	POSED ACCEPT.			
SuggestedRemedy Change "2018comprehns	ive" to "comprehensive" to ma	itch template.							
Proposed Response PROPOSED ACCEPT.	Response Status W								

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

C/ 45 SC 45.2.1 Lo, William	P 31 Axonne Inc.	L 29	# 84		<i>Cl</i> 45 Lo, William	SC 45.2.3.74		P 42 Axonne Inc.	L 20	# 86
Comment Type E Co 45.2.1.1988 should be 45.2. SuggestedRemedy See comment	comment Status D 1.198			EZ	The par The nev	nment affects 4 agraph from 10	00BASE-T1 in s not correct as	45.2.3.77 45.2.3.74.1 a s registers 3.2	lso applies to M 320 to 3.2321 a sess.	
Proposed Response Re PROPOSED ACCEPT. 	P 34 Axonne Inc.	L12	# <u>85</u>		MultiGB 45.2.3.7	4.1: for 1000BASE- ASE-T1 PHYs	T1 and shall se	elf-clear when	register 3.2321	is read for
,	comment Status D		Pro	coder	Delete: For Mult	IGBASE-T1 PH	IYs_register 3	2313 15 shall	be cleared whe	n register 3.2321 is rea
1.2311.3:2 - Precoder setting		its				SED ACCEPT.				
1.2312.3:2 - Precoder setting The description in 1.2304.10 and may cause confusion.).9 captures some fuction		3:2 which is redund	lant						
The description in 1.2304.10 and may cause confusion. There is also a wrong registe).9 captures some fuction		3:2 which is redund	lant						
The description in 1.2304.10 and may cause confusion. There is also a wrong registe SuggestedRemedy Page 33, line 16 1) Change Transmit Precode 2) Replace the entire paragra Bits 1.2309.10:9 control the 149.3.2.2.19 in the variable p During normal operation, the 3) 45.2.1.195.2 - delete: In normal operation, this valu register bits 1.2309.10:9	D.9 captures some fuction er reference. er setting to: Test mode 3 aph in 45.2.1.192.4 to current precoder setting c precoder_type during test ese bits are ignored. ue shall mirrorthe value in	Transmit Prece f the transmitte mode 3 (regist the MultiGBAS	oder setting r, as defined in er 1.2313.15:13 = 3 E-T1 PMA control	3).						
The description in 1.2304.10 and may cause confusion. There is also a wrong registe SuggestedRemedy Page 33, line 16 1) Change Transmit Precode 2) Replace the entire paragra Bits 1.2309.10:9 control the 149.3.2.2.19 in the variable p During normal operation, the 3) 45.2.1.195.2 - delete: In normal operation, this valu register bits 1.2309.10:9 4) Change 45.2.1.192.4 title	D.9 captures some fuction er reference. er setting to: Test mode 3 aph in 45.2.1.192.4 to current precoder setting c precoder_type during test ese bits are ignored. ue shall mirrorthe value in	Transmit Prece f the transmitte mode 3 (regist the MultiGBAS	oder setting r, as defined in er 1.2313.15:13 = 3 E-T1 PMA control	3).						

C/ 45 SC 45.2.3.73 Lo, William	P 41 Axonne Inc.	L1	# 87	<i>Cl</i> 149 Lo, William	SC 149.2.2.1.	1 P70 Axonne Inc.	L1	# 89
This comment affects 45.2.3. OAM messaging only applies updated independent of the h and I think there is a better w T1. SuggestedRemedy 45.2.3.73:	to the first 8 octets. Th andshake mechanism.	e remaining 4 oc To the text is teo	chnically not correct,	SuggestedF Delete Proposed R PROPC	149-20 no longer Remedy he description o	n SEND_I Response Status W		PM.
Delete: For 1000BASE-T1, this is the remaining 4 octets are contai			-T1, the	<i>Cl</i> 149 Lo, William	SC 149.3.2.2	P 78 Axonne Inc.	L 25	# 90
45.2.3.75: Delete: For 1000BASE-T1, this is the octets are contained in regist 45.2.3.76: Add sentence at the end: 1000BASE-T1 does not imple 45.2.3.77: Add sentence at the end: 1000BASE-T1 does not imple	ers 3.2320 and 3.2321. ement these registers.	t for MultiGBASE	-T1, the remaining 4	Suggestedf change 1 / (5.6 Proposed R	n has rounding e Remedy 177.8 / S ps to 25 x S) ps	Comment Status D error. Response Status W		PC
Proposed Response Res PROPOSED ACCEPT.	sponse Status W							
C/ 149 SC 149.2 Lo, William	P 68 Axonne Inc.	L11	# 88					
Comment Type E Co Incorrect reference	omment Status D		Editorial					
<i>SuggestedRemedy</i> Clause 28 should be 98.4								
Proposed Response Res PROPOSED ACCEPT.	sponse Status W							

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

CI 45 SC 45.2.1.194 P 36 L 5 Lo, William Axonne Inc.	# 91	<i>Cl</i> 45 Lo, William	SC 45.2.1. ′	95.2	P 37 Axonne Inc.	L 24	# 93
Comment Type T Comment Status D This comment applies to 45.2.1.194 and 45.2.1.195 We defined RS interleaving but have not assigned registers to them.	Interleave	Comment Gramr Suggested	nar is a bit con		ent Status D		Editori
SuggestedRemedy Assign to repsective tables 1.2311.12:11 - Interleave Requested		Replac	ce first sentenc 2312.3:2 conta	ins the prec	coder setting request	ted by the link p	partner.
1.2312.12:11 - Link partner interleave Requested For both registers 00 = L=4 for 10GBASE-T1, L=2 for 5GBASE-T1 (Reserved for 2.5GBAS		PROP	OSED ACCEP	,			
01 = L=2 for 10GBASE-T1, L=1 for 5GBASE-T1 (Reserved for 2.5GBAS 10 = L=1 for 10GBASE-T1 (Reserved for 5GBASE-T1 and 2.5GBASE-T 11 = Reserved		<i>Cl</i> 149 Lo, William	SC 149.3.2	.2.4	P 80 Axonne Inc.	L13	# 94
45.2.1.194.x Interleave Requested (1.2311.12:11) Bits 1.2311.12:11 control the Reed Solomon interleave setting requested described in 149.3.2.2.17. This is communicated to the link partner via	d by the PHY as		<i>Type</i> T ce TBD in Figu pplies to Figure	re 149-4	eent Status D		Editori
Infofields as specified in 149.4.2.4.3. 45.2.1.195.x Link partner Interleave Requested (1.2312.12:11)			<i>Remedy</i> should be 149-6 and Tal	ble 149-1			
Bits 1.2312.12:11 contains the Reed Solomon interleave setting request partneras described in 149.3.2.2.17. This is communicated by the link pa Infofields as specified in 149.4.2.4.3.		Proposed		Respor	nse Status W		
Proposed Response Response Status W		C/ 149	SC 149.3.2	2 14	P84	L 54	# 95
PROPOSED ACCEPT IN PRINCIPLE. x will be 1 and all other subclauses of 45.2.1.194 and 45.2.1.195 will be i		Lo, William		2.17	Axonne Inc.	204	# 33
In addition to the proposed text in the Suggested Remedy, add the follow in 45.2.1.194.1 45.2.1.195.1: Note, these bits are unused for 2.5GBASE 2.5GBASE-T11.2311.12:11 shall be set to 00. and 45.2.1.195.1: Note, these bits are unused for 2.5GBASE-T1. For 2	E-T1. For		escription and I	igure 149-7	e <i>nt Status</i> D 7 is a bit ambiguous g to rely on diagrams		PC misinterpretation. Need
T11.2312.12:11 shall be ignored and interleaving shall be 1.		Suggested	Remedy				
C/ 45 SC 45.2.1.194.2 P 36 L 24 o, William Axonne Inc. Comment Type E Comment Status D	# <u>92</u> Editorial	Figure 2) In F		e 149-7 and dify the lab	l Figure 149-10. el scrn,0 to scrn,0 =	scrn[0]	
Comment Type E Comment Status D Grammar is a bit confusing.	Editorial	Proposed	Response	Respor	nse Status W		
Replace first sentence with: Bits 1.2311.3:2 control the precoder setting requested by the PHY.		Update	OSED ACCEP e Figure 149-7 omment #115.				
Proposed Response Response Status W PROPOSED ACCEPT.							

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

C/ 149 SC 149.3.2.2.16 Lo, William	P 87 Axonne Inc.	L6	# 96	C/ 149 SC 14 Lo, William	19.3.2.2.14	P 85 Axonne Inc.	L10	# 98	
Comment Type T Comment S Incorrect index in Figure 149-8 SuggestedRemedy g32 should be g33 g33 should be g34 Proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE Also see comment #51. Is highest number 33 or 34?	Status W		PCS	The text is not of The initial seed The value of the running. SuggestedRemedy Delete: The initial seed scrambler is run Replace with:	values for the MAS e seed is already de values for the MAS	termined during t TER and SLAVE frame bits.	raining and is in are left to the im	fact continuously plementer. The	PCS
Cl 149 SC 149.3.2.2.17 Lo, William Comment Type T Comment S Indexing incorrect in Figure 149-9 for		L 32	# 97 Interleave	scrambler. This uninterupted du Proposed Response	CCEPT IN PRINCIP	arted during PMA om PAM2 to PAM e <i>Status</i> W	training shall co		
SuggestedRemedy Change m326xL, m325xL,, mL (2 instances to the left and right of the m325xL, m325xL,, m0	e encoder #L) to			C/ 149 SC 14 Lo, William Comment Type	19.3.8.2 T Commen	P 99 Axonne Inc.	L 37	# 99	OAN
Proposed Response Response S PROPOSED REJECT.	Status Z			Page 99 lines 3	7 to page 100 line 1 ieee802.org/3/ch/pu	7 including Figur		baselined.	0, 11
This comment was WITHDRAWN by See commen #45 for resolution.	the commenter.			SuggestedRemedy	as written in D1.0 e Response	e Status W			

