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

C/ 149 S	SC	Р	L	# 1	38	C/ FM	SC	FM	P1	L 8	# 122
DiMinico, Chris	stopher	MC Commu	nications			Carlson, S	Steven		High Speed D	Design, Inc; Ma	arvell; Robert Bosch
Comment Typ	e T	Comment Status D			Channel	Comment	Туре	Е	Comment Status D	-	EZ2
The transr host PCB	nission chara are not define	cteristics between the Tx F ed.	unction and Rx	Function incl	uding the	The a focuse within	dmendn ed on 10 the sco	nent title) Gb/s ar pe of the	may cause confusion now that and greater automotive electricate PAR. See [1] Subclause 4.2. oard Operations Manual	at IEEE 802.3 al PHYS. Ame .3.2 'Review o	has a study group endment titles must be f draft standards' of the
SuggestedRer	nedy					<https< td=""><td>s://stand</td><td>ards.iee</td><td>e.org/develop/policies/opman/</td><td>/sb_om.pdf> s</td><td>tates 'Title of Document.</td></https<>	s://stand	ards.iee	e.org/develop/policies/opman/	/sb_om.pdf> s	tates 'Title of Document.
Create an between th that might	annex to prov ne Tx functior not be testab	vide information on channel to Rx function inclusive of ole in an implemented syste	transmission c the host PCB, I m. ide	haracteristics MDI and link	s defined segment	The ti the m	tle on th ost rece	e draft d ntly app	ocument and submittal form s roved PAR, or action(s) shall b	shall be within be taken to en	the scope as stated on sure this.'.
Commente	or to provide o	draft annex.				[2] Th	e IEEE-	SA 2014	Style manual	Public/mytool	/draft/styleman.ndf>.has
Pronosed Res	nonse	Boononoo Statua W				simila	r text in	subclau	se 9.2 'Title' that reads 'Per 4.	2.3.2 of the IE	EE-SA Standards Board
		Response Status W				Opera	ations M	anual, th	e title on the draft document s	shall be within	the scope as stated on
FROFUSI	ED REJECT.					the m	ost rece	ntly app	roved PAR.'. The proposed ch	ange is within	the scope of the PAR.
Commente	or has not pro	ovided text.				[3] Ite <https reads chang</https 	m 2 Of t s://devel 'Is the 7 je is with	the RevC opment. Fitle of the	Com check list standards.ieee.org/myproject/ ie submitted draft within the So cope of the PAR.	Public/mytools	s/approve/subchklst.pdf> AR?'. The proposed
						Suggestee	dRemea	ly			
						Chang Mana for Etl 2.5 G	ge: "Dra gement hernet A b/s, 5 G	ft Standa Parame mendme b/s and	ard for Ethernet Amendment:F ters for Greater Than 1 Gb/s A ent:Physical Layer Specificatio 10 Gb/s Automotive Ethernet.'	Physical Layer Automotive Ethons and Manag	Specifications and hernet" To: Draft Standard gement Parameters for
						Proposed	Respon	se	Response Status W		
						PROF	POSED	ACCEPT	IN PRINCIPLE.		
						Chang Mana	ge: "Dra gement	ft Standa Parame	ard for Ethernet Amendment:P ters for Greater Than 1 Gb/s A	hysical Layer	Specificationsland hernet"
						To: D Mana	raft Star gement	ndard for Parame	Ethernet Amendment:Physica ters for 2.5 Gb/s, 5 Gb/s and 1	al Layer Speci 10 Gb/s Autom	fications and notive Electrical Ethernet."

