Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149A SC 149A.	5.4	P <b>194</b>	L <b>4</b>	# 1		C/ <b>45</b>	SC	45.2.3.78		P <b>46</b>	L <b>39</b>	# 4	
Hajduczenia, Marek		Charter Comr	nunications			Hajduczeni	a, Mar	ek		Charter Com	munications		
Comment Type E		ent Status A			EZ	Comment		TR	Comment				Register
Text of column Feat table.	ure seems to	be a few points la	ger than the othe	er columns in the	e same							alue for each bit o initial state of the	
												ement interventio	
SuggestedRemedy Please align the fon	t sizo					Suggested							
0		an Chathan O						-	informative	text, which I b	elieve it is.		
Response ACCEPT.	Respon	se Status C				none o	f which	strikes m	e as intended	d optional requ	irement. Each a	(excludign front p nd every istance of not intended as	of the
C/ 149B SC 149B.	3.2.3	P <b>199</b>	L <b>26</b>	# 2							nformative inste		un
Hajduczenia, Marek		Charter Comr	nunications			Response			Response	Status C			
Comment Type TR	Comme	ent Status A			OAM	ACCER	PT IN F	RINCIPLE					
I am very confused required behavior of					be the	Should need P		another wa	ay to state ar	n optional requ	irement. Should	statements do n	ot
SuggestedRemedy													
Seems like this ann	ex ought to be	e normative									GBASE-T1 PCS n power up or re	control register s	hould
Response	Respon	se Status C				operati	ional st	ate withou	t manageme	nt intervention	•		
ACCEPT IN PRINC	IPLE.											ol register is cho	
Add a new first subo	lause (149B	1) with all others re	numbered after						e device upo ervention."	n power up or	reset is a norma	l operational state	e
						In addi							
149B.1 Purpose									hange "shou Id be" to "are				
This annex describe Clause 149 MultiGB and bit assignments to enable consistent behaviors described	ASE-T1 PHY in the OAM f t use of the O	s. Suggested bit rame are detailed AM channel. Use	pehaviors, showr in this annex for i of these specific	n in state diagram informative purp assignments an	ns, oses	P99 L1 remain "If the j P134 L p137 L	7-19 th shoul precod 12 cha 25	here are tw d" as they er is not in Inge "shou	o "should's" are not testa itialized to ze ld be" to "is".	regarding initia ble. The Edito ro there may b – this is auto	or will add a state	e diagram Figure	ct that
C/ 1 SC 1.5		P <b>23</b>	L <b>44</b>	# 3					1				
Hajduczenia, Marek		Charter Comr	nunications										
Comment Type E Empty section 1.5	Comm	ent Status A			EZ								
SuggestedRemedy													
Please remove, no	content												
Response	Respon	se Status C											
ACCEPT.	•												

#### Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W P802.3ch D2.0 CI 78 SC 78.3 P57 L5# C/ 45 SC 45.2.1.18.aa P33L37 # 8 **Charter Communications** Kolesar, Paul CommScope Hajduczenia, Marek Comment Type ER Comment Status R PICS Comment Type Е Comment Status A ΕZ New shall statements were added, PICS were not updated typo SuggestedRemedy SuggestedRemedy Add PICS statements to address new "shall" statements in the added text change abilitiv to ability Response Response Response Status C Response Status C ACCEPT. REJECT. There are currently no PICS for 78.3. If this requires PICS, a Maintenance request should P33 C/ 45 SC 45.2.1.18.ab L43 # 9 be created to add these for all shall statements, including the existing shalls in this CommScope Kolesar, Paul subclause. Comment Type Е Comment Status A F7 C/ 104 SC 104.6 P64 L8 # typo Hajduczenia, Marek Charter Communications SuggestedRemedy Comment Type ER Comment Status A PICS change abilitiy to ability Multiple "shall" statements were revised (extended) and one new was added, but the text of Response Response Status C PICS was not updated ACCEPT. SugaestedRemedv Per comment C/ 1 SC 1.5 P23 L44 # 10 Response Response Status C Anslow. Pete Ciena ACCEPT IN PRINCIPLE. Comment Status A ΕZ Comment Type Е As no new abbreviations are being added, remove 1.5 In 104.9.3 add PICS for PSETF and PDTF. In 104.9.4.3 add PICS for Type F PD ripple and transients SuggestedRemedy In 104.9.3 add PICS for Type F PD measured ripple voltage post-processing Remove 1.5 from the draft In 104.9.4.4 add Type F to COMEL1 Response Response Status C C/ 125 SC 125.2.4.3 P68 L28 # ACCEPT. Hajduczenia, Marek Charter Communications C/ 45 SC 45.2.3.76 P45 PICS L50 # 11 Comment Type ER Comment Status A New shall statements were added. PICS were not updated Anslow, Pete Ciena Comment Type Е Comment Status A ΕZ SuggestedRemedy Table 45-244a is split across two pages with only one body row on the first page. Per comment SuggestedRemedy Response Response Status C Increase the Orphan rows setting in Table Designer to 4 ACCEPT IN PRINCIPLE. Response Response Status C P68 L27 Delete: If Auto- Negotiation is implemented, it shall meet the requirements of ACCEPT. Clause 98 This text is not needed here as it is in Clause 149. TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Comment ID 11 Page 2 of 61 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn 7/17/2019 7:40:13 AM SORT ORDER: Comment ID

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ <b>45</b>	SC 45.2.3.77	P <b>46</b>	L15	# 12		C/ <b>45</b>	SC 4	5.5.3.3	P <b>52</b>	L <b>49</b>	# 15
Anslow, Pe	ete	Ciena				Anslow, P	ete		Ciena		
Comment	Type E	Comment Status A			EZ	Comment	Туре	Е	Comment Status A		EZ
	ink partner MultiG in link).	BASE-T1" should be "The I	ink partner Multi	GBASE-T1" (lower		When "very t		plit across	s pages, the bottom ruling of	the table on the	e first page should be
Suggested	dRemedy					Suggested	JRemedy	/			
Chang	ge "Link" to "link"							0	'very thin" for:		
Response ACCE		Response Status C				the tal Table	ble in 45. 78-4 on	.5.3.7 at th page 57	ne foot of page 52 ne foot of page 54 at the foot of page 173		
CI 45	SC 45.2.3.77	P <b>46</b>	L19	# 13		the tal	ble in 149	9.11.4.3.4	at the foot of page 179		
Anslow, Pe	ete	Ciena						9.11.4.4.3	at the foot of page 184		
Comment	Type E	Comment Status A			ΕZ	Response			Response Status C		
		e "Link partner" (lower case   olumn (4 instances)	p in partner) in th	ne title of Table 45-24	44b	ACCE		<b>F F 0 7</b>	054	/ 40	" [2
Suggested	dRemedy					C/ 45		5.5.3.7	P <b>54</b>	L <b>13</b>	# 16
Chang	ge "Partner" to "pa	artner" in the title of Table 45	-244b and also i	n the Name column	(4	Anslow, P		_	Ciena		
instand	ces)					Comment		E	Comment Status A	a "aftar Itam D	EZ
Response		Response Status C					Ũ		"after Item RM184" should b		WI190
ACCE	PT.					Suggested In the			change "after Item RM184" t	o "after Item R	M190"
CI <b>45</b>	SC 45.5.3.3	P <b>52</b>	L <b>8</b>	# 14		Response	Ũ		Response Status C		
Anslow, Pe	ete	Ciena				ACCE					
Comment	Туре Е	Comment Status A			ΕZ	//OOL					
		inserting PICS items MM152 ould start at MM205	2 through MM20	4 so the items being							
Suggested	dRemedy										
"Insert 201x) i	ge the editing instr t PICS Items MM2 in the table in 45. nber the PICS iter	205 through MM227 after MM 5.3.3 as follows:"	M204 (inserted b	y IEEE Std 802.3cg-							
Response		Response Status C									
ACCE	PT.										

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

CI 78	SC	78.1.4	P56	L <b>7</b>		# <u>1</u> 7		CI 78	SC	78.2	P <b>56</b>	L <b>49</b>	# <u>1</u> 9	
Anslow, F	Pete		Ciena					Anslow, F	ete		Ciena			
Commen	nt Type	Е	Comment Status	4			ΕZ	Comment	Туре	Е	Comment Status A			EZ
			P802.3cj D2.0 defined					Table	78-2 is	s missing	an ellipsis row at the both	om after the rov	w for 10GBASE-T1	
			g/3/cj/comments/P8023 eed/reach" order using			D.pdf#page=	14	Suggeste	dReme	dy				
1. I	Increasi	ng speed.		0					ole 78-2 ASE-T		ellipsis row with default ru	lling at the botto	om after the row for	
			er of lanes		,			Response	)		Response Status C			
			mental rules address a nations, by convention			ial cases.		ACCE	PT.					
			ecede "Fiber" PHYs (a					CI 78	SC	78.5	P <b>57</b>	L18	# 20	
			t (all else being equal).	0 1	,			Anslow, P	ete		Ciena			
Apply	vina the	se rules n	uts 2.5GBASE-T1 befo	re 2 5GBASE-T	5GBASE-T	1 hefore 5G	BASE-	Comment		Е	Comment Status A			ΕZ
			efore 10GBASE-T.	10 2.0002/102 1,	000,002 1		DITOL		•••		aphs in 78.5 of the base	standard, so the	e additional paragra	ph is
Suggeste	edReme	dv						numb	er 10.					
••		•	truction to:								art with "Case-x of the Pl start with "Case-x in Mul			swhen
			BASE-T1 after 2.5GBA											
			5GBASE-T1 after 5GE v for 10GBASE-T1 after				cb-	Suggeste		•	the set is a tag			
		rows not s				1 43 10110103					struction to: ph in 78.5 as follows:"			
Respons	-		, Response Status	C				For C	ase-3 a	and Case-	4, change:			
ACC	EPT.			-							E-T1 is the same as" the MultiGBASE-T set is		"	
0, 70	00	70.0		1.00		" 10		Response			Response Status C			
CI 78		78.2	P56	L <b>29</b>		# 18		ACCE						
Anslow, I			Ciena											
Commen		Е	Comment Status				ΕZ							
http:/ This Apply	//www.ie defined ying the:	ee802.org the sort o se rules p	P802.3cj D2.0 defined g/3/cj/comments/P8023 rder to be the same as uts 2.5GBASE-T1 before fore 10GBASE-T.	-D2p0-Comment for Table 78-1	ts-Final-byl[	D.pdf#page=								
Suggeste														
Char "Inse 2018 2018	nge the o ert a row 8), insert 8), and ir	editing ins for 2.5GE a row for	truction to: 3ASE-T1 after 2.5GBA 5GBASE-T1 after 5GE v for 10GBASE-T1 afte shown):"	ASE-KR (as inse	erted by IEE	E Std 802.30								
Respons	e		Response Status	C										

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

CI 78 SC 78.5	P <b>57</b>	L <b>26</b>	# <u>2</u> 1	C/ 149 SC 149	.2.2.12.3	P <b>85</b>	L17	# <u>2</u> 4	
Anslow, Pete	Ciena			Anslow, Pete		Ciena			
Comment Type E Comment #66 agains	Comment Status A st P802.3cj D2.0 defined the o	rder of items in T		EZ Comment Type E "149.3.2.3" and "	<i>Commen</i> Figure 149-17" sho	t Status <b>A</b> uld be cross-ref	ferences.		ΕZ
http://www.ieee802.c This defined the sort	org/3/cj/comments/P8023-D2p0 order to be the same as for Taputs 2.5GBASE-T1 before 2.5	0-Comments-Fina able 78-1	al-byID.pdf#page=14	SuggestedRemedy	and "Figure 149-1				
SuggestedRemedy				ACCEPT.	Response				
Change the editing in									
	GBASE-T1 after 2.5GBASE-K> or 5GBASE-T1 after 5GBASE-			C/ 149 SC 149	.3.5	P103	L <b>32</b>	# 25	
2018), and insert a re	ow for 10GBASE-T1 after 10G			Anslow, Pete		Ciena			
(unchanged rows not	,			Comment Type E		t Status A			ΕZ
Response	Response Status C				9–12" should be "a	re shown in Figu	ure 149–12"		
ACCEPT.				SuggestedRemedy					
CI 78 SC 78.5	P <b>57</b>	L <b>38</b>	# 22		s-reference format	-	er"		
Anslow, Pete	Ciena			Response	Response	Status C			
Comment Type T	Comment Status A		E	EE ACCEPT.					
blank.	hrink_tx (max) and Tphy_shrin			C/ 149 SC 149 Anslow, Pete	.4.2.3	P <b>139</b> Ciena	L <b>48</b>	# 26	
	e parameters are 0, then these	e cells should all	contain 0	Comment Type E	Commen	t Status A			ΕZ
SuggestedRemedy Populate the cells for new rows with "0"	r Tphy_shrink_tx (max) and Tp	ohy_shrink_rx (ma	ax) in Table 78-4 for th	e In "less than 2x1 be an en-dash (C	0-10" the "x" should Ctrl-q Shft-p).	be a multiply s	ign (Ctrl-q 0) and	the minus sign sho	
Response	Response Status C			Same issue in 14 SuggestedRemedy	9.11.4.3.3 item PN	IAR1			
ACCEPT IN PRINCI	PLE.			,	0-10" change the ">	" to a multiply s	ign (Ctrl-q 0) and	change the minus	
Implement changes	requested by Graba_3ch_01a_	_0719.pdf.		sign to an en-das Make the same o	sh (Ctrl-q Shft-p). shanges in 149.11.4	1.3.3 item PMAF	₹1	-	
C/ 125 SC 125.1.4	P67	L <b>33</b>	# 23	Response	Response	Status C			
Anslow, Pete	Ciena			ACCEPT.					
Comment Type E The right hand ruling	Comment Status A	Table 125-2 sho		EZ ılt.					
SuggestedRemedy Change the right har	nd ruling for the second headin	g row in Table 12	5-2 to the default.						
Response ACCEPT.	Response Status C								
	ired ER/editorial required GR	languired	T/toobaical E/aditori			Comm	ent ID <b>26</b>	Page 5 of 6	

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

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149	SC 149.4.4.1	P150	L <b>43</b>	# <u>2</u> 7	C/ 149	SC 149.11.	<b>4.1</b> P	172	L <b>28</b>	# <u>3</u> 0	
Anslow, Pete	;	Ciena			Anslow, Pe	ete	Cier	na			
SuggestedRe	:a_mode" shoul e <i>medy</i>	Comment Status A d not be split across two line e" from being split across lir			"Supp	ICS proforma ta ort" column.	<i>Comment Statu</i> ables in 149.11.4.1 d other subclause of th	o not have			EZ 9A
		"pcs_data_mode" and type									
Response ACCEPT	г.	Response Status C			PICS	.11.4.1, every c for items with s	other subclause of the status of: port entry to "Yes [ ]"	e Clause 14	49 PICS and a	llso the Annex 149	A
C/ 149	SC 149.5.2.3.	2 <i>P</i> 158	L <b>29</b>	# 28	"O" ch	ange the Supp	port entry to "Yes [] N ge the Support entry		N/A [ ]"		
Anslow, Pete	9	Ciena					ge the Support entry				
should be	, ified in Clause § e in forest greer	Comment Status A 94.3.12.6.1" should be "as s n font. in Clause 94.3.12.6.2" shou			EZ Response 1" ACCE		Response Statu	s C			
		111 Clause 94.3. 12.0.2 SILUU	iu ve as svecili	EU III 94.3. IZ.0.Z							
SuggestedRe					C/ 149	SC 149.11.4		°174	L <b>3</b>	# 31	
SuggestedRe Change " character On line 3 Response	emedy "as specified in r tag External to 35 change "as s	Clause 94.3.12.6.1" to "as s	specified in 94.3.	12.6.1" and apply the	Anslow, Pe Comment The er Suggested	ete <i>Type</i> <b>E</b> ntries in the su	Cier <i>Comment Statu</i> Ibclause column on p	na //s <b>A</b> age 174 wi	rap across two	lines	EZ
SuggestedRe Change " character On line 3	emedy "as specified in r tag External to 35 change "as s	Clause 94.3.12.6.1" to "as s o the final "1". pecified in Clause 94.3.12.6	specified in 94.3.	12.6.1" and apply the	Anslow, Pe Comment The er Suggested widen	ete <i>Type</i> <b>E</b> ntries in the su <i>dRemedy</i> the subclause of	Cier <i>Comment Statu</i> Ibclause column on p column so that the er	na us <b>A</b> age 174 wi ntries do no	rap across two	lines	EZ
SuggestedRe Change ' character On line 3 Response ACCEPT	emedy "as specified in r tag External to 35 change "as s T. SC <b>149.11.3</b>	Clause 94.3.12.6.1" to "as s o the final "1". pecified in Clause 94.3.12.6	specified in 94.3.	12.6.1" and apply the	Anslow, Pe Comment The er Suggested	ete <i>Type</i> <b>E</b> ntries in the su <i>IRemedy</i> the subclause of	Cier <i>Comment Statu</i> Ibclause column on p	na us <b>A</b> age 174 wi ntries do no	rap across two	lines	EZ
SuggestedRe Change ' charactel On line 3 Response ACCEPT C/ 149 Anslow, Pete Comment Ty	emedy "as specified in or tag External to 35 change "as s T. SC <b>149.11.3</b> epe <b>E</b>	Clause 94.3.12.6.1" to "as s o the final "1". pecified in Clause 94.3.12.6 <i>Response Status</i> <b>C</b> <i>P</i> <b>172</b> Ciena <i>Comment Status</i> <b>A</b>	2" to "as specified in 94.3. .2" to "as specifi	12.6.1" and apply the ed in 94.3.12.6.2" . # 29	Anslow, Pe Comment The er Suggested widen Response	ete <i>Type</i> <b>E</b> ntries in the su <i>IRemedy</i> the subclause of	Cier <i>Comment Statu</i> Ibclause column on p column so that the er <i>Response Statu</i>	na us <b>A</b> age 174 wi ntries do no	rap across two	lines	EZ
SuggestedRe Change " charactel On line 3 Response ACCEPT C/ 149 Anslow, Pete Comment Tyj "AN" and	emedy "as specified in tr tag External to 55 change "as s T. SC <b>149.11.3</b> gpe <b>E</b> d "EEE" appear	Clause 94.3.12.6.1" to "as s o the final "1". pecified in Clause 94.3.12.6 <i>Response Status</i> <b>C</b> <i>P</i> <b>172</b> Ciena <i>Comment Status</i> <b>A</b> in the Status column in 149.	2" to "as specified in 94.3. .2" to "as specifi	12.6.1" and apply the ed in 94.3.12.6.2" . # 29	Anslow, Pe Comment The er Suggested widen Response ACCE	ete <i>Type</i> <b>E</b> ntries in the su <i>dRemedy</i> the subclause of PT. <i>SC</i> <b>149A.5</b>	Cier <i>Comment Statu</i> Ibclause column on p column so that the er <i>Response Statu</i>	na is A age 174 wi ntries do no s C	rap across two	lines two lines.	EZ
SuggestedRe Change " character On line 3 Response ACCEPT C/ 149 Anslow, Pete Comment Ty "AN" and "*EEE" (p	emedy "as specified in tr tag External to 5 change "as s 5. SC 149.11.3 by pe E d "EEE" appear preceded by "*"	Clause 94.3.12.6.1" to "as s o the final "1". pecified in Clause 94.3.12.6 <i>Response Status</i> <b>C</b> <i>P</i> <b>172</b> Ciena <i>Comment Status</i> <b>A</b> in the Status column in 149.	2" to "as specified in 94.3. .2" to "as specifi	12.6.1" and apply the ed in 94.3.12.6.2" . # 29	Anslow, Pe Comment The er Suggested widen Response ACCE EZ CI 149A	ete <i>Type</i> <b>E</b> ntries in the su <i>dRemedy</i> the subclause PT. <i>SC</i> <b>149A.5</b> ete	Cier Comment Statu Ibclause column on p column so that the er Response Statu	na Is A age 174 wi ntries do no s C P192 na	rap across two	lines two lines.	EZ
SuggestedRe Change " character On line 3 Response ACCEPT C/ 149 Anslow, Pete Comment Tyj "AN" and "*EEE" (p SuggestedRe	emedy "as specified in or tag External to 35 change "as s T. SC 149.11.3 expe E d "EEE" appear preceded by "*" emedy	Clause 94.3.12.6.1" to "as s o the final "1". pecified in Clause 94.3.12.6 <i>Response Status</i> <b>C</b> <i>P</i> <b>172</b> Ciena <i>Comment Status</i> <b>A</b> in the Status column in 149.	2" to "as specified in 94.3. .2" to "as specifi	12.6.1" and apply the ed in 94.3.12.6.2" . # 29	Anslow, Pe Comment The er Suggested widen Response ACCE EZ CI 149A Anslow, Pe Comment	ete <i>Type</i> <b>E</b> htries in the su <i>Remedy</i> the subclause PT. SC <b>149A.5</b> ete <i>Type</i> <b>E</b> hnex title is quo	Cier Comment Statu Ibclause column on p column so that the er Response Statu F Cier	na Is A age 174 wi ntries do no s C 192 na Is A	rap across two ot wrap across <i>L</i> 2	lines two lines. # 32	EZ
SuggestedRe Change " character On line 3 Response ACCEPT C/ 149 Anslow, Pete Comment Tyj "AN" and "*EEE" (p SuggestedRe	emedy "as specified in or tag External to 35 change "as s T. SC 149.11.3 expe E d "EEE" appear preceded by "*" emedy	Clause 94.3.12.6.1" to "as so the final "1". pecified in Clause 94.3.12.6 <i>Response Status</i> <b>C</b> <i>P</i> 172 Ciena <i>Comment Status</i> <b>A</b> in the Status column in 149. )	2" to "as specified in 94.3. .2" to "as specifi	12.6.1" and apply the ed in 94.3.12.6.2" . # 29	Anslow, Pe Comment The er Suggested widen Response ACCE EZ CI 149A Anslow, Pe Comment The ar	ete <i>Type</i> <b>E</b> htries in the su <i>dRemedy</i> the subclause of PT. <i>SC</i> <b>149A.5</b> ete <i>Type</i> <b>E</b> hnex title is quo title.	Cier Comment Statu Ibclause column on p column so that the er Response Statu F Cier Comment Statu	na Is A age 174 wi ntries do no s C 192 na Is A	rap across two ot wrap across <i>L</i> 2	lines two lines. # 32	EZ
SuggestedRe Change " charactel On line 3 Response ACCEPT C/ 149 Anslow, Pete Comment Ty/ "AN" and "*EEE" (p SuggestedRe Change "	emedy "as specified in tr tag External to 5 change "as s 5. SC 149.11.3 pe E d "EEE" appear preceded by "*" emedy "AN" and "EEE"	Clause 94.3.12.6.1" to "as so the final "1". pecified in Clause 94.3.12.6 <i>Response Status</i> <b>C</b> <i>P</i> <b>172</b> Ciena <i>Comment Status</i> <b>A</b> in the Status column in 149. )	2" to "as specified in 94.3. .2" to "as specifi	12.6.1" and apply the ed in 94.3.12.6.2" . # 29	Anslow, Pe Comment The er Suggested widen Response ACCE EZ CI 149A Anslow, Pe Comment The ar annex Suggested In the and th "Coup	ete <i>Type</i> <b>E</b> htries in the su <i>dRemedy</i> the subclause of PT. SC <b>149A.5</b> ete <i>Type</i> <b>E</b> hnex title is quo title. <i>dRemedy</i> title of 149A.5, ling attenuation	Cier Comment Statu Ibclause column on p column so that the en Response Statu F Cier Comment Statu oted in four places in the first sentence of	na Is A age 174 wi ntries do no s C 192 na Is A 149A.5.1, t p:	rap across two of wrap across <i>L</i> 2 Ind each should the top row of t	two lines. # 32	EZ
SuggestedRe Change " charactel On line 3 Response ACCEPT C/ 149 Anslow, Pete Comment Ty/ "AN" and "*EEE" (p SuggestedRe Change "	emedy "as specified in tr tag External to 5 change "as s 5. SC 149.11.3 pe E d "EEE" appear preceded by "*" emedy "AN" and "EEE"	Clause 94.3.12.6.1" to "as so the final "1". pecified in Clause 94.3.12.6 <i>Response Status</i> <b>C</b> <i>P</i> <b>172</b> Ciena <i>Comment Status</i> <b>A</b> in the Status column in 149. )	2" to "as specified in 94.3. .2" to "as specifi	12.6.1" and apply the ed in 94.3.12.6.2" . # 29	Anslow, Pe Comment The er Suggested widen Response ACCE EZ CI 149A Anslow, Pe Comment The ar annex Suggested In the and th "Coup	ete <i>Type</i> <b>E</b> ntries in the sub- <i>dRemedy</i> the subclause of PT. <i>SC</i> <b>149A.5</b> ete <i>Type</i> <b>E</b> nnex title is quo- title. <i>dRemedy</i> title of 149A.5, ling attenuation ling and screen	Cier Comment Statu Ibclause column on p column so that the er Response Statu F Cier Comment Statu oted in four places in the first sentence of 5.4 change: n test methodology" to	na Is A age 174 wi ntries do no s C 192 na Is A the PICS a 149A.5.1, t p: methodolog	rap across two of wrap across <i>L</i> 2 Ind each should the top row of t	two lines. # 32	EZ

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

	SC 149A.5.4	P <b>195</b>	L1	# 33	C/ 45 SC	45.2.1.19	8 P41	L <b>8</b>	# <u>36</u>
Anslow, Pe	ete	Ciena			Remein, Duane		Futurewei Teo	hnologies, Inc.	
Comment	Type E	Comment Status A		EZ	Comment Type	TR	Comment Status A		
	on even or odd pag	shed by IEEE (and the 802.3 ges, so there should be no b			"is in offset t two's comple	wo's comp ement nota	1.2314 (SNR) is in "offset bin lement notation". Furthermo tion" (hence the "Must Be Sa	re I could find no i itisfied = YES) wh	reference for "offset
	•	es between clauses					mally described in Wikipedia		
Response ACCEI		Response Status C			SuggestedReme Change "offset two's " offset bina	compleme	nt notation" to		
C/ <b>45</b>	SC 45.2.1.16	P <b>32</b>	L <b>47</b>	# 34	Response		Response Status <b>C</b>		
Remein, D	Juane	Futurewei Te	chnologies, Inc.		ACCEPT.				
Comment	Type ER	Comment Status A		Formatting					
Given	this is a change t	o Table 45-19 the new rows	should be under	lined and the Editing	C/ 149 SC	149	P <b>70</b>	<i>L</i> 1	# 37
	issue Table 45-2	e "Change and insert " 1			Remein, Duane			chnologies, Inc.	
		(ex 45-176) are marked prop	erly.		Comment Type	E	Comment Status A		
Suggested					It is customa Template v3		de an editing Instruction prior	to new clauses a	s noted in the WG
·	omment				SuggestedReme	edy			
Response		Response Status <b>C</b> E.			Insert before "Insert new		9 d corresponding annexes as	follows:"	
ACCE					Response		Response Status C		
	-	lo 45 10 and Table 45 21							
Do the Keep t	e following for Tab	le 45-19 and Table 45-21. tion as is, this is the same a	as the example g	ven. Underline the	ACCEPT.				
Do the Keep t text in	e following for Tab the Editing instruc	tion as is, this is the same a	as the example g	ven. Underline the # 35	ACCEPT.				
Do the Keep t text in C/ 45	e following for Tab the Editing instruc- the added rows. SC <b>45.2.1.19</b>	ction as is, this is the same a	1 0		ACCEPT.				
Do the Keep t	e following for Tab the Editing instruc- the added rows. SC <b>45.2.1.19</b> Duane	ction as is, this is the same a	L9		ACCEPT.				
Do the Keep t text in C/ 45 Remein, D Comment Does t	e following for Tab the Editing instruc- the added rows. SC 45.2.1.195 Duane <i>Type</i> <b>TR</b> the following state	ction as is, this is the same a 5 P <b>39</b> Futurewei Teo	L9 chnologies, Inc.	# 35 EZ n link up the bits in	ACCEPT.				
Do the Keep t text in C/ 45 Remein, Di Comment Does t registe up."	e following for Tab the Editing instruc- the added rows. SC 45.2.1.199 Duane Type TR the following state or 1.2112 are ther	tion as is, this is the same a <b>P39</b> Futurewei Ter <i>Comment Status</i> <b>A</b> ement imply that once the de	L9 chnologies, Inc.	# 35 EZ n link up the bits in	ACCEPT.				
Do the Keep t text in Cl 45 Remein, Di Comment Does t registe up." Suggested Chang "The vi	e following for Tab the Editing instruc- the added rows. SC 45.2.1.199 Duane Type TR the following state or 1.2112 are ther dRemedy ge: values in this regis	tion as is, this is the same a <b>P39</b> Futurewei Ter <i>Comment Status</i> <b>A</b> ement imply that once the de	L9 chnologies, Inc. evice has seen ar in this register ar up." to	# 35 EZ n link up the bits in	ACCEPT.				
Do the Keep t text in CI 45 Remein, Di Comment Does t registe up." Suggested Chang "The vi	e following for Tab the Editing instruc- the added rows. SC 45.2.1.195 Duane Type TR the following state or 1.2112 are ther dRemedy ge: ralues in this regis ralues in this regis	tion as is, this is the same a <b>P39</b> Futurewei Ter <i>Comment Status</i> <b>A</b> ement imply that once the de a valid forever? "The values is ster are not valid until link is	L9 chnologies, Inc. evice has seen ar in this register ar up." to	# 35 EZ n link up the bits in	ACCEPT.				