<i>Cl</i> 149 <i>SC</i> 149.4.5 Lo, William	P 130 Axonne Inc.	L 52	# 100	CI 149 SC 149.9.2.2 P144 L42 # 103 Maguire, Valerie The Siemon Company
Comment Type T Missing value in SEND I Missing transition	Comment Status D DATA state vs. baseline		PHY Control	Comment Type E Comment Status D EZ List complete Standards reference SuggestedRemedy
	D DATA state PCS DATA to INIT_MAXWAI c_rcvr_status = NOT_OK des		vith	Replace, "IEC 62132–1/4" with "IEC 62132–1, IEC 62132–4" <i>Proposed Response Response Status</i> W PROPOSED ACCEPT.
Proposed Response PROPOSED ACCEPT.	Response Status W	sonoling the dro.		C/ 149 SC 149.9.2.2 P144 L43 # 104 Maguire, Valerie The Siemon Company
C/ 1 SC 1.4.344a Maguire, Valerie Comment Type E Missing space	P 22 The Siemon Co Comment Status D	L 35 ompany	# <u>101</u> EZ	Comment Type E Comment Status D EZ List complete Standards reference SuggestedRemedy EZ EZ Replace, "ISO 10605 and IEC 61000-4-2/3" with "ISO 10605, IEC 61000-4-2, IEC 61000-4-2 EZ
SuggestedRemedy Replace, "of1000 Mb/s"	with "of 1000 Mb/s"			3" Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response PROPOSED ACCEPT.	Response Status W			C/ 149 SC 149.9.2.2 P144 L44 # 105 Maguire, Valerie The Siemon Company
C/ 149 SC 149.9.2.2 Maguire, Valerie	P 144 The Siemon Co	L 41 ompany	# 102	Comment Type E Comment Status D EZ List complete Standards reference EZ EZ
Comment Type E List complete Standards	Comment Status D		EZ	SuggestedRemedy Replace, "IEC 62215-3 and ISO 7637-2/3" with "IEC 62215-3, ISO 7637-2, and ISO 7637-3"
SuggestedRemedy Replace, "IEC 61967–1/	'4" with "IEC 61967–1, IEC 6'	967–4"		Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response PROPOSED ACCEPT.	Response Status W			

	1 <i>P</i> 144	L25	# 106	C/ 00 SC 0	P23	L 3	# 109
Maguire, Valerie	The Siemon (Company		McClellan, Brett	Marvell		
Comment Type E	Comment Status D		EZ	Comment Type E Co	omment Status D		EZ
•	rds reference (note: these Sta y by Maintenance Request 13		ed to the main	this note wasn't intended to b SuggestedRemedy	be included in draft 1.0		
SuggestedRemedy				remove the editor's note. Do	the same on page 50 li	ine 3	
	I-4 and IEC 60068-2–1/27/30/3 8-2–27, IEC 60068-2–30, IEC 60068-2–78"		,		sponse Status W		
Proposed Response PROPOSED ACCEPT	Response Status W T.			C/ 44 SC 44.1.3] McClellan, Brett	P 27 Marvell	L 50	# 110
C/ 149 SC 149.10.	P145	L 28	# 107	Comment Type T Co	omment Status D		Clause 44
Maguire, Valerie	The Siemon (Company		NOTE 1 as written makes it a	appear that XGMII is re	quired for other F	PHYs. It should be
Comment Type E	Comment Status D		EZ	consistent across all PHYs.			
Incorrect formatting fo	or table contents			SuggestedRemedy			
SuggestedRemedy				delete "NOTE 1 – XGMII IS C			E 1"
Format the contents o	of Table 149-10 as Times New	/ Roman 9.0pt (I	think this can be	Proposed Response Res	sponse Status W		
Format the contents o accomplished by appl	lying Paragraph Tag: Body)	/ Roman 9.0pt (I	think this can be	Proposed Response Res PROPOSED ACCEPT IN PR	sponse Status W RINCIPLE. Clause 125 s	shows all XGMII	interfaces as optional.
Format the contents o accomplished by appl Proposed Response	lying Paragraph Tag: Body) Response Status W	/ Roman 9.0pt (I	think this can be	Proposed Response Res	sponse Status W RINCIPLE. Clause 125 all XGMII optional to m	shows all XGMII atch Clause 125	interfaces as optional.
Format the contents o accomplished by appl Proposed Response PROPOSED ACCEPT	lying Paragraph Tag: Body) <i>Response Status</i> W T.			Proposed Response Res PROPOSED ACCEPT IN PR Change Figure 44-1 to show	sponse Status W RINCIPLE. Clause 125 all XGMII optional to m	shows all XGMII atch Clause 125	interfaces as optional.
Format the contents of accomplished by appl Proposed Response PROPOSED ACCEPT	lying Paragraph Tag: Body) <i>Response Status</i> W T. P 22	/ Roman 9.0pt (I <i>L</i> 34	think this can be # <u>108</u>	Proposed Response Res PROPOSED ACCEPT IN PR Change Figure 44-1 to show appear that XGMII is mandate	sponse Status W RINCIPLE. Clause 125 all XGMII optional to m ory for 10G but is not fo	shows all XGMII atch Clause 125 or 2.5G and 5G.	interfaces as optional. . Otherwise, it may
Format the contents of accomplished by appl Proposed Response PROPOSED ACCEPT Cl 1 SC 1.4 McClellan, Brett	lying Paragraph Tag: Body) <i>Response Status</i> W T. P 22 Marvell		# 108	Proposed Response Response PROPOSED ACCEPT IN PR Change Figure 44-1 to show appear that XGMII is mandate C/ 45 SC 45.2.1.199] McClellan, Brett	sponse Status W RINCIPLE. Clause 125 s all XGMII optional to m tory for 10G but is not for P38	shows all XGMII atch Clause 125 or 2.5G and 5G.	interfaces as optional. . Otherwise, it may # <u>111</u>
Format the contents of accomplished by appl Proposed Response PROPOSED ACCEPT Cl 1 SC 1.4 McClellan, Brett	lying Paragraph Tag: Body) <i>Response Status</i> W T. P 22			Proposed ResponseResPROPOSED ACCEPT IN PR Change Figure 44-1 to show appear that XGMII is mandateC/45SC45.2.1.199McClellan, Brett	sponse Status W RINCIPLE. Clause 125 s all XGMII optional to m tory for 10G but is not fo P38 Marvell omment Status D r in MultiGBASE-T PHY	shows all XGMII latch Clause 125 or 2.5G and 5G. <i>L</i> 31 ⁄s was a byprodu	interfaces as optional. Otherwise, it may # <u>111</u> <i>Registers</i>
Format the contents of accomplished by appl Proposed Response PROPOSED ACCEPT C/ 1 SC 1.4 McClellan, Brett Comment Type E typo	lying Paragraph Tag: Body) <i>Response Status</i> W T. P 22 Marvell		# 108	Proposed Response Response PROPOSED ACCEPT IN PR Change Figure 44-1 to show appear that XGMII is mandate C/ 45 SC 45.2.1.199I McClellan, Brett Comment Type T Co The RX signal power register	sponse Status W RINCIPLE. Clause 125 s all XGMII optional to m tory for 10G but is not fo P38 Marvell omment Status D r in MultiGBASE-T PHY	shows all XGMII latch Clause 125 or 2.5G and 5G. <i>L</i> 31 ⁄s was a byprodu	interfaces as optional. Otherwise, it may # <u>111</u> <i>Registers</i>
Format the contents of accomplished by appl Proposed Response PROPOSED ACCEPT CI 1 SC 1.4 McClellan, Brett Comment Type E typo	lying Paragraph Tag: Body) <i>Response Status</i> W T. <i>P</i> 22 Marvell <i>Comment Status</i> D		# 108	Proposed Response Response PROPOSED ACCEPT IN PR Change Figure 44-1 to show appear that XGMII is mandate C/ 45 SC 45.2.1.199I McClellan, Brett Comment Type T Co The RX signal power register (PBO) function which doesn't Co	sponse Status W RINCIPLE. Clause 125 s all XGMII optional to m tory for 10G but is not fo P38 Marvell omment Status D r in MultiGBASE-T PHY t exist in MultiGBASE-T	shows all XGMII latch Clause 125 or 2.5G and 5G. <i>L</i> 31 's was a byprodu '1 PHYs.	interfaces as optional. Otherwise, it may # <u>111</u> <i>Registers</i>
accomplished by appl Proposed Response PROPOSED ACCEPT CI 1 SC 1.4 McClellan, Brett Comment Type E typo SuggestedRemedy	lying Paragraph Tag: Body) <i>Response Status</i> W T. <i>P</i> 22 Marvell <i>Comment Status</i> D		# 108	Proposed Response Response PROPOSED ACCEPT IN PR Change Figure 44-1 to show appear that XGMII is mandate C/ 45 SC 45.2.1.199I McClellan, Brett Comment Type T Co The RX signal power register (PBO) function which doesn't SuggestedRemedy Delete clause 45.2.1.199 and	sponse Status W RINCIPLE. Clause 125 s all XGMII optional to m tory for 10G but is not fo P38 Marvell omment Status D r in MultiGBASE-T PHY t exist in MultiGBASE-T	shows all XGMII latch Clause 125 or 2.5G and 5G. <i>L</i> 31 's was a byprodu '1 PHYs.	interfaces as optional. Otherwise, it may # <u>111</u> <i>Registers</i>