Pa **1** Li **8**

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

C/ FM	SC	P1	L13	# 96		C/ FM	SC FM	P 2	L 2	# <u>2</u> 59	
Marris, Artl	nur	Cadence Desi	gn Systems			den Beste	n, Gerrit	NXP Semicor	nductors		
Comment [·]	Туре Т	Comment Status D			EZ2	Comment	Туре Е	Comment Status D			ΕZ
I think and Ma	the name of the anagement Para	amenedment could be impro ameters for Greater Than 1 Gl	ved from "Physi b/s Automotive I	cal Layer Specifi Ethernet".	cations	"opera applica make	tion on automo ation". Other de the abstract cor	tive cabling in an automotive finitions in the spec refer to "s nsistent with that.	ingle balanced	pair". It seems use	ful to
This is that.	an amendment	for 2.5 Gb/s, 5 Gb/s, and 10	Gb/s PHYs and	the title should s	tate	Suggested Chang	Remedy e to: "operation	over single balanced pair cab	bling and suitab	ble for automotive	
Also th also be	ere is likely to b greater than 10	e a project for a 25G automot G.	ive PHY in the f	uture and this w	blud	applic Proposed	ations." Response	Response Status W	-		
Suggested	Remedy					PROP	OSED ACCEP	T IN PRINCIPLE.			
Chang "Physic Gb/s A	e the title of the cal Layer Specif utomotive Ether	amendment to: ications and Management Pa met"	rameters for 2.5	Gb/s, 5 Gb/s, a	nd 10	Chang tomoti To: on	e: on automotiv ve application. a single balan	ve cabling in an au- ced pair of conductors suitabl	e for automotiv	e applications.	
PROP	OSED ACCEPT					C/ FM	SC FM	P10	L 50	# 83	
Chang Manag To: Dr	e: "Draft Standa ement Paramete	rd for Ethernet Amendment:Pl ers for Greater Than 1 Gb/s A Ethernet Amendment:Physica	hysical Layer Sp utomotive Ether al Layer Specific	ecificationsland net" ations and		Maguire, V <i>Comment</i> Extran	alerie <i>Type</i> E eous comma. <i>Remed</i> y	The Siemon Comment Status D	Company		ΕZ
Manag	ement Paramete	ers for 2.5 Gb/s, 5 Gb/s and 1	0 Gb/s Automo	ive Electrical Eti	nernet."	Repla	ce, "amendmen	ts, and adds" with "amendme	nts and adds".		
2/ FM	SC FM	P1	L18	# 88		Proposed	Response	Response Status W			
Frowbridge	, Steve	Nokia				PROP	OSED ACCEP [.]	Т.			
Comment [·]	Type E	Comment Status D			EZ2						
Now th	at there is anoth	her effort that will likely becom	e a project for g	reater than 10 G	ib/s	C/ FM	SC FM	P 10	L 52	# 82	
		The be sumclenity unique				Maguire, V	alerie	The Siemon	Company		
Consic Gb/s ir	ler a title listing 2 terfaces are not	2.5 Gb/s, 5 Gb/s, 10 Gb/s ope t included	ration to make i	t clear that the >	10	Comment 802.30	<i>Type</i> E og is specified fo	Comment Status D or operation over a single bala	nced pair of co	onductors.	EZ
Proposed	Response	Response Status W				Suggested	lRemedy				
PROP	OSED ACCEPT	IN PRINCIPLE.				Repla balanc	ce, "operation o ed pair of cond	n a single balanced pair copp uctors".	er cable" with "	operation over a sin	igle
Chang Manag	e: "Draft Standa ement Paramete	rd for Ethernet Amendment:Pl ers for Greater Than 1 Gb/s A	nysical Layer Sp utomotive Ethe	ecificationsland net"		Proposed PROP	Response OSED ACCEP ⁻	Response Status W T.			
To: Dra Manag	aft Standard for ement Paramete	Ethernet Amendment:Physica ers for 2.5 Gb/s, 5 Gb/s and 1	al Layer Specific 0 Gb/s Automot	ations and ive Electrical Etl	nernet."						

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: Page, Line

Pa **10** Li **52**

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

C/ FM	SC FM	P19	L 34	# 89		C/ 1	SC 1.5	P 23	L 44	# 10
Trowbridg	je, Steve	Nokia				Anslow, F	Pete	Ciena		
Comment	tType E	Comment Status D			ΕZ	Commen	t Type E	Comment Status D		EZ
In the be the	e ToC, 3rd level he e first time 6 digits	adings from 149.11.1 onward appeared in a 3rd level head	s run together [.] ing.	with the text. This	may	As no	new abbreviation	s are being added, remove	1.5	
Suaaeste	dRemedv		-			Suggeste	aRemeay			
Adius	t the ToC format t	o provide space between the	number and th	e text for these		Rem	ove 1.5 from the d	raπ		
headi	ngs.					Proposed	l Response	Response Status W		
Proposed	l Response	Response Status W				PRO	POSED ACCEPT.			
PROF	POSED ACCEPT	IN PRINCIPLE.				C/ 30	SC 30.5.1.1.2	P 25	L12	# 236
Perfo with y In the all, ch	rm instructions pro your latest P802.30 e left hand pane, hi neck Paragraph Fo	ovided by Pete: Take a fresh ch book open, open the TOC ighlight the TOC file from you ormats, Import, OK.	copy of the late file from the ter r book. File, Im	est 802.3 template nplate. port, Formats, Des	and select	Zimmerm <i>Commen</i> It app than	an, George t <i>Type</i> E bears that the entry the "2.5GBASE-T	ADI, APL Gp, Comment Status D / "Single balanced pair of co 1"(10pt) - it should be the sa	, Aquantia, BMV nductors" is a me. Same com	V, Cisco, Commscope, S EZ smaller font size (9pt) ment for 5GBASE-T1
C/ 1	SC 1.5	P 23	L 44	# 3		and 1	0GBASE-T1 entri	es		
Haiduczer	nia. Marek	Charter Comm	unications			Suggeste	dRemedy			
Comment	Type E	Comment Status D			ΕZ	fix the n	e font size/style of ame of the aMAU	"Single balanced pair of cor Гуре.	nductors" in the t	three entries to match
Empt	y section 1.5					Proposed	l Response	Response Status W		
Suggeste Pleas	<i>dRemedy</i> e remove, no con	tent				PRO	POSED ACCEPT.			
Proposed PROF	Response POSED ACCEPT.	Response Status W								
C/ 1	SC 1.5	P 23	L 44	# 95						
Marris, Ar	thur	Cadence Desig	gn Systems							
Comment	t <i>Type</i> E e 1.5 if no new abl	Comment Status D			EZ					
Suggeste	dRemedy e 1.5	addod								
Proposed PROF	Response POSED ACCEPT.	Response Status W								