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 45	SC 45.2.1.196	P <b>40</b>	L30	# <u>3</u> 8	C/ 149	SC 149.5.1	P155	L <b>40</b>	# <u>3</u> 9
arjadrad,	Ramin	Aquantia			Farjadrad,	Ramin	Aquantia		
Comment	Туре Т	Comment Status A		Test Modes	Comment T	Туре Т	Comment Status A		Test Modes
square speed	e wave signal used i test patterns (JP03	e jitter test in 149.5.2.3.1 n BASE-T PHYs and the A & JP03B) used in backp	est in 149.5.2.3. Jane phys. A co	2 is designed for the at- ontrol bit is needed to	multiple	e test patterns.	] The description of test mode		
		ort both tests, and addition	nal language is n	eeded specifying which	Comm	ents tagged JIT	TER TEST MODE should be	treated as a gro	up.
signals	s to use in which tes	IS.			Suggested	Remedy			
Comm	nents tagged JITTEF	R TEST MODE should be	treated as a grou	up.	Change	e the fourth par	agraph of 149.5.1. to read:		
Suggested	Remedy				Test m	ode 2 is for trar	nsmitter jitter testing on MDI w	hen transmitter	is in MASTER timing
0,1 of	register 1.2313 (Tes ), 1.2313.1:0= 01 (J	ows after Reserved row, a st mode control) register b P03A pattern), 1.2313.1:0	ased: 1.2313.1:0	)= 00 (Normal Sqaure		.1:0, as shown	le 2 is enabled, the PHY shall in Table 149-15a, with the trai		
(					Insert 7	Table 149-15a 、	litter test modes after (new) fo	ourth paragraph	of 149.5.1 as follows:
Insert	new subclause 45.2	.1.196.2 as follows:							
4521	.196.2 Jitter test cor	ntrol (1 2313 1·0)				149-15a Jitter te	est modes 313.0   Test Pattern		
		test mode 2, bits 1.2313.	1:0 control the pa	attern of the jitter test	0	0		continuous patt	ern of 16*S {+1}
		smits a square wave from			symbol		6*S {-1} symbols		
		rn, and a value of 1 0 tran	smits the JP03B	spattern. See 149.5.1	0	1	JP03A: a contir	nuous pattern of	JP03A (as specified in
	ore information.				94.2.9. 1	1)	JP03B: a contir	nuous pattern of	JP03B (as specified in
Response		Response Status C			94.2.9.				
ACCE	PT IN PRINCIPLE.				1	1	Reserved		
Impler	ment as proposed bu	ut refer to 149.5.2.3 which	is where the iitte	er tests are defined.	Response		Response Status C		
			· · · · <b>,</b> · ·		ACCEF	PT IN PRINCIP	LE.		
							, 117, 119, 120, 121, and 200 d jitter test modes.	all change the te	ext related to the
					Modify	the text as defi	ned in wienckowski 3ch 02e	0719.pdf	

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC	2 149.5.2.3.1	P <b>158</b>	L16	# 40	Cl 149 SC 149.5.2.3.2 P158 L26	# 41
arjadrad, Rami	n	Aquantia			Farjadrad, Ramin Aquantia	
		mment Status <b>A</b> om jitter test description s available.	n needs to be mo	Test Mode odified to reflect that	Comment Type T Comment Status A [JITTER TEST MODE] Deterministic jitter test description needs to b that there are multiple test patterns available.	Test Modes e modified to reflect
Comments t	tagged JITTER TI	EST MODE should be	reated as a grou	ıp.	Comments tagged JITTER TEST MODE should be treated as a group	ıp.
lggestedReme	edy				SuggestedRemedy	
	itter is measured	5.2.3.1 From: In addition when in test mode 2 ar			Change first sentence of 149.5.2.3.2 from: "Jitter measurements in the performed with the transmitter enabled in Master timing mode with a	local clock."
mode 2 with	the square wave	rement for transmit clo pattern (see Table 14			To: "Jitter measurements in this subclause are performed with the tra Master timing mode in test mode 2, with either the JP03A or JP03B a local clock."	
in Figure 149					Response Response Status C	
esponse	Res	ponse Status C			ACCEPT IN PRINCIPLE.	
transmitter li	inearity and jitter		J. J	xt related to the	Comments 39, 40, 41, 117, 119, 120, 121, and 200 all change the te transmitter linearity and jitter test modes. Modify the text as defined in wienckowski_3ch_02e_0719.pdf.	xt related to the
		vienckowski_3ch_02e_	<u>07 19.</u> pul.		C/ 125 SC 125.1.4 P67 L33	# 42
					Wienckowski, Natalie General Motors	
					Comment Type E Comment Status A Incorrect table border on cell "149"	EZ
					SuggestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outsic	le border.
					Response Response Status C ACCEPT.	
					C/ 45 SC 45.2.1.193.5 P37 L28	# 43
					Wienckowski, Natalie General Motors	
					Comment Type E Comment Status A Missing article.	EZ
					SuggestedRemedy Change: that the polarity of receiver is reversed. To: that the polarity of the receiver is reversed.	
					Response Response Status C ACCEPT.	
	TUS: D/dispatche	editorial required GR/			/general Comment ID 43 written C/closed U/unsatisfied Z/withdrawn	Page 9 of 61 7/17/2019 7:40:1

SORT ORDER: Comment ID

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 45 SC 45.2.3.80.2 P49 L31 # 44	Cl 45 SC 45.5.3.3 P53 L28 # 47
Wienckowski, Natalie General Motors	Wienckowski, Natalie General Motors
Comment Type E Comment Status A E typo	Z Comment Type T Comment Status A E. Incorrect reference
SuggestedRemedy	SuggestedRemedy
Change: PCS receiver is detecting is detecting	Change Subclause from 45.2.1.194.5 to 45.2.1.195.4.
To: PCS receiver is detecting	Response Response Status C
Response Response Status C	ACCEPT.
ACCEPT.	
C/ 45 SC 45.5.3.3 P53 L22 # 45	CI 45 SC 45.5.3.3 P53 L31 # 48
	Wienckowski, Natalie General Motors
Wienckowski, Natalie General Motors	Comment Type T Comment Status A E
Comment Type T Comment Status A Register	S Incorrect reference
PICS for 45.2.194.4 when there is no shall.	SuggestedRemedy
SuggestedRemedy	Change Subclause from 45.2.1.194.5 to 45.2.1.195.5.
Do one of the following: On P38L48 Change "should be set to zero" to "shall be set to zero"	Response Response Status C
OR	ACCEPT.
Delete PICS MM222	
Response Response Status C	CI 45 SC 45.5.3.7 P54 L7 # 49
ACCEPT IN PRINCIPLE.	Wienckowski, Natalie General Motors
On R291 49 Change "about the set to zero" to "about the set to zero"	Comment Type T Comment Status A E
On P38L48 Change "should be set to zero" to "shall be set to zero"	Incorrect reference. This is not what is in P802.3:2018.
CI 45 SC 45.5.3.3 P53 L25 # 46	SuggestedRemedy
Wienckowski, Natalie General Motors	Change Subclause from 45.2.3.172.1 to 45.2.3.172.2.
Comment Type T Comment Status A Register	s Response Response Status <b>C</b>
PICS for 45.2.194.4 when there is no shall.	ACCEPT.
SuggestedRemedy	
Do one of the following:	CI 78 SC 78.2 P56 L50 # 50
On P39L4 Change "should be set to zero" to "shall be set to zero" AND on P53L25 Change	Wienckowski, Natalie General Motors
Subclause from 45.2.1.194.4 to 45.2.1.194.5. OR	Comment Type E Comment Status A E
	Missing bottom row
Delete PICS MM223	
Delete PICS MM223	SuggestedRemedy
	SuggestedRemedy Add row to bottom of table with single column and "" in the cell.
Delete PICS MM223       Response     Response Status	

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

Comment ID 50

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Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.1.3.4	P <b>75</b>	L13	# 51	C/ 149 SC 149.3.5 P103 L31 # 54	
Wienckowski, Natalie	General Motors			Wienckowski, Natalie General Motors	
Comment Type E	Comment Status A		E.	Comment Type E Comment Status A	EZ
fix crooked line				typo	
SuggestedRemedy				SuggestedRemedy	
Make the horizontal line	under "tx_mode" straight.			Change: among raining frame	
Response	Response Status C			To: among training frame	
ACCEPT.				Response Response Status C	
				ACCEPT.	
C/ 149 SC 149.3.2.2.3		L <b>8</b>	# 52	C/ 149 SC 149.3.5 P103 L48 # 55	
Wienckowski, Natalie	General Motors		_	Wienckowski, Natalie General Motors	
Comment Type E	Comment Status A		E.	Comment Type E Comment Status A	EZ
Missing Oxford comma.				Subject verb agreeement	
SuggestedRemedy				SuggestedRemedy	
Change: Contents of blo hexadecimal values.	ock type fields, data octets and	d control chara	acters are shown as	Change: The first 96 bits of the 16th partial PHY frame is	
	pe fields, data octets, and cor	trol character	s are shown as	To: The first 96 bits of the 16th partial PHY frame are	
hexadecimal values.				Response Response Status C	
Response	Response Status C			ACCEPT.	
ACCEPT.					
C/ 149 SC 149.3.2.2.1	5 P94	L <b>4</b> 1	# 53	C/ 149 SC 149.3.9.2.1 P121 L38 # 56	
		L41	# <u>5</u> 3	Wienckowski, Natalie General Motors	
Wienckowski, Natalie	General Motors		_	Comment Type E Comment Status A	EZ
Comment Type T	Comment Status A		E.	typo	
Incorrect reference				SuggestedRemedy	
SuggestedRemedy				Change: full OAM frame can packed into 8 super frames	
Change: In Equation (14 To: In Equation (149-1)	9-3)			To: full OAM frame can be packed into 8 super frames	
Response	Pooponoo Statua C			Response Response Status C	
ACCEPT.	Response Status C			ACCEPT.	
AUGEPT.					

P802.3c	h D2.0	Layer Specification	ns and Mana	agement Parar	meters fo	or Greater T	<sup>-</sup> han 1 Gb/s A	utomotive Ethernet Initial	W		
C/ 149	SC 149.3.9.2.	I P121	L <b>2</b>	# <u>5</u> 7		C/ 149	SC 149.4.2.1	P139	L16	# 60	
Wienckows	ski, Natalie	General Motors				Wienckow	/ski, Natalie	General Motors			
Comment poor al	<i>Type</i> <b>E</b> lignment of lines i	Comment Status A			EZ	<i>Comment</i> missp	<i>Type</i> <b>E</b> elled word, sall -:	Comment Status A			EZ
Suggested	Remedy					Suggested	dRemedy				
	lines/boxes in figuerent line widths.	ure 149-21 so they are proper	ly aligned and	there don't appea	ır to			ASE-T1 PMA sall take no longei T1 PMA shall take no longer	r		
Response		Response Status C				Response	)	Response Status C			
ACCE	PT.					ACCE	PT.				
C/ 149	SC 149.3.9	P <b>120</b>	L <b>23</b>	# 58		C/ 149	SC 149.4.2.2	P <b>139</b>	L <b>32</b>	# 61	)
Wienckows	ski, Natalie	General Motors				Wienckow	/ski, Natalie	General Motors			
Comment unclea	<i>Type</i> <b>T</b> r terminology use	Comment Status A			EZ		<i>Type</i> <b>T</b> lock jitter require	Comment Status A ments are in 149.5.2.3, not 149.	5.2.2.		EZ
	change, at a mini	a minimum, the link partner he mum, the link partner OAM st <i>Response Status</i> <b>C</b>				To: w	hile meeting the the the same change	g the transmit jitter requirements transmit jitter requirements of 14 e on line 36. <i>Response Status</i> <b>C</b>			
C/ 149	SC 149.3.9.2.	13 P125	L <b>38</b>	# 59		C/ 149	SC 149.4.2.4	.8 <i>P</i> 143	L14	# 60	
Wienckows	ski, Natalie	General Motors					/ski, Natalie	General Motors	L 14	# 62	
Comment poor w	51	Comment Status A			EZ	Comment	,	Comment Status A			ΕZ
	e: is required onl	y when the EEE is implement en EEE is implemented.	ed.			Suggestee	dRemedy	rwards" in: Afterwards Oct4 three	ough Oct10		
Response ACCEI	PT.	Response Status C				Response ACCE	PT IN PRINCIPL	Response Status <b>C</b> .E.			
						conne to: "Af	ected, which is se fter initialization,	Oct4 through Oct10 are used to c tting CRCgen in Figure 149–30. the switch is set to CRCgen, as d to compute the CRC16 output	" shown in Figu		

Comment ID 62

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C/ 149	SC 149.4.2.4.8	P143	L15	# 63		C/ 149	SC 149.4.3.1	P <b>149</b>	L <b>27</b>	# 66	
Wienckows	ski, Natalie	General Motors				Wienckow	ski, Natalie	General Motors			
Comment T	<i>Type</i> <b>E</b> essary article	Comment Status A			EZ	<i>Comment</i> It appe	51	Comment Status A "h" and "(t)" are superscripts an	d "T" is a sut	oscript.	EZ
	<i>Remedy</i> e: After all the 7 o ter all 7 octets	octets				-	ye "h" and "(t)" to	normal with "T" as a subscript.			
Response ACCEF	PT.	Response Status C				Response ACCE		Response Status C			
C/ 149	SC 149.4.2.4.1	0 <i>P</i> 144	L <b>25</b>	# 64		C/ 149	SC 149.4.4.1	P151	L <b>25</b>	# 67	
Wienckows		General Motors		" 04			ski, Natalie	General Motors			
Comment		Comment Status A			EZ	Comment Missin Suggested	g return	Comment Status A			EZ
Suggested	Remedy					••	•	the line after "Values:			
	e: PHY Control st HY Control state di	ate diagram state diagram iagram				Response		Response Status C			
Response		Response Status C				ACCE	PT.				
ACCE	PT.					C/ 149	SC 149.4.4.1	P150	L <b>32</b>	# 68	
C/ 149	SC 149.4.2.5	P <b>144</b>	L <b>42</b>	# 65			ski, Natalie	General Motors			
Wienckows	ski, Natalie	General Motors					Type E	Comment Status A			ΕZ
Comment		Comment Status A			ΕZ		g return				
Subjec	t verb agreeemen	t				Suggested	•	the line of the Witching			
Suggested	•							the line after "Values:			
Monito	e: and the Link r state machines b id the Link	pegins monitoring				Response ACCE		Response Status C			
Monito	r state machine be	с с				C/ 149	SC 149.4.4.1	P <b>150</b>	L <b>38</b>	# 69	
Response		Response Status C				Wienckow	ski, Natalie	General Motors			_
ACCE	J.					<i>Comment</i> Missin	<i>Type</i> <b>E</b> g return	Comment Status A			ΕZ
						Suggested Move	•	the line after "Values:			
						Response ACCE		Response Status C			

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.	5.1	P155	L <b>38</b>	# <u>7</u> 0		C/ 149	SC 149.5.2.4	P <b>158</b>	L <b>42</b>	# 73	
Wienckowski, Natalie		General Motor	S			Wienckow	ski, Natalie	General Motors			
Comment Type E	Comme	nt Status R			<i>EZ</i> 2	Comment	Type E	Comment Status A			EZ
Add non-breaking	space in the nur	mber per the IEEE	-SA Style Manua	al.		unnec	essary article				
SuggestedRemedy						Suggested	dRemedy				
Change: 175.781 To: 175.781 25 M							ge: using the test sing test fixture 4				
Response	Respons	e Status C				Response	,	Response Status C			
REJECT.						ACCE	PT.				
The current forma	t is correct per 8	02.3 style for num	bers.			C/ 149	SC 149.5.3.2	P160	L17	# 74	
C/ 149 SC 149.	5.2.3.2	P <b>158</b>	L <b>29</b>	# 71		Wienckow	ski, Natalie	General Motors			
Wienckowski, Natalie		General Motor	s			Comment	Type E	Comment Status A			EZ
Comment Type E	Comme	nt Status A			ΕZ	Missin	ng Oxford comma				
The word "Clause	" doesn't belong	before a subclaus	e reference.			Suggested	dRemedy				
SuggestedRemedy	Ũ							tribution, bandwidths and magr			
Change: Clause 9 reference".	4.3.12.6.1 to 94.	3.12.6.1. Also, "1	" should be mad	le part of the "Ext	ternal	Response		Response Status C			
Response	Respons	e Status C				ACCE	PT.				
ACCEPT.						C/ 149A	SC 149A.2	P <b>189</b>	L <b>26</b>	# 75	
C/ 149 SC 149.	5.2.3.2	P158	L35	# 72		Wienckow	ski, Natalie	General Motors			
Wienckowski. Natalie		General Motor	'S			Comment	Type E	Comment Status A			ΕZ
Comment Type E		nt Status A	-		ΕZ		e IEEE-SA Style sic value and the	Manual, "If tolerances are prov tolerance"	ided, the unit	shall be given with	n both
The word "Clause	doesn't belong	belore a subclaus	e reference.			Suggested	dRemedy				
SuggestedRemedy						After 2	23, add the degre	e symbol and then "C".			
Change: Clause 9	4.3.12.6.2 to 94.	3.12.6.2.				Response		Response Status <b>C</b>			
Response	Respons	e Status C				ACCE	PT.	•			

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149A	SC 149A.3	P189	L <b>31</b>	# <u>7</u> 6	C/ 149	SC	149.3.2.2.16	P <b>97</b>	L <b>49</b>	# 79
Wienckowski	i, Natalie	General Motors			Slavick, J	eff		Broadcom		
Comment Ty	vpe E	Comment Status A			EZ Commen	t Type	TR Com	ment Status R		RS-FEC
unnecess	sary comma						•		or RS Encoder #I	begins and ends with
SuggestedRe	emedy						of m326 for both i	in and out.		
		esentation of the components			Suggeste			the dealers from the sector		
	plified represen	tation of the components that a	are used			ge the m 5 and m3		r both the input and o	output side of RE	SENCODER #L to be
Response	_	Response Status C			Respons		-	onse Status W		
ACCEPT	Г.				REJE		nespe			
C/ 125	SC 125.3	P <b>68</b>	L <b>33</b>	# 77		-				
Wienckowski	i, Natalie	General Motors			The	current in	idex values are co	rrect as it would be I	M326xL-L = M32	5xL.
Comment Ty	vpe E	Comment Status A				50	149.3.2.2.16			# 00
					EZ C/ 149	30	149.3.2.2.10	P <b>97</b>	L <b>21</b>	# 80
Table 12 SuggestedRe Change I	, 25-3 does not m <i>emedy</i> Editorial instruc	tion to be" Replace Table 125 table, which adds 2.5GBASE-	5-3 (as modifie	d by IEEE Std 802.3	Slavick, Slavick, Commen 3cb- The j	eff t <i>Type</i> ohrase "(	T Comr Compared to the n	P <b>97</b> Broadcom <i>ment Status</i> <b>A</b> on-interleaving case		RS-FEC
Table 12 SuggestedRe Change I 2018) wit number f	, 25-3 does not m <i>emedy</i> Editorial instruct th the updated format and alig Table 125-3 to i	atch IEEE802.3's 2018 guidlin	5-3 (as modifie T1 and 5GBAS G editorial guid	d by IEEE Std 802.3 E-T1 and corrects t delines, as follows:"	Slavick, Slavick, Slavick, S Commen 3cb- The j the Suggeste Char of ev as sp every	eff <i>Type</i> ohrase "C <i>dRemed</i> ge "Com ery L me ecified in L mess	T Comm Compared to the nor- ty mpared to the non-i ssage symbols. O in 149.3.2.2.15." to age symbols from	Broadcom ment Status <b>A</b> on-interleaving case interleaving case, ea therwise the RS FEG "When L > 1 each F the superframe, oth	," is not very stra ch RS-FEC enco C encoder opera RS-FEC encoder	RS-FEC
Table 12 SuggestedRe Change I 2018) wit number f Correct T Response	, 25-3 does not m <i>emedy</i> Editorial instruct th the updated format and alig Table 125-3 to i	atch IEEE802.3's 2018 guidlin ction to be" Replace Table 125 table, which adds 2.5GBASE- nment to match IEEE 802.3 W match latest IEEE 802.3 WG e <i>Response Status</i> <b>C</b>	5-3 (as modifie T1 and 5GBAS G editorial guid	d by IEEE Std 802.3 E-T1 and corrects t delines, as follows:"	Slavick, Slavick, Slavick, S Commen 3cb- The j the Suggeste Char of ev as sp every	eff t Type ohrase "C dRemed ge "Com ery L me ecified in t L mess ly the sa	T Comm Compared to the non-i ssage symbols. O n 149.3.2.2.15." to age symbols from ime as specified in	Broadcom ment Status A on-interleaving case, ea interleaving case, ea therwise the RS FEG "When L > 1 each F the superframe, oth o 149.3.2.2.15."	," is not very stra ch RS-FEC enco C encoder opera RS-FEC encoder	RS-FEC aightforward. oder receives one out tes exactly the same receives one out of
Table 12 SuggestedRe Change I 2018) wit number f Correct T Response ACCEPT	25-3 does not m emedy Editorial instruct th the updated format and alig Table 125-3 to 1	atch IEEE802.3's 2018 guidlin ction to be" Replace Table 125 table, which adds 2.5GBASE- nment to match IEEE 802.3 W match latest IEEE 802.3 WG e <i>Response Status</i> <b>C</b>	5-3 (as modifie T1 and 5GBAS G editorial guidelin ditorial guidelin	d by IEEE Std 802.3 E-T1 and corrects t delines, as follows:" nes.	Slavick, Commen 3cb- The p the Suggeste Char of ev as sp every exac	eff t <i>Type</i> hrase "C <i>dRemea</i> ge "Corr ery L me ecified ir L mess ly the sa	T Comm Compared to the non-i ssage symbols. O n 149.3.2.2.15." to age symbols from ime as specified in	Broadcom ment Status <b>A</b> on-interleaving case interleaving case, ea therwise the RS FEG "When L > 1 each F the superframe, oth	," is not very stra ch RS-FEC enco C encoder opera RS-FEC encoder	RS-FEC aightforward. oder receives one out tes exactly the same receives one out of
Table 12 SuggestedRe Change I 2018) wit number f Correct T Response ACCEPT C/ 149	25-3 does not m emedy Editorial instruct th the updated format and alig Table 125-3 to f Γ. SC <b>149.3.2.2</b> .	atch IEEE802.3's 2018 guidlin totion to be" Replace Table 125 table, which adds 2.5GBASE- ment to match IEEE 802.3 W match latest IEEE 802.3 WG e <i>Response Status</i> <b>C</b> <b>15</b> <i>P</i> <b>96</b>	5-3 (as modifie T1 and 5GBAS G editorial guidelin ditorial guidelin	d by IEEE Std 802.3 E-T1 and corrects t delines, as follows:" nes.	Slavick, Commen 3cb-The p the Suggeste Char of ev as sp every exac Respons	eff t <i>Type</i> hrase "C <i>dRemea</i> ge "Corr ery L me ecified ir L mess ly the sa	T Comm Compared to the non-i ssage symbols. O n 149.3.2.2.15." to age symbols from ime as specified in	Broadcom ment Status A on-interleaving case, ea interleaving case, ea therwise the RS FEG "When L > 1 each F the superframe, oth o 149.3.2.2.15."	," is not very stra ch RS-FEC enco C encoder opera RS-FEC encoder	RS-FEC aightforward. oder receives one out tes exactly the same receives one out of
Table 12 SuggestedRe Change I 2018) wit number f Correct T Response ACCEPT C/ 149 Slavick, Jeff Comment Ty	25-3 does not m emedy Editorial instruct th the updated format and alig Table 125-3 to f T. SC 149.3.2.2.	atch IEEE802.3's 2018 guidlin totion to be" Replace Table 125 table, which adds 2.5GBASE- ment to match IEEE 802.3 W match latest IEEE 802.3 WG e <i>Response Status</i> <b>C</b> <b>15</b> <i>P</i> <b>96</b> Broadcom	5-3 (as modifie T1 and 5GBAS G editorial guidelin editorial guidelin	d by IEEE Std 802.3 SE-T1 and corrects t delines, as follows:" nes. # 78	Slavick, Commen 3cb-The p the Suggeste Char of ev as sp every exac <i>Respons</i> ACC	eff t <i>Type</i> hrase "C <i>dRemea</i> ge "Corr ery L me ecified ir L mess ly the sa	T Comm Compared to the non-i ssage symbols. O n 149.3.2.2.15." to age symbols from ime as specified in	Broadcom ment Status A on-interleaving case, ea interleaving case, ea therwise the RS FEG "When L > 1 each F the superframe, oth o 149.3.2.2.15."	," is not very stra ch RS-FEC enco C encoder opera RS-FEC encoder	RS-FEC aightforward. oder receives one out tes exactly the same receives one out of
Table 12 SuggestedRe Change I 2018) wit number f Correct T Response ACCEPT CI 149 Slavick, Jeff Comment Ty Table 14 SuggestedRe	25-3 does not m emedy Editorial instruct th the updated format and alig Table 125-3 to f Γ. SC <b>149.3.2.2.</b> <i>ype</i> <b>E</b> 19-3 spans over emedy	atch IEEE802.3's 2018 guidlin totion to be" Replace Table 125 table, which adds 2.5GBASE- ment to match IEEE 802.3 WG e Response Status C 15 P96 Broadcom Comment Status A	5-3 (as modifie T1 and 5GBAS G editorial guidelii editorial guidelii L1	d by IEEE Std 802.3 E-T1 and corrects t delines, as follows:" nes. # 78 tion on a single pag	Slavick, Commen 3cb-The p the Suggeste Char of ev as sp every exac <i>Respons</i> ACC	eff t <i>Type</i> hrase "C <i>dRemea</i> ge "Corr ery L me ecified ir L mess ly the sa	T Comm Compared to the non-i ssage symbols. O n 149.3.2.2.15." to age symbols from ime as specified in	Broadcom ment Status A on-interleaving case, ea interleaving case, ea therwise the RS FEG "When L > 1 each F the superframe, oth o 149.3.2.2.15."	," is not very stra ch RS-FEC enco C encoder opera RS-FEC encoder	RS-FEC aightforward. oder receives one out tes exactly the same receives one out of