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

C/ 45 SC 45.2.3 McClellan, Brett	P 43 Marvell	L1	# 112	Cl 149 SC 149 McClellan, Brett	3.2.2.14	P 85 Marvell	L 49	# 115
Comment Type E missing editorial instructio SuggestedRemedy Insert editorial instruction ' prior to 45.2.3.76.		follows:" and mo	<i>Editorial</i> ve instruction and text	Further despite th the scrambler inc		r implementati SC scramblers g, precoder, P	' the diagram show AM2 mapping and	ws functions outside of PAM4 mapping. The
•		e 42, line 44.		An additional issue equations in 149.				licate existing text and EC section.
unnecessary period SuggestedRemedy change ":." to ":"	P 60 Marvell Comment Status D	L19	# <u>113</u> EZ	Delete figure 147- replace the text o "The payload of the tx_scrambled<35- generated from the (LSB) bit is DS_n equal to Scr_n[3] DS_n[0] and DS_	149.3.2.2.14 with the PCS PHY frame 99:0> with an additi e side-stream scra [0] equal to Scr_n[0] XOR Scr_n[8]. n[1] are applied as DS_n[1] (MSB) to D_n[0]	tx_encoded<3 ve scrambler. mbler defined] defined in 14 additive scram	Two scrambler bit in 149.3.4. The fir 9.3.4. The second obler sequences to	s per symbol are
	P 61 Marvell Comment Status D	L31	# 114 Editorial	Proposed Response PROPOSED ACC	cript) 4 after 149.3.2.2.15 <i>Response</i> EPT IN PRINCIPL 5. Label scr n,0 as	S <i>tatus</i> W E.	scr n, as "B".	
125.5.2 should be 125.2.2 SuggestedRemedy change "125.5.2" to "125.2 Proposed Response PROPOSED ACCEPT.				"The payload of tl tx_scrambled<35 generated from th		tx_encoded<3 ve scrambler. mbler defined	Two scrambler bit in 149.3.4. The fire	
					DS_n[1] (MSB) to D_n[0] D_n[1].			o incoming data bits s {A, B} as follows:
TYPE: TR/technical required I COMMENT STATUS: D/dispa	ER/editorial required GR/	general required	T/technical E/editorial G/g	jeneral itten C/closed Z/withdra	ND	Comm	nent ID 115	Page 21 of 39 1/8/2019 9:15:48 I

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

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

Move 149.3.2.2.14 after 149.3.2.2.15 Also resolves #95 & #98	C/ 149 SC 149.1.3.3 P 66 L 22 # 118 Benyamin, Saied Aquantia	
C/ 149 SC 149.3.2.3.3 P92 L39 # 116	Comment Type TR Comment Status D	Aler
McClellan, Brett Marvell Comment Type T Comment Status D PCS missing list of conditions for invalid blocks SuggestedRemedy PCS change "A block is invalid if any of the following conditions exists: LIST" IST" to "A block is invalid if any of the following conditions exists: a) The block type field contains a reserved value. b) Any control character contains a value not in Table 149–1. c) Any O code contains a value not in Table 149–1. d) The block contains information from the payload of an invalid RS-FEC frame. The PCS Receive function shall check the integrity of the RS-FEC parity bits defined in 149.3.2.2.15. If the check fails the RS-FEC frame is invalid. R_BLOCK_TYPE of an invalid block is set to E." Proposed Response Response Status W PROPOSED ACCEPT. The PCS Parity Difference Parity Diffe	SuggestedRemedy The PMA Transmit function in the PHY then sends an alert message to the link partner The Alert signal is a low frequency PAM2 signal. The Alert signal is then followed by a number of Wake frames. After this short recovery time the normal operational mode is resumed. Proposed Response Response Status W PROPOSED ACCEPT. Cl 149 SC 149.1.3.3 P66 L 31 L 31 # 119 Benyamin, Saied Aquantia Comment Type TR Comment Status D SuggestedRemedy initiating a transition to the normal operation mode. The link partner then transmits wak frames which is used as a recovery period. Normal operation can then resume. Proposed Response Response Status W	Aler
C/ 149 SC 149.3.4.1 P93 L47 # 117	PROPOSED ACCEPT.	

<i>Cl</i> 149 <i>SC</i> 149.3.5 Benyamin, Saied	Р 94 Aquantia	L 41	# 121	C/ 78 SC 78.2 Benyamin, Saied	Р 50 Aquantia	L 49	# 124
Comment Type T We should specify timin	<i>Comment Status</i> D ng in partial frame units		Partial Frame	Comment Type TR	Comment Status D		EEE
SuggestedRemedy change 99 RS-FEC fra	mes to 792 partial PHY frame			SuggestedRemedy 2.5GBase-T1 Min/Ma	x should both be 10.24		
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEP In Table 78-2 swap th	Response Status W T IN PRINCIPLE. he Min and Max Ts values for 2	2.5GBASE-T1 an	d 10GBASE-T1.
<i>Cl</i> 149 <i>SC</i> 149.3.5 Benyamin, Saied	P 94 Aquantia	L 45	# 122	Cl 78 SC 78.2 Benyamin, Saied	P 51 Aquantia	L12	# 125
Comment Type T We should specify timi	Comment Status D ng in partial frame units		Partial Frame	Comment Type TR	Comment Status D		EEE
SuggestedRemedy change 100 RS FEC fra	ame to 800 partial PHY frame			SuggestedRemedy 10GBaes-T1 Min/Max			
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed Response PROPOSED ACCEP	Response Status W		
Also change 100 RS Fl	EC frame to 900 partial PHY fr	ame on page §	95, line 24.	See comment 124.	T IN PRINCIPLE.		
C/ 149 SC 149.3.5.1 Benyamin, Saied	P 95 Aquantia	L 30	# 123				
Comment Type T We should specify timin	<i>Comment Status</i> D ng in partial frame units		Partial Frame				
SuggestedRemedy change 50 RS FEC fra	me to 400 partial PHY frame						
Proposed Response PROPOSED ACCEPT.	Response Status W						

C/ 30	SC 30.5.1.1.4	P 24	L25	# 126	CI 44	SC	44.1.4.4	P 29	L19	# 128	
Zimmermar	n, George	CME:ADI,Aqu	antia,AP		Zimmerma	an, Geo	rge	CME:ADI,Aqu	iantia,AP		
Comment T	Туре Т	Comment Status D		Registers	Comment	Туре	Е	Comment Status D		Cla	ause 44
2.5G/50	G/10Gb Ethernet	n the base standard, the 8th has a list of diagnostic conc R to the list for excessive b	itions for PHYs	in the 5th sentence.	uses a	a 64B/6	5B PCS.	44-1 doesn't adequately dist	inguish from 10	GBASE-T which a	ılso
Suggested					Suggested			9 1 pair DMA" to "1 pair DC			
Add ed shown:' "Where	liting instruction: " :" (<us> indicate e a Clause 45 MD</us>	Change the 5th sentence of start of end of underscored IO interface is present a zer	insertions) o in the PMA/Pl	MD Receive link status	Proposed	Respor		& 1-pair PMA" to "1-pair RS Response Status W		WA	
(45.2.2. (45.2.2.	2.10.4) maps to the 2.10.5) maps to the	he enumeration "PMD link f e enumeration "WIS frame I e enumeration "WIS signal I S> or 45.2.3.80 <us>) maps</us>	oss", a one in th oss", a zero in t	ie LOS status bit he PCS Receive link	Cl 45 Zimmerma	•••	45.2.1 rge	P 31 CME:ADI,Aqu	L 32 ıantia,AP	# 129	
one in t one in t	the 10/40/100GBA the MultiGBASE-1	ASE-R PCS Latched high B I PCS status 2 PCS High I BER", a zero in the DTE XS	ER status bit (4 3ER (45.2.3.80)	5.2.3.16.2) <us> or a <us> maps to the</us></us>	Comment "2317t		E 1.32767"	Comment Status D missing space			EZ
maps to	o the enumeration	n "DXS link fault" and a zero enumeration "PXS link fault	in the PHY XS		S <i>uggested</i> Chang		•	to "2317 through"			
Proposed R PROPC	Response OSED ACCEPT.	Response Status W			Proposed PROP		ose ACCEPT.	Response Status W			
C/ 44 Zimmermar	SC 44.1.3 n, George	P 27 CME:ADI,Aqu	L 54 antia,AP	# 127	Cl 45 Zimmerma		45.2.1 rge	P 31 CME:ADI,Aqu	L 29 Iantia,AP	# 130	
Comment T 10GBA		Comment Status D s to be added to text of clau	se 44.	Clause 44	Comment 45.2.1		E has an ext	Comment Status D ra "8" (probably sitting there	next to the cros	ss reference)	EZ
	liting instruction a	nd text to change item d in I tart or end of underscored ir			Suggested Chang		•	45.2.1.198			
Clause T, in Cl	53 for 10GBASE	-LX4, in Clause 54 for 10GE SASE-LRM, <us>in Clause</us>	ASE-CX4, in C	lause 55 for 10GBASE-	Proposed PROP	•	se ACCEPT.	Response Status W			
Proposed R PROPC	Response OSED ACCEPT.	Response Status W									

C/ 45 SC 45.2.1.18	P32	L10	# 131	C/ 45 SC 45.2.1.192.4 P34 L14 # 133
Zimmerman, George	CME:ADI,Aqua	antia,AP		Zimmerman, George CME:ADI,Aquantia,AP
Comment Type T Need to add 2.5GBASE- register (Register 1.21)	Comment Status D T1 and 5GBASE-T1 to the 2	2.5G/5G PMA/PM	<i>Registers</i> D extended ability	Comment Type E Comment Status D EZ "149.3.2.2.19" should be an active cross-reference, but isn't. SuggestedRemedy EZ
allocate bits 5 and 4 to 5 45.2.1.18.aa and 45.2.1. and 2.5GBASE-T1 ability	nodified by IEEE Std 802.30 GBASE-T1 and 2.5GBASE- 18.ab before 45.2.1.18a (ad /, to read as follows: "45.2.1	T1 ability, respec ded by IEEE 802 .18.1aa 5GBASE	tively. Insert .3cb) for 5GBASE-T1 -T1 ability (1.21.5)	Suggesteurement Make "149.3.2.2.19" an active cross reference Proposed Response Response Status PROPOSED ACCEPT.
5GBASE-T1 PMA type. When read as a zero, bit	1.21.5 indicates that the PM 1.21.5 indicates that the PM	/IA is not able to o	operate as a 5GBASE-	C/ 45 SC 45.2.1.193 P 34 L 48 # 134 Zimmerman, George CME:ADI,Aquantia,AP
1.21.4 indicates that the	.1.18.1ab 2.5GBASE-T1 ab PMA/PMD is able to operate 1.21.4 indicates that the PM	as a 2.5GBASE	-T1 PMA type.	Comment Type T Comment Status D Registers Receive fault should be latching high to be useful. 802.3cg d2p2 made this change and it survived comment resolution. 802.3cg d2p2 made this change and it survived comment resolution.
	to the spec. Change the identified reserve new rows immediately after			 SuggestedRemedy Change R/W entry for 1.2310.1 to be RO/LH, add "LH = Latching High" to footnote a, and add "The receive fault bit shall be implemented with latching high behavior." to the end of the paragraph in 45.2.1.193.6 (P35 L37). Proposed Response Response Status W PROPOSED ACCEPT.
Add rows (with appropria 1.21.5 5GBASE-T1 at 1.21.4 2.5GBASE-T1	te Description): vility			C/ 45 SC 45.2.1.194 P 36 L 1 # 135 Zimmerman, George CME:ADI,Aquantia,AP CM
	5.2.2.18.1ab as suggested.			Comment Type E Comment Status D Editorial Table 45-155c has the wrong title "1000BASE-T1" should be "MultiGBASE-T1" same for Table 45-155d in 45.2.1.195
C/ 45 SC 45.2.1.192 . Zimmerman, George	1 P33 CME:ADI,Aqua	L 32 antia,AP	# 132	SuggestedRemedy
Comment Type E "PMD/PMA" everywhere SuggestedRemedy Change "PMD/PMA" to "			EZ	Change "1000BASE-T1" to "MultiGBASE-T1" on both Table 45-155c and Table 45-155d titles Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response PROPOSED ACCEPT.	Response Status W			