Pa **25** Li **12**

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

CI 44	SC 44.1.4.4	P 30	L 7	# 97	C/ 44	SC 44	4.3	P 31	L 3	# 237
Lo, Willian	n	Axonne Inc.			Zimmerr	nan, Georg	е	ADI, APL Gp,	Aquantia, BMV	V, Cisco, Commscope, S
Comment	Type TR	Comment Status D		Auto-Negotiation	Commer	nt Type	E	Comment Status D		EZ
Auton In Tab	egotiation column is le 125-2 (page 67)	s not in table 44-1. there is a column 98 show	ing Auto-Nego	tiation is optional for both	Editi inter	ng instructi leave is ov	on says te erly tall.	o insert "a" row - three rows	are inserted.	Also, the row for 2x
2.5GB	ver there isn't one for	SE-T1. or 10GBASE-T1.			Suggest Cha	edRemedy nge "a row'	to "new i	rows" in editing instruction, a	and adjust the I	height of the row for 2x
Also n	ote that autonegotia	ation is missing for 10GBA	SE-T as well.		inter	leave to ma	atch the o	thers.		
Suggested	Remedy				Propose	d Respons	e	Response Status W		
Add co	olumn for clause 98	Auto-Negotiation to table	44-1 and put C	0 in the 10GBASE-T1	PRC	POSED A	CCEPT.			
Add to	the footnote				C/ 45	SC 4	5.2.1.16	P 32	L 47	# 34
0 = 0	ptional				Remein,	Duane		Futurewei Tec	hnologies, Inc.	
As a s clause	ervice to humanity 28 Auto-Negotiatio	we can optionally fix this foon and put M in the 10GBA	or 10GBASE-T SE-T row.	by putting a column for	Commer Give	<i>nt Type</i> In this is a o	ER change to	Comment Status D Table 45-19 the new rows	should be unde	Formatting
² roposed PROP	Response POSED REJECT.	Response Status W			Instr Sam I not	uction shou le issue Ta e that othe	uld not be ble 45-21 r tables (e	"Change and insert ". ex 45-176) are marked property	erly.	j
Clause Clause	e 125 also has 125. e 44 does not have	2.4 which summarizes Au this. If we add the Auto-N	o-Neogotiatior egotiation Clau	n for 2.5G and 5G PHYs. uses to the table we'll	Suggest per o	edRemedy comment				
The co 44. If	ommenter is encour this is approved, a	raged to submit a commer new comment can be sub	t to Maintenar nitted to ch to	ce to add this to Clause add this.	Propose PRC	d Respons POSED A	e CCEPT IN	Response Status W NPRINCIPLE.		
C/ 44	SC 44.1.4.4	P30	L 7	# 204	Do t	he following	g for Table	e 45-19 and Table 45-21.		
Jawe, Pie	rs	Mellanox			Kee text	o the Editin in the adde	g instruct d rows	ion as is, this is the same a	s the example g	given. Underline the
Comment	Туре Т	Comment Status D		Auto-Negotiation	loxi		u 1000.			
Need and cl	to add 10GBASE-T ause correlation	1 and Clause 98 Auto-Neg	otiation to Tab	le 44-1, Nomenclature						
Suggested	Remedy									
Add 10 clause	0GBASE-T1 and Cl	ause 98 Auto-Negotiation	to Table 44-1,	Nomenclature and						
Proposed	Response	Response Status W								
PROP	OSED REJECT.									
Clause Clause also n	e 125 also has 125. e 44 does not have eed to add a subca	2.4 which summarizes Au this. If we add the Auto-N luse in Clause 44 for this.	co-Neogotiation egotiation Clau	n for 2.5G and 5G PHYs. uses to the table we'll						
44. lf	this is approved, a	new comment can be subi	nitted to ch to	add this.						