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C/ 149 SC 149.3	. <b>2.2</b> <i>P</i> 87	L <b>48</b>	# 81	C/ FM	SC FM		P <b>10</b>	L <b>50</b>	# <u>8</u> 3	
Slavick, Jeff	Broadcom			Maguire, V	/alerie		The Siemon (	Company		
Comment Type TR	Comment Status A interleave frames is decided upo	on is not defined	Interleaver	Comment Extran	<i>Type</i> <b>E</b> eous comma	Comment	Status A			ΕZ
	s 2-way, other 4-way which do yo									
theres some definit where the shall sho	ion on how to resolve that but I double be).	lon't see any tex	t for that (which is	Suggested Repla	-	ents, and adds" w	vith "amendme	nts and adds".		
SuggestedRemedy				Response		Response	Status C			
	m "which shall be determined" to the appropriate place which defir			ACCE	PT.					
	ields for 5G and 10G operations. fer to new sub-clause			C/ 149	SC 149.3	.6.1	P <b>105</b>	L <b>45</b>	# 84	
Response				Maguire, V	/alerie		The Siemon (	Company		
ACCEPT IN PRINC	Response Status W			Comment	Туре Е	Comment	Status A			EZ
ACCEPT IN PRINC				Use p	referred term	inology for manda	atory criteria.			
	"L is called the interleaving depth			Suggested	Remedy					
"L is called the inte	be determined during the PAM2 t rleaving depth, and the possible requested in each direction of tra-	choices of L are	1, 2, and 4. The			able PHYs must : djust PICS, if nec		ith, "EEE-capable	e PHYs shall	
	the transmitter is determined by			Response		Response	•			
	e InfoField exchange. "	·	5 5	ACCE						
	2.2.16 RS-FEC superframe and erleaver depth L of the transmitte			C/ 149	SC 149.1	.3.4	P <b>74</b>	L15	# 85	
requested by the lin	nk partner during InfoField excha	nge, as specified	d in 149.4.2.4.5."	Maguire, V	/alerie		The Siemon (	Company		
Add new PICS item	PCT16 and renumber subseque	ent PICS:		Comment	Туре Е	Comment	Status A		State Di	agrams
Feature : Interleave	er set to depth setting			Use p	referred term	inology for state d	liagrams.			
Subclause: 149.3.2	2.2.16 depth set to value requested by li	nk portpor during	r infofiald avenage	Suggested	Remedy					
Status: M	iepin sei to value requested by li	nk partner dunni	g inioneiù exchange			chine" with "state				
PICS Editor to upd	ate PICS as necessary.					2-L5, P132-L6, P1 ate diagrams" on I		.10, and P144-L4	3 and replace "st	ate
C/ FM SC FM	P10	L <b>52</b>	# 82	Response		Response	Status C			
	-	-	# 02	ACCE	PT.					
Maguire, Valerie	The Siemon (	Jompany								
Comment Type E 802.3cg is specifie	Comment Status A d for operation over a single bala	nced pair of con	<i>EZ</i> ductors.							
SuggestedRemedy										
Replace, "operation balanced pair of co	n on a single balanced pair coppenductors".	er cable" with "op	peration over a single							
Response	Response Status C									
ACCEPT.										
TYPE: TR/technical rec	uuired FR/editorial required GR/	deneral required	T/technical E/editorial G/o	reneral			Comm	ent ID 85	Page 16	of 61

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

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	<i>y</i> 1		0						
CI 45 SC 45.5.3.7	P <b>55</b>	L <b>4</b>	# 86		C/ FM	SC FM	P19	L <b>34</b>	# 89
Laubach, Mark	Broadcom				Trowbridg	e, Steve	Nokia		
Comment Type E	Comment Status A			ΕZ	Comment	Туре Е	Comment Status A		EZ
"the the"							headings from 149.11.1 onward		with the text. This may
SuggestedRemedy						0	its appeared in a 3rd level head	ang.	
Change to single "the"	1				Suggester		t to provide apage between the	number and th	a taut for these
Response ACCEPT.	Response Status C				headi		at to provide space between the	number and th	e text for these
ACCEPT.					Response	9	Response Status C		
C/ 45 SC 45.5.3.7	P <b>55</b>	L14	# 87		ACCE	EPT IN PRINCI	PLE.		
Laubach, Mark	Broadcom						provided by Pete: Take a fresh		
Comment Type E "the the"	Comment Status A			EZ	In the	left hand pane,	.3ch book open, open the TOC highlight the TOC file from you	file from the ter Ir book. File, Im	nplate. port, Formats, Deselect
					all, ch	eck Paragraph	Formats, Import, OK.		
SuggestedRemedy Change to single "the"					C/ <b>125</b>	SC 125.3	P <b>69</b>	L <b>8</b>	# 90
Response	Response Status <b>C</b>				Trowbridg	e, Steve	Nokia		
ACCEPT.					Comment	Type E	Comment Status A		EZ
. <u></u>							he pause quanta centered in the e left aligned and some are cen		n the 4th column, some
C/ FM SC FM	P <b>1</b>	L18	# 88		Suggeste		e leit alighed and some are cell	licicu	
Trowbridge, Steve	Nokia				•••	•	nent in the columns of Table 12	25-3	
Comment Type E	Comment Status A			EZ2		Ũ			
	her effort that will likely becom y not be sufficiently unique	ie a project for g	reater than 10 Gb/s		Response ACCE	, EPT IN PRINCIF	Response Status <b>C</b> PLE.		
SuggestedRemedy					Some	e as comment #	77		
	2.5 Gb/s, 5 Gb/s, 10 Gb/s ope	eration to make i	t clear that the >10		Same		11.		
Gb/s interfaces are no							ruction to be "Replace Table 12 ed table, which adds 2.5GBASE		
Response	Response Status C						lignment to match IEEE 802.3		
ACCEPT IN PRINCIP	LE.						to match latest IEEE 802.3 WG		
	ard for Ethernet Amendment:Pl ters for Greater Than 1 Gb/s A								
	Ethernet Amendment:Physica ters for 2.5 Gb/s, 5 Gb/s and 1			net."					

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C/ 149	SC 149.3.2.2	.4 P90	L <b>43</b>	# <u>9</u> 1		C/ 149	SC	149.1.1	P <b>70</b>	L <b>37</b>	# <u>9</u> 3
Frowbridg	e, Steve	Nokia				D'Ambrosia	a, John	ו	Futurewei, U.S	S. Subsidiary of	Huawei
Comment	Type E	Comment Status A			ΕZ	Comment 7	Гуре	ER	Comment Status R		Scaling
Many	elements of Figu	re 149-7 don't quite line up							sent scaling parameter is not		
Suggested						that it is		, ,	hout the document on a sear	ch of "5" reveals	so many instances
		Pete Anslow tricks of exact p	pixel position and	d size to get everyth	ning	Suggested	Remed	dv			
to alig						00		o "Scale"			
Response ACCE		Response Status C				Response			Response Status <b>C</b>		
ACCL	11.					REJEC	ст.		,		
C/ 149	SC 149.1.3	P <b>149</b>	L <b>27</b>	# 92			o of S	to roproo	ent the scaling parameter is c	anaiotant with th	o ugo in 802 2ha 2016
D'Ambrosi	a, John	Futurewei, U.	S. Subsidiary of	Huawei					s is where we got it. It's used		
Comment	Type E	Comment Status A			ΕZ	110.1.1	NI		-	-	
in Fig	44-1 (PDF Page	S block in Fig 149-1 is incons 28, Line 37), which includes 4) which also includes the "64	"64B/65B", and	0		The 25 PHY ty	GBAS pes th	at share t	OGBASE-T PHYs described he same PCS, PMA, and MD	I specifications	subject to frequency
Suggested	-	,							s between the 25GMII and the two PHYs, the nomenclature	e XLGMII specifi	cations. In order to
Chang	ge the naming of	the PCS block in Fig 1491 t	to read "64B/65E	RS-FEC PCS"		25G/40	) GBAS	SE-T is us	ed to describe specifications		
Response		Response Status C						PHYS. Ad is used fo	lditionally, for parameters that r scaling.	scale with the F	HYS data rate, the
ACCE	PT.								0.625 and for 40GBASE-T, S	= 1.	
						The 2.5 PHY ty scaling used to	5GBAS pes th . In or o descr	at share t der to effic ribe speci	5GBASE-T PHYs described i he same PCS, PMA, and MD ciently describe the two PHYs fications that apply to both the ters that scale with the PHYs	I specifications s , the nomenclate 2.5GBASE-T a	subject to frequency ure 2.5G/5GBASE-T is ind 5GBASE-T PHYs.

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C/ 149 SC 149.2	.2 P76	L <b>50</b>	# 94	C/ FM SC		P1	L13	# <u>9</u> 6
D'Ambrosia, John	Futurewei, U.S	6. Subsidiary of I	Huawei	Marris, Arthur		Cadence De	sign Systems	
Comment Type E	Comment Status R		Terminology	Comment Type	T Comm	ent Status A		EZZ
The following state MultiGBASE-T1 tra interfaces:	ment is incorrect: nsfers data and control information	on across the fol	lowing four service				oved from "Physic Gb/s Automotive E	al Layer Specifications thernet".
				This is an ament that.	ndment for 2.5 Gb	o/s, 5 Gb/s, and 10	) Gb/s PHYs and t	he title should state
d) Medium depend				Also there is lik also be greater		t for a 25G automo	otive PHY in the fu	ture and this would
SuggestedRemedy				SuggestedRemedy				
interfaces:	nsfers data and control information	on across the fol	lowing three service				arameters for 2.5	Gb/s, 5 Gb/s, and 10
<ul> <li>a) 10 Gigabit Media</li> <li>b) Technology Dep</li> <li>c) PMA service intervice</li> </ul>				Response ACCEPT IN PF		nse Status C		
Response REJECT.	Response Status C						Physical Layer Spe Automotive Ether	
	nt througout 802.3. Service Primitives and Interfaces ant to consider creating a Mainte						cal Layer Specifica 10 Gb/s Automoti	ations and ve Electrical Ethernet."
C/ 1 SC 1.5	P <b>23</b>	L <b>44</b>	# 95					
Marris, Arthur	Cadence Desi	gn Systems						
Comment Type E Delete 1.5 if no nev	Comment Status <b>A</b> vabbreviations are being added		EZ					
SuggestedRemedy Delete 1.5								
Response ACCEPT.	Response Status C							

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<u></u>						00 /5 0 / /0			
CI <b>44</b>	SC 44.1.4.4	P <b>30</b>	L <b>7</b>	# 97	C/ <b>45</b>	SC 45.2.1.18	P33	L12	# 98
Lo, Willia	m	Axonne Inc.			Lo, William		Axonne Inc.		
Commen	t Type TR	Comment Status R		Auto-Negotiation	Comment Ty	vpe TR	Comment Status A		Registers
In Ta 2.5GI Howe	ble 125-2 (page 67 BASE-T1 and 5GE ever there isn't one	for 10GBASE-T1.		ation is optional for both	1.18.4. Note tha	Note that 1.11.1	21.4 are redundant since the 1 states register 1.18 is for auses some issues in that it critera for both 1.18 and 1.2	BASE-T1 ability	
Also	note that autonego	otiation is missing for 10GBA	SE-1 as well.		Novorth	oloce I don't thir	k any other PHY capabilities	s are advertised	twice and I think it is
Suggeste	edRemedy						in one location instead of 2		
Add o row.	column for clause	98 Auto-Negotiation to table	44-1 and put O	in the 10GBASE-T1	SuggestedR				
	to the footnote				Delete c	ontent in page 3	33 lines 11 to 48		
0 = 0	Optional				Response		Response Status C		
		y we can optionally fix this fo tion and put M in the 10GBA		by putting a column for	ACCEP		Ξ.		
Response	e	Response Status C					ASE-T1 abilities from registe ASE-T1 abilities can be four		
Claus also r The c	se 44 does not hav need to add a subo commenter is enco	5.2.4 which summarizes Aut re this. If we add the Auto-N caluse in Clause 44 for this. buraged to submit a commen a new comment can be subr	egotiation Claus	ses to the table we'll e to add this to Clause	1.21.x to add 45.2 When re 10GBAS When re	9 1.18.x and 2.1.16.xx ad as a one, bi SE-T1 PMA type	.18.ab & 45.2.1.18.ab to 45. 1.18.6 indicates that the PM t 1.18.6 indicates that the PM	MA/PMD is able	to operate as a

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C/ <b>45</b>	SC 45.2.1.197	P <b>41</b>	L1	# 99	C/ 149	SC 149.2.2	P <b>78</b>	L <b>32</b>	# 101
Lo, William	1	Axonne Inc.			Lo, William	1	Axonne Inc.		
Comment The inin numbe registe Suggested 2 ways 1) Defi 1.23 Set 1 2) The 12.76	Type <b>T</b> Comm tent of registers 1.2314 and er. However the description ers are described as 16 bits	ent Status <b>A</b> d 1.2315 is to repri- is a little confusin a registers. preference is meth s only. Hence the espectively. to reserved. 0dB is 0x8000. Ad is 0x0100. Note the	g for the uninitiat nod 1. se 2 registers are dd 2 more examp hat this solution is	ed in that these e les where s not	Comment Clause mentic Suggested 1) Pag PMA_ 2) Pag Draw I 3) Pag Need alert_c	Type <b>TR</b> a 149.2.2.12 talks aned in 4 places. <i>Remedy</i> the 78 line 32 add ALERTDETECT. the 79 line 28 a left dotted arrow the 75 figure 149-23 a left dotted line	Comment Status A s about PMA_ALERTDETEC indication(alert_detect) labeled PMA_ALERTDETEC	T.indication	s labeled
Editor <i>Response</i> ACCEI Editor	ng decimal and binary repr has editorial license to wor <i>Respor</i> PT IN PRINCIPLE. to add 2 more examples w dB is 0xFF00 and -12.7dB	rd and format eithe se <i>Status</i> <b>C</b> here		bove.	Response ACCE Make 1. Fig 2. Fig labele 3. Figu	PT IN PRINCIPL the following set ure 149-2 (P75 L ure 149-2 (P75 L d "alert_detect"	of changes (same as comme .30) remove "send_s_sigdet" .33) add dotted arrow line fro 28) add dotted arrow line fror	ent 232) and associated m PMA RECEIV	'E to PCS RECEIVE
Suggested	<i>Type</i> <b>E</b> <i>Comm</i> is no change to this clause	P44 Axonne Inc. ent Status A from 802.3bp so	L <b>50</b> it should not show	# 100 EZ w up in the document.	4. P78 5. Figu PCA F	3 L32 add  "PMA ire 149-4 (P86) a ECEIVE box lab	ALERTDETECT.indication( add dotted up arrow from PM eled "alert_detect" "send_s_sigdet" to "alert_det	A SERVICE INT	

Response

ACCEPT.

Response Status C

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C/ 149	SC 149.3.8.2	P <b>115</b>	L <b>20</b>	# 102	C/ 149	SC 149.3.8.	2 <i>P</i> 116	L13	# 400
Lo, William	30 149.3.8.2	Axonne Inc.	L 20	# 102	Lo, Willian		Z P I I G Axonne		# 103
Comment 7	vpe TR	Comment Status D			EE Comment		Comment Status		PCS
Technic after cla Figure There is slight d Scenar T_TYP When t and the The inte But why Sugges SNR is Suggested Page 1	cally this is really ause 149.3.8.2. 149-16 (page 11) is a corner case t ifferently depend io: E(tx_raw) initially his happens the mimmediately tr ent here is to exit y enter LPI in the st remedy is to pr low.	clause 149.3.7.3 but for som 5) has 3 L transitions into Fig hat makes things behave a li ing on interpretation. This ch = LI at exactly a time lp_low, state machine transitions into ansitions into TX_WM state. LPI when SNR is low. first place when the PHY alr event entering Figure 149-17	ure 149-17 (Pa ttle ugly that pe hange avoids th _snr = true. b TX_L but doe eady knows SN	tate diagrams appear ge 116). cople may implement le corner case. s absolutely nothing NR is low.	s Techn after o The tx frame 149-20 Scena XGMII T_TYF XGMII T_TYF becau Since tx_lpi_ Mean and w	ically this is real lause 149.3.8.2. _lpi_req variable time and then g to get out of sy ric: indicats LPI wh PE(tx_raw) = LI, stops sending I PE(tx_raw) = (C- se tx_alert_start RS frame is not active remains f while with tx_lpi_ e move to SENL	ly clause 149.3.7.3 but e gets stuck true if LPI is oes to something that is rnc. ich causes enter TX_L state (page LPI before end of RS fra	for some reason the s presented on XGN not LPI. This will of 116) me which causes VN state but tx_lpi_ e_done is not asser ne moves from TX_ frame_done will tr o onto SEND_QR s	e state diagrams appears III for less than a full RS cause Figures 149-16 and req never gets set to false ted page 119) WN to TX_C state. igger eventually
(T_TYF <i>Proposed F</i> REJEC	•	!lp_low_snr Response Status <b>C</b>			Hence transn Reme diagra	the EEE transn hit state diagram dy is to delay tra ms in sync.	nit state diagram (page	119) is out of sync	
This co	mment was WIT	HDRAWN by the commenter			Chang lp_low to	116 Figure 149- e _snr +T_TYPE(	17. tx_raw) = (C + D + E + 5 E(tx_raw) = (C + D + E +		tive
					Response ACCE	PT.	Response Status (	:	
					C/ 149	SC 149.1.3.	1 P <b>72</b>	L <b>4</b> 1	# 104
					Lo, Willian	1	Axonne	Inc.	
					Comment "L x 32	••	Comment Status <b>J</b> be corrected as "L x 320	-	Scaling
					Suggested "L x 32	•	be corrected as "L x 320	) / S ns"	
					Response	PT.	Response Status (	;	

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.1.3	P <b>72</b>	L14	# <u>1</u> 05		C/ 149	SC 149.4	4.2.1	P139	L16	# <u>1</u> 08	
.o, William	Axonne Inc.				Lo, William			Axonne Inc.			
Comment Type TR	Comment Status A			OAM	Comment T	ype ER	1	Comment Status A			EZ
	nt whether OAM in-band or out				Туро						
	out-of-band", page 120 line 12	says "In-band"			SuggestedF	Remedy					
SuggestedRemedy	A factor and of here data to here d				Change	e "sall" to "s	shall"				
0 1 0	4 from out-of-band to in-band.				Response			Response Status <b>C</b>			
Response	Response Status C				ACCEP	РТ.					
ACCEPT IN PRINCIP OAM is "out-of-band"	_E.										
	-band" to "out-of-band".				C/ 149	SC 149.4	4.2.4.7	P <b>143</b>	L <b>6</b>	# 109	
					Lo, William			Axonne Inc.			
	Maintenance request for Claus formation is exchanged in-ban			be	<i>Comment T</i> Typo in	<i>ype</i> <b>TR</b> bit index		Comment Status A			EZ
C/ 149 SC 149.3.9.2	P.1 P121	L38	# 106		SuggestedF						
.o, William	Axonne Inc.				U	e "Oct8<1:0		9<1:0>, Oct10<7:0>" to "Oct8	8<7:0>, Oct9<	7:0>, Oct10<7:0>"	
Comment Type E	Comment Status A			ΕZ	Response ACCEP	РТ.		Response Status C			
Grammar						00.440		D. ( 15	/ 00	"	
SuggestedRemedy					C/ 149	SC 149.4	4.2.6	P145	L <b>20</b>	# 110	
Change "can packed i	nto" to "can be packed into"				Lo, William			Axonne Inc.			
Response ACCEPT.	Response Status C				Comment T Missing	<i>Type</i> <b>TR</b> subscript		Comment Status A			ΕZ
					SuggestedF	Remedy					
C/ 149 SC 149.3.9.2	P.1 P122	L <b>28</b>	# 107			e S[7:0] to S					
o, William	Axonne Inc.				Note the	at the n in S	Sn shoi	uld be subscripted.			
Comment Type <b>TR</b> OAM field no longer ha	Comment Status A as parity			EZ	Response ACCEP	PT.		Response Status C			
SuggestedRemedy											
Delete the clause											
	/ will not change										
" and the symbol parity Response	Response Status <b>C</b>										

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149	SC 149.4.2.6	P145	L <b>19</b>	# <u>1</u> 11		C/ <b>45</b>	SC	45.2.1.192.	1 P35	L18	# <u>1</u> 14	
.o, William		Axonne Inc.				Dudek, Mi	ke		Marvell			
Lines 1	istent Sn subscrip	Comment Status A ot style. ubscript the n in Sn where ev	erywhere else		EZ	Suggested	clear w dRemed	ły	Comment Status A GBASE-T1 PMA/PMD		Re	gisters
Suggested	Remedy						•	cific as to wi	nich registers this applie	es to.		
Subsci	ipt the n in Sn in	lines 19 and 20				Response			Response Status C			
Response		Response Status C				ACCE	PINH	PRINCIPLE				
ACCE	PT.								as 45.2.1.1.1 Reset (1.			
C/ 149	SC 149.4.4.1	P <b>151</b>	L <b>7</b>	# 112		Chang To: T	ge: This his action	s action sha on shall set	II set all MultiGBASE-T all PMA/PMD registers	1 PMA/PMD registe to their default state	rs to their default s es.	states.
o, William		Axonne Inc.				C/ 149	SC	149.3.5	P103	L <b>31</b>	# 115	
Comment	51	Comment Status A			ΕZ	Dudek, Mi	ke		Marvell			
		s removed from the state dia ed for the watchdog variable.	grams.			Comment typo	Туре	Е	Comment Status A			ΕZ
Suggested	•						10	1.				
Remov	e the entire parag	graph on PMA_watchdog_sta	itus			Suggested		<i>iy</i> ng" into traiı	ving"			
Response		Response Status C				0		ng into trail	0			
ACCEI	PT.					Response ACCE			Response Status C			
C/ 149	SC 149.4.4.2	P151	L <b>41</b>	# 113		C/ 149	SC	149.5.1	P155	L <b>41</b>	# 116	
.o, William		Axonne Inc.				Dudek, Mi		140.0.1	Marvell		<i>"</i> 110	
Comment		Comment Status A removed in previous drafts bu	it all reference	to this was not also	EZ	Comment		т	Comment Status R		Test	Modes
remove Side no Synchi Suggested Page 1	ed. ote: the maxwait_ onization state di <i>Remedy</i> 51 line 45 - Delet	timer functionality is actually agrams so it is redundant he te maxwait_timer paragraph	in the autoneg re.		анту	Furthe JP03E is use replac J?U w	er work 3 signal d for jitt ced by a /here ?	on PAM4 sy s were too u er testing.	rstems after Claue 94 w in-representative of nor The dual dirac jitter spe t measure of jitter at the bility of interest) and the	mal traffic. Instead cification methodolo probability relevant	ed that the JP03A the PRBS13Q pa gy has also been t to the clause. (C	and attern
		te ", until maxwait_timer expir - Delete paragraph	es			Suggested	dRemed	ły				
Page 1	53 line 13 - Delet	TIMER STREET	ate, delete UC	F arrow and reconr	nect	Replac	ce the r e 120.5.	eference to 11.2.1 and	JP03A and JP03B with change the references i	a reference to PRE n 149.5.2.3.2 as we	S13Q described in	າ sub-
0		te "stop maxwait_timer" in bo te maxwait_timer row	х			Response	,		Response Status C			
Response		Response Status C				REJE	CT.					
ACCEI	РТ.					suffici	ent to c	heck for eve	nal PHY with echo can m/odd jitter. The echo RBS13Q sequence.			
YPE: TR/	technical required	ER/editorial required GR/g patched A/accepted R/rejec	eneral required	T/technical E/edi	itorial G/g	jeneral		atisfied 7/		nment ID 116	Page 24 ( 7/17/2019	

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

7/17/2019 7:40:14 AM

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

01.440	00 440 5 3	D455			01.440	00.1		0455	1.10	"
C/ 149	SC 149.5.1	P155	L <b>5</b> 1	# <u>1</u> 17	C/ 149		49.5.2.2	P157	L <b>46</b>	# <u>1</u> 19
Dudek, Mik	(e	Marvell			Dudek, Mik			Marvell		
Comment 7	Туре Т	Comment Status A		Test Modes	Comment	Гуре	т	Comment Status A		Test Modes
linearity	y test pattern is	systems after Claue 94 was too un-representative of norr arity testing. TThe test metho	nal traffic. Inste	ead the PRBS13Q	for mea that the	asuring existin	SNDR. T	ystems after Claue 94 was The test methodology is de e to Clause 94 required a te	fined in Clause	120D.3.1.6. Note also
Suggested	-						•			
	ce the reference bed in sub-clause	to the transmitter linearity tes e 120.5.11.2.1	st pattern with a	reference to PRBS13Q	Suggested Replac			ology with that from 120D.3	.1.6.	
Response		Response Status C			Response			Response Status C		
ACCEF	PT IN PRINCIPL	.E.			ACCEF	PT IN PI	RINCIPLE			
		117, 119, 120, 121, and 200 d jitter test modes.	all change the t	ext related to the				17, 119, 120, 121, and 200 itter test modes.	all change the to	ext related to the
Modify	the text as defin	ned in wienckowski_3ch_02e	_0719.pdf.		Modify	the text	as define	d in wienckowski_3ch_02e_	_0719.pdf.	
C/ 149	SC 149.5.1.1	P156	L <b>33</b>	# 118	C/ 149	SC 1	49.5.1	P155	L <b>50</b>	# 120
Dudek, Mik	(e	Marvell			Sedarat, He	ossein		Ethernovia		
Comment 7	Type <b>TR</b>	Comment Status A		Test Modes	Comment	Гуре	т	Comment Status A		Test Modes
1pF is signal	only 50 Ohm at	3GHz. This probe will signif	icantly degrade	the performance of the				t, as defined in 149.5.2.2, re the accuracy of the PAM4		
Suggested	Remedy							e the transmit SNDR. Test		
Delete	Figure 149-36 a	nd use Figure 149-38 for the	se tests.					Since the nonlinearity of the 4 levels, the short test patte		
Response		Response Status W						pattern of QPRBS13, as de		
ACCEF	PT IN PRINCIPL	.E.						be more fitting for a 100G-k ctive, more efficient to impl		
The tex	xt above the figu	re states that "equivalent" fix	tures can be us	ed We will remove the	misinte	rpretatio	on of the s	pecifications in another star	ndard.	
		and leave it up to the implem			Suggested	Remedy	/			
Modify	Figure 149-36 a	and delete "with resistance >	10 kOhm and c	apacitance < 1 pF"	as defined to the e	ned in e	quation 94	earity test pattern defined in I-3 and figure 94-6". And in ce: "using ideal PAM4 level	subclause 149.	5.2.2, add the following

Response

ACCEPT IN PRINCIPLE.

Comments 39, 40, 41, 117, 119, 120, 121, and 200 all change the text related to the transmitter linearity and jitter test modes.

Response Status C

Modify the text as defined in wienckowski\_3ch\_02e\_0719.pdf.

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149	SC 149.5.2.2	P157	L <b>46</b>	# <u>1</u> 21	C/ FM	SC FM	P1	L <b>8</b>	# <u>1</u> 22
Sedarat, H	Hossein	Ethernovia			Carlson, S	iteven	High Speed I	Design, Inc; Mar	vell; Robert Bosch
Comment	Туре Т	Comment Status A		Test Modes	Comment	Type E	Comment Status A		EZ
the inp	put noise of the fa	NDR of 31 dB, as defined ar-end receiver with consid noise budget left for the re	lerable impact on o		focuse within	ed on 10 Gb/s a the scope of th	e may cause confusion now th and greater automotive electric ne PAR. See [1] Subclause 4.2	al PHYS. Amen	dment titles must be
Suggested	dRemedy						Board Operations Manual ee.org/develop/policies/opman	/sh om ndf> sta	tes 'Title of Document
		The transmitter shall mee ansmit SNDR, as defined in			The tit	tle on the draft	document and submittal form a proved PAR, or action(s) shall	shall be within th	e scope as stated on
Response	)	Response Status C					4 Otulo monuel		
ACCE	PT IN PRINCIPL	E.					4 Style manual t.standards.ieee.org/myproject	/Public/mvtools/	draft/styleman.pdf> has
		117, 119, 120, 121, and 20 I jitter test modes.	00 all change the te	ext related to the	simila Opera	r text in subcla tions Manual, t	use 9.2 'Title' that reads 'Per 4 the title on the draft document proved PAR.'. The proposed cl	.2.3.2 of the IEE shall be within th	E-SA Standards Board le scope as stated on
Modify	y the text as defir	ed in wienckowski_3ch_0;	2e_0719.pdf.		<https reads</https 	://development 'Is the Title of t	Com check list t.standards.ieee.org/myproject the submitted draft within the S scope of the PAR.		
					Suggested	dRemedy			
					Manaç for Eth	gement Parameter Pa Parameter Parameter Pa	dard for Ethernet Amendment: eters for Greater Than 1 Gb/s nent:Physical Layer Specificati 10 Gb/s Automotive Ethernet	Automotive Ethe	rnet" To: Draft Standard
					Response		Response Status <b>C</b>		

## ACCEPT IN PRINCIPLE.

Change: "Draft Standard for Ethernet Amendment:Physical Layer Specifications]and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet"

To: Draft Standard for Ethernet Amendment:Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s and 10 Gb/s Automotive Electrical Ethernet."