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

C/ 45 Zimmerman,	SC 45.2.3 George	P 39 CME:ADI,Aqu	L 14 antia,AP	# 136	C/ 45 Zimmerm	SC 45.5.3 an, George	P 49 CME:ADI,Aq	L 25 uantia,AP	# 139
in 149.3. SuggestedRe Change message Table 45	s 3.2318 throug 8.2.12 for Multi <i>emedy</i> names of regist s" to "MultiGBA -244a, 45.2.3.7	Comment Status D h 3.2321 more accurately re GBASE-T1 PHYs. ers and Link partner register SE-T OAM status message" 7, and Table 45-244b; with e	s from "MultiGI in Table 45-17	BASE-T1 OAM 6 and in 45.2.3.76,	Suggeste Add 4 comn Proposea	l5.5.3 PICS for c dRemedy l5.5.3 PICS to th	Comment Status D lause 45 to the draft e draft, with editorial license text and add PICS as neede Response Status W		
Change message	esponse SED ACCEPT I names of regist e" to "MultiGBA -244a, 45.2.3.7	Response Status W N PRINCIPLE. ers and Link partner register SE-T1 OAM status message 7, and Table 45-244b; with e	" in Table 45-1	76 and in 45.2.3.76,	CI 78 Zimmerm Comment	SC 78.3 an, George <i>Type</i> E	P 51 CME:ADI,Aq <i>Comment Status</i> D cross reference will be 149.4		# 140 Editorial
	pe T aining 4 octets	P41 CME:ADI,Aqu Comment Status D are contained in registers" is age defined in 149.3.8.2.12	n't really compl		Chan chan <i>Proposed</i> PROI	ge) <i>Response</i> POSED ACCEPT	to 149.4.2.4.5 and delete hig <i>Response Status</i> W F IN PRINCIPLE. ve highlighting, and make a		
SuggestedRe Change defined i Proposed Re PROPOS	"the remaining - n 149.3.8.2.12	4 octets are contained" to "to are contained in" in both 45 <i>Response Status</i> W N PRINCIPLE.			Comment The s T1 O	SC 97.3.8.3 an, George <i>Type</i> E section title for 97 AM register map dRemedy	P52 CME:ADI,Aq Comment Status D C.3.8.3 needs to change too, f	-	# 141 OAM neralization of the BASE-
Cl 45 Zimmerman, Comment Ty "BER co is the nu SuggestedRe Change read." Proposed Re	SC 45.2.3.80 George pe E unter" isn't a go mber of RS Fra emedy description field	P47 CME:ADI,Aqu Comment Status D od description - it isn't a cou me errors since the last read from "BER counter" to "Cou Response Status W	nter of rate or c I.		Chan mapp <i>Proposed</i>	ge title of 97.3.8.	3 from "State diagram variab agram variable to BASE-T1 C <i>Response Status</i> W T.	le to 1000BASE AM register ma	-T1 OAM register pping"
TYPE: TR/te		patched A/accepted R/reject		d T/technical E/editorial G/g NSE STATUS: O/open W/wr		d Z/withdrawn	Comn	nent ID 141	Page 26 of 39 1/8/2019 9:15:4

ge 26 of 39 2019 9:15:48 PM

C/ 104 SC 104.1.3	P 55	L10	# 142	C/ 125 SC 125.1.	4 P60	L31	# 145
Zimmerman, George	CME:ADI,Aquant	ia,AP		Zimmerman, George	CME:A	DI,Aquantia,AP	
Comment Type T	Comment Status D		PoDL	Comment Type E	Comment Status	כ	Editoria
PoDL PSE and PD. Unit be defining a new Type.	e F PoDL PSE and PD has red ess there is a difference in an e			PHYs use 64B/65B. encoding or the FEC	oding" doesn't adequately The other BASE-T PHY C used. I suggest spelling al RS-FEC or the Reconc	's are described either out Reed-Solomon	so as not to confuse
SuggestedRemedy	1.1.3 and all other clause 104 e	adits and add th	e following edit to	SuggestedRemedy			
104.1.3: Insert new four C PD is compatible with	th sentence (after "A Type B o 1000BASE-T1 PHYs."), "A Typ	or Type C PSE a be B PSE and Ty	nd Type B or Type /pe B PD is			Reed-Solomon encoo	ding" for both 2.5GBASE-
	SE-T1, 5GBASE-T1 and 10GB hat is different about the new ty		; Alternatively, add	Proposed Response PROPOSED ACCE	Response Status	N	
Proposed Response	Response Status W						
PROPOSED ACCEPT IN	N PRINCIPLE. Type F needs to be updated to	a ha diffarant fra	m Tupo B or Tupo E	C/ 125 SC 125.1.		L18	# 146
should be deleted.	Type F fields to be updated to		птуревотурег	Zimmerman, George	CME:A	DI,Aquantia,AP	
		1.00	# 440	Comment Type T	Comment Status		E
C/ 104 SC 104.9 Zimmerman, George	P 57 CME:ADI,Aquant	L 36 :ia,AP	# 143	Table 125-2 is miss 2.5GBASE-T1 and \$	ing the entries in the RS a 5GBASE-T1.	Ind XGMII columns f	or clause 46 for both
Comment Type E Need PICS for clause 10	Comment Status D 4		PICS	SuggestedRemedy Add "M" under RS f	or both PHYs and "O" und	ler XGMII for both Pl	HYs.
SuggestedRemedy Add 104.9 into the draft a necessary and this comm	as a placeholder. If Type F is c nent will be withdrawn.	collapsed into Ty	vpe B, it may not be	Proposed Response PROPOSED ACCE	Response Status N PT.	N	
Proposed Response	Response Status W			C/ 149 SC 149.1	P63	L18	# 147
PROPOSED ACCEPT.				Zimmerman, George	CME:A	DI,Aquantia,AP	
				Comment Type T	Comment Status	כ	Editoria
C/ 125 SC 125.1	P59	L15	# 144	"are defined in term	s of performance requirer	nents between the at	ttachment points [Medium
Zimmerman, George	CME:ADI,Aquant	lla,AP		Dependent Interface the medium It is th	e (MDI)],". The MDI is the ere whether or not we def	reference plane at v	which the PHY attaches to
Comment Type E	Comment Status D		Editorial		ements for a link segment		
Several boxes in the star	ck for Figure 125-1 are not align			SuggestedRemedy			
	, annoying you're geing te ge				ne attachment points [Med		
tower. I don't mean to be SuggestedRemedy Use fixed sizes for boxes	in the stack and frame "align"	functions to line	up boxes so that	defined in terms of p (no comma after)	performance requirements	s between the Mediu	m Dependent Interfaces"
tower. I don't mean to be SuggestedRemedy	in the stack and frame "align"	functions to line	up boxes so that		performance requirements Response Status		m Dependent Interfaces"

C/ 149	SC 149.1	P63	L20	# 148	C/ 149	SC 149.1.3	P 64	L15	# 151
Zimmerman,	George	CME:ADI,Aqua	intia,AP		Zimmerma	an, George	CME:ADI,Aq	uantia,AP	
here to v of "this c link segr SuggestedRo Change Proposed Ro	, as the normativ vhat the conduc clause" defines t nent requirement emedy "this clause" to	Comment Status D re requirements included in th tors need to meet - to the re- the electrical parameters of the nts. a cross reference to 149.7 <i>Response Status</i> W	quirements on t	he link segment - most	and m PHYs. in Figu elsewl Suggestec Chang PCS"	hame the PCS lake the figure in lf we choose ure 125-1 for 2. here in Cl 125) <i>Remedy</i> ge "2.5GBASE-	Comment Status D (say, e.g., "RS-FEC PCS") we nuch simpler, with a single st to do this, I will put in a main 5GBASE-T and 5GBASE-T P and collapse them too, makin T1 PCS" "5GBASE-T1 PCS" 8 stacks into 1 with the label "2 bottom.	ack showing the tenance request CS's to "LDPC P g Figure 125-1 b and "10GBASE-]	commonality of all 3 to change the labeling CS" (as it is called ack into 1 figure F1 PCS" to "RS-FEC
C/ 149 Zimmerman,	SC 149.1.3 George	P 63 CME:ADI,Aqua	L 46 Intia,AP	# 149	Proposed PROP	Response POSED ACCEP	Response Status W T.		
Comment Ty Spaces I		Comment Status D	reaking.	EZ	Cl 149 Zimmerma	SC 149.1.3 an, George	P 64 CME:ADI,Aq	L 45 uantia,AP	# 152
Editorial number- Proposed Re	aces between 5 license to do si unit combinatio	5 Gb/s (and 2.5 Gb/s and 100 milarly throughout the draft. (ns) <i>Response Status</i> W			negoti be use require Suggested	ding to 149.4.2 ation is not pre ed. The require ements do not	Comment Status D 6, the PHY Link Synchronizat sent. According to this parag ement doesn't below here, but belong in the overview)	raph, it is a requi belongs in 149.4	rement that it ALWAYS I.2.6. (generally,
CI 149 Zimmerman, Comment Ty Space m SuggestedRe	rpe E nissing "equal to	P 63 CME:ADI,Aqua <i>Comment Status</i> D 10"	L 53 Intia,AP	# <u>150</u> EZ	functio PHY L L49 "It then th trainin disable	on in the PHY (ink Synchroniz f the optional C ne Link Synchro g as defined in ed or not imple	see 149.4.2.6)." to "The MAS" ation function in the PHY (see lause 98 Auto-Negotiation fun prization function is responsib 149.4.2.4." to "If the optional mented, then the Link Synchr ining as defined in 149.4.2.4."	TER and SLAVE 449.4.2.6)." Ch ction is disabled le for establishin Clause 98 Auto-I onization functior	is synchronized by the nange 149.4.2.6 P121 or not implemented, g the start of PHY PMA Negotiation function is
Change Proposed Re	"equal to10" to	"equal to 10" Response Status W			Proposed		Response Status W		