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: Page, Line

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ΕZ

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

C/ 45	SC 45.2.1.18	P33	L12	# 98	C/ 45	SC 45.2.1.1	8.aa	P33	L 37	# <u>1</u> 69
Lo, Willia	m	Axonne Inc.			Regev, Alo	on		Keysight Techn	ologies	
Comment	tType TR	Comment Status D		Registers	Comment	Type E	Comme	ent Status D		EZ
The 2 1.18.4	2 bits 1.21.5 and 1. 4. Note that 1.11.1	21.4 are redundant since the 1 states register 1.18 is for 1	ey are already of BASE-T1 ability	lefined in 1.18.5 and /.	ability well as	misspelled as " s the two related	abilitiy" in 4 d entries in t	places: titles of claus he Table of Contents	se 45.2.1.18. s	aa and 45.2.1.18.ab as
Note 2.5/5	that register 1.21 o GBASE-T1 fits the	auses some issues in that it critera for both 1.18 and 1.2	is for 2.5G/5G 1.	abilities and	Suggested chang	dRemedy le all occurances	s of "abilitiy"	to "ability"		
Neve best i	rtheless I don't thir f we advertise only	ik any other PHY capabilities in one location instead of 2	s are advertised	I twice and I think it is	Proposed PROF	Response POSED ACCEP	Respon T.	se Status W		
Suggeste	dRemedy				C/ 45	SC 45.2.1.1	8.aa	P 33	L 37	# 8
Delet	e content in page 3	33 lines 11 to 48			Kolesar P	Paul		CommScope		
Proposed PROI	Response POSED ACCEPT.	Response Status W			Comment typo	Туре Е	Comme	ent Status D		EZ
C/ 45	SC 45.2.1.18	P 33	L 24	# 260	Suggested	dRemedy				
den Beste	en, Gerrit	NXP Semicon	ductors		chang	e abilitiy to abilit	ty			
Comment What	t <i>Type</i> T 's the purpose to d	Comment Status D uplicate BASE-T1 abilities to	o register 21, as Register 11 i	Registers these are already	Proposed PROF	Response POSED ACCEP	Respon T.	se Status W		
are B T1 ne	ASE-T1 extended and to indicate 2.50	abilities or 2.5G/5G extended G/5G extended abilities next	d abilities. Why to BASE-T1 ex	would a 2.5G/5GBASE- tended abilities?	C/ 45	SC 45.2.1.1	8ab	P33	L 43	# 190
Suaaeste	dRemedv				Brandt, Da		Comm	Rockwell Autom	nation	F7
Propo	ose to remove BAS	E-T1 abilities from register 2	21.		Misso	<i>Type</i> ⊏ ellina	Comme			EZ
Proposed PROI	l Response POSED ACCEPT I	Response Status W N PRINCIPLE.			Suggester Chang	<i>dRemedy</i> ge: "abilitiy", To:	"ability"			
Remo Regis	ove the duplicate B ster 1.21 that the B	ASE-T1 abilities from registe ASE-T1 abilities can be four	er 1.21. In add nd in register 1.	tion, add a note below 18.	Proposed PROF	Response POSED ACCEP	Respon T.	se Status W		
C/ 45	SC 45.2.1.18a	a P 33	L 36	# <u>1</u> 89	C/ 45	SC 45.2.1.1	8.ab	P 33	L 43	# 9
Brandt, D	avid	Rockwell Auto	mation		Kolesar P	Paul		CommScope		
Comment Missp	t <i>Type</i> E pelling	Comment Status D		EZ	Comment	Type E	Comme	ent Status D		EZ
Suggeste Chan	<i>dRemedy</i> ge: "abilitiy", To: "a	ability"			Suggested	dRemedy le abilitiv to abilit	tv			
Proposed PROI	Response POSED ACCEPT.	Response Status W			Proposed PROF	Response POSED ACCEP	Respon T.	se Status W		
TYPE: TR	R/technical required	d ER/editorial required GR/	general require	d T/technical E/editorial G/g	eneral			Pa 33		Page 5 of 61

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalPa 33Page 5 of 61COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnLi437/12/2019 4:00:42 PMSORT ORDER: Page, Line