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 45	SC 45.2.3.75	P <b>45</b>	L14	# 123	
Nicholl, Sł	nawn	Xilinx			
Comment	Туре Е	Comment Status A			ΕZ
		nessage data received Seems mis-leading / ir		er, but the descriptior	١
Suggestee	dRemedy				
Repla	ce "transmitted firs	t" with "received first"	for all occurrences	in the table.	
Response	<b>)</b>	Response Status C			
ACCE	PT.				
C/ <b>45</b>	SC 45.2.3.77	P <b>46</b>	L <b>22</b>	# 124	
Nicholl, Sł	nawn	Xilinx			
Suggestee	dRemedy	Seems mis-leading / in		in the table.	
Response	9	Response Status C			
ACCE					
C/ 149	SC 149.3.2.2.1	5 P95	L <b>6</b>	# 125	
Nicholl, Sł	nawn	Xilinx			
Comment	Type E	Comment Status A			ΕZ
menti	on to tx_scrambled	ment containing that n l in the sub-clause. Aling about tx_scrambled.	so, the cross-refer		her
Suggestee	dRemedy				
Remo	ve the statement "	tx_scrambled<3599:0>	is defined in 149.	3.2.2.14."	

Response Status C

Response

ACCEPT.

C/ 149	SC 149	9.3.2.2.16	P <b>95</b>	L <b>45</b>	# 126
Nicholl, Sh	awn		Xilinx		
Comment	Туре Е	Comm	ent Status A		EZ
functio	ns in orde	r. However, 149		01	through the Tx superframe formation
Suggestea	Remedy				

Move sub-clause "149.3.2.2.16 RS-FEC superframe and round robin interleaving" before sub-clause "149.3.2.2.15 Reed Solomon encoder"

Response ACCE		Respon	se Status C		
C/ 149	SC 149.3	.2.2.16	P <b>97</b>	L <b>25</b>	# 127
Nicholl, Sh	awn		Xilinx		
Comment	Туре Е	Comm	ent Status A		RS-FEC

The sentence "The L encoded RS-FEC frames are recombined into an interleaved RS-FEC superframe" and onward talk about functions that happen after RS encoder. I think this text should be in its own section located after RS encoder.

## uggestedRemedy

Propose to add a new sub-clause "RS-FEC Recombine" before "149.3.2.2.17 PCS Scrambler". In the new sub-clause put the text "The L encoded RS-FEC frames are recombined ... " and all that follows it, currently found in 149.3.2.2.16

esponse Response Status C

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149	SC 149.3.2	.2.17	P <b>98</b>	L <b>3</b>	# <u>1</u> 28		C/ 149	SC 149.3.2	2.3.3	P <b>102</b>	L12	# <u>1</u> 29	·
vicholl, Shaw	'n		Xilinx				Nicholl, Sha	wn		Xilinx			
Comment Typ	be E	Comm	ent Status A			PCS	Comment T	ype E	Comm	nent Status A		Inte	terleave
PCS PHY tx_encod	<pre>/ frame or w ed&lt;3599:0&gt;</pre>	hat constitu	ayload of the PCS tes its payload. Th found anywhere e	e sub-clause also	o mentions	fined a	- de-cor - RS-FE		he unscram	ive function is mis bled Rx stream int			
SuggestedRe	-								licaving				
clause 14 text "The	9.3.2.2.16. L encoded I	Propose to RS-FEC frar	9:0> to the output of define the term tx_ mes are recombine r "L x tx_encoded<	_encoded<3599:0 ed into an interlea	0> somewhere a aved RS-FEC		in the T - Rx De	e to add sub- x direction, b -construction	ut in the opp (akin to Tx	Recombine)	valid blocks" that a	are akin to sub-cl	lauses
Response		•	nse Status C							<pre>K FEC encoder) Superframe and ro</pre>	und robin interleav	ring)	
ACCEPT	IN PRINCIP	LE.					Response		Respor	nse Status C			
			the PCS PHY fram				ACCEP	T IN PRINCI	PLE.				
	bled<3599:0 d from the si		dditive scrambler. scrambler"	Two scrambler b	oits per symbol a	re	Change	the text in 14	49.3.2.3 as s	shown in zimmerm	an 3ch 02 0719	pdf.	
To "The to bits, Dn[0	oits of the int ] and Dn[1]	erleaved RS	S-FEC superframe ed using an additiv ts are generated fr	e scrambler. For	each pair of	pair of	-	fig 149-6:					
meneave			is are generated in				change encode		me "RS-FEC	C (360,326) encode	er" to "Interleaver a	and RS-FEC (36	30,326
							change	the encoded	block after t	the encoder to sho	w the L interleave	d encoded block	KS
							change	the RS-FEC	frame at the	end to an RS-FE	C superframe sho	wing L x 1800 sy	ymbols
							Editor to	add note to	Figure that	the case shown is	L=1.		
							and cha	nge fig 149-7	7:				
								the output of J L x 1800 sy		from an RS-FEC	rame to an RS-FE	C superframe	
							change	the block na	me "RS-FEC	C decoder to "De-ir	nterleaver and RS-	FEC decoder"	
							change	the RS-FEC	Decoded fra	ame to show the L	interleaved encoc	ed blocks	
								add note to					

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.4	A.2 P189	L18	# 130	C/ 125 SC 125.3 P68 L30 # 133
Shariff, Masood	CommScope			Grau, Olaf Robert Bosch GmbH
	Comment Status A			Comment Type E Comment Status A Formati Titel on pg 68, Tabel on pg. 69
in Clause 149.7.2 s	not be measured using coupling a shows an illustration for alien cros litional details. There is no referer	s talk measurer	ments and also refers to	SuggestedRemedy Headline and Table shouldn't be separated by a page break
SuggestedRemedy				Response Response Status C
differential link seg	d screening attenuation are the m ment to define its alien crosstalk a on are the main parameters for a	and EMC prope	rties. To: Coupling and	ACCEPT IN PRINCIPLE. The editor will try to move the Heading for 125-3 to the next page with Table 125-3.
its EMC properties				Cl 149 SC 149.3.9.2.1 P122 L13 # 134
Response	Response Status C			Grau, Olaf Robert Bosch GmbH
			<i>"</i>	Comment Type E Comment Status A Bold OAM Bitfield delimiter
C/ 149 SC 149.	-	L <b>8</b>	# 131	SuggestedRemedy
Shariff, Masood	CommScope			Only Bold delimiter for a OAM Superframe field
Comment Type ER Correct standards	Comment Status A specifications avoiding ambiguity.		EZ	Response Response Status C ACCEPT.
SuggestedRemedy				
to the PCB, is not a	ermination resistors inside the co allowed. To: Termination resist to omit the transition to the PCB.			C/         149         SC         149.3.9.2.14         P125         L42         #         135           Grau, Olaf         Robert Bosch GmbH         135         135         135         135         135         135         135         145
Response ACCEPT.	Response Status C			Comment Type E Comment Status A O. Headline: BASE-T1 OAM Frame Acceptance Criteria: Which Speedgrade is mentioned here ?
C/ 149A SC 149A Shariff, Masood	3 P189 CommScope	L <b>32</b>	# 132	SuggestedRemedy MultiGBASE-T1 OAM Frame Acceptance Criteria
Comment Type ER	Comment Status A		EZ	Response Response Status C
Incomplete and an				ACCEPT IN PRINCIPLE.
SuggestedRemedy				Change: BASE-T1 OAM Frame Acceptance Criteria
shielding, in order	sures that connectors and cable a o reach sufficient coupling and on. To: This also ensures that nd shielding, in order to reach suf	connectors and	cable are matched in	To: MultiGBASE-T1 OAM Frame Acceptance Criteria
	nuation.			

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

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.3.2.2	.4 P89	L <b>44</b>	# <u>1</u> 36	C/ 149	SC 149.11	.4.2.1	P <b>173</b>	L <b>5</b>	# <u>1</u> 39	
Wu, Peter	Marvell			Donahue,	Curtis		UNH-IOL			
Comment Type E Some arrows in the dia	Comment Status A gram are too long		E		<i>Type</i> <b>E</b> statement mis		ent Status A ted PICS item			EZ
SuggestedRemedy Need to be aligned				Suggested Insert	-	ry before PC	T1 of Draft 2.0, wit	h the following co	ontent:	
Response ACCEPT.	Response Status C			Subcl	re: PCS Rese ause: 149.3.2. /Comment: De s: M	1	19.3.2.1	C C		
C/ 149 SC 149.3.2.2	.15 P94	L <b>51</b>	# 137	Suppo	ort: Yes[] N/A[]					
Wu, Peter	Marvell			Response	)	Respon	nse Status C			
Comment Type T	Comment Status A		E	Z ACCE	PT.					
The equation is wrong mi,j = tx_RSmessage <	c(359 - i) 10 + j>, i = 0 to 325	, j = 0 to 9. inde	ex out of range	C/ 149	SC 149.11	.4.2.2	P175	L10	# 140	
SuggestedRemedy				Donahue,			UNH-IOL			
It should be changed to mi,j = tx_RSmessage <	o: c(325 - i) 10 + j>, i = 0 to 325	, j = 0 to 9.		Comment Shall	<i>Type</i> <b>E</b> statement mis		ent Status A ted PICS item			EZ
Response	Response Status C			Suggestee	dRemedy					
ACCEPT.				Insert	•		2 of Draft 2.0, with ronization	the following con	itent:	
C/ <b>149</b> SC DiMinico, Christopher	<i>P</i> MC Commun	L	# 138		ause: 149.3.2. /Comment: De		19.3.2.3.1			
, ,	Comment Status A	ICALIONS	Chann	Status						
Comment Type <b>T</b>	acteristics between the Tx Fu	unction and Ry Fi	• • • • • • • • • • • • • • • • • • • •	Cuppe	ort: Yes[] N/A[]					
host PCB are not define				Response ACCE		Respon	nse Status C			
SuggestedRemedy				C/ 149	SC 149.11	.4.2.2	P175	L17	# 141	
	vide information on channel			Donahue,	-		UNH-IOL			
	n to Rx function inclusive of t ble in an implemented syster		DI and link segment	Comment		Comm	ent Status A			ΕZ
-					ect subclause	reference.				
Commentor to provide	draft annex.			Suggestee	dRemedv					
Response	Response Status C			00	ge '149.3.2.3.2	2' to '149.3.2.3	3.3'.			
ACCEPT IN PRINCIPL	E.			Response			nse Status <b>C</b>			
Add Informative Annex license to format correct	149C with the contents of di	minico_3ch_02_	0719.pdf with editorial	ACCE		Respon				

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.11.4 Donahue, Curtis	4.2.7 <i>P</i> 177 UNH-IOL	L16	# 142		C/ 149 SC 149.11.4.3.10 P182 L35 # 145 Donahue, Curtis UNH-IOL	
Comment Type E Typo.	Comment Status A			EZ	Comment Type E Comment Status A Typo.	Ež
SuggestedRemedy Capitalize the 'i' in 'igr	nore' in the Value/Comment fie	eld of PCSL4.			SuggestedRemedy Change 'Expire s97.5' to 'Expires 97.5'	
Response ACCEPT.	Response Status C				Response Response Status C ACCEPT.	
C/ 149 SC 149.11.4		L <b>33</b>	# 143		Cl 149 SC 149.11.4.4.3 P184 L35 # 146	
Donahue, Curtis	UNH-IOL				Donahue, Curtis UNH-IOL	
Comment Type E Shall statement missi	Comment Status A ing associated PICS item			EZ	Comment Type E Comment Status A Update subclause reference	EZ
Feature: Partially tran Subclause: 149.3.9.2. Value/Comment: Des Status: M	.1	th the following co	ontent:		SuggestedRemedy         Change the subclause reference in the Subclause column from '149.5.2.3' to '149.5         for TES12, TES13, TES14, and TES15.         Response       Response Status         C         ACCEPT.	5.2.3.1'
Support: Yes[] N/A[]					C/ 149 SC 149.11.4.4.3 P185 L1 # 147	
Response	Response Status C				Donahue, Curtis UNH-IOL	
ACCEPT.					Comment Type E Comment Status A	EZ
C/ 149 SC 149.11.4	4.3.2 P178	L15	# 144		Shall statement missing associated PICS item	
Donahue, Curtis	UNH-IOL				SuggestedRemedy	
Comment Type E Duplicate PICS entry. SuggestedRemedy	Comment Status A			EZ	Insert new PICS entry after TSE15 of Draft 2.0, with the following content: Feature: DJpk-pk Jitter Subclause: 149.5.2.3.2 Value/Comment: Less than 9/S ps	
Remove PMAT1.					Status: M	
Response	Response Status C				Support: Yes[] N/A[]	
ACCEPT.					Response Response Status C ACCEPT.	

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.11.	4.4.3 <i>P</i> 185	<i>L</i> 1	# 148	C/ 149 SC 149.11.4.5 P186 L20	# 151
Donahue, Curtis	UNH-IOL			Donahue, Curtis UNH-IOL	
Comment Type E Shall statement miss	Comment Status A ing associated PICS item		EZ2	Comment Type E Comment Status A Typo	EZ
SuggestedRemedy Insert new PICS entr Feature: EOJpk-pk J Subclause: 149.5.2.3 Value/Comment: Les	3.2	with the following co	ntent:	SuggestedRemedy Change '5G return loss' to '5GBASE-T1 return loss' Response Response Status C ACCEPT.	
Status: M Support: Yes[] N/A[]	5 than 4/0 p3			C/ 149 SC 149.11.4.5 P186 L22	# 152
Response	Response Status C			Donahue, Curtis UNH-IOL	
ACCEPT.				Comment Type E Comment Status A	EZ2
C/ 149 SC 149.11. Donahue, Curtis	4.4.3 P185 UNH-IOL	L <b>3</b>	# 149	Typo. SuggestedRemedy	
Comment Type E Incorrect dBm values	Comment Status D s in TSE16.		PSD	Change '10G return loss' to '10GBASE-T1 return loss' Response Response Status C	
SuggestedRemedy				ACCEPT.	
-	1.5 dBm', and change '2 d	Bm' to '1.5 dBm'		C/ 149 SC 149.11.4.5 P186 L22	# 153
Proposed Response REJECT.	Response Status C			Donahue, CurtisUNH-IOLComment TypeEComment StatusA	EZ
This comment was V	VITHDRAWN by the comm	nenter.		Typo. SuggestedRemedy	
	4.5 <i>P</i> 186	L18	# 150	Change "Equation (149-21)' to 'Equation (149-22)'	
Donahue, Curtis <i>Comment Type</i> <b>E</b> Typo.	UNH-IOL Comment Status A		EZ	Response Response Status C ACCEPT.	
SuggestedRemedy Change '2.5G return	loss' to '2.5GBASE-T1 ret	urn loss'			
Response ACCEPT.	Response Status C				

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.11	I.4.5 <i>P</i> 186	L <b>29</b>	# 154		C/ 149	SC 149.3.8.2	P <b>118</b>	L <b>7</b>	# 156
Donahue, Curtis	UNH-IOL				Law, David		Hewlett Pack	ard Enterprise	
Comment Type E	Comment Status A			EZ	Comment Ty	/pe T	Comment Status A		E
Shall statement miss	sing associated PICS item						stant assigned to rx_raw in		
SuggestedRemedy						se 149.3.7.2.1 ( se 149.3.7.2. th	Constants', there is howeve at isn't used.	I A LPBLOCK_R	constant defined in
Insert new PICS ent Feature: PSANEXT	try after LSC6 of Draft 2.0, with t	he following conte	ent:		SuggestedR	emedy			
Subclause: 149.7.2. Value/Comment: Se	1						CK_R in the RX_L state to L o LP_BLOCK_R.	PBLOCK_R, or	change LPBLOCK_R in
Status: M Support: Yes[] N/A[]	I				Response		Response Status C		
Response	Response Status <b>C</b>				ACCEP		<u>.</u>		
ACCEPT.					Change	LPBLOCK_R ir	subclause 149.3.7.2.1 to L	.P_BLOCK_R.	
	.4.5 <i>P</i> 186	L <b>29</b>	# 155		C/ 149	SC 149.3.8.2	P118	L <b>13</b>	# 157
Donahue, Curtis	UNH-IOL				Law, David		Hewlett Pack	ard Enterprise	
Comment Type E	Comment Status A			EZ	Comment Ty	/pe T	Comment Status A		E
Shall statement miss	sing associated PICS item				149.3.7.		ant assigned to rx_raw in the there is however an IBLOC d.		
	try after LSC6 of Draft 2.0, with t	he following conte	ent:		SuggestedR	emedy			
Feature: PSAACR-F Subclause: 149.7.2.	2	he following conte	ent:		Either cl	,	C_R in the RX_R state to IBI D I_BLOCK_R.	LOCK_R, or chai	nge IBLOCK_R in
Feature: PSAACR-F Subclause: 149.7.2. Value/Comment: Se Status: M Support: Yes[] N/A[]	- <sup>-</sup> 2 ee Equation (149-26)	he following conte	nt:		Either cl subclaus Response	nange I_BLOCK	o I_BLOCK_R. Response Status <b>C</b>	LOCK_R, or char	nge IBLOCK_R in
Feature: PSAACR-F Subclause: 149.7.2. Value/Comment: Se Status: M Support: Yes[] N/A[]	- <sup>-</sup> 2 ee Equation (149-26)	he following conte	nt:		Either cl subclaus Response ACCEP	hange I_BLOCk se 149.3.7.2.1 tr T IN PRINCIPLE	o I_BLOCK_R. Response Status <b>C</b>		nge IBLOCK_R in
Feature: PSAACR-F Subclause: 149.7.2 Value/Comment: Se Status: M Support: Yes[] N/A[] Response	- <sup>-</sup> 2 ee Equation (149-26)	he following conte	ent:		Either cl subclaus Response ACCEP	hange I_BLOCk se 149.3.7.2.1 tr T IN PRINCIPLE	o I_BLOCK_R. Response Status <b>C</b> E.		nge IBLOCK_R in # 158
Feature: PSAACR-F Subclause: 149.7.2 Value/Comment: Se Status: M Support: Yes[] N/A[] Response	- <sup>-</sup> 2 ee Equation (149-26)	he following conte	nt:		Either cl subclaus Response ACCEP Change	hange I_BLOCK se 149.3.7.2.1 tr T IN PRINCIPLE IBLOCK_R in s	o I_BLOCK_R. <i>Response Status</i> <b>C</b> E. ubclause 149.3.7.2.1 to I_E <i>P</i> 118	BLOCK_R.	
Feature: PSAACR-F Subclause: 149.7.2. Value/Comment: Se Status: M Support: Yes[] N/A[] Response	- <sup>-</sup> 2 ee Equation (149-26)	he following conte	ent:		Either cl subclau: Response ACCEP Change	nange I_BLOCK se 149.3.7.2.1 tr I IN PRINCIPLE IBLOCK_R in s SC 149.3.8.2	o I_BLOCK_R. <i>Response Status</i> <b>C</b> E. ubclause 149.3.7.2.1 to I_E <i>P</i> 118	BLOCK_R.	
Feature: PSAACR-F Subclause: 149.7.2 Value/Comment: Se Status: M Support: Yes[] N/A[] Response	- <sup>-</sup> 2 ee Equation (149-26)	he following conte	ent:		Either cl subclaus Response ACCEP Change C/ 149 Law, David	nange I_BLOCK se 149.3.7.2.1 tr I IN PRINCIPLE IBLOCK_R in s SC 149.3.8.2	o I_BLOCK_R. <i>Response Status</i> <b>C</b> E. ubclause 149.3.7.2.1 to I_E <i>P</i> 118 Hewlett Pack	BLOCK_R.	# 158
Feature: PSAACR-F Subclause: 149.7.2 Value/Comment: Se Status: M Support: Yes[] N/A[] Response	- <sup>-</sup> 2 ee Equation (149-26)	he following conte	ent:		Either cl subclaus Response ACCEP Change Cl 149 Law, David Comment Ty	nange I_BLOCK se 149.3.7.2.1 to T IN PRINCIPLE IBLOCK_R in s SC 149.3.8.2 /pe E	o I_BLOCK_R. <i>Response Status</i> <b>C</b> E. ubclause 149.3.7.2.1 to I_E <i>P</i> 118 Hewlett Pack	BLOCK_R.	# 158
Feature: PSAACR-F Subclause: 149.7.2 Value/Comment: Se Status: M Support: Yes[] N/A[] Response	- <sup>-</sup> 2 ee Equation (149-26)	he following conte	nt:		Cl 149 Law, David Comment Ty SuggestedR Suggets	nange I_BLOCK se 149.3.7.2.1 to T IN PRINCIPLE IBLOCK_R in s SC 149.3.8.2 /pe E /pe E /emedy that 'R_TYPE(i	o I_BLOCK_R. <i>Response Status</i> <b>C</b> E. ubclause 149.3.7.2.1 to I_E <i>P</i> 118 Hewlett Pack	BLOCK_R. <i>L</i> 19 ard Enterprise read 'R_TYPE(r)	# <u>158</u> E x_coded) = I' (add a
Feature: PSAACR-F Subclause: 149.7.2 Value/Comment: Se Status: M Support: Yes[] N/A[] Response	- <sup>-</sup> 2 ee Equation (149-26)	he following conte	nt:		Cl 149 Law, David Comment Ty SuggestedR Suggets	nange I_BLOCK se 149.3.7.2.1 to T IN PRINCIPLE IBLOCK_R in s SC 149.3.8.2 /pe E /pe E /emedy that 'R_TYPE(i	o I_BLOCK_R. <i>Response Status</i> <b>C</b> <u>E</u> . ubclause 149.3.7.2.1 to I_E <i>P</i> 118 Hewlett Pack <i>Comment Status</i> <b>A</b> rx_coded)=I' be changed to	BLOCK_R. <i>L</i> 19 ard Enterprise read 'R_TYPE(r)	# <u>158</u> E x_coded) = I' (add a