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

			0					
	6 P121 CME:ADI,Aqua	L 28 antia,AP	# 153	C/ 149 SC Zimmerman, Ge	2 149.4.2. eorge	6.4 <i>P</i> 125 CME:ADI,Ad	L 43 quantia,AP	# 155
Requirements are nee	Comment Status D e is written in factual ("is") vs. r eded. For example P122 L28 "	he bit Sn[0] i		Comment Type If the force_ 5GBASE-T	phy_type i	Comment Status D is not 2.5G-T1, the state diag BASE-T1 PHYs can never s	gram gets stuck ync.	Link Synchronizatio
SuggestedRemedy	nappings need to be "shall be n to "shall be mapped" on page 1 <i>Response Status</i> W T.		31, and page 123 line 1.	"(force_ph	ry to SYN0 ny_type != v, consider vhy_type.	C_DISABLE from "force_p 2.5G-T1 * force_phy_type != replacing force_phy_type w <i>Response Status</i> W	= 5G-T1 * force	_phy_type != 10G-T1)"
C/ 149 SC 149.4.2. Zimmerman, George Comment Type T	6.1 P123 CME:ADI,Aqua Comment Status D	L 37 antia,AP	# 154	PROPOSEI force_phy_t Change ent	D ACCEPT type is use ry to SYN0	f IN PRINCIPLE. d in Clause 97 so keep it to C_DISABLE from "force_p 2.5G-T1 * force_phy_type !=	hy_type != 2.50	
fatal problem for 5GB out of scope for this s anywhere else in the o	ble force_phy_type is not used ASE-T1 and 10GBASE-T1 PH tate diagram (1000-T1 and 100 clause, so it is unclear what is r another state diagram which is	Ys. Addition -T1). The va neant by the	ally, it has defined values iriable isn't used variable. If this variable		C 149.5.1 eorge	P131 CME:ADI,Ad Comment Status D	L 40	# 156 Test Mode
SuggestedRemedy Delete values of 1000 implementation-deper replacing force_phy_t	-T1, 100-T1, and None, and the ndent and beyond the scope of ype with a boolean variable fore LSE (anything else), as the spe	this clause." ce_mg_phy_t	alternatively, consider type which is either TRUE	equivalent f SuggestedRem Change "Th implemente	unctionality edy lese test m d these tes ce to 2nd p	, nodes shall be enabled by se st modes shall be enabled b paragraph in 149.5.1, "If MDI	etting a control r y setting a cont	egister" to "If MDIO is rol register". Add new
Proposed Response PROPOSED ACCEP	Response Status W T IN PRINCIPLE.			Proposed Responsed PROPOSEI	onse	Response Status W		
Delete values of 1000	d in Clause 97 so keep it to be -T1, 100-T1, and None, and the indent and beyond the scope of	eir descriptior	ns. Add "Other values are	Cl 149 SC Zimmerman, Ge	2 149.5.1 eorge	P 132 CME:ADI,Ad	L 27 quantia,AP	# 157
				SuggestedRemo Delete edito divided vers	ine TX_TX edy or's note or sion of TX_ frequency o onse	Comment Status D CLK_DIV. Suggest divide b In lines 21-24, change "This T TCLK that times the transm divided version of TX_TCLK Response Status W	FBD MHz test cl itted symbols."	to "TX_TCLK_DIV is a

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

C/ 149 SC 149.5.1 Zimmerman, George	P 132 CME:ADI,Aquar	L 32 ntia,AP	# 158	C/ 149 SC 149.5.1 Zimmerman, George	Р132 СМЕ:АDI,Аqi	L 49 uantia,AP	# 161
Comment Type T	Comment Status D		Test Modes	Comment Type T	Comment Status D		Test Mode
	nave the same divide by 8 prop	osed for test me	ode 1.	Droop test should scale (transmitter output is fb	e approximately with transmi aud/30)	tter baud rate - so	o accept the yellow text
SuggestedRemedy				SuggestedRemedy			
Change "three {+3} syn symbols"	nbols" "three {-3} symbols" to	"four {+1} syml	bols" "four {-1}		n lines 49 and 50 ("fifteen {+´	1} local clock so	ource."
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 149 SC 149.5.1 Zimmerman, George	P 132 CME:ADI,Aquar	L 35 htia,AP	# 159	C/ 149 SC 149.5.1 Zimmerman, George	Р133 СМЕ:ADI,Aqi	L 1 uantia,AP	# 162
Comment Type T {0,3} symbols - PCS do	Comment Status D bes the mapping from {0,3} to {-	1, +1} so this is	Test Modes incorrect	Comment Type T Description of the test i 149.	Comment Status D mode 7 result is needed, and	d needs to be adj	<i>Test Modes</i> usted to reflect clause
SuggestedRemedy Change {0,3} to {-1, +1	1			SuggestedRemedy			
Proposed Response PROPOSED ACCEPT.	Response Status W			MAC, continuous zero decoding processing, a	nes 1 through 4 and insert "In data pattern is encoded. In t Jzero data sequence is expe as error and calculated in Bl	he receive side, a ected with no erro	after PCS FEC
C/ 149 SC 149.5.1 Zimmerman, George	P 132 CME:ADI,Aquar	L 40 ntia,AP	# 160	Proposed Response PROPOSED ACCEPT.	Response Status W		
Comment Type T Transmitter linearity tes	<i>Comment Status</i> D st can't be a PN sequence.		Test Modes				
	of symbols" through equation 2.0): Transmitter linearity test sp						
Proposed Response PROPOSED ACCEPT.	Response Status W						

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

C/ FM	SC FM	P 2	L1	# 163	C/ 1 S	C 1.4.344a	1
Zimmerma	an, George	CME:ADI,Aqu	antia,AP		Zimmerman, G	eorge	
(PHY) mana applic	amendment to IB , 5 Gb/s Physica gement paramet ation." - lack of o gement paramet	Comment Status D EEE Std 802.3-2018 adds poin al Layer (PHY) and 10 Gb/s Ph ters for operation on automotiv oxford comma, and chained "a ters" is clunky and can be misr	nysical Layer (P e cabling in an nd 10 Gbs spec	HY) specifications and automotive	Comment Type Missing sp SuggestedRem Change "of Proposed Resp PROPOSE	ace "of1000 nedy f1000" to "o nonse	of 1000" Respon
Layer (PHY) mana param amen param	, 5 Gb/s Physica gement neters for operati dment to IEEE S neters for 2.5 Gb	nent to IEEE Std 802.3-2018 a al Layer (PHY) and 10 Gb/s Ph ion on automotive cabling in ar Std 802.3-2018 adds physical la v/s, 5 Gb/s and 10 Gb/s operati n." Also, make same change c	nysical Layer (P n automotive ap ayer specificatio ion on automoti	HY) specifications and plication." to "This ons and management ve cabling in an	Cl 30 S Zimmerman, G Comment Type "[Notes for per its text.	C 30 eorge e E editors (t Also appli	Comme hrough) r ies to clause
'	Response POSED ACCEPT	Response Status W T.			SuggestedRem Delete "[No Proposed Resp	otes for edit	ors modifi Respon
C/ FM	SC FM	P1	L 26	# 164	PROPOSE		
<i>Comment</i> The d as the we sh	raft makes a nur basis for what ir ould be consiste enting.	CME:ADI,Aqui Comment Status D mber of edits "as modified by 8 t amends. It is still early to say ent. This way reviewers know t	302.3cg", but he y what the order	of publication is, but	Zimmerman, G <i>Comment Type</i> "Change th but are alre	T The sixth sen eady govern	.4 Comme tence" - Sin hed by the la d the Clause
Chano 802.3 201x,	ge "as amended cd-201x." to "IEE	by IEEE Std 802.3cb-2018, IE EE Std 802.3cb-2018, IEEE Std 02.3cg-201x (TBD)." Response Status W			the Link Fa Interruption	ult Signalin map to the on "not avail	Gb/s the e ng state diag e enumerati lable" and the MCMT1>
,	,	T IN PRINCIPLE.					
Make and c	the change as p	proposed. In addition, Add the	abstract of cg c	on page 10 between cd	accepted ir	L27 -33 ec	diting instruc do not delet clause follov
	Std802.3cgTM-2	20xx			Proposed Resp	onse	Respon

IEEE Std802.3cgTM-20xx This amendment to IEEE Std 802.3-2018 specifies additions and appropriate modifications

to add 10 Mb/s Physical Layer (PHY) specifications and management parameters for operation, and associated optional provision of power, over a single balanced pair of conductors.

Comment Status D EΖ 00" "of 1000" Response Status W PT. P23 L3 # 166 CME:ADI,Aquantia,AP Comment Status D F7 (through) ... modified.]" - this note isn't to be included in review drafts, plies to clause 78. ditors... modified.]" P23 L3 to 9. Make same deletion in Clause 78, P50. Response Status W PT. 1.4 P24 / 27 # 167 CME:ADI,Aquantia,AP Comment Status D Reaisters entence" - Since we use XGMII we should not modify not this sentence. erned by the language in the 8th paragraph relating to XGMII and 2.5G, nd the Clause 46 link fault signalling state diagram. "For 2.5 Gb/s, 5 25 Gb/s the enumerations map to value of the link fault variable within ling state diagram (Figure 46–11) as follows: the values OK and Link the enumeration "available", the value Local Fault maps to the ailable" and the value Remote Fault maps to the enumeration "remote

P22

CME:ADI,Aquantia,AP

L34

165

Delete P24 L27 -33 editing instruction and edit. If <COMMENT MGMT 2> is accepted or accepted in principle, do not delete ""30.5.1.1.4 aMediaAvailable", otherwise, if there are no other edits to this subclause following comment resolution, delete the header.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Depends upon resolution of Comment #126.