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

U 40	SC 45.2.1.7.4	P 33	L 54	# <u>2</u> 39		C/ 45	SC 45.2.1.1	92.1	P 35	L 18	# <u>1</u> 14	
Zimmerma	n, George	ADI, APL Gp,	Aquantia, BMW	/, Cisco, Comm	iscope, S	Dudek, Mi	ke		Marvell			
Comment	Туре т	Comment Status D			Registers	Comment	Туре Т	Comm	nent Status D		Regis	sters
Transr	nit fault descriptions	are in 45.2.1.7.4, Table 4	45-9, and Receiv	ve fault descripti	ions are	lt isn't	clear what all I	<i>IultiGBASE</i>	-T1 PMA/PMD res	sgisters means.		
in 45.2	.1.7.5, Table 45-10.	These need to be broug	ht into the draft	and updated to	include	Sugaested	lRemedv					
Additic	use 149 references	the reference to Transmit	and Receive Fa	BASE-11. Jults in clause 14	49	Be mo	ore specific as t	o which rea	isters this applies	to.		
althoug	gh the abilities are re	eferenced in 1.2310.			10,	Dranaad	Pooponoo	Doonor				
Suaaestea	Remedv					Proposed		Respor				
Bring 4	15.2.1.7.4 and Table	e 45-9, adding rows for 2.5	5GBASE-T1, 5G	BASE-T1, and		PROP	USED ACCEP		JPLE.			
10GB/ Bring 4 10GB/	ASE-T1 referencing 45.2.1.7.5 and Table ASE-T1 referencing	the appropriate section of 45-10, adding rows for 2 the appropriate section of	f clause 149 for 5GBASE-T1, 5 f clause 149.	transmit faults. GBASE-T1, and	t	Chang Chang To: T	e to the same e: This action his action shall	text as 45.2 shall set all set all PMA	.1.1.1 Reset (1.0.1 MultiGBASE-T1 F /PMD registers to	15). PMA/PMD registe their default stat	ers to their default sta es.	ites.
Add te	xt, if necessary, for	transmit and receive fault	s to clause 149.			C/ 45	SC 45.2.1.	92.4	P 36	L 9	# 238	
Proposed	Response F	Response Status W				Zimmerma	an. George		ADI. APL Gp	. Aquantia. BMV	/. Cisco. Commscope	e. S
PROP	OSED ACCEPT IN	, PRINCIPLE.				Comment	Type E	Comm	nent Status D	, , ,	, ,	ΕZ
						"Bits 1	.2309.10:9 cor	trol the curr	ent precoder settir	ng of the transmi	tter." - because	
Add th	e requested section	s into the document.				"curre	nt" can have m	eaning both	as time and as ar	electrical paran	neter, this isn't a great	ıt
TETD												
TFTD	text to be added.					way to	say this. The	rest of the p	paragraph, particul	arly the sentence	e "Setting these bits	ام ما
TFTD C/ 45	SC 45.2.1.192	P34	L 36	# 261		way to forces	say this. The the precoder t	rest of the p o the mode	baragraph, particul set." is clarity enou	arly the sentence ugh, and the wor	e "Setting these bits d "current" is unneed	led.
TFTD CI 45 Jen Bester	SC 45.2.1.192	P 34 NXP Semicor	L36	# 261		way to forces Suggested	say this. The the precoder to <i>Remedy</i>	rest of the p o the mode	paragraph, particul set." is clarity enou	arly the sentence ugh, and the wor	e "Setting these bits d "current" is unneed	led.
TFTD CI 45 den Bester Comment	SC 45.2.1.192 n, Gerrit <i>Type</i> T	P 34 NXP Semicor Comment Status D	L36 nductors	# 261	Registers	way to forces Suggested Delete	say this. The the precoder t <i>Remedy</i> "current" on P	rest of the p o the mode 36 L9	paragraph, particul set." is clarity enou	arly the sentence ugh, and the wor	e "Setting these bits d "current" is unneed	led.
TFTD CI 45 den Bester Comment It migh	SC 45.2.1.192 n, Gerrit <i>Type</i> T it be wise to keep so	P 34 NXP Semicor <i>Comment Status</i> D ome reserved registers aft	L36 nductors ter 2308 for futu	# 261	<i>Registers</i> stead of	way to forces Suggested Delete Proposed	say this. The the precoder t <i>Remedy</i> current" on P <i>Response</i>	rest of the p o the mode 36 L9 <i>Respor</i>	paragraph, particul set." is clarity enou	arly the sentence ugh, and the wor	e "Setting these bits d "current" is unneed	led.
TFTD C/ 45 Jen Bester Comment It migh directly	SC 45.2.1.192 n, Gerrit <i>Type</i> T it be wise to keep so y abutting the multi-g	P34 NXP Semicor Comment Status D ome reserved registers aff gig register addresses to	L36 nductors ter 2308 for futu 1Gbps addresse	# 261 re extension ins	<i>Registers</i> stead of other	way to forces Suggested Delete Proposed PROF	say this. The the precoder to <i>Remedy</i> "current" on P <i>Response</i> OSED ACCEP	rest of the p o the mode 36 L9 <i>Respor</i> T.	paragraph, particul set." is clarity enou	arly the sentence ugh, and the wor	e "Setting these bits d "current" is unneed	led.
TFTD C/ 45 len Bester Comment It migh directly IEEE 8	SC 45.2.1.192 SC 45.2.1.192 n, Gerrit <i>Type</i> T to be wise to keep so y abutting the multi- 302.3 PHYs there is	P34 NXP Semicor Comment Status D ome reserved registers aff gig register addresses to also some reserved addr	L36 nductors ter 2308 for futu 1Gbps addresse ess between PH	# 261 re extension ins es. Note that for ty types.	<i>Registers</i> stead of other	way to forces Suggested Delete Proposed PROP	say this. The the precoder t <i>Remedy</i> "current" on P <i>Response</i> OSED ACCEP	rest of the p the mode 36 L9 <i>Respor</i> T.	baragraph, particul set." is clarity enou	arly the sentence ugh, and the wor	e "Setting these bits d "current" is unneed	led.
TFTD Cl 45 Jen Bester Comment It migh directly IEEE & Suggestea	text to be added. SC 45.2.1.192 n, Gerrit <i>Type</i> T t be wise to keep so y abutting the multi-g 302.3 PHYs there is <i>Remedy</i>	P34 NXP Semicor Comment Status D ome reserved registers aff gig register addresses to also some reserved addr	<i>L</i> 36 nductors ter 2308 for futu 1Gbps addresse ess between PH	# 261 re extension ins es. Note that for IY types.	<i>Registers</i> stead of other	way to forces Suggested Delete Proposed PROF	say this. The the precoder to <i>Remedy</i> "current" on P <i>Response</i> OSED ACCEP SC 45.2.1.	rest of the p o the mode 36 L9 <i>Respor</i> T. 193.5	paragraph, particul set." is clarity enou nse Status W P37	arly the sentence ugh, and the wor	e "Setting these bits d "current" is unneed # 43	led.