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.3	3.8.2	P <b>118</b>	L <b>23</b>	# 159		C/ 149	SC 149.3.8.2		P <b>113</b>	L <b>42</b>	# 162
_aw, David		Hewlett Packa	rd Enterprise			Law, David		F	Hewlett Packa	ard Enterprise	
Comment Type T	Comment S	Status A			EEE	Comment	Туре Е	Comment St	tatus A		
	nt counter incremen state diagram, part					0	e the text ' time f the'.	RFER_BAD_F	RF of the' to	o read ' time th	e RFER_BAD_RF
SuggestedRemedy Define the lpi_rxw_	_err_cnt counter and	d it's use, or de	elete from the RX	_WE state.		Suggested See co	<i>Remedy</i> mment.				
Response ACCEPT IN PRIN	Response S CIPLE.	tatus C				Response ACCEF	PT.	Response Sta	atus C		
Implement solutior	n to comment #173.					C/ 149	SC 149.3.8.2		P <b>113</b>	L <b>46</b>	# 163
In section 149.3.7.	.2.5 (Counters) add	the following d	efinition for lpi rx	w err cnt:		Law, David		F	Hewlett Packa	ard Enterprise	
"lpi_rxw_err_cnt An integer value th	nat counts the numb	er of receive w	vake time faults. I	pi_rxw_err_cnt is		Comment 7 I'm stru	<i>Type</i> <b>T</b> uggling to find the	Comment St e definition of th		T_LIMIT and RFI	<i>RS-F</i> RX_CNT_LIMIT.
			cied in register 5		<i>z</i> ).	Suggested	Remedy				
C/ 149 SC 149.4	4.4.1	P <b>150</b>	L <b>44</b>	# 160				erence to where	RFER_CNT	_LIMIT and RFR	X_CNT_LIMIT are
						defines	1				
,		Hewlett Packa	rd Enterprise			defined					
Comment Type E Typo, 'PCSDATAM	Comment S MODE.indicate' shou .2.2.1 'Classificatior	Status A uld read 'PCSD	DATAMODE.indic	ation', see IEEE	<i>EZ</i> Std	Response	PT IN PRINCIPL	Response Sta E.	atus C		
Comment Type E Typo, 'PCSDATAM 802.3 subclause 1	Comment S MODE.indicate' shou	Status A uld read 'PCSD	DATAMODE.indic	ation', see IEEE		Response ACCEF Comm A cross	PT IN PRINCIPLI ent 282 adds the	E. se definitions. Id not be neede		efinitions will be a	a few pages before th
Comment Type E Typo, 'PCSDATAM 802.3 subclause 1. SuggestedRemedy See comment.	Comment S MODE.indicate' shou	Status <b>A</b> uld read 'PCSD o of service prir	DATAMODE.indic	ation', see IEEE		Response ACCEF Comm A cross	PT IN PRINCIPLI ent 282 adds the s reference shou	E. se definitions. Id not be neede		efinitions will be a	
Comment Type E Typo, 'PCSDATAM 802.3 subclause 1 SuggestedRemedy See comment.	Comment S MODE.indicate' shou .2.2.1 'Classification	Status <b>A</b> uld read 'PCSD o of service prir	DATAMODE.indic	ation', see IEEE :		Response ACCEF Comm A cross state d C/ 149	PT IN PRINCIPLI ent 282 adds the s reference shou iagram with the c SC 149.3.8.2	E. se definitions. Id not be neede other variables.	ed as these de	L <b>3</b>	a few pages before th # 164
comment Type E Typo, 'PCSDATAM 802.3 subclause 1 uggestedRemedy See comment. esponse ACCEPT.	Comment S MODE.indicate' shou .2.2.1 'Classification Response S	Status <b>A</b> uld read 'PCSD o of service prir	DATAMODE.indic			Response ACCEF Comm A cross state d	PT IN PRINCIPLI ent 282 adds the s reference shou iagram with the o SC 149.3.8.2	E. se definitions. Id not be neede other variables.	ed as these de P114 Hewlett Packa		
omment Type E Typo, 'PCSDATAM 802.3 subclause 1 uggestedRemedy See comment. esponse ACCEPT. / 149 SC 149.3	Comment S MODE.indicate' shou .2.2.1 'Classification Response S 3.8.2	Status A uld read 'PCSD n of service prir tatus C P119	DATAMODE.indic mitives'.	ation', see IEEE		Response ACCEF Comm A cross state d C/ 149 Law, David Comment T Subcla	PT IN PRINCIPLI ent 282 adds the s reference shou iagram with the o SC 149.3.8.2 Type T use 149.3.7.2.2	E. Isse definitions. Id not be neede other variables. H <i>Comment St</i> Variables' defin	ed as these de P114 Hewlett Packa tatus A hes pcs_reset	L3 ard Enterprise t as a Boolean va	# 164
Comment Type E Typo, 'PCSDATAM 802.3 subclause 1. SuggestedRemedy See comment. Response ACCEPT. Cl 149 SC 149.3 aw, David	Comment S MODE.indicate' shou .2.2.1 'Classification Response S 3.8.2	Status <b>A</b> uld read 'PCSD n of service prir tatus <b>C</b> P119 Hewlett Packa	DATAMODE.indic mitives'.		Std	Response ACCEF Comm A cross state d C/ 149 Law, David Comment T Subcla definitie	PT IN PRINCIPLI ent 282 adds the s reference shou iagram with the o SC 149.3.8.2 Type T use 149.3.7.2.2 on of the values,	E. Isse definitions. Id not be neede other variables. H <i>Comment St</i> Variables' defin which I underst	ed as these de P114 Hewlett Packa tatus A nes pcs_reset tand to mean	L3 ard Enterprise t as a Boolean va that the two pos	# 164
Comment Type E Typo, 'PCSDATAM 802.3 subclause 1 SuggestedRemedy See comment. Response ACCEPT. Cl 149 SC 149.3 aw, David Comment Type E	Comment S MODE.indicate' shou .2.2.1 'Classification Response S 3.8.2 Comment S is AND symbol from	Status A uld read 'PCSD n of service prir tatus C P119 Hewlett Packa Status A	DATAMODE.indic mitives'.	# <u>161</u>		Response ACCEF Comm A cross state d C/ 149 Law, David Comment T Subcla definitit true an which s	PT IN PRINCIPLI ent 282 adds the s reference shou iagram with the of <i>SC</i> <b>149.3.8.2</b> <i>Type</i> <b>T</b> use 149.3.7.2.2 ' on of the values, id false. This see states that ' PCS	E. Isse definitions. Id not be neede other variables. <i>Comment St</i> Variables' defin which I underst ms to be confirr Reset sets pcs	P114 P114 Hewlett Packa tatus <b>A</b> hes pcs_reset tand to mean med in subcla c-reset = TRL	<i>L</i> <b>3</b> ard Enterprise t as a Boolean va that the two pos ause 149.3.2.1 'F JE while any of th	# 164
Comment Type E Typo, 'PCSDATAM 802.3 subclause 1 SuggestedRemedy See comment. Cesponse ACCEPT. I 149 SC 149.3 aw, David Comment Type E Delete the spurious SEND_SLEEP to S	Comment S MODE.indicate' shou .2.2.1 'Classification Response S 3.8.2 Comment S is AND symbol from	Status A uld read 'PCSD n of service prir tatus C P119 Hewlett Packa Status A	DATAMODE.indic mitives'.	# <u>161</u>	Std	Response ACCEF Comm A cross state d C/ 149 Law, David Comment T Subcla definitid true an which s in the F	PT IN PRINCIPLI ent 282 adds the s reference shou iagram with the o SC 149.3.8.2 Type T use 149.3.7.2.2 ' on of the values, id false. This see states that ' PCS PCS 64B/65B Tra on ' pcs_reset +	E. Isse definitions. Id not be neede other variables. <i>Comment St</i> Variables' defin which I underst ms to be confirm Reset sets pcs ansmit and rece '. Based on its	P114 P114 Hewlett Packa tatus <b>A</b> hes pcs_reset tand to mean med in subcla preset = TRU pive State dia s use in the op	L3 ard Enterprise t as a Boolean va that the two pos ause 149.3.2.1 'F JE while any of tl grams where the pen arrow entry t	# 164 # 164 ariable with no further sible values default to PCS Reset function' he above' and its u e open arrow entry is to the RFER_MT_INI
Comment Type E Typo, 'PCSDATAM 802.3 subclause 1 SuggestedRemedy See comment. Response ACCEPT. Cl 149 SC 149.3 aw, David Comment Type E Delete the spurious SEND_SLEEP to S SuggestedRemedy	Comment S MODE.indicate' shou .2.2.1 'Classification Response S 3.8.2 Comment S is AND symbol from	Status A uld read 'PCSD n of service prin tatus C P119 Hewlett Packa Status A the end of the	DATAMODE.indic mitives'. <i>L</i> 20 rd Enterprise equation for the	# <u>161</u>	Std	Response ACCER Comm A cross state d C/ 149 Law, David Comment T Subcla definitie true an which s in the F based state ir	PT IN PRINCIPLI ent 282 adds the s reference shou iagram with the o SC 149.3.8.2 Type T use 149.3.7.2.2 ' on of the values, id false. This see states that ' PCS PCS 64B/65B Tra on ' pcs_reset +	E. Isse definitions. Id not be neede other variables. <i>Comment St</i> Variables' defin which I underst ms to be confirm Reset sets pcs ansmit and rece '. Based on its RFER monitors	P114 P114 Hewlett Packa tatus <b>A</b> hes pcs_reset tand to mean med in subcla preset = TRU pive State dia s use in the op	L3 ard Enterprise t as a Boolean va that the two pos ause 149.3.2.1 'F JE while any of tl grams where the pen arrow entry t	# 164 ariable with no further sible values default to PCS Reset function' he above' and its u
Comment Type E Typo, 'PCSDATAM 802.3 subclause 1. SuggestedRemedy See comment. Response ACCEPT. Cl 149 SC 149.3 aw, David Comment Type E Delete the spurious SEND_SLEEP to S SuggestedRemedy Change the text '	Comment S MODE.indicate' shou .2.2.1 'Classification Response S 3.8.2 3.8.2 Comment S SEND_QR.	Status A uld read 'PCSD n of service prin tatus C P119 Hewlett Packa Status A the end of the ad ' * tx_lpi_rea	DATAMODE.indic mitives'. <i>L</i> 20 rd Enterprise equation for the	# <u>161</u>	Std	Response ACCER Comm A cross state d C/ 149 Law, David Comment T Subcla definitie true an which s in the F based state ir	PT IN PRINCIPLI ent 282 adds the s reference shou iagram with the of SC 149.3.8.2 Type T use 149.3.7.2.2 ' on of the values, id false. This see states that ' PCS PCS 64B/65B Tra on ' pcs_reset + n Figure 149–15 ' ' to 'pcs_reset	E. Isse definitions. Id not be neede other variables. <i>Comment St</i> Variables' defin which I underst ms to be confirm Reset sets pcs ansmit and rece '. Based on its RFER monitors	P114 P114 Hewlett Packa tatus <b>A</b> hes pcs_reset tand to mean med in subcla preset = TRU pive State dia s use in the op	L3 ard Enterprise t as a Boolean va that the two pos ause 149.3.2.1 'F JE while any of tl grams where the pen arrow entry t	# 164 # 164 ariable with no further sible values default to PCS Reset function' he above' and its u e open arrow entry is to the RFER_MT_INI
Comment Type E Typo, 'PCSDATAM 802.3 subclause 1. SuggestedRemedy See comment. Response ACCEPT. Cl 149 SC 149.3 aw, David Comment Type E Delete the spurious SEND_SLEEP to S SuggestedRemedy Change the text '	Comment S MODE.indicate' shou .2.2.1 'Classification Response S 3.8.2 Comment S IS AND symbol from SEND_QR. * tx_lpi_req*'. to re	Status A uld read 'PCSD n of service prin tatus C P119 Hewlett Packa Status A the end of the ad ' * tx_lpi_rea	DATAMODE.indic mitives'. <i>L</i> 20 rd Enterprise equation for the	# <u>161</u>	Std	Response ACCER Comm A cross state d C/ 149 Law, David Comment Subcla definitie true an which s in the F based state in = ON +	PT IN PRINCIPLI ent 282 adds the s reference shou iagram with the of SC 149.3.8.2 Type T use 149.3.7.2.2 ' on of the values, id false. This see states that ' PCS PCS 64B/65B Tra on ' pcs_reset + n Figure 149–15 ' ' to 'pcs_reset	E. Isse definitions. Id not be neede other variables. H Comment St Variables' defin which I underst ms to be confirm Reset sets pcs ansmit and rece '. Based on its RFER monitor st t +'.	ed as these de P114 Hewlett Packa tatus A hes pcs_reset tand to mean med in subcla c_reset = TRL hive State diagram	L3 ard Enterprise t as a Boolean va that the two pos ause 149.3.2.1 'F JE while any of tl grams where the pen arrow entry t n' needs to be ch	# 164 # 164 ariable with no further sible values default to PCS Reset function' he above' and its u e open arrow entry is to the RFER_MT_INI
Typo, 'PCSDATAM 802.3 subclause 1. SuggestedRemedy See comment. Response ACCEPT. Cl 149 SC 149.3 .aw, David Comment Type E Delete the spurious SEND_SLEEP to S SuggestedRemedy Change the text ' Response	Comment S MODE.indicate' shou .2.2.1 'Classification Response S 3.8.2 Comment S IS AND symbol from SEND_QR. * tx_lpi_req*'. to re	Status A uld read 'PCSD n of service prin tatus C P119 Hewlett Packa Status A the end of the ad ' * tx_lpi_rea	DATAMODE.indic mitives'. <i>L</i> 20 rd Enterprise equation for the	# <u>161</u>	Std	Response ACCER Comm A cross state d C/ 149 Law, David Comment Subcla definitie true an which s in the F based state in = ON +	PT IN PRINCIPLI ent 282 adds the s reference shoul iagram with the of SC 149.3.8.2 Type T use 149.3.7.2.2 ' on of the values, d false. This see states that ' PCS PCS 64B/65B Tr on ' pcs_reset + n Figure 149–15 ' ' to 'pcs_reset Remedy e 'pcs_reset = Of	E. Isse definitions. Id not be neede other variables. H Comment St Variables' defin which I underst ms to be confirm Reset sets pcs ansmit and rece '. Based on its RFER monitor st t +'.	ed as these de P114 Hewlett Packa tatus A hes pcs_reset tand to mean med in subcla s_reset = TRU eive State diagram s use in the op state diagram	L3 ard Enterprise t as a Boolean va that the two pos ause 149.3.2.1 'F JE while any of tl grams where the pen arrow entry t n' needs to be ch	# 164 # 164 ariable with no further sible values default to PCS Reset function' he above' and its u e open arrow entry is to the RFER_MT_INI

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

Comment ID 164

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P802.3ch D	2.0
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Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149	SC 149.3.8.2	P114	L <b>48</b>	# 165	C/ 149	SC 1	49.3.8.2	P <b>117</b>	L <b>41</b>	# <u>1</u> 68			
Law, David	aw, David Hewlett Packard Enterprise					Law, David Hewlett Packard Enterprise							
Comment Type T Comment Status A RS-FEC					Comment	Туре	Е	Comment Status A			ΕZ		
		dition on the transition from FER monitor state diagram		state to the HI_RFER	Туро.								
Suggested	U				Suggested								
00	,	on the transition from the I	NC_CNT2 state	to the HI_RFER state.				x_coded)= S' be changed to =') on the transition from the			dd a		
Response		Response Status C			Response			Response Status C					
ACCEF	PT IN PRINCIPLE				ACCEI	PT.							
Add "U	ICT" transition con	dition.			C/ <b>45</b>	SC 4	5.2.1.18.a	aa P33	L <b>37</b>	# 169			
C/ 149	SC 149.3.8.2	P115	L <b>5</b>	# 166	Regev, Alo	n		Keysight Tech	nologies				
Law, David	I	Hewlett Packa	rd Enterprise		Comment	Туре	Е	Comment Status A			ΕZ		
Comment	Type E	Comment Status A	·	EZ				ilitiy" in 4 places: titles of cla ntries in the Table of Conter		a and 45.2.1.18.al	b as		
	•	zontally centre align all state	e names.		Suggested	lRemedy	/						
Suggested					change	e all occ	urances o	f "abilitiy" to "ability"					
See co	omment.				Response			Response Status C					
Response ACCEF	PT.	Response Status C			ACCEI	PT.							
C/ 149	SC 149.3.8.2	P117	L <b>28</b>	# 167	C/ <b>45</b>	SC 4	5.5.3.3	P53	L <b>29</b>	# 170			
Law, David		Hewlett Packa		$\pi$ 107	Regev, Alo	n		Keysight Tech	nologies				
Comment		Comment Status A	iu Enterprise	EZ	Comment		Е	Comment Status A			ΕZ		
Comment	51	ed for the each symbols in t	the state diagram		adverti	ising mis	sspelled a	s "advertisingg"					
Sunne	nance on the state				Suggested	lRemedy	/						
		-			change	e "adver	tisingg" to	"advertising"					
mainte	Remedy		Suggest that the two instances of the symbol '=' in symbol font be changed to Airal font.					Response Status C					
mainte Suggested		ances of the symbol '=' in sy	mbol font be cha	anged to Airal font.	•								
mainte Suggested Sugges They a	st that the two inst	E_NEXT =' in the transition			ACCEI								
mainte Suggested Sugges They a	st that the two inst ire used in 'R_TYP on from RX_E to F	E_NEXT =' in the transition			ACCEI								

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ <b>45</b>	SC 45.5.3.7	P <b>55</b>	L <b>4</b>	# 171		C/ 149	SC ·	149.3.7.2.	2 P109	L <b>22</b>	# <u>1</u> 74		
Regev, Alor	n	Keysight Technologies				Regev, Alo	on		Keysight Technologies				
	Comment TypeEComment StatusAEZ"the" is repeated as "the the" in 2 places in the draft				EZ	Comment Type TR Comment Status A EZ "rs-fec_frame_done" should be "rs_fec_frame_done"							
SuggestedRemedy change all occurances of "the the" to "the"					SuggestedRemedy change "rs-fec_frame_done" to "rs_fec_frame_done"								
Response ACCEF	PT.	Response Status C				Response ACCE			Response Status W				
C/ 149	SC 149.4.2.1	P139	L16	# 172		C/ 149	SC ·	149.1.1	P <b>70</b>	L <b>32</b>	# 175		
Regev, Alor						Baggett, T	ïm		Microchip				
	Comment Type         TR         Comment Status         A         EZ           "shall" is misspelled as "sall"         EZ         EZ				EZ	Comment Type E Comment Status A EZ "PHYs" should be possessive as "PHY's"							
Suggestedl change	Remedy e "sall" to "shall"					Suggested Chang		•	ate" to "PHY's data rate"				
Response ACCEF	PT.	Response Status W				Response ACCE			Response Status C				
C/ 149	SC 149.3.2.3	P118	L <b>23</b>	# 173		C/ 149	SC <sup>·</sup>	149.1.3.1	P <b>72</b>	L <b>41</b>	# 176		
Regev, Alor	n	Keysight Tech	nologies			Baggett, T	ïm		Microchip				
Comment Type         TR         Comment Status         A         EEE           In figure 149-19, the counter lpi_rxw_err_cnt is used which was not previously defined.         EEE						Comment Type E Comment Status A Scaling The scale factor "S" looks like units (Siemens)							
Suggested	Remedy					Suggested	dRemed	<i>y</i>					
In section 149.3.7.2.5 (Counters) add the following definition for lpi_rxw_err_cnt: "lpi_rxw_err_cnt						Change "L x 320 S ns" to "L x 320 x S ns" (add the multiply operator 'x') as done in other areas of the draft (including line 54 of the same page)							
An integer value that counts the number of receive wake on error conditions. lpi_rxw_err_cnt is reset to zero during PCS_TEST. The counter is reflected in register 3.22 (see 45.2.3.12)."						Response Response Status C ACCEPT IN PRINCIPLE.							
Response ACCEF	Response Response Status W ACCEPT IN PRINCIPLE.					"L x 32	20 S ns"	should be	e corrected as "L x 320 / S ns"				
"lpi_rxw An inte	v_err_cnt ger value that co	Counters) add the following d unts the number of receive w S_TEST. The counter is refle	vake time fault	s. lpi_rxw_err_cnt is									

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149	SC 149.3.2.2	P <b>87</b>	L <b>39</b>	# 177	C/ 149	SC 149.3.2.2	2.15 <i>P</i> 9	4 L <b>52</b>	2 # 180	
Baggett, Ti	m	Microchip			Baggett, Ti	m	Micro	chip		
Comment T	Туре Е	Comment Status A		EZ	Comment	Туре Е	Comment Status	Α		ΕZ
	it would be usefu AM4 symbols.	I to indicate that the block of	f 3600 bits are ei	ncoded into a block of			uld be written a bit mo	ore clear.		
Suggested	Remedv				Suggested					
Change "The 30 PMA." to:	e: 600 bits in this fra	ame are then encoded into F			To: "tx_RS	message <(359 message <(359	θ-i) 10 +j>,i = 0 to 325 θ-i) x 10 +j>, for i = 0 t "x", "for", and "and")		9."	
	ntially to the PMA	ame are then encoded into 1 ."	1800 PAM4 Sym	ools and transferred	Response		Response Status	С		
Response	,	Response Status <b>C</b>			ACCEF	PT IN PRINCIPI	LE.			
ACCEF	PT.						ditorial changes, but ing the first "359" to "		e technical change made by	У
C/ 149	SC 149.3.2.2	P <b>87</b>	L <b>38</b>	# 178	C/ 149B	SC 149B.1	P1	96 L12	2 # 181	
Baggett, Ti	m	Microchip							# 181	
Comment T		Comment Status A		EZ	Baggett, Ti Comment		Micro Comment Status	•		ΕZ
Mispell	ling "fame"					<i>Type</i> <b>E</b> ling: "MutliGBas		A		EZ
Suggested	-					also on line 46				
0	e "FEC fame" to				Suggested	Remedy				
Response	<b>-T</b>	Response Status C			Search	document for "	'MutliGBASE" anre re	place with "MultiG	BASE"	
ACCEF	51.				Response		Response Status	С		
C/ 149	SC 149.3.2.2.	15 P <b>94</b>	L <b>41</b>	# 179	ACCEF	PT.				
Baggett, Ti	m	Microchip								
Comment 7 Referent term.		Comment Status A 49-3 is incorrect. The refere	enced equation d	<i>EZ</i> oes not have an alpha						
		Q-1)"								
Suggested referen	nce "Equation (14	5-1)								
00	ice "Equation (14	Response Status <b>C</b>								

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149B SC 149B.2	.7 P197	L <b>49</b>	# 182	C/ 149 SC 149	.3.2.2.4	P <b>89</b>	L <b>24</b>	# 185
Baggett, Tim	Microchip			Brandt, David		Rockwell Aut	omation	
Comment Type E	Comment Status A		EZ	Comment Type E	Com	ment Status A		EZ
REC hasn't been def parenthesis.	fined yet before this section, and	d would benefit f	from being defined in	•	s arrow ends	on TXD<32> and TX	(D<63>.	
' SuggestedRemedy				SuggestedRemedy Add arrow ends	on TXD<32> ai	nd TXD<63>.		
Change: "REC in OAM<13:12 To: "REC (Receive Error	><7:0>" • Counter) in OAM<13:12><7:0>	n		Response ACCEPT.		onse Status C		
,	,			C/ 149 SC 149	.5.3.1	P <b>160</b>	L11	# 186
Or: add a line referrir	ng the reader to section 149B.2.	9		Brandt, David		Rockwell Aut	omation	
Also on Page 198, Li	ine 4			Comment Type T	Com	ment Status R		Test Modes
Response ACCEPT.	Response Status C				CS, I get FER	= 1e-12 * (800 + 22)		s actual MAC data with ote that 149.5.3.2 does
C/ 149B SC 149B.3	.2.3 P199	L <b>26</b>	# 183	SuggestedRemedy				
Baggett, Tim	Microchip			Please check the	math or desc	ribe better.		
Comment Type E	Comment Status A		EZ	Response	Respo	onse Status <b>C</b>		
Section heading "149 Move to the next page	9B.3.2.3 State Diagrams" is orpl ge.	haned from the	diagrams it contains.	REJECT.				
SuggestedRemedy								e TF can understand uggested remedy in
Move heading "149B 149B-3.	3.3.2.3 State Diagrams" to top of	f page 200 with	diagrams 149B-2 and		es not contain :	sufficient detail so th		derstand the specific
Response ACCEPT.	Response Status C							
C/ 149 SC 149.1.3	B.1 P <b>72</b>	L <b>38</b>	# 184					
Brandt, David	Rockwell Auto	mation						
Comment Type E Missing dashes.	Comment Status A		EZ					
SuggestedRemedy Change: "3260 bit blo To: "3260-bit block",								
Response	Response Status C							

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

	.5.3.2 <i>P</i> 160	L <b>20</b>	# <u>1</u> 87	Cl <b>45</b>	SC 45.2.1.18aa	P <b>33</b>	L3
Brandt, David	Rockwell A	utomation		Brandt, Da	avid	Rockwell Aut	omation
Comment Type T			Test Modes	Comment	Type E Cor	nment Status A	
	nconsistenmt. 149.5.3.1 has "fra			Missp	elling		
	lso be counted as 149.5.3.2 "france for the second se			Suggested	lRemedy		
specified in 149.7			5	Chang	ge: "abilitiy", To: "ability"		
SuggestedRemedy				Response	Res	oonse Status <b>C</b>	
	r the same terminology, packet	sizes and measurer	nent points can be	ACCE	PT.		
used. Response	Response Status C			C/ <b>45</b>	SC 45.2.1.18ab	P33	L <b>4</b>
REJECT.				Brandt, Da		Rockwell Aut	omation
				Comment		nment Status A	
	scription does not contain suffic ges requested by the commenter			Missp			
	es not contain sufficient detail so			Suggested	lRemedv		
changes request	ed by the commenter.			00	ge: "abilitiy", To: "ability"		
C/ 149 SC 149	.9.2.2 P169	L <b>41</b>	# 188	Response	Resi	oonse Status <b>C</b>	
Brandt, David	Rockwell A	utomation		, ACCE	1		
Comment Type T			EMC				
	as 2 shalls that apply to entire p	roducts. The seems	s out of our scope.	C/ <b>45</b>	SC 45.2.3.80.2	P <b>49</b>	L3
SuggestedRemedy				Brandt, Da	avid	Rockwell Aut	omation
,	lls" be replaced with text in the	pirit of the last sent	ence of the paragraph.	Comment Duplic	Type E Cor ate text	nment Status A	
	I", To: "is expected be able to"						
Change1st: "shal Change 2nd: "sha	I", To: "is expected be able to" all be tested", To: "is expected to	allow products to	be tested"	Suggested	Remedy		
Change1st: "shal Change 2nd: "sha Delete: ES4 and	I", To: "is expected be able to" all be tested", To: "is expected to ES5.	allow products to I	be tested"	00	<i>IRemedy</i> ge: "is detecting is detec	ting", To: "is detecting	g"
Change1st: "shal Change 2nd: "sha Delete: ES4 and Response	I", To: "is expected be able to" all be tested", To: "is expected to	o allow products to l	be tested"	00	ge: "is detecting is detec	ting", To: "is detecting	g"
Change1st: "shal Change 2nd: "sha Delete: ES4 and Response REJECT. The devices are	I", To: "is expected be able to" all be tested", To: "is expected to ES5.	. This is a shall in (	other Clauses.	Chang	ge: "is detecting is detec Resp	0	g"
Change1st: "shal Change 2nd: "sha Delete: ES4 and Response REJECT. The devices are The CISPR 25 te	I", To: "is expected be able to" all be tested", To: "is expected to ES5. <i>Response Status</i> <b>C</b> required to meet applicable laws	. This is a shall in (	other Clauses.	Chang Response	ge: "is detecting is detec Resp	0	g" 
Change1st: "shal Change 2nd: "sha Delete: ES4 and Response REJECT. The devices are The CISPR 25 te	I", To: "is expected be able to" all be tested", To: "is expected to ES5. <i>Response Status</i> <b>C</b> required to meet applicable laws st methods are required. It is th	. This is a shall in (	other Clauses.	Chang Response ACCE	e: "is detecting is detec Resp PT. SC <b>45.2.3.80.4</b>	oonse Status C	L4
Change1st: "shal Change 2nd: "sha Delete: ES4 and Response REJECT. The devices are The CISPR 25 te	I", To: "is expected be able to" all be tested", To: "is expected to ES5. <i>Response Status</i> <b>C</b> required to meet applicable laws st methods are required. It is th	. This is a shall in (	other Clauses.	Chang Response ACCE Cl 45 Brandt, Da Comment	e: "is detecting is detec <i>Resp</i> PT. SC <b>45.2.3.80.4</b> avid	P49 Rockwell Aut	L4
Change1st: "shal Change 2nd: "sha Delete: ES4 and Response REJECT. The devices are The CISPR 25 te	I", To: "is expected be able to" all be tested", To: "is expected to ES5. <i>Response Status</i> <b>C</b> required to meet applicable laws st methods are required. It is th	. This is a shall in (	other Clauses.	Chang Response ACCE Cl 45 Brandt, Da Comment	e: "is detecting is detec Resp PT. SC <b>45.2.3.80.4</b> avid Type <b>E</b> Cor iption of non-latched sou	P49 Rockwell Aut	L4
Change1st: "shal Change 2nd: "sha Delete: ES4 and Response REJECT. The devices are The CISPR 25 te	I", To: "is expected be able to" all be tested", To: "is expected to ES5. <i>Response Status</i> <b>C</b> required to meet applicable laws st methods are required. It is th	. This is a shall in (	other Clauses.	Chang Response ACCE Cl 45 Brandt, Da Comment Descr Suggested Chang	e: "is detecting is detec Resp PT. SC <b>45.2.3.80.4</b> avid Type <b>E</b> Cor iption of non-latched sou	P49 Rockwell Aut mment Status A urce is wrong.	L4
Change1st: "shal Change 2nd: "sha Delete: ES4 and Response REJECT. The devices are The CISPR 25 te	I", To: "is expected be able to" all be tested", To: "is expected to ES5. <i>Response Status</i> <b>C</b> required to meet applicable laws st methods are required. It is th	. This is a shall in (	other Clauses.	Chang Response ACCE Cl 45 Brandt, Da Comment Descr Suggested Chang	e: "is detecting is detec Resp PT. SC 45.2.3.80.4 avid Type E Cor iption of non-latched sou <i>Remedy</i> ge: "PCS high BER status	P49 Rockwell Aut mment Status A urce is wrong.	L4

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

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# 189

# 190

# 191

# 192

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C/ 149	SC 149.1.3	P <b>71</b>	L <b>27</b>	# <u>1</u> 93		C/ 149	SC 149.3.9.	3 /	P128	L1	# <u>1</u> 95
Brandt, Dav	vid	Rockwell Auto	omation			Brandt, Da	vid	Ro	ckwell Autom	ation	
Comment 7 PCS la		Comment Status A	Figure 125-1.		ΕZ		I this refer to the	Comment Stat	o OAM Regis		OA. that were edited in
Suggestedl Change	<i>Remedy</i> e: "RS-FEC PCS	5 H				Clause Suggested		-T1? Why do they	need to appe	ar twice?	
_	B/65B RS-FEC							Clause 97 Table 97 or MultiGBASE-T1.	'-6 for the BA	SE-T1 mappir	ngs and then define the
Response ACCEF	PT.	Response Status C				Response ACCEI	PT IN PRINCIP	Response Statu	us C		
C/ <b>149</b> Brandt, Da∖	SC <b>149.3.9</b> vid	P <b>120</b> Rockwell Auto	L20 omation	# 194		P127 L Chang		describes the MDI	O register to	the state diad	rams variable mapping
Comment 7 Missing	51	Comment Status A			EZ	Ū.	able 97-6 and Ta		U	c.	state diagrams variable
	Remedy e: "OAM10-bit" AM 10-bit"					P128 L	-6 rows from "BAS	SE-T1 OAM Messa	ge Valid" thrc	ough "Link Pai	rtner BASE-T1 OAM
Response ACCEF	PT.	Response Status C					-	3.7 through 3.2318.	0 and 3.2319	.15 through 3	.23.19.0.
						Add 3	rows (each cell	in row is on a sepa	rate line due	to width restri	ction of database
						MultiG MultiG 3.2318	BASE-T1 OAM BASE-T1 OAM	-		:	
						MultiG MultiG 3.2319	BASE-T1 OAM BASE-T1 OAM	Ū			
						MultiG MultiG 3.2318	BASE-T1 OAM	status Message 11 status register			

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 45	SC 45.2.1.197	<b>D</b> 40	L <b>53</b>	# 400		SC 149.1.6	070	L <b>43</b>	# 407
		-	L 33	# 196		SC 149.1.6	P <b>76</b>	L <b>43</b>	# 197
Dawe, P	iers	Mellanox			Dawe, Piers		Mellanox		
to mea errou vagu prob Suggest Dele Respons	a register should cor o an accuracy of 0.5 ins (is the PHY sup rs? or) nor is "the ue is not appropriate bably difficult and un edRemedy ete "to an accuracy of	,	on of what "SNR of the signal!? o g to set an accur	operating margin" r infer it from FEC acy on something so	Implemen someone OK. In "The v otherwise Remarks e.g. <1 V	ot a test specif nters (or teste wants to use alues of all co e stated", the " about % toler , and measure	Comment Status A fication. rs) take responsibility for the 2%-accurate equipment and mponents in test circuits sha 'shall" is inappropriate. rance muddy the water: Does ed with 0.1%-accurate equipment is not fit with "conventions in the	d apply appropria all be accurate to s 1 V mean 1 V a ment, is 1.008 V	te guard bands, that's within $\pm$ 1% unless any more? If asked for acceptable?
		ing a previous meeting and t tches MultiGBASE-T PHY's.		ne group was to keep	SuggestedRe	emedy			
	accuracy, which ha					specifications	om here. If any substitute is a, and use the language of a		
					Response		Response Status W		
					ACCEPT	IN PRINCIPL	.E.		
						The values of herwise stated	all components in test circuit d"	ts shall be accura	ate to within ± 1%
					A Mainte may be ir		t is required to remove this th	nrough 802.3. It	is in Clause 97 and

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.2.1	P <b>77</b>	L <b>9</b>	# 198	C/ 149	SC	149.5.1	P155	L <b>41</b>	# <u>2</u> 00
Dawe, Piers	Mellanox			Dawe, Piers	S		Mellanox		
Comment Type TR	Comment Status A		Terminology	Comment 7	Гуре	TR	Comment Status A		Test Modes
Negotiation is optional.	2, Nomenclature and clause The Technology Dependent 't think it has any other purp	Interface is use		back w	hen we	e have mo	these very artificial test path ved on to better methods for ch as 136.		
SuggestedRemedy				Suggestedl	Remea	dy			
Say that the Technology (so, not if it's not)	/ Dependent Interface is req	uired if Auto-Ne	gotiation is implements				y with PRBS13Q, following 1 lake JP03A and JP03B optio		ut jitter and 120D.3.1.2
Response	Response Status W			Response			Response Status W		
ACCEPT IN PRINCIPLE	Ξ.			ACCEF	PT IN F	PRINCIPL	E.		
98.4: To: MultiGBASE-T1 use and control signals acro	signals across the Technologies the following service primits the Technology Dependention, as specified in 98.4:	tives to exchang	ge status indications	other jit Comme transm	tter fou ents 39 itter lin	und by the 9, 40, 41, nearity and	ven/odd jitter. The echo can PRBS13Q sequence. 117, 119, 120, 121, and 200 i jitter test modes. ed in wienckowski_3ch_02e_	all change the t	·
Dawe, Piers	Mellanox			C/ 149	SC	149.5.1.1	P156	L19	# 201
Comment Type TR	Comment Status A th state diagrams - that's cra	ואבב	OAM	Dawe, Piers			Mellanox	_ 10	
	in state diagrams - that's ch	azy:		Comment 7	Гуре	TR	Comment Status A		Test Modes
SuggestedRemedy	ams or change the annex's s	totus to pormat	ive (but entional	Not a te	est spe	ec			
presumably)	and of change the annex's		ive (but optional,	Suggestedl	Remea	dy			
Response	Response Status W			Change	e "shal	l be used"	to "are defined for"		
ACCEPT IN PRINCIPLE	, I.			Response			Response Status W		
Add a new first subclaus	se (149B.1) with all others re	enumbered after		ACCEF	<b>л</b> .				
149B.1 Purpose									
This anney describes a	suggested assignment of th	o OAM status bi	its for use with the						

This annex describes a suggested assignment of the OAM status bits for use with the Clause 149 MultiGBASE-T1 PHYs. Suggested bit behaviors, shown in state diagrams, and bit assignments in the OAM frame are detailed in this annex for informative purposes to enable consistent use of the OAM channel. Use of these specific assignments and the behaviors described by the state diagrams is implementation dependent.