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

C/ 149 SC 149.3.4. WU, Peter	1 P93 Marvell	L 41	# 168	C/ 149 S WU, Peter	SC 149.4.2.6	P 122 Marvell	L 2	# 170
paragraph needs to be SuggestedRemedy See the attched text a with indicators to estal frames that comprise information field used encoding is based on first 914 partial PHY fr PHY frame is XORed long, beginning at Sn S_n= {■([Scr]_n [0]⊕	Comment Status D d to RS(360, 326) 2^10 the fra- e rewritten and equation:During PMA train blish alignment to the RS-FEC the block. The last partial PHY to exchange messages betwee the generation, at time n, of the rames of each RS-FEC block. with the contents of the InfoFi where (n mod 180) = 0. See E [InfoField]_((n mod 180)) 1 (n nod 180)=0	hing, the training C block and the Y frame is embe een link partners he bit Sn. The fir . The first 96 bits ield. Each partia Equation (149– 8	pattern is embedded I015 partial PHY dded with an . PMA training signal st bit is inverted in the of the 105th partial PHY frame is 180 bits). D0)≤1715@[Scr]_n	SuggestedRer Text "For 1 Sn[0] = 0 t Tn = +1 +1 For 5GBA then Tn = +1 +1 mapped to Tn = +1 +1 T1, the bit Tn = -1 -1	pping needs t nedy 10GBASE-T1 then 1 +1 +1 +1 +1 SE-T1, the bit 1 +1 +1, if Sn[0 the transmit 1, if Sn[0] = 1 Sn[0] is map -1 -1 -1 -1 -1	Comment Status D o be consistent , the bit Sn[0] is mapped to +1 +1, if Sn[0] = 1 then Tn t Sn[0] is mapped to the tran (0) = 1 then Tn = -11 -1 . symbol Tn as follows: if Sn[then Tn = -11." is sugge ped to the transmit symbol -1, if Sn[0] = 1 then Tn = +1 t Sn[0] is mapped to the tran	= -11 -11 nsmit symbol Tn -1. For 2.5GBA [0] = 0 then sted to be chana Tn as follows: if .+1 +1 .+1 +1	-111. as follows: if Sn[0] = 0 SE-T1, the bit Sn[0] is aged to " For 10GBASE- Sn[0] = 0 then +1.+1.
[0] Proposed Response PROPOSED ACCEP1 See comment #56	otherwise) Response Status W Γ IN PRINCIPLE.			mapped to	the transmit , if Sn[0] = 1 tl	= 1 then Tn = +1 .+1 +1 .+1 symbol Tn as follows: if Sn hen Tn = +1 .+1."		E-T1, the bit Sn[0] is
Cl 149 SC 149.3.4.: WU, Peter Comment Type TR Sn to Tn mapping is n	2 P94 Marvell <i>Comment Status</i> D ot conssitent with Figure 149-	L 10 -7	# <u>169</u> PAM2	PROPOSI The "."s ar Change te	ED ACCEPT I re copy/paste ext to: For 100 Sn[0] = 0 ther	Response Status W IN PRINCIPLE. artifacts. GBASE-T1, the bit Sn[0] is r Tn = +1 + 1 + 1 + 1 + 1 + 1 + 7		
SuggestedRemedy changed to if Sn =0 th Proposed Response PROPOSED ACCEPT	en Tn = -1, if Sn = 1, then Tn <i>Response Status</i> W ſ IN PRINCIPLE.	n = +1		then Tn = +1 +1	1 +1 +1, if Sn	t Sn[0] is mapped to the tran [0] = 1 then Tn =-1 -1 -1 -1. bit Sn[0] is mapped to the tr		
See Comment #169.								

C/ 149 SC 149.5.1 P133 L2 WU, Peter Marvell	# 171	C/ 45 SC 45.2.3 P 38 L 47 # 174 Wienckowski, Natalie General Motors General Motors 1
Comment Type ER Comment Status D 80B/81B code has been chamged to 64B/65B code	Test Modes	Comment Type E Comment Status D Iate Editor's note for content added in D1.0 needs to be removed. Iate Iate
SuggestedRemedy text "80B/81B" is changed to 64B/65B Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment #162.		SuggestedRemedy Remove Editor's note. The section was reviewed and other comments request updates to the text. Proposed Response Response Status PROPOSED ACCEPT.
CI 45SC 45.2.1.192.1P 33L 16Wienckowski, NatalieGeneral Motors	# 172	C/FM SC 0 P1 L # 175 den Besten, Gerrit NXP Semiconductors
Comment Type E Comment Status D Typo in register number SuggestedRemedy	late	Comment TypeTRComment StatusDIateThe clause title currently reads as: Physical Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive EthernetIate
Change 1.2304.10:9 to 1.2309.10:9 Proposed Response Response Status W PROPOSED ACCEPT.		SuggestedRemedy Given that we will only specify 2.5/5/10Gbps in this clause, I recommend to replace "Greater than 1Gbps" with "2.5, 5, and 10 Gbps". If there will another Automotive Ethernet PHY beyond 1Gbps standardized in the future, it will get its own clause I expect.
C/149SC149.4.5P131L2Wienckowski, NatalieGeneral Motors	# 173	Proposed Response Response Status W PROPOSED REJECT. This name is required to be the name in the PAR, which it is.
Comment Type E Comment Status D Editor's note for content added in D1.0 needs to be removed.	late	C/ FMSC 0P2L3# 176den Besten, GerritNXP Semiconductors
SuggestedRemedy Remove Editor's note, accpeting Figure 149-21 Proposed Response Response Status W PROPOSED ACCEPT.		Comment TypeERComment StatusDIateadds point-to-point 2.5 Gb/s Physical Layer (PHY), 5 Gb/s Physical Layer (PHY) and 10 Gb/s Physical Layer (PHY) specifications and management parameters for operation on automotive cabling in an automotive application.Iate
		SuggestedRemedy adds 2.5Gbps, 5Gbps, and 10Gbps Physical Layer (PHY) specifications and management parameters for single balanced pair link segments and suitable for automotive applications Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #164.

C/FM SC 0	P21	L27	# 177		C/ 44	SC 44.1.4.4	P29	L10	# 180
den Besten, Gerrit	NXP Semicor		# 177		den Besten, G		NXP Semicon		# [180
Comment Type E 2018comprehensive	Comment Status D			late	Comment Typ 64B/65B		Comment Status D		late
SuggestedRemedy 2018 comprehensive (?	?)				SuggestedRe RS-FEC F	2	ency with 10GBASE-T1)		
Proposed Response PROPOSED ACCEPT See comment #80.	Response Status W IN PRINCIPLE.					•	Response Status W IN PRINCIPLE.		
C/ 1 SC 1.4.344a den Besten, Gerrit	P22 NXP Semicor	L 34 nductors	# 178		C/ 44 den Besten, G	SC 44.1.4.4 Gerrit	P 29 NXP Semicon	L 44 nductors	# 181
Comment Type E of1000 Mb/s	Comment Status D			late	<i>Comment Typ</i> on a singl		Comment Status D		late
SuggestedRemedy of 1000 Mb/s					SuggestedRe over a sin				
Proposed Response PROPOSED ACCEPT See comment #108	Response Status W IN PRINCIPLE.				Change: f	ED ACCEPT	Response Status W IN PRINCIPLE. on on a single ver a single		
C/ 30 SC 30 den Besten, Gerrit Comment Type E	P23 NXP Semicor Comment Status D	L 3 nductors	# 179	late		SC 45.2.1.19	5	L16 nductors	# 182
	to be included in the publishe	d draft - not eve	en D1.0!)□	lace	Comment Typ 1.2309.10		Comment Status D		late
Forgot to delete???					SuggestedRe	medy			
Proposed Response PROPOSED ACCEPT		,			Wouldn't it better to out these bits at 7:6 instead (at start of lower byte) to allow reserved space in between for logical grouping of features in the future? In fact these bits are not really control but configuration bits.				
See comments #109 ar	nd #166.				Proposed Res		Response Status W		
					PROPOS	ED REJECT.			
							uration bits are the same thin r flexibility during draft develo		reserved block as one

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

C/ 45 SC 45.2.1.192.1 P33	L30	# 183	C/ 45 SC 45.2.1.194		L 40	# 186
den Besten, Gerrit NXP Semicon	ductors		den Besten, Gerrit	NXP Semico	nductors	
Comment Type T Comment Status D Does a reset time of 0.5sec make sense given that t 100ms	he link start-up tim	<i>late</i> le should be within	Comment Type E up	Comment Status D		lat
			SuggestedRemedy			
SuggestedRemedy Does 0.5s make sense? I would have expected a ma	ovinum valuo of 5	Ome rather than	up.			
500ms.			Proposed Response	Response Status 🛛 🛛 🛛 🖉		
Proposed Response Response Status W PROPOSED REJECT.		4 h - 4 h i4 in	PROPOSED ACCEPT I On page 36, line 45 Change: up To: up.	N PRINCIPLE.		
A hard reset time of 0.5s is standard for ethernet PH a standard bit, which already has the reset time defined the standard bit is a standard bit.		.,	C/ 45 SC 45.2.1.197	P38	L 20	# 187
response would be problematic.		- 1	den Besten. Gerrit	NXP Semico		# 107
This is the same value as for 1000BASE-T1.			Comment Type T	Comment Status D		lat
C/ 45 SC 45.2.1.192.3 P34	L5	# 184	This fine-grained SNR re	esolution seems overdone. 13,126), it seems that a 4 b		clauses with and SNR
den Besten, Gerrit NXP Semicon Comment Type T Comment Status D	ductors	late	SuggestedRemedy			
"The data path of the MultiGBASE-T1 PMA, depend many seconds to run at optimum error ratio after exi mode." SuggestedRemedy Is that really acceptable? I would expect a more tigh Proposed Response Response Status W	ting from reset or l	owpower	decision point SNR marg reception of LDPC-code The SNR_margin<7:4> 1 1010, 1011, 1100, 1101, –1, –0.5, 0, 0.5, 1, 1.5, 2 a margin of –2 dB or les	jin (4 bits). Represented by gin in 1/2 dB steps. SNR_m d DSQ128 at an LDPC fran four-bit values, 0010, 0011, 1110 shall indicate the der 2, 2.5, 3, 3.5, 4, 4.5 dB, res 5, and the value 1111 shall the SNR margin value is un	nargin is relative ne error ratio of lo 0100, 0101, 011 cision point SNR pectively. The va indicate 5 dB or	to the SNR required for ess than $3.2 \Box 10-9$. 0, 0111, 1000, 1001, margin values of -1.5, lue 0001 shall indicate
PROPOSED ACCEPT IN PRINCIPLE.			Proposed Response	Response Status W		
See comment #82.			PROPOSED ACCEPT I	N PRINCIPLE.		
C/ 45 SC 45.2.1.194.1 P 36 den Besten, Gerrit NXP Semicon	L9 ductors	# 185	TFTD			
Comment Type E Comment Status D		late		e of measurement should b		
R.W		late	fields mentioned by the	he MultiGBASE-T SNR mai commenter are those repor	ted during startu	p and are for a much
SuggestedRemedy R/W			coarser measurement d not for runtime monitorin	one via infofields and option ng.	nally used by the	PHY during startup,
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change: R.W						