TFTD Cl 45 den Bester Comment It migh directly IEEE & Suggestea The 10	Action be added. SC 45.2.1.192 A, Gerrit Type T It be wise to keep so y abutting the multi- 302.3 PHYs there is <i>Remedy</i> 000BASE-T1 starts a	P34 NXP Semicor Comment Status D ome reserved registers aff gig register addresses to also some reserved addr at address 2304 which eq	L36 nductors ter 2308 for futu 1Gbps addresse ress between PH juals 0x0900. Pro	# 261 re extension ins es. Note that for IY types. opose to start m	<i>Registers</i> stead of other nulti-gig	way to forces Suggested Delete Proposed PROF CI 45 Wienckow	say this. The the precoder to <i>Remedy</i> "current" on P <i>Response</i> OSED ACCEP SC 45.2.1. ski, Natalie	rest of the p o the mode 36 L9 <i>Respor</i> T. 193.5	paragraph, particul set." is clarity enou nse Status W P 37 General Moto	arly the sentence ugh, and the wor <i>L</i> 28 ors	e "Setting these bits d "current" is unneed # 43	led.
TFTD Cl 45 den Bester Comment It migh directly IEEE 8 Suggestea The 10 registe	text to be added. SC 45.2.1.192 n, Gerrit Type T it be wise to keep so abutting the multi-g 302.3 PHYs there is <i>Remedy</i> 000BASE-T1 starts a or addresses at 0x09	P34 NXP Semicor Comment Status D ome reserved registers aff gig register addresses to also some reserved addr at address 2304 which eq 010, which would be 2320	L36 nductors ter 2308 for futu 1Gbps addresse ress between PH guals 0x0900. Pro decimal.	# 261 re extension ins es. Note that for IY types. opose to start m	<i>Registers</i> stead of other nulti-gig	way to forces Suggested Proposed PROF CI 45 Wienckow Comment	say this. The the precoder t <i>Remedy</i> "current" on P <i>Response</i> OSED ACCEP SC 45.2.1. ski, Natalie <i>Type</i> E	rest of the p o the mode 36 L9 <i>Respor</i> T. 193.5 <i>Comm</i>	paragraph, particul set." is clarity enou nse Status W P37 General Moto nent Status D	arly the sentence ugh, and the wor <i>L</i> 28 ors	e "Setting these bits d "current" is unneed # 43	led.
TFTD Cl 45 den Bester Comment It migh directly IEEE & Suggestea The 10 registe Proposed	text to be added. SC 45.2.1.192 n, Gerrit Type T abutting the multi-f 302.3 PHYs there is Remedy 000BASE-T1 starts a ar addresses at 0x09 Response	P34 NXP Semicor Comment Status D ome reserved registers aff gig register addresses to also some reserved addr at address 2304 which eq 010, which would be 2320 Response Status W	L36 nductors ter 2308 for futu 1Gbps addresse ress between PH ruals 0x0900. Pro decimal.	# 261 re extension ins es. Note that for IY types. opose to start m	<i>Registers</i> stead of other nulti-gig	way to forces Suggested Delete Proposed PROF CI 45 Wienckow Comment Missir	say this. The the precoder t <i>Remedy</i> "current" on P <i>Response</i> OSED ACCEP SC 45.2.1. ski, Natalie <i>Type</i> E g article.	rest of the p o the mode 36 L9 <i>Respor</i> T. 193.5 <i>Comm</i>	paragraph, particul set." is clarity enou nse Status W P37 General Moto nent Status D	arly the sentence ugh, and the wor <i>L</i> 28 ors	e "Setting these bits d "current" is unneed # <u>43</u>	ed.
TFTD Cl 45 den Bester Comment It migh directly IEEE 8 Suggestea The 10 registe Proposed 1 PROP	text to be added. SC 45.2.1.192 n, Gerrit Type T it be wise to keep so abutting the multi-g 302.3 PHYs there is Remedy 000BASE-T1 starts a re addresses at 0x09 Response F OSED REJECT.	P34 NXP Semicor Comment Status D ome reserved registers aff gig register addresses to also some reserved addr at address 2304 which eq 010, which would be 2320 Response Status W	<i>L</i> 36 nductors ter 2308 for futu 1Gbps addresse ress between PH uals 0x0900. Pro decimal.	# 261 re extension ins es. Note that for IY types. opose to start m	<i>Registers</i> stead of other nulti-gig	way to forces Suggested Delete Proposed PROF CI 45 Wienckow Comment Missir Suggested	say this. The the precoder to <i>Remedy</i> "current" on P <i>Response</i> OSED ACCEP SC 45.2.1. ⁻ ski, Natalie <i>Type</i> E g article. <i>IRemedy</i>	rest of the p o the mode 36 L9 <i>Respor</i> T. 193.5 <i>Comm</i>	baragraph, particul set." is clarity enou nse Status W P37 General Moto nent Status D	arly the sentence ugh, and the wor <i>L28</i> ors	e "Setting these bits d "current" is unneed # 43	ed.
TFTD Cl 45 den Bester Comment It migh directly IEEE & Suggestea The 10 registe Proposed I PROP This cl	text to be added. SC 45.2.1.192 n, Gerrit Type T ti be wise to keep so / abutting the multi-g 302.3 PHYs there is //Remedy 000BASE-T1 starts a or addresses at 0x09 Response F OSED REJECT. nange would require	P34 NXP Semicor Comment Status D ome reserved registers aff gig register addresses to also some reserved addr at address 2304 which eq 010, which would be 2320 Response Status W	L36 nductors ter 2308 for futu 1Gbps addresse ess between PH uals 0x0900. Pri decimal.	# 261 re extension ins es. Note that for IY types. opose to start m 45 and 149.	<i>Registers</i> stead of other nulti-gig	way to forces Suggested Proposed PROP Cl 45 Wienckow Comment Missir Suggested Chang To: th	say this. The the precoder to <i>Remedy</i> "current" on P <i>Response</i> OSED ACCEP SC 45.2.1." ski, Natalie <i>Type</i> E g article. <i>Remedy</i> ye: that the polarity of	rest of the p o the mode 36 L9 <i>Respor</i> T. 193.5 <i>Comm</i> arity of rece	baragraph, particul set." is clarity enou- nse Status W P37 General Moto nent Status D iver is reversed. ver is reversed.	arly the sentence ugh, and the wor <i>L</i> 28 ors	e "Setting these bits d "current" is unneed # 43	ed.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 37	Page 6 of 61
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 28	7/12/2019 4:00:42 PM
SORT ORDER: Page, Line		