Comment ID 201

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 1	49.5.2	P157	L <b>31</b>	# <u>2</u> 02	C/ 44	SC	44.1.4.4		P <b>30</b>	L <b>7</b>	# 204
Dawe, Piers		Mellanox			Dawe, Pie	rs		I	Mellanox		
Comment Type	TR Co	omment Status A		Test Modes	Comment	Туре	т	Comment S	tatus R		Auto-Negotiation
	transmitter is	by "The PMA shall oper AC coupled? The recei ething else?				ause co	orrelation	-T1 and Clause	98 Auto-Neg	potiation to Table	e 44-1, Nomenclature
SuggestedRemedy	/				00			Clause 98 Auto	-Negotiation	to Table 44-1 N	omenclature and
		s situation) might be use				correla			riogonation		
		e electrical specifications shall be AC-coupled, i.e.		t a high DC common-	Response			Response St	atus C		
mode impedan	ice		•	-	REJE	CT.					
at TP1. There	may be variou	is methods for AC-coupl	ing in actual im	plementations.	Clause	e 125 al	lso has 12	5 2 4 which su	mmarizes Au	to-Neogotiation	or 2.5G and 5G PHYs.
Response		sponse Status W			Clause	e 44 do	es not have	e this. If we ad	d the Auto-N		es to the table we'll
ACCEPT IN PI	RINCIPLE.							aluse in Claus		t to Maintonana	e to add this to Clause
From: The PM	1A shall opera	te with AC-coupling to th	ne MDI.							mitted to ch to a	
To: The cleatri	aal innut ahall	he AC equipled i.e. it a	hall procent a h	ich DC common mode	C/ 149	80	149.11.4.4	1.0	P184	L <b>6</b>	# 005
	the MDI. There	be AC-coupled, i.e., it s e may be various metho			Dawe, Pie		149.11.4.4		P 164 Mellanox	LO	# 205
•					Comment	Туре	TR	Comment S	tatus A		PICS
	49B.2.9	P <b>198</b>	L13	# 203				er electrical spe			
Dawe, Piers		Mellanox					Subclause	e Value/Comme e MDI	ent Status Su	рроп	
<b>,</b>	-	omment Status R		OAM	Suggested						
		d into these two bytes?			•••		another co	omment			
SuggestedRemedy					Response			Response St	atus W		
Which is most	significant by	e and bit?					PRINCIPLE				
Response	Re	sponse Status <b>C</b>									
REJECT.					PICS	Editor to	o have edit	torial license to	update to ma	atch draft.	
The details on	the arrangem	ent of the bits in these b	ytes can be fou	nd in Table 45-244a.				to "Coupling"			
This shows that	at the 8 MSB a	are in 3.2319.15:8, the 8	LSB are in 3.23	319.7:0, and that the	Chang	ge TES1	1 Value/Co	omment to "Op	erate with AC	coupling to the	MDI"
LSB is transmi	tted first.				Chang	e TES2	2 Feature to	to "Resistive di	fferential load	"	
											his clause with a 100 ad is not specified

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149A	SC 149A.1	P <b>189</b>	L12	# <u>2</u> 06	C/ 149	SC 1	149.5.1.1	P156	L19	# 208
Dawe, Piers	s	Mellanox			Dawe, Pie	rs		Mellanox		
Comment 7	Type <b>TR</b>	Comment Status A		149	A Comment	Туре	TR	Comment Status A		Test Mode
	annex describes t no requirement to	he test methodologies that s measure.	hall be used to m	neasure": not a test	Unles	s otherw	ise stated	olution of numerical quantitie numerical limits in this stan	dard are to be	
Suggestedl Change	<i>Remedy</i> e to "may be use	ed".			make	s life mo	re complic	its and trailing zeros having ated, and an attempt to enford d testers can sort out their n	orce test equipn	nent spec is out of
Response		Response Status W			Suggestee	dRemed	v			
ACCEF	PT IN PRINCIPL	Е.			00	-	, ,	resistors shall be +/- 0.1%.	u -	
Change	e: This annex de	escribes the test methodolog	ies that shall be	used to measure	Response ACCE		RINCIPLE	Response Status W		
To: Th	nis annex describ	es the test methodologies us	sed to measure		– P156	1 1 0				
C/ 149A	SC 149A.2	P189	L <b>26</b>	# 207			lerance of	resistors shall be +/- 0.1%.		
Dawe, Piers	S	Mellanox								
Comment 7	Type <b>TR</b>	Comment Status R		149	4 P157	L35				
	n't a test spec. Fured is up the the	Products have to work over a implementer.	much wider rang	ge than this - how that		o end of nce of ±		ragraph: Transmitter electr	ical tests are sp	pecified with a load
	Romody				C/ 149	SC 1	149.3.2.2	P87	L14	# 209
	Remeuy									=00
Suggested	,	to be performed at $23 \pm 5^{\circ}C$	and relative hur	nidity of 25% to 75%."	McClellan	Brett		Marvell		
Suggestedl Delete	"Measurements	to be performed at 23 ± 5°C Response Status W	and relative hum	nidity of 25% to 75%."	McClellan Comment	,	E	Marvell Comment Status A		E
Suggested	"Measurements	•	and relative hun	nidity of 25% to 75%."	Comment	Туре	E nconsister		FEC"	E
Suggested Delete Response REJEC This sp	"Measurements CT. Decification does	•	e. Instead, it defi		Comment "RS_f Suggested	Type FEC" is i dRemed	nconsister	Comment Status A at with other text using "RS-F	FEC"	E

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.3.2.	2.2 P88	L <b>40</b>	# 210		C/ 149	SC 149.3.2.2	2.2	P <b>90</b>	L <b>38</b>	# <u>2</u> 11
McClellan, Brett	Marvell				McClellan,	Brett	Μ	larvell		
Comment Type T	Comment Status A			ΕZ	Comment	Type <b>TR</b>	Comment Sta	atus A		Interleaver
"In addition, the code the incoming PHY bit	enables the receiver to achie	ve PCS synchro	nization alignment o	n	Figure	149–7 does not	t show how the re	ceive path	works with de-inte	rleaving.
Ũ	t. Alignment is found during tr	aining.			Suggested					
SuggestedRemedy						change to the fine final contract of the final contract of the second se	gure to include de	e-interleavin	ig or add a note ir	dicating that this figure
delete this sentence.					Response	•	Response Sta	otus C		
Response ACCEPT.	Response Status C					PT IN PRINCIP	•			
					Chang	e the text in 149	).3.2.2 as shown i	n zimmerm	an_3ch_02_0719	.pdf.
					Chang	e fig 149-6:				
					change encode		e "RS-FEC (360,3	326) encode	er" to "Interleaver	and RS-FEC (360,326)
					Editor	to add note to F	igure that the cas	e shown is	L=1.	
					change	e the encoded b	lock after the enc	oder to sho	w the L interleave	ed encoded blocks
					change	e the RS-FEC fr	ame at the end to	an RS-FE	C superframe sho	wing L x 1800 symbols
					and ch	ange fig 149-7:				
						e the output of fing L x 1800 sym	rame sync from a bols	n RS-FEC 1	frame to an RS-FI	EC superframe
					Editor	to add note to F	igure that the cas	e shown is	L=1.	
					change	e the block nam	e "RS-FEC decoo	ler to "De-ir	nterleaver and RS	-FEC decoder"
					change	e the RS-FEC D	ecoded frame to	show the L	interleaved encod	ded blocks
					C/ 149	SC 149.3.2.2	2.13	P <b>94</b>	L <b>13</b>	# 212
					McClellan,	Brett	Μ	larvell		
					Comment change	51	Comment Sta rambler" to "trans		scrambler"	EZ
					Suggested	Remedy				
					change	e "transcoder/so	rambler" to "trans	coder and	scrambler"	
					Response ACCE	PT.	Response Sta	tus C		
VDE: TD/tochnical roquiu	red ER/editorial required GR	apperal required	d T/technical E/edi	torial C/a	eneral			Comn	nent ID <b>212</b>	Page 45 of 61

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

Comment ID 212

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Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.3.2.2	14 P94	L <b>23</b>	# 213	C/ 149	SC 149.3.	2.2.21	P <b>99</b>	L <b>49</b>	# <u>2</u> 16
McClellan, Brett	Marvell			McClellan,	Brett		Marvell		
Comment Type E	Comment Status A		l	Z Comment	Type <b>TR</b>	Comn	nent Status A		EE
LSB (leftmost element the first transmitted bit.	ncoder shall follow the notat of the vectors x and c) is the ned and need a reference. N	first bit into the F	RS-FEC encoder and	This st <i>Suggested</i>	atement is ur	nclear and lik	LPI characters is ely incorrect about		PCS transmit function,' signal is triggered.
SuggestedRemedy				"In the	transmit dire	ction the trar	sition to the LPI tra		
change "149.3.2.2.2" to	"149.3.2.2.3" c" to "For both x and c (in 1	49.3.2.2.15)"		Solom beginn	on frame. Fol	lowing this e tt superframe	vent the PMA trans to indicate to the	smits the sleep signal signal that it is the set of the	B block of a Reed- gnal starting at the tis transitioning to the
Response	Response Status C						gnal is composed o blocks. Once initiat		omon frames that sleep signal consisting
ACCEPT.							shall be transmitte		
C/ 149 SC 149.3.2.2 McClellan, Brett	15 P94 Marvell	L <b>41</b>	# 214	Response ACCEI	PT IN PRINC		nse Status C		
Comment Type E page 94 line 41 alpha does not appear SuggestedRemedy change "In Equation (1- Response	Comment Status A in equation 149-3. 49–3)," to "In Equation (149- Response Status C	-1),"		Reed-s the beg the LP contair	Solomon fram ginning of the I transmit mo n only LP_IDL	ie. Following next superfr de. The slee .E 64B/65B t	this event, the PN ame to indicate to p signal is compos	IA transmits the s the link partner th ed of eight Reed- ed, the complete	t 64B/65B block of a leep signal starting at hat it is transitioning to Solomon frames that sleep signal consisting
ACCEPT.	Response Status			C/ 149	SC 149.3.	2.2.21	P <b>99</b>	L <b>30</b>	# 217
				McClellan,	Brett		Marvell		
C/ 149 SC 149.3.2.2		L <b>20</b>	# 215	Comment	Туре Т	Comn	nent Status A		EE
McClellan, Brett Comment Type ER Using m as the variable confusing to the reader	Marvell <i>Comment Status</i> <b>R</b> for frame message and su	perframe messag	<i>Terminolo</i> e bits may be	yy This er the XG	ror condition	is defined as		ny characters oth	rror condition occurs. er than LPI or IDLE at LE'
same issue for p				Suggested	Remedy				
SuggestedRemedy Define and use another parity bits.	variable for superframe me	ssage bits and al	so for superframe	occurs					if an error condition cters other than LPI or
Response	Response Status <b>C</b>			Response		Respo	nse Status <b>C</b>		
REJECT.				ACCEI	PT.				
The commenter does n used for variables.	ot explain why this may be o	confusing. Single	letters are regularly						
	gested remedy provided by	(h							

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

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

	440.0.0.0.04		1.00	# 218		C/ 149 SC	440 0 0 0		1 107	# 000
Cl 149 SC 1 McClellan, Brett	149.3.2.2.21	P <b>99</b> Marvell	L <b>33</b>	# 218		McClellan, Brett	149.3.2.3	P <b>10</b> <sup>.</sup> Marvell		# 222
	E Comr	ment Status A			EZ		Е	Comment Status		Р
Comment Type "After the alert	E Comr t signal," is unclea				EZ		aining fram		n every 450 PAM2	r symbols, which is aligned
SuggestedRemedy change "After		o "After transmitting	, the alert signal,	1		SuggestedReme	•	T frame boundary is	unciear	
Response	Respo	nse Status C				0		ining frame includes PCS partial PHY fra	•	very 450 PAM2 symbols,
ACCEPT.						Response		Response Status	C	
	149.3.2.2.21	P <b>99</b>	L <b>36</b>	# 219		ACCEPT.				
McClellan, Brett		Marvell				Cl 149 SC	149.3.2.3	P10	1 L <b>3</b> 1	# <u>2</u> 23
Comment Type		nent Status A			EZ	McClellan, Brett		Marvell		
"Lpi_wake_tim	ne" is a variable ar	nd should not be cap	pitalized			Comment Type	TR	Comment Status	<b>A</b>	E
SuggestedRemedy	ly vake_time" to "Ipi_	wake_time"				successfully	completed	pability support transit training and pcs_data ill not be asserted unt	_mode is TRUE."	
change "Lpi_w						-0.1.7 States			ii one second alter	link is up.
0 1 -	Respo	nse Status C				Suggastad	du			
0 1 -	Respo	nse Status C				SuggestedReme	-	ith the EEE canability	support transition	to the I PI mode when the
Response ACCEPT.	Respo	nse Status C	L41	# 220		change text t	to "PHYs w ccessfully c	ompleted training and		to the LPI mode when the s TRUE and subject to the
Response ACCEPT. Cl 149 SC 1	149.3.2.2.21	P <b>99</b> Marvell	L41	# 220		change text t PHY has suc	to "PHYs w ccessfully c	ompleted training and	pcs_data_mode is	
Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type	149.3.2.2.21 TR Comr	P <b>99</b>			EZ	change text t PHY has suc timing require	to "PHYs w ccessfully c	ompleted training and 5.1.7."	pcs_data_mode is	
Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type "Ipi_wake_time	149.3.2.2.21 TR Comr er" is not a defined	P <b>99</b> Marvell nent Status A			EZ	change text t PHY has suc timing requir <i>Response</i> ACCEPT.	to "PHYs w ccessfully c	ompleted training and 5.1.7."	pcs_data_mode is	
Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type "lpi_wake_time SuggestedRemedy	149.3.2.2.21 TR Comr er" is not a defined	P <b>99</b> Marvell nent Status <b>A</b> d variable. Is this su			EZ	change text t PHY has suc timing requir <i>Response</i> ACCEPT.	to "PHYs w ccessfully c ement of 46	ompleted training and 5.1.7." <i>Response Status</i>	pcs_data_mode is	s TRUE and subject to the
Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type "lpi_wake_time SuggestedRemedy change lpi_wa	149.3.2.2.21 TR Comm er" is not a defined by ake_timer to lpi_tx_	P99 Marvell <i>ment Status</i> A d variable. Is this su _wake_timer			EZ	Change text f PHY has suc timing require Response ACCEPT.	to "PHYs w ccessfully c ement of 46	ompleted training and 5.1.7." Response Status	pcs_data_mode is	s TRUE and subject to the
Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type "lpi_wake_time SuggestedRemedy change lpi_wa	149.3.2.2.21 TR Comm er" is not a defined by ake_timer to lpi_tx_	P <b>99</b> Marvell nent Status <b>A</b> d variable. Is this su			EZ	change text f PHY has suc timing require Response ACCEPT. C/ 98 SC McClellan, Brett Comment Type Figure 149-3	ro "PHYs w ccessfully c ement of 46 98.5.1 T 84 reference	ompleted training and 5.1.7." <i>Response Status</i> <i>P</i> 61 Marvell <i>Comment Status</i>	L pcs_data_mode is	s TRUE and subject to the # 224
Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type "Ipi_wake_time SuggestedRemedy change Ipi_wa Response ACCEPT.	149.3.2.2.21 TR Comm er" is not a defined by ake_timer to lpi_tx_	P99 Marvell <i>ment Status</i> A d variable. Is this su _wake_timer			EZ	change text f PHY has suc timing require Response ACCEPT. C/ 98 SC McClellan, Brett Comment Type Figure 149-3	r "PHYs w ccessfully c ement of 46 <b>98.5.1</b> T H4 reference GigT1 , and	ompleted training and 5.1.7." <i>Response Status</i> <i>P</i> 61 Marvell <i>Comment Status</i> 'mGigT1'.	L pcs_data_mode is	s TRUE and subject to the # 224
Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type "lpi_wake_time SuggestedRemedy change lpi_wa Response ACCEPT. Cl 149 SC 1	149.3.2.2.21         TR       Comr         er" is not a defined         fy         ake_timer to lpi_tx_         Respo	P99 Marvell ment Status A d variable. Is this su _wake_timer nse Status C	ipposed to be lpi_	_tx_wake_timer?	EZ	change text f PHY has suc timing require Response ACCEPT. C/ 98 SC McClellan, Brett Comment Type Figure 149-3 10GigT1 , 50 SuggestedReme change:	r "PHYs w ccessfully c ement of 46 <b>98.5.1</b> T H4 reference GigT1 , and dy	ompleted training and 5.1.7." <i>Response Status</i> <i>P</i> 61 Marvell <i>Comment Status</i> 2.5GigT1 are never	L pcs_data_mode is	s TRUE and subject to the
Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type "lpi_wake_time SuggestedRemedy change lpi_wa Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type	149.3.2.2.21         TR       Comment         er" is not a defined         by         ake_timer to lpi_tx_         Respon         149.3.2.3         T       Comment	P99 Marvell ment Status A d variable. Is this su _wake_timer nse Status C P101	upposed to be lpi_	_tx_wake_timer?	PCS	change text f PHY has suc timing require Response ACCEPT. C/ 98 SC McClellan, Brett Comment Type Figure 149-3 10GigT1, 50 SuggestedReme change: "- 2.5GigT1 - 5GigT1; re - 10GigT1; re	to "PHYs w ccessfully c ement of 46 <b>98.5.1</b> <b>T</b> B4 reference GigT1 , and bdy I;represents t	ompleted training and 5.1.7." <i>Response Status</i> <i>P</i> 61 Marvell <i>Comment Status</i> 'mGigT1'.	L pcs_data_mode is L 11 A referenced.	s TRUE and subject to the # 224
Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type "Ipi_wake_time SuggestedRemedy change Ipi_wa Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type block_lock flag SuggestedRemedy	149.3.2.2.21         TR       Comment         er" is not a defined         y         ake_timer to lpi_tx_         Response         149.3.2.3         T       Comment         g de-assertion is d         y	P99 Marvell ment Status A d variable. Is this su wake_timer nse Status C P101 Marvell ment Status A	upposed to be lpi_ L18 node, but re-asse	_tx_wake_timer? # 221 rtion is not describ	PCS	change text f PHY has suc timing require Response ACCEPT. C/ 98 SC McClellan, Brett Comment Type Figure 149-3 10GigT1 , 50 SuggestedReme change: "- 2.5GigT1 - 5GigT1; ro - 10GigT1; to	to "PHYs w ccessfully c ement of 46 <b>98.5.1</b> <b>T</b> <b>GigT1</b> , and dy l;represents represents t represents	ompleted training and 5.1.7." <i>Response Status</i> <i>P</i> <b>61</b> <i>Marvell</i> <i>Comment Status</i> 2.5GigT1 are never s that the 2.5GBASE- hat the 5GBASE-T1 F	L pcs_data_mode is L L11 A referenced. T1 PMA is the signal s 1 PMA is the signal s	s TRUE and subject to the # 224 hal source. ource. al source. "
Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type "Ipi_wake_time SuggestedRemedy change Ipi_wa Response ACCEPT. Cl 149 SC 1 McClellan, Brett Comment Type block_lock flag SuggestedRemedy	149.3.2.2.21         TR       Comment         er" is not a defined         by         ake_timer to lpi_tx_         Respo         149.3.2.3         T       Comment         g de-assertion is d         bock_lock flag is re-	P99 Marvell ment Status A d variable. Is this su _wake_timer nse Status C P101 Marvell ment Status A escribed for data m	upposed to be lpi_ L18 node, but re-asse	_tx_wake_timer? # 221 rtion is not describ	PCS	change text f PHY has suc timing require Response ACCEPT. C/ 98 SC McClellan, Brett Comment Type Figure 149-3 10GigT1 , 50 SuggestedReme change: "- 2.5GigT1 - 5GigT1; ro - 10GigT1; to	to "PHYs w ccessfully c ement of 46 <b>98.5.1</b> <b>T</b> <b>GigT1</b> , and dy l;represents represents t represents	ompleted training and 5.1.7." <i>Response Status</i> <i>P</i> 61 <i>Marvell</i> <i>Comment Status</i> s'mGigT1'. 2.5GigT1 are never that the 2.5GBASE-T1 F that the 10GBASE-T1 F	L pcs_data_mode is L L 11 A referenced. T1 PMA is the signal so 1 PMA is the signal so 1 PMA is the signal SE-T1 PMA is the	s TRUE and subject to the # 224 hal source. ource. al source. "

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

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

AcClelian, Brett       Marvell         Comment Type       E       Comment Status R       EZ         SuggestedRemedy adjust tont       Acclelian, Brett       Marvell       The quiet-reference by cole continues until the PCS function detects IDLE characters on the XGMII.         REJECT.       I checked the text in FrameMaker and it is the same as the rest of the text. This must be due to the pdf creation or your viewer.       This statement is in conflict with normative text in 149.3.2.2.21 which states that any not LPI symbol will trigger an exit from LPI.         21 149       SC 149.1.3.1       PT2       L48       # 226         Charge Tigs Account Status A       EZ       The Prace detection the transition to the LPI transmit mode begins" and         21 149       SC 149.1.3.1       PT2       L48       # 226         Charge Tigs Account Status A       EZZ       The Pulse interface is defined in 149.2, not 149.4.       SuggestedRemedy         Container Type       E       Comment Status A       EZZ         Container Tigs ER       Comment Status A       EZE         The WA interface is defined in 149.2, not 149.4.       SuggestedRemedy         Container Tigs ER       Comment Status A       EZE         The Collain, Brett       Marvell         Container Type       ER       Container Status A         Container Type       Response			• • • •				_	• • • •	
comment Type     E     Comment Status R     EZ       text in this section appears to be a different fort size than other text.     UpgestedRemedy       adjust fort     Response Status C       REJECT.     Collean, Brett     Marcell       1449     SC 149.1.3.1     P72     L48     # 226       The PMA interface is defined in 149.2, not 149.4.     UpgestedRemedy       ochange Tig.9.6     Response Status C       AccePT.     Comment Status A       149     SC 149.1.3.1     P72     L48     # 226       The PMA interface is defined in 149.2, not 149.4.     UpgestedRemedy     Comment Status A     EZ       Achange Tig.9.4 Vio 149.2.*     Comment Status A     EZ       Collan, Brett     Marcell     Marcell       omment Type     ER     Comment Status A     EZ       AcacePT.     Itage Status C     AccePT.       149     SC 149.1.3.3     P73     L24     # 227       collan, Brett     Marcell     Marcell     EEE       This section has too much detail for a non-normative sections. This must be all of a non-normative section section the transition to the LPI mode is triggered when*     Response Status C       AccePT.     AccePT.     The transmit direction the transition to the LPI mode is triggered when*       Thave conditions with the normative sections. The section			L <b>30</b>	# 225	C/ 149			L <b>34</b>	# 228
text in this section appears to be a different font size than other text. <i>tggestelRemedy</i> adjust font sponse Response Status C REJECT. I checked the text in FrameMaker and it is the same as the rest of the text. This must be due to the pdf creation or your viewer. 149 SC 149.1.3.1 PT2 L48 # 226 The PMA interface is defined in 149.2, not 149.4. gggestedRemedy change '149.4' to '149.2' sponse Response Status C ACCEPT. 149 SC 149.1.3.3 PT3 L24 # 227 Ciclelan, Bret Marvell statement Status A CEET The Section has too much defail for a non-normative summary sections and is prone to have conflicts with the normative sections. 149 SC 149.1.3.3 PT3 L24 # 227 Ciclelan, Bret Marvell sponse Response Status C ACCEPT. 149 SC 149.1.3.3 PT3 L24 # 227 Ciclelan, Bret Marvell statement is a connuch defail for a non-normative summary sections and is prone to have conflicts with the normative sections. 149 SC 149.1.3.3 PT3 L24 # 227 Ciclelan, Bret Marvell sponse Response Status C ACCEPT. 149 SC 149.1.3 PT3 L24 # 227 The Bret Marvell statements. It should provide a birle summary and refer to section 149.3.2.2.2.1 for normative defails. gggestedRemedy defet the two paragraphs starting with: "In the transition to the LPI mode is triggered when"									
ggestelRemedy       adjust fort         sponse       Response Status         REJECT.       I hoeked the text in FrameMaker and it is the same as the rest of the text. This must be         i. boeked the text in FrameMaker and it is the same as the rest of the text. This must be       I hoeked the text in FrameMaker and it is the same as the rest of the text. This must be         i. boeked the text in FrameMaker and it is the same as the rest of the text. This must be       I hoeked the text in FrameMaker and it is the same as the rest of the text. This must be         i. boeked the text in FrameMaker and it is the same as the rest of the text. This must be       I hoeked the text in frameMaker and it is the same as the rest of the text. This must be         i. boeked the text in FrameMaker and it is the same as the rest of the text. This must be       I hoeked the text in frameMaker and it is the same as the rest of the text. This must be         i. boeked the text in frameMaker and it is the same as the rest of the text. This must be       I heake conflicts with the normative sections.         i. boeked Remedy       I hoeke is defined in 149.2, not 149.4.       I heake is defined in 149.2, not 149.4.         iggestedRemedy       I hoeke is tegineral is non-normative sections. The section sounds normative bet has no 'shall'statements. It should provide a brief summary and refer to section 149.3.2.2.2.1 for normative sections. The section heat for an on-normative sections'       EEE         i. the transmit direction the transition to the LPI transmit mode begins'       I heat neceive directin the transitio									
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esponse       Response Status C         REJECT.         I checked the text in FrameMaker and it is the same as the rest of the text. This must be due to the pdf creation or your viewer.         1/149       SC 149.13.1       P72       L48       # 226         Incleilan, Brett       Marvell       EZ         The PMA interface is defined in 149.2, not 149.4.       Uggested/Remedy       C         change '149.4' to '149.2'       EZ       EZ         Virtage Status C       ACCEPT.       ACCEPT.         Virtage Status C       ACCEPT.         This section has too much detail for a non-normative summary sections and is prone to have conflicts with the normative sections. The section sounds normative but has no 'shall' statements.       EEE         This section has too much detail for a non-normative sections and is prone to have conflicts with the normative a brite summary and refer to section 149.3.2.2.2.1 for non-normative details.       EEE         Uggested/Remedy       Gelete the two paragraphs stating with:       Source of the section sounds normative but has no 'shall' statements.         Uggested/Remedy       Gelete the two paragraphs stating with:       Source of the section section sounds normative but has no 'shall' statements.         Uggested/Remedy       Gelete the two paragraphs stating with:       Source of the section section sounds normative but has no 'shall' statements.         Uggested/Remedy       Geletic the tw	adjust font								
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"In the transmit direction the transition to the LPI transmit mode begins" and "In the receive direction the transition to the LPI mode is triggered when"	SuggestedRemedy								
	"In the transmit direct and	ion the transition to the LPI tra	-						
	Response	Response Status C							

, 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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149	SC 149.1.3.4	P <b>74</b>	L <b>8</b>	# 229
McClellan,	Brett	Marvell		
Comment	Type ER	Comment Status A		Auto-Negotiation

This section has too much detail for a non-normative summary sections and is prone to have conflicts with the normative sections. The section sounds normative but has no 'shall' statements. It should provide only a summary and refer to section 149.4.2.6 for normative details.