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

C/ 45 den Bester	SC 45.2.1.19	B P38 NXP Semic	L27 conductors	# 188	C/ 45 SC 45.2.3.72.2 P 40 L 31 # den Besten, Gerrit NXP Semiconductors	190
	ne-grained SNR r parameter (55,1	Comment Status D esolution seems overdone 13,126), it seems that a 4			Comment Type E Comment Status D Was BASE-T1 intentionally strikes through here? SuggestedRemedy	la
See pr Proposed F	evious comment	Response Status W			Proposed Response Response Status W PROPOSED REJECT.	
Previo TFTD	us comment is #	87			Not a comment. To answer the question, yes, it was changed so to say "transmitted by the PF specifying the specific PHY.	IY" without
is the s fields n coarse	ame used in all t nentioned by the	ge of measurement should the MultiGBASE-T SNR m commenter are those rep lone via infofields and opti ng.	nargin registers for ported during startu	reporting. The 4 bit p and are for a much	C/ 45 SC 45.2.3.73 P 41 L 6 # den Besten, Gerrit NXP Semiconductors NXP Semiconductors # Comment Type E Comment Status D # Reference to wrong registers 2328/2329 (which are reserved) # *	191 Ia
C/ 45 den Bester	SC 45.2.1.19	P38 NXP Semic	L34 conductors	# 189	SuggestedRemedy Should be 3.2318 and 2319	
Comment T This fir	51	Comment Status D power resolution seems of	overdone.	late	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
	•	be enough. Accuracy car le.	nnot be that high a	s analog front-end gain	See Comment #87.	
Proposed F PROP	Response	Response Status W				
is the s of trans	ame used in all t smit power is usu oarse. Currently	ge of measurement should the MultiGBASE-T power i ally only 2 dB in the Multi there is only an upper bou- ide intersections	registers for repor GBASE-T PHYs, i und on transmit po	ting. The allowed range making 0.5 dB steps		

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

den Besten, Gerrit NXP Semiconductors den Besten, Gerrit NXP Semiconductors Comment Type T Comment Status D late Comment Type T Comment Status D "Register 3.2313.15" shall be cleared when register 3.2317 is read." SuggestedRemedy This condition is adapted by the paragraph below the table. Probably better to say: this bit shall self-clear on reading the last link partner AOM register. (and leave the more detailed explanation as is in the paragraph below). SuggestedRemedy Suggested Remedy Confusing incomplete statement and redundant here as this belongs to the p about register 2313. Suggest to remove this sentence. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. M Change "This bit shall self clear when register 3.2317 is read" to "See 45.2.3.74.1 for self-clearing behavior". Note - this eliminates a 'duplicate shall', as well as provides the Sugest which George Zimmerman will enter.				
Comment Type T Comment Status D late This bit shall self clear when register 3.2317 is read." SuggestedRemedy SuggestedRemedy This condition is adapted by the paragraph below, the table. Probably better to say: this bit shall self-clear on reading the last link partner AOM register. (and leave the more detailed explanation as is in the paragraph below). Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change "This bit shall self clear when register 3.2317 is read" to "See 45.2.3.74.1 for self-clearing behavior". Note - this eliminates a 'duplicate shall', as well as provides the registers being the same. Code Status W Comment Type E Comment Status D PA1 L5 # 193 Comment Type E Comment Status D request which George Zimmeram Will enter. SuggestedRemedy Comment Type E Comment Type T Comment Type T Replace by there are 4 additional octets" Proposed Response Status W PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy Containg incomplete statement and redundant here as this belongs to the p about register 313.1 is shall be cleared when register 3.231.1 is shall be cleared." SuggestedRemedy Comment Type T Comment Type T Comment Type T Replace by there are 4 additional octets" Proposed Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #87.	195			
This bit shall self clear when register 3.2317 is read. SuggestedRemedy This condition is adapted by the paragraph below the table. Probably better to say: this bit shall self-clear on reading the last link partner AOM register. (and leave the more detailed explanation as is in the paragraph below). Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change "This bit shall self clear when register 3.2317 is read" to "See 45.2.3.74.1 for self-clear on reading the last leave shall", as well as provides the reference to the more complete behavior without relying on the names of the registers being the same. PROPOSED ACCEPT IN PRINCIPLE. Cl 45 SC 45.2.3.73 P41 L5 # 193 den Besten, Gerrit NXP Semiconductors Jate "the remaining 4 octets are" Casta Status W PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy Iate Tomment Status D Iate "the remaining 4 octets are" NXP Semiconductors Iate SuggestedRemedy Confusing incomplete statement and redundant here as this belongs to the p about register 3.231.15 shall be cleared when register 3.231.31 Iate Cl 45 SC 45.2.3.73 P41 L5 # 193 fate Besten, Gerrit NXP Semiconductors D "confusing incomplete statement and redundant here as this belongs to the p about register 3.232.1				
This condition is adapted by the paragraph below the table. Probably better to say: this bit shall self-clear on reading the last link partner AOM register. (and leave the more detailed explanation as is in the paragraph below). Confusing incomplete statement and redundant here as this belongs to the p about register 31.3 Suggest to remove this sentence. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change "This bit shall self clear when register 3.2317 is read" to "See 45.2.3.74.1 for self-clearing behavior". Note this eliminates a 'duplicate shall', as well as provides the reference to the more complete behavior without relying on the names of the registers being the same. This is for existing text in Clause 45. Removing the redundant text requires a request which George Zimmerman will enter. Cl 45 SC 45.2.3.73 P41 L5 # 193 Comment Type E Comment Status D late "the remaining 4 octets are" NXP Semiconductors Comment Type T Comment Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #87. Sc 45.2.3.75 P42 L41 # 194 Gen Besten, Gerrit NXP Semiconductors Comfusing incomplete statement and redundant here as this belongs to the p about register 2313. Suggest to remove this sentence. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #86.	late			
shall self-clear on reading the last link partner AOM register. (and leave the more detailed explanation as is in the paragraph below). about register 2313. Suggest to remove this sentence. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change "This bit shall self clear when register 3.2317 is read" to "See 45.2.3.74.1 for self-clearing behavior". Note - this eliminates a 'duplicate shall', as well as provides the reference to the more complete behavior without relying on the names of the registers being the same. PROPOSED ACCEPT IN PRINCIPLE. Cl 45 SC 45.2.3.73 P41 L5 # 193 den Besten, Gerrit NXP Semiconductors Comment Type Comment Status D (ate 8 the remaining 4 octets are" SuggestedRemedy Replace by "there are 4 additional octets" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy See Comment #87. Ci 45 SC 45.2.3.75 P42 L41 # 194 den Besten, Gerrit NXP Semiconductors See Comment #86. See Comment #86.				
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change "This bit shall self clear when register 3.2317 is read" to "See 45.2.3.74.1 for self-clearing behavior". Note - this eliminates a 'duplicate shall', as well as provides the registers being the same. PROPOSED ACCEPT IN PRINCIPLE. Cl 45 SC 45.2.3.73 P41 L5 # 193 den Besten, Gerrit NXP Semiconductors Iate Comment Type E Comment Status D Iate SuggestedRemedy Replace by "there are 4 additional octets" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #87. Cl 45 SC 45.2.3.75 P42 L41 # 194 den Besten, Gerrit NXP Semiconductors Iate "the remaining 4 octets are" W PROPOSED ACCEPT IN PRINCIPLE. See Comment #87. Cl 45 SC 45.2.3.75 P42 L41 # 194 den Besten, Gerrit NXP Semiconductors Iate "the remaining 4 octets are" L5 Iate	Confusing incomplete statement and redundant here as this belongs to the paragraph			
PROPOSED ACCEPT IN PRINCIPLE. Change "This bit shall self clear when register 3.2317 is read" to "See 45.2.3.74.1 for self-clearing behavior". Note - this eliminates a 'duplicate shall', as well as provides the reference to the more complete behavior without relying on the names of the registers being the same. C/ 45 SC 45.2.3.73 P41 L5 # 193 C/ 45 SC 45.2.3.73 P41 L5 # 193 C/ 45 SC 45.2.3.77 P43 L48 # den Besten, Gerrit C/ 45 SC 45.2.3.77 P43 L48 # den Besten, Gerrit C/ 45 SC 45.2.3.77 P43 L48 # den Besten, Gerrit C/ 45 SC 45.2.3.77 P43 L48 # den Besten, Gerrit C/ 45 SC 45.2.3.77 P43 L48 # den Besten, Gerrit SuggestedRemedy Itemating 4 octets are" Comment Type T Comment Type T Comment and redundant here as this belongs to the p about register 3313. Suggest to remove this sentence. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #87. Status D ////////////////////////////////////				
Change "This bit shall self clear when register 3.2317 is read" to "See 45.2.3.74.1 for self-clearing behavior". Note - this eliminates a 'duplicate shall', as well as provides the reference to the more complete behavior without relying on the names of the registers being the same. This is for existing text in Clause 45. Removing the redundant text requires a request which George Zimmerman will enter. Cl 45 SC 45.2.3.73 P41 L5 # 193 den Besten, Gerrit NXP Semiconductors NXP Semiconductors Comment Type E Comment Status D late "the remaining 4 octets are" SuggestedRemedy Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #87. P42 L41 # 194 Cl 45 SC 45.2.3.75 P42 L41 # 194 den Besten, Gerrit NXP Semiconductors W PROPOSED ACCEPT IN PRINCIPLE. See Comment #86. See Comment #87. L41 # 194 194 See Comment #86.				
den Besten, Gerrit NXP Semiconductors Comment Type E Comment Status D late "the remaining 4 octets are" late "For MultiGBASE-T1 PHYs, register 3.2313.15 shall be cleared when register 3.2321 is read." SuggestedRemedy Replace by "there are 4 additional octets" Image: Confusing incomplete statement and redundant here as this belongs to the p about register 2313. Suggest to remove this sentence. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. Proposed Response See Comment #87. NXP Semiconductors See Comment #86. Ci 45 SC 45.2.3.75 P42 L41 194 den Besten, Gerrit NXP Semiconductors Iate "the remaining 4 octets are" Iate	a Maintainance			
den Besten, Gerrit NXP Semiconductors Comment Type E Comment Status D late "the remaining 4 octets are" late "For MultiGBASE-T1 PHYs, register 3.2313.15 shall be cleared when register 3.2321 is read." SuggestedRemedy Replace by "there are 4 additional octets" Image: Confusing incomplete statement and redundant here as this belongs to the p about register 2313. Suggest to remove this sentence. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. Proposed Response See Comment #87. NXP Semiconductors See Comment #86. Ci 45 SC 45.2.3.75 P42 L41 194 den Besten, Gerrit NXP Semiconductors Iate "the remaining 4 octets are" Iate	late			
Comment Type E Comment Status D late "the remaining 4 octets are" Ite SuggestedRemedy SuggestedRemedy Replace by "there are 4 additional octets" V Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Response Status W See Comment #87. V1 194 Cl 45 SC 45.2.3.75 P42 L41 194 den Besten, Gerrit NXP Semiconductors Iate "the remaining 4 octets are"	late			
"the remaining 4 octets are" SuggestedRemedy Replace by "there are 4 additional octets" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #87. C/ 45 SC 45.2.3.75 P42 L41 # 194 den Besten, Gerrit NXP Semiconductors Comment Type E Comment Status D late "the remaining 4 octets are"				
SuggestedRemedy Replace by "there are 4 additional octets" Confusing incomplete statement and redundant here as this belongs to the p about register 2313. Suggest to remove this sentence. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #87. See Comment #87. Proposed feasions C/ 45 SC 45.2.3.75 P42 L41 # 194 den Besten, Gerrit NXP Semiconductors Jate "the remaining 4 octets are" Late Jate				
Replace by "there are 4 additional octets" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #87. C/ 45 SC 45.2.3.75 P42 L41 194 den Besten, Gerrit NXP Semiconductors Comment Type E Comment Status D Iate	aragraph			
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See Comment #87. Cl 45 SC 45.2.3.75 P42 L41 # 194 den Besten, Gerrit NXP Semiconductors See Comment Status D Iate Comment Type E Comment Status D Iate				
See Comment #87. Cl 45 SC 45.2.3.75 P 42 L 41 # 194 den Besten, Gerrit NXP Semiconductors Comment Type E Comment Status D Iate "the remaining 4 octets are" Image: Comment Status Image: Comment Status Image: Comment Status				
den Besten, Gerrit NXP Semiconductors Comment Type E Comment Status D Iate "the remaining 4 octets are" Image: Comment Status Image: Comment Status Image: Comment Status				
Comment Type E Comment Status D late "the remaining 4 octets are"				
SuggestedRemedy				
Replace by "there are 4 additional octets"				
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.				
See Comment #87.				