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

C/ 45 SC 45.2.1.194 P38 L13 # 277	C/ 45 SC 45.2.1.194.2 P38 L36 # 245
Souvignier, Tom Broadcom	den Besten, Gerrit NXP Semiconductors
Comment Type TR Comment Status D	Precoder Comment Type TR Comment Status D Et
In D2.0, the "Precoder requested" bit values are configured by user. The PHY simp in these register bit values and sends to the link partner via InfoField. It may be mo robust to optionally allow the PHY to choose the precoder on-the-fly based on chan noise conditions.	Slow wake request is an indication in one direction, which leaves the option open that it would still require to support regular wake-up in the other direction. I think it would be bette to specify that if one of the transceivers on a link request slow-wake, that the slow-wake is applied in both directions.
SuggestedRemedy	SuggestedRemedy
See page 3 of "tu_3ch_01_0719.pdf".	Add the sentence to the paragraph:
Proposed Response Response Status W	If either this PHY or its link partner request slow wake, the PHY may only transmit alert immediately following refresh.
PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W
TFTD after reviewing the presentation.	PROPOSED REJECT.
C/ 45 SC 45.2.1.194.2 P38 L32 # 279	The desire was to allow these to be different in each direction.
Souvignier, Tom Broadcom	C/ 45 SC 45.2.1.194.3 P38 L40 # 278
Comment Type TR Comment Status D	Precoder Souvignier Tom Broadcom
In D2.0, the "Precoder requested" bit values are configured by user. The PHY simple the second state is a second state of the second	ly reads
robust to optionally allow the PHY to choose the precoder on-the-fly based on chan noise conditions.	In D2.0, the "Precoder requested" bit values are configured by user. The PHY simply reads in these register bit values and sends to the link partner via InfoField. It may be more
SuggestedRemedy	noise conditions.
See page 4 of "tu_3ch_01_0719.pdf".	SuggestedRemedy
Proposed Response Response Status W	See page 4 of "tu 3ch 01 0719.pdf".
PROPOSED ACCEPT IN PRINCIPLE.	Pronosed Response Response Status W
TFTD after reviewing the presentation.	PROPOSED ACCEPT IN PRINCIPLE.
	TFTD after reviewing the presentation.