## SuggestedRemedy

#### change text to:

"The Link Synchronization function is used when Auto-Negotiation is disabled or not implemented to detect the presence of the link partner, time and control link failure, and act as the data source for the PHY control state diagram. Link Synchronization operates in a half-duplex fashion. The MASTER PHY sends a synchronization sequence. If there is no response from the SLAVE, the MASTER repeats sending a synchronization sequence. If the slave detects the

sequence, it responds with a synchronization sequence. If no other detection happens after the SLAVE response then Link Synchronization is successfully complete, link monitor timers are started, and the PHY Control state machine starts Training. Link synchronization is defined in 149.4.2.6."

#### Response

## Response Status C

ACCEPT IN PRINCIPLE.

## To accomodate comment 85 change text to:

"The Link Synchronization function is used when Auto-Negotiation is disabled or not implemented to detect the presence of the link partner, time and control link failure, and act as the data source for the PHY control state diagram. Link Synchronization operates in a half-duplex fashion. The MASTER PHY sends a synchronization sequence. If there is no response from the SLAVE, the MASTER repeats sending a synchronization sequence. If the slave detects the sequence, it responds with a synchronization sequence. If no other detection happens after the SLAVE response then Link Synchronization is successfully complete, link monitor timers are started, and the PHY Control state diagram starts Training. Link synchronization is defined in 149.4.2.6."

C/ 149	SC	149.1.3.4	P <b>75</b>	L <b>23</b>	# <u>2</u> 30
McClellan,	Brett		Marvell		
Comment	Туре	Е	Comment Status A		State Diagrams
•		has super as the arr	fluous arrow heads pointing ow.	g to a signal line	that continues along
Suggested	Remea	ly			
replac	e arrow	s with lines	at line 23 and line 29		

Response Status C

Response

ACCEPT.

C/ 149	SC	149.1.4	P <b>76</b>	L13	# 231
McClellan,	Brett		Marvell		
Comment	Туре	т	Comment Status D		PCS
"Ability	to sigr	hal the stat	us of the local receiver to the	e remote PHY t	o indicate that the local

receiver is not operating reliably and requires retraining."

I don't think the signaling can convey the need for a retraining.

## SuggestedRemedy

delete item g

Proposed Response Response Status C

REJECT.

This comment was WITHDRAWN by the commenter.

C/ 149	SC 149.2.2	P <b>78</b>	L <b>23</b>	# 232
McClellan	, Brett	Marvell		
Comment	Type <b>TR</b>	Comment Status A		State Diagrams
lla a sa d	a standard and	· · · · · · · · · · · · · · · · · · ·		

"send\_s\_sigdet" appears in Figure 149–2 as a service interface (apparently for EEE alert detection), but does not appear in 149.2.2.

PMA\_ALERTDETECT.indication(alert\_detect) is a defined service interface for EEE alert detection, but does not appear in 149.2.2.

## SuggestedRemedy

delete "send\_s\_sigdet" from Figure 149-2.

add "alert\_detect" as a dotted line service interface from the PMA receiver in Figure 149–2 and Figure 149–3 add "PMA ALERTDETECT.indication(alert detect)" to the list in 149.2.2.

change " to "alert\_detect" in 149.3.2.3 on page 101 line 45.

Response Response Status C

ACCEPT IN PRINCIPLE.

Make the following set of changes (same as comment 101)

1. Figure 149-2 (P75 L30) remove "send\_s\_sigdet" and associated line

2. Figure 149-2 (P75 L33) add dotted arrow line from PMA RECEIVE to PCS RECEIVE labeled "alert detect"

3. Figure 149-3 (P79 L28) add dotted arrow line from PMA to PCS labeled

"PMA\_ALERTDETECT.indication"

4. P78 L32 add "PMA\_ALERTDETECT.indication(alert\_detect)" to the list in 149.2.2.

5. Figure 149-4 (P86) add dotted up arrow from PMA SERVICE INTERFACE dotted line to

PCA RECEIVE box labeled "alert\_detect"

6. P101 L 45 change: "send\_s\_sigdet" to "alert\_detect"

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

Comment ID 232

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C/ 149 SC	C 149.3.5	P103	L <b>31</b>	# 233	CI 30	SC 30.5.1.1.	2 P25	L12	# 236
McClellan, Brett	t	Marvell			Zimmerma	an, George	ADI, APL (	Gp, Aquantia, BM	W, Cisco, Commscope, S
Comment Type	Е	Comment Status A		EZ	Comment	Type E	Comment Status A		EZ
typo							ry "Single balanced pair of		
SuggestedReme	edy					he "2.5GBASE-1 0GBASE-T1 enti	Γ1"(10pt) - it should be the ries	same. Same cor	mment for 5GBASE-T1
change "rair	ning" to "trai	ning"			Suggested				
Response		Response Status C			00		f "Single balanced pair of o	conductors" in the	three entries to match
ACCEPT.		·				ame of the aMAL			
		2400		"	Response	•	Response Status C		
	C 149A.2	P <b>189</b>	L <b>26</b>	# 234	ACCE	PT.			
Zimmerman, Ge	U U		, Aquantia, BMW	/, Cisco, Commscope, S		00.44.0	504		" [22]
Comment Type		Comment Status A		EZ	C/ 44	SC 44.3	P <b>31</b>	L <b>3</b>	# 237
"Measureme	ents to be p	erformed 75%" isn't a sent	tence.			an, George		Gp, Aquantia, BM	IW, Cisco, Commscope, S
SuggestedReme	edy				Comment	51	Comment Status A		EZ
Change "Me	easurements	s to be performed" to "Meas	surements are pe	rformed"		g instruction say	s to insert "a" row - three re	ows are inserted.	Also, the row for 2x
Response		Response Status C			Suggested	,	•		
ACCEPT.					00	,	w rows" in editing instruction	on and adjust the	height of the row for 2x
	C 149A 3	P189	/ 31	# 235	Chang	,	w rows" in editing instruction others.	on, and adjust the	height of the row for 2x
C/ 149A SC	C 149A.3	P189	L <b>31</b>	# 235	Chang	ge "a row" to "ne ave to match the		on, and adjust the	height of the row for 2x
C/ <b>149A</b> SC Zimmerman, Ge	eorge	ADI, APL Gp,		/, Cisco, Commscope, S	Chang interle	ge "a row" to "ne ave to match the	e others.	on, and adjust the	e height of the row for 2x
CI <b>149A</b> SC Zimmerman, Ge Comment Type	eorge E	ADI, APL Gp, Comment Status A	, Aquantia, BMW	/, Cisco, Commscope, S EZ	Chang interle <i>Response</i> ACCE	ge "a row" to "ne ave to match the PT.	e others. Response Status C		
Cl 149A SC Zimmerman, Ge Comment Type "The referer components	eorge E nce cable as s, that are us	ADI, APL Gp, <i>Comment Status</i> <b>A</b> ssembly is intended to be a s sed within a wiring harness,	, Aquantia, BMW simplified represe	, Cisco, Commscope, S EZ entation of the	Chang interle Response ACCE	ge "a row" to "ne pave to match the PT. SC 45.2.1.1	e others. <i>Response Status</i> C 92.4 P36	L9	# 238
Cl 149A SC Zimmerman, Ge Comment Type "The referer components	eorge E nce cable as s, that are us	ADI, APL Gp, Comment Status A ssembly is intended to be a s	, Aquantia, BMW simplified represe	, Cisco, Commscope, S EZ entation of the	Chang interle Response ACCE CI 45 Zimmerma	ge "a row" to "ne ave to match the PT. SC <b>45.2.1.1</b> an, George	e others. <i>Response Status</i> C 92.4 P36 ADI, APL (	L9	# 238 IW, Cisco, Commscope, S
Cl 149A SC Zimmerman, Ge Comment Type "The referer components	eorge E nce cable as s, that are us ectors." is gr	ADI, APL Gp, <i>Comment Status</i> <b>A</b> ssembly is intended to be a s sed within a wiring harness,	, Aquantia, BMW simplified represe	, Cisco, Commscope, S EZ entation of the	Chang interle Response ACCE Cl 45 Zimmerma Comment	ge "a row" to "ne ave to match the PT. SC 45.2.1.19 an, George Type E	e others. <i>Response Status</i> C 92.4 <i>P</i> 36 ADI, APL C <i>Comment Status</i> A	L <b>9</b> Gp, Aquantia, BM	# 238 IW, Cisco, Commscope, S EZ
Cl 149A SC Zimmerman, Ge Comment Type "The referen components inline conne SuggestedReme Suggest cha	eorge E nce cable as s, that are us ectors." is gra edy anging to "T	ADI, APL Gp, Comment Status <b>A</b> ssembly is intended to be a s sed within a wiring harness, ammatically awkward he reference cable assembl	, Aquantia, BMW simplified represe which are cable, ly is intended to t	, Cisco, Commscope, S EZ entation of the , PCB connectors, and	Chang interle Response ACCE CI 45 Zimmerma Comment "Bits 1	ge "a row" to "ne ave to match the PT. SC <b>45.2.1.1</b> an, George <i>Type</i> <b>E</b> 1.2309.10:9 cont	e others. <i>Response Status</i> C 92.4 <i>P</i> 36 ADI, APL C <i>Comment Status</i> A rol the current precoder se	L <b>9</b> Gp, Aquantia, BM	# 238 IW, Cisco, Commscope, S <i>EZ</i> nitter," - because
Cl 149A SC Zimmerman, Ge Comment Type "The referer components inline conne SuggestedReme Suggest cha representati	eorge E nce cable as s, that are us ectors." is gra- edy anging to "T ion of the co	ADI, APL Gp, Comment Status <b>A</b> ssembly is intended to be a s sed within a wiring harness, ammatically awkward he reference cable assemble opponents used within a wiri	, Aquantia, BMW simplified represe which are cable, ly is intended to t	, Cisco, Commscope, S EZ entation of the , PCB connectors, and	Chang interle Response ACCE CI 45 Zimmerma Comment "Bits 1 "curred	ge "a row" to "ne ave to match the PT. SC 45.2.1.19 an, George <i>Type</i> E 1.2309.10:9 cont nt" can have me	e others. <i>Response Status</i> C 92.4 <i>P</i> 36 ADI, APL C <i>Comment Status</i> A	L <b>9</b> Gp, Aquantia, BM tting of the transn an electrical para	# 238 IW, Cisco, Commscope, S <i>EZ</i> nitter," - because ameter, this isn't a great
Cl 149A SC Zimmerman, Ge Comment Type "The referen components inline conne SuggestedReme Suggest cha representati connectors,	eorge E nce cable as s, that are us ectors." is gra- edy anging to "T ion of the co	ADI, APL Gp, Comment Status <b>A</b> ssembly is intended to be a s sed within a wiring harness, ammatically awkward he reference cable assemble mponents used within a wiri connectors."	, Aquantia, BMW simplified represe which are cable, ly is intended to t	, Cisco, Commscope, S EZ entation of the , PCB connectors, and	Chang interle Response ACCE Cl 45 Zimmerma Comment "Bits 1 "curret way to	ge "a row" to "ne ave to match the PT. SC 45.2.1.19 an, George <i>Type</i> E 1.2309.10:9 cont nt" can have me o say this. The r	e others. Response Status C 92.4 P36 ADI, APL C Comment Status A rol the current precoder se paning both as time and as	L9 Gp, Aquantia, BM etting of the transm an electrical para cularly the senten	# 238 IW, Cisco, Commscope, S <i>EZ</i> nitter," - because ameter, this isn't a great ce "Setting these bits
Cl 149A SC Zimmerman, Ge Comment Type "The referer components inline conne SuggestedReme Suggest cha representati connectors, Response	eorge E nce cable as s, that are us ectors." is gra- edy anging to "T ion of the co	ADI, APL Gp, Comment Status <b>A</b> ssembly is intended to be a s sed within a wiring harness, ammatically awkward he reference cable assemble opponents used within a wiri	, Aquantia, BMW simplified represe which are cable, ly is intended to t	, Cisco, Commscope, S EZ entation of the , PCB connectors, and	Chang interle Response ACCE Cl 45 Zimmerma Comment "Bits 1 "curret way to	ge "a row" to "ne ave to match the PT. SC 45.2.1.19 an, George <i>Type</i> E 1.2309.10:9 cont nt" can have me o say this. The rist the precoder to	e others. Response Status C 92.4 P36 ADI, APL C Comment Status A rol the current precoder se taning both as time and as est of the paragraph, partic	L9 Gp, Aquantia, BM etting of the transm an electrical para cularly the senten	# 238 IW, Cisco, Commscope, S <i>EZ</i> nitter," - because ameter, this isn't a great ce "Setting these bits
Cl 149A SC Zimmerman, Ge Comment Type "The referen components inline conne SuggestedReme Suggest cha representati connectors,	eorge E nce cable as s, that are us ectors." is gra- edy anging to "T ion of the co	ADI, APL Gp, Comment Status <b>A</b> ssembly is intended to be a s sed within a wiring harness, ammatically awkward he reference cable assemble mponents used within a wiri connectors."	, Aquantia, BMW simplified represe which are cable, ly is intended to t	, Cisco, Commscope, S EZ entation of the , PCB connectors, and	Chang interle Response ACCE Cl 45 Zimmerma Comment "Bits 1 "curre way to forces Suggested	ge "a row" to "ne ave to match the PT. SC 45.2.1.19 an, George <i>Type</i> E 1.2309.10:9 cont nt" can have me o say this. The rist the precoder to	e others. Response Status C 92.4 P36 ADI, APL C Comment Status A rol the current precoder se eaning both as time and as est of the paragraph, partic the mode set." is clarity er	L9 Gp, Aquantia, BM etting of the transm an electrical para cularly the senten	# 238 IW, Cisco, Commscope, S <i>EZ</i> nitter," - because ameter, this isn't a great ce "Setting these bits
Cl 149A SC Zimmerman, Ge Comment Type "The referer components inline conne SuggestedReme Suggest cha representati connectors, Response	eorge E nce cable as s, that are us ectors." is gra- edy anging to "T ion of the co	ADI, APL Gp, Comment Status <b>A</b> ssembly is intended to be a s sed within a wiring harness, ammatically awkward he reference cable assemble mponents used within a wiri connectors."	, Aquantia, BMW simplified represe which are cable, ly is intended to t	, Cisco, Commscope, S EZ entation of the , PCB connectors, and	Chang interle Response ACCE Cl 45 Zimmerma Comment "Bits 1 "curre way to forces Suggested	ge "a row" to "ne ave to match the PT. SC 45.2.1.19 an, George <i>Type</i> E 1.2309.10:9 cont nt" can have me o say this. The re the precoder to dRemedy e "current" on P3	e others. Response Status C 92.4 P36 ADI, APL C Comment Status A rol the current precoder se eaning both as time and as est of the paragraph, partic the mode set." is clarity er	L9 Gp, Aquantia, BM etting of the transm an electrical para cularly the senten	# 238 IW, Cisco, Commscope, S <i>EZ</i> nitter," - because ameter, this isn't a great ce "Setting these bits

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

CI <b>45</b>	SC 45.2.1.7.4	P <b>33</b>	L <b>54</b>	# <u>2</u> 39	C/ 149	SC 149.1.3	P <b>71</b>	L <b>27</b>	# 242
Zimmermar	n, George	ADI, APL Gp,	Aquantia, BMW	, Cisco, Commscope, S	Zimmerma	an, George	ADI, APL Gp	, Aquantia, BMV	V, Cisco, Commscope, S
Comment 7	Туре Т	Comment Status A		Registers	Comment	Туре Е	Comment Status A		EZ
in 45.2.	.1.7.5, Table 45-1	ns are in 45.2.1.7.4, Table 4 0. These need to be brough	t into the draft	and updated to include		er diagrams the We should be c	PCS is referred to as 64B/65 consistent.	B RS-FEC PCS	Here it is just RS-FEC
Additio	nally, I cannot find	es for 2.5GBASE-T1, 5GBAS d the reference to Transmit a referenced in 1.2310.			Suggested Chang		S" to "64B/65B RS-FEC PCS	" in Figure 149-1	
Suggestedl	Remedy				Response		Response Status C		
		ble 45-9, adding rows for 2.5 g the appropriate section of			ACCE	PT.			
Bring 4	5.2.1.7.5 and Tab	ole 45-10, adding rows for 2.	5GBASE-T1, 50		C/ 149	SC 149.1.3	P <b>72</b>	L <b>3</b>	# 243
10GBA	SE-11 referencin	g the appropriate section of	clause 149.		Zimmerma	n, George	ADI, APL Gp	, Aquantia, BMV	V, Cisco, Commscope, S
Add tex	xt, if necessary, fo	or transmit and receive faults	to clause 149.		Comment	Туре Т	Comment Status A		EZ
	PT IN PRINCIPLE	dditions as defined in zimm	erman_3ch_03a	a_0719.pdf.	senter	nce, and needs t E mode). It is o	ee 149.4.2.6)." - this sentenc o be qualified or linked - else nly true when Auto-Negotiati	it is incorrect (1	
C/ <b>104</b> Zimmermar	SC <b>104.1.3</b> n. George	Р <b>62</b> ADI. APL Gp.	L <b>10</b> Aquantia, BMW	# 240 , Cisco, Commscope, S	Chang	-	MASTER and SLAVE are"	to "PHYS, and t	he MASTER and
Comment 1		Comment Status A	1 /	EZ	Response ACCE		Response Status C		
Suggestedl Change	<i>Remedy</i> e "type F PSE" to	"Type F PSE"							
Response ACCEF	PT.	Response Status C							
C/ 104	SC 104.5.6.4	P63	L <b>27</b>	# 241					
Zimmermar	n, George	ADI, APL Gp,	Aquantia, BMW	, Cisco, Commscope, S					
Comment 7 All the	51	Comment Status A erences should have the "PI	D" in subscript.	EZ					
Suggestedl	Remedy								
Editor t	to check and mak	e "PD" and "PSE" subscript	where appropria	ate. (I think it's just PD)					
Response ACCEF	PT.	Response Status C							

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.7.1.4	P164	L <b>32</b>	# <u>2</u> 44	Cl 45	SC	45.2.1.19	5.2	P <b>39</b>	L <b>53</b>	# <u>2</u> 46	1
Zimmerman, George	ADI, APL Gp	, Aquantia, BMW	, Cisco, Commscope, S	den Beste	en, Gerri	t		NXP Semicor	nductors		
Comment Type T C	omment Status A		EZ	Comment	t Type	т	Comment	Status R			EEE
"The coupling attenuation is seems contradictory - it imp attenuation. I believe we are spec, with the parameters s normative)	lies that the annex cont requiring that the cable	ains other ways to pass testing acc	o test the coupling cording to the IEC	open would	that it w be betto ow-wake	ould still r er to spec e is applie	equire to sup	port regular wal of the transceiv	ke-up in the othe	ch leaves the option r direction. I think quest slow-wake, t	it
SuggestedRemedy				••			norograph				
Change "In order to limit the link segment shall meet				If eith	er this P			equest slow wa	ke, the PHY may	only transmit ale	rt
the coupling attenuation value attenuation is tested	ues determined by using	g Equation (149–	24). The coupling	Response	Э		Response	Status C			
as specified in IEC 62153-4	-7 using triaxial tube in	ube method. Add	ditional coupling	REJE	ECT.						
attenuation test methodolog are defined in Annex 149A."	ies			The c	lesire wa	as to allow	these to be	different in each	n direction.		
to: "In order to limit the nois IEC 62153-4-7 triaxial tube i				C/ 149	SC	149.8.2.1		P168	L <b>2</b>	# 247	
link segment shall meet the				den Beste	en. Gerri	t		NXP Semicor	nductors		
(149–24)."				Comment	,	TR	Comment				MDI
Response Re ACCEPT. 	P38	L36	# 245	There differe Other	e is curre entiate re rwise the	ently only o equirement ese lower s	one MDI return ts for different speeds will be	n loss template nt speeds to allo e overspecified.	ow looser spec for	think we should or 2.5Gbps and 50 y to achieve this is	Gbps.
den Besten, Gerrit	NXP Semicor	nductors		Suggeste	•		, <b>,</b>				
	omment Status R	ladotoro	EEE	Chan		9					
Slow wake request is an ind would still require to support to specify that if one of the t applied in both directions.	ication in one direction, regular wake-up in the	other direction. I	e option open that it think it would be better	10> 500 3000	> 10S -> 500S > 3000 > Fma	-					
SuggestedRemedy				Remo	ove:						
Add the sentence to the par If either this PHY or its link p	artner request slow wa	ke, the PHY may	only transmit alert				BASE-T1, and 000 × S MHz		, the maximum a	applicable frequen	cy for
immediately following refres				Response	9		Response	Status C			
	esponse Status U			ACCE	EPT IN F	PRINCIPL	E.				
REJECT. There was no consensus to be different in each directior	5	e desire of the TF	was to allow these to	with e	editorial l	icense to		uation correctly		n_3ch_03a_0719 odate associated I	

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

		· ·		•								
C/ 149	SC 149.8.2.1	P163	L <b>23</b>	# 248		C/ 149	SC 1	49.1	P <b>70</b>	L12	# <u>2</u> 51	
len Besten, C	Gerrit	NXP Semicono	luctors			den Bester	n, Gerrit		NXP Semicon	ductors		
Comment Typ The MDI		Comment Status D nous at 500MHz: 20dB vers	us 19.78dB.		MDI	<i>Comment</i> The w			Comment Status A trange and unnecessary in t	his sentence.		E
SuggestedRe Implicitly	2	al to relax MDI return loss a	bit. See next ite	em.		Suggested Remo	-	, ord 'type'				
Proposed Re REJECT.		Response Status C				Response ACCE			Response Status C			
This com	ment was WITH	DRAWN by the commenter				C/ 149	SC 1	49.1.3.3	P <b>73</b>	L <b>24</b>	# 252	
C/ 149	SC 149.8.2.1	P163	L <b>20</b>	# 249		den Bester	n, Gerrit		NXP Semicon	ductors		
len Besten, 0		NXP Semicono	-			Comment	Туре	т	Comment Status R			EE
Comment Typ The MDI	be <b>TR</b> return loss at hig	Comment Status <b>A</b> gh frequency is tighter than	necessary IMO		<i>MDI</i> nd	last 64	B/65B b	lock of the	the LPI transmit mode starts e RS-frame. In contrast to he by XGMII.			
		ce attenuated by insertion lo the RL/IL ratio. I think the c			urn	Suggested	Remedy	,				
loss and		are not well balanced for a l							nce before the referred one: starts with LPI characters or	the XGMII.		
SuggestedRe	emedy					Response			Response Status C			
		change into 10-10*log(f/30 change into 10-20*log(f/30)				REJE	CT.					
Response		Response Status <b>C</b>	,						ed by this comment is remo plution to comment #227 cha		#227. This may	need
with edito		i. 149-27 as shown on page rmat the equation correctly. tted equation.										
C/ 45	SC 45.2.3.77	P46	L16	# 250								
en Besten, C	Gerrit	NXP Semicono	luctors									
Comment Typ Missing r		Comment Status <b>A</b> 3.9.2.12 like in sub-clause 4	5.2.3.76		ΕZ							
SuggestedRe Add the s	emedy same reference t	o 45.2.3.77										
Response ACCEPT	IN PRINCIPLE.	Response Status C										
Add "See Table 45-		r details on the OAM status	message defin	ition." before " See	9							
		ER/editorial required GR/g	eneral required	T/technical F/ed	itorial G/o	reneral			Comme	ent ID 252	Page 53 o	of 61