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

C/ 45 SC 45.2.3.78.1 P 44 L 44 # 197 den Besten, Gerrit NXP Semiconductors NXP Semiconductors 197	C/ 78 SC 78.2 P 50 L 49 # 199 den Besten, Gerrit NXP Semiconductors
Comment Type T Comment Status D Iate "The control and management interface shall be restored to operation within 0.5 s from the setting of bit 3.2322.15." SuggestedRemedy	Comment Type T Comment Status D Iate What is the tolerance on these time values? There is zero margin between min and max. SuggestedRemedy As these are actually an integer number of symbol periods (or blocks or frames), it might
Does 0.5s make sense? I would have expected a maximum value of 50ms rather than 500ms.	be better to specify them that way, without tolerance window.
Proposed Response Response Status W PROPOSED REJECT.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
A hard reset time of 0.5s is standard for ethernet PHYs in 802.3. Since that bit is a copy of a standard bit, which already has the reset time defined, changing the requirement for response would be problematic.	Jim Graba confirmed during D1.0 creation that these should be the same value. "In 802.3bp we started Sleep if the last 80B/81B block in a frame was an LPI control character. This was William Lo's innovation 4 years ago. It reduced LPI chattering. Then Ts min and max are equal. See 802.3bp (1000BASE-T1) table 78-2."
C/ 45 SC 45.2.3.78 P 44 L 21 # 198 den Besten, Gerrit NXP Semiconductors	I carried this forward to 802.3ch. So yes this means Ts min and max are equal.
Comment Type E Comment Status D late	However, Tq is not the same for both values for 1000BASE-T1.
What is the reason to define new PCS control, status 1 and status 2 register, as they contain exactly the same fields as 1000BASE-T1. The OAM registers are reused (and extended). Why not do the same for these PCS registers?	C/ 125 SC 125.1.4 P 60 L 30 # 200 den Besten, Gerrit NXP Semiconductors Image: Compare the second sec
SuggestedRemedy	Comment Type T Comment Status D late
Can we defined the PCS registers as BASE-T1 registers instead that can be reused for all speed grades?	"using 64B/65B encoding" SuggestedRemedy
Proposed Response Response Status W	Shouldn't that be "Reed-Solomon" given that the BASE-T flavors mention LDPC?
PROPOSED REJECT. Commenter provides insuffficient information for remedy. At this time it is unknown	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
whether the registers will remain identical to those in 1000BASE-T1. If the content remains the same as we approach working group ballot, commenter is invited to come with a	See Comment #145.
proposal to merge the registers.	C/ 125 SC 125.1.4 P 60 L 38 # 201 den Besten, Gerrit NXP Semiconductors
	Comment Type T Comment Status D late "using 64B/65B encoding"
	SuggestedRemedy Shouldn't that be "Reed-Solomon" given that the BASE-T flavors mention LDPC?
	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
	See Comment #145.
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w SORT ORDER: Comment ID	

al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta

C/ 149 SC 149.1.3.1	P65	L 22	# 202	C/ 149 SC 149.1.5	P67	L35	# 204
den Besten, Gerrit	NXP Semicono	ductors		den Besten, Gerrit	NXP Semicon	nductors	
Comment Type T "the PCS receives four X interface on TXD<31:0>,	Comment Status D GMII data octets provided b and groups"	y two transfers o	<i>late</i> on the XGMII service		<i>Comment Status</i> D GBASE-T1, and 10GBASE-T1 XGMII, if implemented."	PHY implemen	lai ntations are compatible
SuggestedRemedy				SuggestedRemedy			
	be eight in this sentence. A per XGMII transfer, and gro		d read: "the PCS	10GBASE-T1 PHY in	sts that a 2.5GBASE-T1 PHY in the plementation at MDI and XGM	/III. I expect this	
Proposed Response	Response Status W				only applies for the same spee	ed grade.	
PROPOSED ACCEPT IN	I PRINCIPLE.			Proposed Response PROPOSED REJEC	Response Status W		
awkward. Use the wordir direction, in normal mode transfers on the XGMII s	is (because it goes on to sa g from clause 126 in 802.3- a, the PCS receives four XG ervice interface on TXD<31: "In the transmit direction, in	2018. Change "I MII data octets p 0>, and groups to	In the transmit provided by two two of them into 64-bit	interoperable. It mea	insufficient information for rem ns they use the same interface g is used in this subclause of cl	es, which is wha	at this subclause is
XGMII data octets provid	ed by two consecutive trans hem into 64-bit blocks with t	fers on the XGM	III service interface on	Cl 149 SC 149.3.2 Zimmerman, George	.3 P 92 CME:ADI,Aqu	L 8 ıantia,AP	# 206
C/ 149 SC 149.1.3.4 den Besten, Gerrit	P 66 NXP Semicono	L 50 ductors	# 203	Comment Type T LATE COMMENT - Ir "TBD"	Comment Status D nformative descriptive text for the	he PCS Receive	lat e function is listed as
Comment Type E	Comment Status D		late	SuggestedRemedy			
••	ne other, validate link, and"			zimmerman_3ch_01_	al PCS Receive function opera _0119.pdf. Editorial license to l decisions in this meeting.		
SuggestedRemedy	"validate link" what does thi	s mean here?			-		
SuggestedRemedy Sentence reads strange: Proposed Response	Response Status W	s mean here?		Proposed Response PROPOSED ACCEP	Response Status W		
SuggestedRemedy	Response Status W I PRINCIPLE.	s mean here?		Proposed Response	Response Status W T.	L 44 rs	# 207
SuggestedRemedy Sentence reads strange: Proposed Response PROPOSED ACCEPT IN	Response Status W I PRINCIPLE.	's mean here?		Proposed Response PROPOSED ACCEP CI 45 SC 45.2.3.8 Wienckowski, Natalie Comment Type E	Response Status W T. 30 P46		# 2 <u>07</u>
SuggestedRemedy Sentence reads strange: Proposed Response PROPOSED ACCEPT IN	Response Status W I PRINCIPLE.	is mean here?		Proposed Response PROPOSED ACCEP Cl 45 SC 45.2.3.8 Wienckowski, Natalie Comment Type E Incorrect Register nu SuggestedRemedy	Response Status W T. 0 P46 General Moto Comment Status D	rs	