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

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

					-					
C/ 149 S	C 149.3.2.2.2	21 P99	L <b>49</b>	# 253	C/ 149 SC 14	49.3.6	P106	L <b>26</b>	# <u>2</u> 56	
den Besten, Ge	errit	NXP Semicor	ductors		den Besten, Gerrit		NXP Semico	nductors		
Comment Type	e T	Comment Status A		EEE	Comment Type	T Commen	t Status A			EEE
		block of LPI characters is g nsistent with 149.1.3.3	enerated by the	PCS transmit function,	"do not overlap' to be non-perfe	" is not really correct ect.	, because the a	lignment of the I	link partners is allow	ved
SuggestedRem	nedy				SuggestedRemedy					
Replace by					Replace by "car	n only have a small o	overlap"			
When the F RS frame. t		function detects an LPI cha	racter in the last	t 64B/65B block of an	Response	Response	Status C			
Response		Response Status <b>C</b>			ACCEPT IN PR	RINCIPLE.				
,		•			Poplace by "me	ov overlee"				
ACCELLIN					Replace by "ma	ay overlap				
	lution as com			it mode hering when	C/ 149 SC 14	49.3.9.2.1	P <b>121</b>	L <b>52</b>	# 257	
		nit direction, the transition to n detects an LPI control cha			den Besten, Gerrit		NXP Semico	nductors		
Reed-Solor	mon frame. Fo	ollowing this event, the PMA	transmits the s	sleep signal starting at	Comment Type	E Commen	t Status A			EZ
		t superframe to indicate to t The sleep signal is compose			typo: symbol					
		B/65B blocks. Once initiate			SuggestedRemedy					
				sieep signal consisting	Suggesteurtemeuy					
		P_IDLE shall be transmitte			replace by: sym					
of 8 RS-FE				# 254	<u> </u>	nbols	Status C			
of 8 RS-FE	C frames of L	P_IDLE shall be transmitte	d. <i>L</i> 31		replace by: sym	nbols	Status C			
of 8 RS-FE	C frames of L C <b>149.3.5</b> errit	P_IDLE shall be transmitte	d. <i>L</i> 31		replace by: sym Response ACCEPT.	nbols <i>Response</i>		152	# [259	
of 8 RS-FE	C frames of L C <b>149.3.5</b> errit e <b>E</b>	P_IDLE shall be transmitte P103 NXP Semicor	d. <i>L</i> 31	# 254	replace by: sym Response ACCEPT. Cl 149 SC 14	nbols	P <b>121</b>	L52	# 258	
of 8 RS-FE C/ 149 So den Besten, Ge Comment Type	C frames of L C <b>149.3.5</b> errit e <b>E</b> g	P_IDLE shall be transmitte P103 NXP Semicor	d. <i>L</i> 31	# 254	replace by: sym Response ACCEPT. Cl 149 SC 14 den Besten, Gerrit	nbols <i>Response</i> 49.3.9.2.1	P121 NXP Semico	-	# 258	
of 8 RS-FE Cl 149 So den Besten, Ge Comment Type typo: raining	C frames of L C 149.3.5 errit E g nedy	P_IDLE shall be transmitte P103 NXP Semicor	d. <i>L</i> 31	# 254	replace by: sym Response ACCEPT. Cl 149 SC 14 den Besten, Gerrit Comment Type	nbols <i>Response</i> 49.3.9.2.1	P <b>121</b>	-	# 258	EZ
of 8 RS-FE Cl 149 So den Besten, Ge Comment Type typo: raining SuggestedRem	C frames of L C 149.3.5 errit E g nedy	P_IDLE shall be transmitte P103 NXP Semicon Comment Status A	d. <i>L</i> 31	# 254	replace by: sym Response ACCEPT. C/ 149 SC 14 den Besten, Gerrit Comment Type typo: symbol	nbols <i>Response</i> 49.3.9.2.1 E <i>Commen</i>	P121 NXP Semico	-	# 258	EZ
of 8 RS-FE Cl 149 St den Besten, Ge Comment Type typo: raining SuggestedRem Replace by	C frames of L C 149.3.5 errit E g nedy	P_IDLE shall be transmitte P103 NXP Semicor	d. <i>L</i> 31	# 254	replace by: sym Response ACCEPT. Cl 149 SC 14 den Besten, Gerrit Comment Type	nbols <i>Response</i> 49.3.9.2.1 E <i>Commen</i>	P121 NXP Semico	-	# 258	EZ
of 8 RS-FE Cl 149 St den Besten, Ge Comment Type typo: raining SuggestedRem Replace by Response ACCEPT.	C frames of L C 149.3.5 errit E g nedy	P_IDLE shall be transmitte P103 NXP Semicon Comment Status A	d. <i>L</i> 31	# 254	replace by: sym Response ACCEPT. CI 149 SC 14 den Besten, Gerrit Comment Type typo: symbol SuggestedRemedy replace by: sym Response	nbols <i>Response</i> 49.3.9.2.1 E <i>Commen</i> nbols	P121 NXP Semico	-	# 258	EZ
of 8 RS-FE Cl 149 St den Besten, Ge Comment Type typo: raining SuggestedRem Replace by Response ACCEPT.	C frames of L C 149.3.5 errit E g nedy /: training C 149.3.5	P_IDLE shall be transmitte P103 NXP Semicor Comment Status A Response Status C	d. L31 ductors L48	# <u>254</u> <i>EZ</i>	replace by: sym Response ACCEPT. Cl 149 SC 14 den Besten, Gerrit Comment Type typo: symbol SuggestedRemedy replace by: sym	nbols <i>Response</i> 49.3.9.2.1 E <i>Commen</i> nbols	P121 NXP Semico t Status A	-	# 258	EZ
of 8 RS-FE Cl 149 St den Besten, Ge Comment Type typo: raining SuggestedRem Replace by Response ACCEPT. Cl 149 St den Besten, Ge Comment Type	C frames of L C 149.3.5 errit E g nedy r: training C 149.3.5 errit	P_IDLE shall be transmitte P103 NXP Semicor Comment Status A Response Status C P103 NXP Semicor Comment Status A	d. L31 ductors L48	# <u>254</u> <i>EZ</i>	replace by: sym Response ACCEPT. CI 149 SC 14 den Besten, Gerrit Comment Type typo: symbol SuggestedRemedy replace by: sym Response	nbols <i>Response</i> 49.3.9.2.1 E <i>Commen</i> nbols	P121 NXP Semico t Status A	-	# 258	EZ
of 8 RS-FE Cl 149 St den Besten, Ge Comment Type typo: raining SuggestedRem Replace by Response ACCEPT. Cl 149 St den Besten, Ge Comment Type typo: (bits c	C 149.3.5 errit g nedy r: training C 149.3.5 errit errit E of) PHY frame	P_IDLE shall be transmitte P103 NXP Semicor Comment Status A Response Status C P103 NXP Semicor Comment Status A	d. L31 ductors L48	# <u>254</u> <i>EZ</i> # <u>255</u>	replace by: sym Response ACCEPT. CI 149 SC 14 den Besten, Gerrit Comment Type typo: symbol SuggestedRemedy replace by: sym Response	nbols <i>Response</i> 49.3.9.2.1 E <i>Commen</i> nbols	P121 NXP Semico t Status A	-	# <u>258</u>	EZ
of 8 RS-FE Cl 149 St den Besten, Ge Comment Type typo: raining SuggestedRem Replace by Response ACCEPT. Cl 149 St den Besten, Ge Comment Type typo: (bits c SuggestedRem	C 149.3.5 errit g nedy r: training C 149.3.5 errit errit E of) PHY frame	P_IDLE shall be transmitte P103 NXP Semicor Comment Status A Response Status C P103 NXP Semicor Comment Status A e is	d. L31 ductors L48	# <u>254</u> <i>EZ</i> # <u>255</u>	replace by: sym Response ACCEPT. CI 149 SC 14 den Besten, Gerrit Comment Type typo: symbol SuggestedRemedy replace by: sym Response	nbols <i>Response</i> 49.3.9.2.1 E <i>Commen</i> nbols	P121 NXP Semico t Status A	-	# 258	EZ
of 8 RS-FE Cl 149 St den Besten, Ge Comment Type typo: raining SuggestedRem Replace by Response ACCEPT. Cl 149 St den Besten, Ge Comment Type typo: (bits c SuggestedRem	C 149.3.5 errit B B B C 149.3.5 C 149.3.5 errit C 149.3.5 errit E Df) PHY frame aedy	P_IDLE shall be transmitte P103 NXP Semicor Comment Status A Response Status C P103 NXP Semicor Comment Status A e is	d. L31 ductors L48	# <u>254</u> <i>EZ</i> # <u>255</u>	replace by: sym Response ACCEPT. CI 149 SC 14 den Besten, Gerrit Comment Type typo: symbol SuggestedRemedy replace by: sym Response	nbols <i>Response</i> 49.3.9.2.1 E <i>Commen</i> nbols	P121 NXP Semico t Status A	-	# 258	EZ

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

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/FM SC FM	P <b>2</b>	L <b>2</b>	# 259		C/ <b>45</b>	SC 45.	.2.1.192	P <b>34</b>	L <b>36</b>	# <u>2</u> 61
len Besten, Gerrit	NXP Semicon	ductors			den Bester	, Gerrit		NXP Semico	nductors	
Comment Type E	Comment Status A			ΕZ	Comment	Туре Т	Г	Comment Status R		Registe
	ive cabling in an automotive initions in the spec refer to "sin sistent with that.	ngle balanced	pair". It seems useful	l to	directly	abutting	the mult	some reserved registers at ti-gig register addresses to is also some reserved add	1Gbps address	ses. Note that for other
SuggestedRemedy					Suggested	Remedy				
Change to: "operation applications."	over single balanced pair cabl	ing and suitab	le for automotive					s at address 2304 which eo 0910, which would be 2320		Propose to start multi-gig
Response	Response Status C				Response			Response Status C		
ACCEPT IN PRINCIP	LE.				REJEC	ЭΤ.				
Change: on automotiv tomotive application.	e cabling in an au-				This cl	nange wou	uld requi	ire significant changes thro	ughout Clauses	s 45 and 149.
	ced pair of conductors suitable	for automotive	e applications.		Addres	s spaces	are brol	ken up all the time without i	incidence.	
C/ 45 SC 45.2.1.1	B P33	L <b>24</b>	# 260		C/ 149	SC 14	9.4.2.1	P139	L16	# 262
len Besten, Gerrit	NXP Semicon	ductors			den Bester	, Gerrit		NXP Semico	nductors	
Comment Type <b>T</b>	Comment Status A		Regi	isters	Comment	Гуре Е	Ξ	Comment Status A		E
	duplicate BASE-T1 abilities to				typo: s	all				
are BASE-T1 extende	T1 extended ability register 18 d abilities or 2.5G/5G extended 5G/5G extended abilities next t	d abilities. Why	y would a 2.5G/5GBA		Suggested Replac	Remedy e by: sha	11			
SuggestedRemedy					Response	-		Response Status <b>C</b>		
	SE-T1 abilities from register 2	21.			ACCEI	PT.				
Response	Response Status <b>C</b>				<u></u>			<b>.</b>		
ACCEPT IN PRINCIP	LE.				C/ 149	SC 14	9.4.2.8	P <b>149</b>	L11	# 263
					den Bester	,		NXP Semico	nductors	
	BASE-T1 abilities from registe BASE-T1 abilities can be foun			W	Comment RS FE			Comment Status A at other places in the spec		E
In addition, move 45.2 1.21.x to 1.18.x and add 45.2.1.16.xx	.1.18.ab & 45.2.1.18.ab to 45.2	2.1.16.xy and	45.2.1.16.xz changing	g	Suggested Replac	<i>Remedy</i> e RS FEF	R by RFI	ER		
add 45.7.1.16.XX	pit 1.18.6 indicates that the PM	1A/PMD is able	e to operate as a		Response ACCEI	т		Response Status C		
	De.									

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

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149	SC 149.5.1	P155	L <b>46</b>	# 264	C/ 104	SC 104.	5.6.4	P <b>63</b>	L <b>40</b>	# <u>2</u> 67
den Bester	n, Gerrit	NXP Semicon	ductors		Stewart, H	eath		Analog Device	es	
Comment	Туре Т	Comment Status R		Test Modes	Comment	Type TR	Comr	ment Status A		PoDL
		1} symbols" The meaning ggling pattern or something		ntinuous' is not very	reused	d from 1000	BASE-T1 (Typ	JTO PHY. The PD r be B) systems. This		
Suggested	dRemedy					ansmission	speed.			
	is about a toggline p specifically what wa	oattern, say toggling instea s meant.	d of continuous	. If otherwise, specify	Suggested See "s	-	_01_0719" Slie	des 8 and 9		
Response		Response Status <b>C</b>			Response		Respo	nse Status <b>C</b>		
REJEC	CT.				ACCE	PT IN PRIN	CIPLE.			
The ci	urrent language is c	onsistent with IEEE802.3 u	200							
C/ 149	SC 149.5.2.4	P158	L <b>41</b>	# 265	Make	changes def	fined in stewa	rt_3ch_01a_0719 sl	ides 5 & 6.	
den Bester		NXP Semicon		<i>"</i> 200	C/ 149	SC 149.	8.2.1	P168	L1	# 268
Comment		Comment Status A	ductors	PSD	Stewart, H	eath		Analog Device	es	
		was shifted from -1dB/+2d	IB to -1 5dB/+1	-	Comment	Type TR	Comr	nent Status D		MDI
concer	rns on the lower lim	it for 10Gbps operation. Ho for lower speed operation.			total).	Need to rev	ise the low fre	quency MDI return I	loss mask to be i	ansmitter output (4uH n agreement with this
Suggested	dRemedy				value.	Otherwise e	either specifica	ation undermines the	e relavance of the	e other.
Chang	ge the upper limit ba	ck to +2dB.			Suggested	-				
Response		Response Status C			See "s	tewart_3ch_	_01_0719" Slie	de 13 and 16		
	PT IN PRINCIPLE.				Proposed REJE		Respo	nse Status <b>C</b>		
Chang	ge: the transmit pow	ver shall be in the range of	-1.5 dBm to 1.	5 dBm	This o	ommont wa		/N by the commente	or.	
To: th	ne transmit power sł	all be in the range of -1 d	3m to 2 dBm		1115 C			in by the commente	51.	
C/ 104	SC 104.4.6.3	P <b>62</b>	L <b>54</b>	# 266						
Stewart, H	leath	Analog Device	S							
Comment	Type TR	Comment Status A		PoDL						
standa		NGAUTO PHY. The PSE 1000BASE-T1 (Type B) s on speed.								
Suggested	dRemedy									
See "s	stewart_3ch_01_07	19" Slides 5,6, and 7								
		Response Status C								
Response										
Response	PT IN PRINCIPLE.									
Response ACCE	-	stewart_3ch_01a_0719 sli	des 5 & 6.							

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Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149 SC 149.8.2.1 P168 L1 #	# <u>2</u> 69	C/ 149B	SC 149B.3.2.	P199	L13	# <u>2</u> 72
Stewart, Heath Analog Devices		Tu, Mike		Broadcom		
Comment Type TR Comment Status A	MDI	Comment 7	<i>уре</i> Т	Comment Status A		OAM
High frequency Return Loss was presented considering the best performance coupling inductors and MDI connectors. However, to provide additional prote PHY, allowance needs to be made for ESD clamping devices. Need to revis frequency mask to accomodate for additional capacitive loading due to these	ection to the e the high	Suggestedl	Remedy	e consistent with Table 149 rom "tx_clear_rec" to "mr_t:		status variable name
SuggestedRemedy		Response		Response Status C		
See "stewart_3ch_01_0719" Slide 15 and 16		ACCEF	ΥТ.			
Response Response Status C		CI 440D	CC 440B 2 2 4	D400	1.04	# 070
ACCEPT IN PRINCIPLE.		C/ 149B	SC 149B.3.2.		L <b>21</b>	# 273
Implement changes to Eq. 149-27 as shown on page 3 of DenBesten_3ch_(	20. 0710 pdf	Tu, Mike		Broadcom		
with editorial license to format the equation correctly. In addition, update as: 149-47 to reflect the updated equation.		Comment 7 Variabl	• •	Comment Status A e consistent with Table 149	-9 PCS control/s	OAM status variable name
C/ 149 SC 149.3.9.4.6 P136 L26 #	# 270	Suggestedl Change	-	rom "tx_rec" to "mr_tx_rec".		
Fu, Mike Broadcom		Response		Response Status C		
Comment Type T Comment Status A In Figure 149-24, the OAM receive state diagram, the entry condition into sta	OAM ate	ACCEF		,		
"LOAD_RECEIVE_PAYLOAD" may cause an erronous corner case.		C/ 149B	SC 149B.3.2.	P <b>199</b>	L1	# 274
SuggestedRemedy		Tu, Mike		Broadcom		
See page 4 of "tu_3ch_05_0719.pdf".		Comment 7	<b>J</b> 1= -	Comment Status A		OAM
Response Response Status C ACCEPT.				_rec_clear" does not match te of the "tx_clear_rec".	n to any register	bits in Table 149-9. It
C/ 149B SC 149B.3.2.1 P199 L7 #	# 271	Suggestedl				
Fu, Mike Broadcom		Propos	e to delete line 1	to 5		
Comment Type T Comment Status A Variable name should be consistent with Table 149-9 PCS control/status var	OAM	Response ACCEF	·Τ.	Response Status C		
SuggestedRemedy Change variable name from "rx_clear_rec" to "mr_tx_clear_rec".						
Response Response Status C ACCEPT IN PRINCIPLE.						
Change variable name from "rx_clear_rec" to "mr_rx_clear_rec".						

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149B SC 149B.3.	2.3 P200	L <b>3</b>	# <u>2</u> 75	CI <b>45</b>	SC 45.2.1.19	94.3 P38	L <b>40</b>	# 278
Tu, Mike	Broadcom			Souvigni	er, Tom	Broadcom		
Comment Type T	Comment Status A		OAI	A Commer	t Type TR	Comment Status A		Precoder
In Figure 149B-2, the definitions.	variable values and variable na	ames should be	consistent with	in the	ese register bit val	requested" bit values are con ues and sends to the link part	ner via InfoField.	It may be more
SuggestedRemedy See page 4 of "tu_3cl	h 04 0719.pdf".				st to optionally allo e conditions.	ow the PHY to choose the pre-	coder on-the-fly b	ased on channel and
Response	Response Status C				edRemedy			
ACCEPT IN PRINCIP	•			See	page 4 of "tu_3ch	_01_0719.pdf".		
				Respons		Response Status C		
Implement changes n	narked in red on page 4 of tu_3	ch_04_0719.pd	lf.	ACC	EPT IN PRINCIPL	Е.		
C/ <b>149B</b> SC <b>149B.3</b> . Tu, Mike	2.3 P200 Broadcom	L <b>38</b>	# 276		ement the new rec ch_01a_0719.pdf.	jisters and text, with editoral li	cense, as defined	l in
Comment Type T	Comment Status A		OAI	/ Rem	ove the shall on s	lide 4 in the register definition	S.	
In Figure 149B-3, the definitions.	variable values and variable na	ames should be	consistent with	CI 45	SC 45.2.1.19	<b>4.2</b> P38	L <b>32</b>	# 279
SuggestedRemedy				Souvigni	er, Tom	Broadcom		
See page 5 of "tu_3cl	h_04_0719.pdf".			Commer	t Type TR	Comment Status A		Precoder
Response ACCEPT IN PRINCIF				in the robu	ese register bit val	requested" bit values are con ues and sends to the link part ow the PHY to choose the pre-	ner via InfoField.	It may be more
Implement changes c	on page 5 of tu_3ch_04_0719.p	df.		_ Suggeste	edRemedy			
C/ 45 SC 45.2.1.1	94 P38	L13	# 277	See	page 4 of "tu_3ch	_01_0719.pdf".		
Souvignier, Tom	Broadcom			Respons	e	Response Status <b>C</b>		
Comment Type TR	Comment Status A		Precode	ACC	EPT IN PRINCIPL	.E.		
in these register bit va	er requested" bit values are con alues and sends to the link part low the PHY to choose the pre	ner via InfoField	I. It may be more		ement the new reg ch_01a_0719.pdf.	pisters and text, with editoral li	cense, as definec	l in
SuggestedRemedy				Rem	ove the shall on s	lide 4 in the register definition	S.	
See page 3 of "tu_3cl	h_01_0719.pdf".							
Response	Response Status <b>C</b>							
ACCEPT IN PRINCIP	•							
Implement the new re tu_3ch_01a_0719.pd	egisters and text, with editoral li f.	cense, as define	ed in					
Remove the shall on	slide 4 in the register definition	6.						
	red ER/editorial required GR/g dispatched A/accepted R/reject				ad U/upsatisfied		ent ID 279	Page 58 of 61 7/17/2019 7:40:1

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

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

	<b>•</b> • • • • • • •	<b>D</b>							
	C 149.4.2.4.5	P <b>142</b>	L <b>45</b>	# 280	C/ 149	SC 149.3.7.2		L <b>4</b>	# 282
Souvignier, Ton		Broadcom			Souvignier,		Broadcom		
Comment Type		Comment Status A		Precoder	Comment		Comment Status A		RS-FE
		quested" bit values are conf s and sends to the link parti			RFER_	_CNT_LIMIT and	d RFRX_CNT_LIMIT are not de	efined	
		the PHY to choose the prec			Suggested				
noise condi	itions.				See pa	ige 2 of "tu_3ch	_03_0719.pdf".		
SuggestedRem	nedy				Response		Response Status C		
See page 5	5 of "tu_3ch_0"	1_0719.pdf".			ACCEF	PT IN PRINCIPI	.E.		
Response ACCEPT IN	N PRINCIPLE.	Response Status C			Grant	editorial license	to format the definitions correc	tly.	
	_				C/ 149B	SC 149B.1	P196	L17	# 283
Implement tu_3ch_01a		ers and text, with editoral lic	cense, as define	ed in	Souvignier,	Tom	Broadcom		
					Comment	Type ER	Comment Status A		E
Remove the	e shall on slide	e 4 in the register definitions	i.		There i	is a typo on line	17.		
C/ 149 S	C 149.4.5	P154	L <b>12</b>	# 281	Suggested	Remedy			
Souvignier, Ton	n	Broadcom					ded to 3.2318 and 3.23.19 for the		
Comment Type	TR	Comment Status A		State Diagrams		is loaded to 3.2	318 and 3.2319 for transmissic	n"	
unnecessa	ry delays in the	the Link Monitor state diagr e startup process. This can e LINK_DOWN state into the	be fixed by a si	mple change in the	Response ACCEF	PT.	Response Status C		
SuggestedRem					C/ 149B	SC 149B.1	P <b>196</b>	L18	# 284
	f of "tu_3ch_02	2_0719.pdf".			Souvignier,	Tom	Broadcom		
Response		Response Status W			Comment	Type ER	Comment Status A		E
•	N PRINCIPLE.				There i	is a typo on line	18.		
					Suggested	Remedy			
	49-34, change node = true.	the transition condition from	n LINK_DOWN	to LINK_UP to be			d from 3.2320 and 3.23.21" 320 and 3.2321"		
Also, chang	ge the transitio	n condition from LINK_UP	O LINK_DOWN	I to be loc_rcvr_status	Response		Response Status C		
= NOT_OK	+ PMA_refres	sh_status = FAIL			ACCEF	PT.			
In Figure 1	49-33 in State	PCS_DATA, remove start	minwait timer						
in rigure r			initiwalt_timer.						

Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

149 SC 149.4.2.4.5	P141	L <b>50</b>	# 285	C/ 149	SC 149.4.2.5	,	P <b>142</b>	L <b>25</b>	# 286
arjadrad, Ramin	Aquantia			Farjadrad,	Ramin		Aquantia		
omment Type <b>T</b>	Comment Status A		Vendor info	Comment	Туре Т	Comment S	Status R		Vendor inf
[PHY Capability Bits]: PHY between the two link partn but currently 802.3ch does uggestedRemedy	ers. Most previous BASE-			demon Vendoi	strate the chang	ge proposed, mo ge mode. Also, g	eaning to inclu	ude a field to ide	49-12a & 149-12b) to intify the er8 and Octer 9 for
Replace paragraph on page	e 141 line 50 with the fol	lowing.		Suggested	Remedy				
The format of PHY capabi Oct10<4:3> = PrecodeSel Oct10<7> = VendorSpecif T1 OAM capability enable optional capabilities by se VendorSpecificMessage b vendor specific data. Othe be reserved and set to 0.	ity bits is Oct10<0> = OA Oct10<5> = SlowWakeR cMessage. EEEen and O respectively. The PHY sh ting the corresponding ca it is set to 1 then the remainded	Men, Oct10<2:1 Request, Oct10<6 AMen indicate E hall indicate the s pability bits. Who aining 23 bits of t	6> = EEEen and EEE and MultiGBASE- sup-port of these two en the the MSG24 field is	Chang Chang Chang Chang Chang In Tabl Chang		m SlowWakeRe m SlowWakeRe om Reserved to om Reserved to om Reserved to n VendorSpecif Octer9<7:0>, O	eques to Rese eques to Rese o SlowWakeR o EEEen o VendorSpec iicMessage=1 cter10<6:0> to	erved erved equest ificMessage=0	ic Data
ACCEPT IN PRINCIPLE.	,			Change	e Octer10<7> \	•	•		
				Response		Response S	tatus C		
Implement the requested			with editorial license to	Response REJEC	CT.	Response S	tatus C		
	elling etc. as needed to fi		with editorial license to	REJEC	on the straw po			ment is not need	led as there won't be a
Implement the requested of format, number, correct sp	elling etc. as needed to fi	t the draft.	with editorial license to	REJEC Based	on the straw po	II for comment 2		ment is not need	led as there won't be a # 287
Implement the requested of format, number, correct sp Straw Poll - Chicago Rules What do you think should	elling etc. as needed to fi	t the draft.	with editorial license to	REJEC Based second	on the straw po d table.	II for comment 2	285, this comr		
Implement the requested of format, number, correct sp Straw Poll - Chicago Rules What do you think should 1. Reject - 4	elling etc. as needed to fi s be done with Comment 2	t the draft.		REJEC Based second	on the straw po d table. SC 149.3.2.2	II for comment 2	285, this comr P <b>95</b> Broadcom		
Implement the requested of format, number, correct sp Straw Poll - Chicago Rules What do you think should	elling etc. as needed to fi s be done with Comment 2	t the draft.		REJEC Based second Cl 149 Tu, Mike Comment T Figure	on the straw po d table. SC 149.3.2.2 Type T 149-9 shows a	Il for comment 2 2.15 <i>Comment S</i> multiplier assoc	285, this comr P <b>95</b> Broadcom Status <b>A</b> iated with coe	L <b>28</b> efficient <u>g_</u> 34. Th	# 2 <u>87</u> PC his is mathematically
Implement the requested of format, number, correct sp Straw Poll - Chicago Rules What do you think should 1. Reject - 4 2. Use the available remain 3. Define additional Capat	elling etc. as needed to fi s be done with Comment 2 ning bits (17) for Vendor S ility bits and a new state r	t the draft. 185? Specific commun machine to defin	nication - 13 e how these are	REJEC Based second Cl 149 Tu, Mike Comment Figure incorre	on the straw po d table. SC 149.3.2.2 Type T 149-9 shows a	Il for comment 2 2.15 <i>Comment S</i> multiplier assoc 34=1 based on I	285, this comr P <b>95</b> Broadcom Status <b>A</b> iated with coe Equation 149-	L28 efficient g_34. Th 1). It can only ca	# <u>287</u> PC
Implement the requested of format, number, correct sp Straw Poll - Chicago Rules What do you think should 1. Reject - 4 2. Use the available remain	elling etc. as needed to fi s be done with Comment 2 ning bits (17) for Vendor S ility bits and a new state r	t the draft. 185? Specific commun machine to defin	nication - 13 e how these are	REJEC Based second Cl 149 Tu, Mike Comment Figure incorre	on the straw po d table. SC <b>149.3.2.2</b> <i>Type</i> <b>T</b> 149-9 shows a ct (although g_3 erpretations in t	Il for comment 2 2.15 <i>Comment S</i> multiplier assoc 34=1 based on I	285, this comr P <b>95</b> Broadcom Status <b>A</b> iated with coe Equation 149-	L28 efficient g_34. Th 1). It can only ca	# 2 <u>87</u> PC his is mathematically
Implement the requested of format, number, correct sp Straw Poll - Chicago Rules What do you think should 1. Reject - 4 2. Use the available remain 3. Define additional Capata implemented for the Vend	elling etc. as needed to fi s be done with Comment 2 ning bits (17) for Vendor S ility bits and a new state r	t the draft. 185? Specific commun machine to defin	nication - 13 e how these are	REJEC Based second Cl 149 Tu, Mike Comment T Figure incorre mis-int Suggested In figur multipli	on the straw po d table. SC 149.3.2.2 Type T 149-9 shows a erpretations in t Remedy re 149-9, remove	Il for comment 2 2.15 <i>Comment</i> S multiplier assoc 34=1 based on I he future when e the multiplier r	285, this comr <b>P95</b> Broadcom Status <b>A</b> iated with coe Equation 149- people look at next to g_34, a	L28 efficient g_34. Th 1). It can only ca t this figure. and replace the	# 2 <u>87</u> PC his is mathematically

Response ACCEPT. Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149	SC	149.3.9.2.	13	P <b>125</b>	L <b>6</b>	# 288		C/ 149	SC 149	.8.2.1	P168	L <b>2</b>	# <u>2</u> 90
Tu, Mike				Broadcom				Tu, Mike			Broadcom		
Comment	Туре	т	Commen	t Status A			PCS	Comment	Туре Т		Comment Status A		MDI
						nis is mathematica		The MI	DI return lo	ss spe	cification as shown in Equat	ion 149-27 is u	nnecessarily restrictive.
				Equation 149-8 ople look at this		use confusions an	id mis-	Suggested	Remedy				
•			ure when pe	opie look at this	ngure.			See the	e proposal	on the	last page of "vakilian_3ch_0	01_0719.pdf".	
Suggested		-	o tho multipl	ior pover to A 2	and rapiase the	arrowed line into t	hot	Response			Response Status <b>C</b>		
						arrowed line into t er. Also replace th		•	PT IN PRIN		•		
	with "A	0		3		· · · · · · · · · · · · · · · · · · ·							
Response	)		Response	Status C							eq. 149-27 as shown on page ormat the equation correctly		
ACCE	PT.										lated equation.		puale associated rigure
C/ 149	SC	149.5.1		P <b>155</b>	L <b>44</b>	# 289							
Tu, Mike				Broadcom									
Comment	Туре	т	Commen	t Status A		Test	Modes						
The p	recoder	output is t	then mapped		s paragraph sho	ols into the preco ould be rephrased eorge.							
Suggested	dRemea	ly											
"Test shall g specif	mode 3 generate	e a continu 49.3.2.2.19	ing the prece lous pattern 9, to be prec	of {0, 3} symbols oded according	s to be input to t to the Transmit	3 is enabled, the he transmit preco precoder settings nctionality if MDIC	der as						

not implemented, and transmitted by the PMA timed from its local clock source."

Response Status C