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

	SC 45.2.1.19	5 P 39	L 9	# 35		C/ 45	SC 45.2.1.19	6	P 40	L 30	#	38
Remein, D	Juane	Futurewei Te	echnologies, Inc.			Farjadrad	, Ramin	A	quantia			
Comment	Type TR	Comment Status D			EZ	Comment	Туре Т	Comment Sta	tus D			Test Mode
Does registe up." Suggestee Chang "The v "The v	the following state or 1.2112 are the <i>IRemedy</i> ge: values in this regi values in this regi	ement imply that once the d n valid forever? "The values ster are not valid until link is ster are not valid when the l	evice has seen a in this register a up." to ink is down."	n link up the bits i re not valid until li	in nk is	[JITTI squar speec allow signa Comr	ER TEST MODE e wave signal use test patterns (JF test mode 2 to su ls to use in which nents tagged JIT	The jitter test in ed in BASE-T PH 203A & JP03B) us upport both tests, tests. TER TEST MODE	149.5.2.3.1 i Ys and the t sed in backp and addition	s designed for est in 149.5.2.3 lane phys. A c aal language is treated as a gro	the low-free B.2 is desig ontrol bit is needed sp oup.	quency Ined for the at- s needed to ecifying which
Proposed	Response	Response Status W				Suggeste	dRemedy	<i>(</i> ,				
PROF	OSED ACCEPT.					Table 0,1 of Wave	45-155e: Add ne register 1.2313 () 1.2313 1.0= 0	w rows after Res Test mode contro (IP03A pattern)	erved row, a ol) register ba 1 2313 1 0	nd adjust reser ased: 1.2313.1: = 10 (JP03B pa	ved row to :0= 00 (Noi attern) 1 2:	allocate bits rmal Sqaure 313 1:0= 11
C/ 45	SC 45.2.1.19	5.2 P39	L 53	# 246		(Rese	erved),	r (or oo, r pation)	, 1.2010.110	= 10 (01 00D pt	,,	010.1.0-11
den Beste Comment	n, Gerrit <i>Type</i> T	NXP Semico Comment Status D	onductors		EEE	Insert	new subclause 4	15.2.1.196.2 as fo	llows:			
Link p open would	artner slow wake hat it would still r be better to spec	request is an indication in a equire to support regular wa	one direction, whi ake-up in the othe	ch leaves the opti er direction. I think	ion cit	45.2. ² Wher	1.196.2 Jitter test the transmitter i	control (1.2313.1	:0) nite 1 2313 1	0 control the r	attern of th	ha iittar tast
the slo	w-wake is applie	ify that if one of the transce d in both directions.	ivers on a link re	quest slow-wake,	that	signa transi for mo	I. A value of 0 0 mits the JP03A paper	transmits a squar attern, and a value	e wave from e of 1 0 trans	the transmitter smits the JP03	; a value o B pattern.	f 0 1 See 149.5.1
the slo Suggestee	ow-wake is applie	ify that if one of the transce d in both directions.	ivers on a link re	quest slow-wake,	that	signa transr for mo Proposed	I. A value of 0 0 mits the JP03A particular the JP03A particular the JP03A particular the second sec	transmits a squar attern, and a value Response Sta	e wave from e of 1 0 trans tus W	the transmitter smits the JP03	r, a value o B pattern.	of 0 1 See 149.5.1
the slo Suggested Add th If eithe immed	ow-wake is applie <i>Remedy</i> he sentence to the er this PHY or its diately following r	ify that if one of the transce d in both directions. e paragraph: link partner request slow wa efresh.	ivers on a link re ake, the PHY ma	quest slow-wake, y only transmit ale	that	signa transi for mo Proposed PROF	A value of 0 0 nits the JP03A propre information. Response POSED ACCEPT	rransmits a squar attern, and a valu <i>Response Sta</i> IN PRINCIPLE.	e wave from e of 1 0 trans tus W	the transmitter smits the JP03	sattern of a , a value o B pattern.	f 0 1 See 149.5.1
the slo Suggested Add th If eithe immer	w-wake is applie <i>IRemedy</i> the sentence to the or this PHY or its diately following r <i>Response</i>	ify that if one of the transce d in both directions. e paragraph: link partner request slow wa efresh. <i>Response Status</i> W	ivers on a link re ake, the PHY ma	quest slow-wake, y only transmit ale	that	signa signa transr for mo <i>Proposed</i> PROF	I. A value of 0 0 ¹ nits the JP03A por pre information. <i>Response</i> POSED ACCEPT ment as propose	transmits a squar attern, and a valu <i>Response Sta</i> IN PRINCIPLE. d but refer to 145	tus W 5.2.3 which	the transmitter smits the JP03	ter tests ar	re defined.
the slo Suggestee Add th If eithe immer Proposed PROF	w-wake is applie dRemedy he sentence to the or this PHY or its diately following r Response DOSED REJECT.	ify that if one of the transce d in both directions. e paragraph: link partner request slow wa efresh. <i>Response Status</i> W	ivers on a link re ake, the PHY ma	quest slow-wake, y only transmit ale	ert	signa transı for mo <i>Proposed</i> PROF Imple Table	 A value of 0 0 1 nits the JP03A properties of the second processor of the second processor of the second processor of the second properties of th	transmits a squar attern, and a valu <i>Response Sta</i> IN PRINCIPLE. d but refer to 145 ew rows after Res	tus W 5.2.3 which erved row, a	the transmitter smits the JP03I is where the jitt	ter tests ar	e defined.
the slo Suggested Add th If eithe immed Proposed PROF The d	w-wake is applie dRemedy he sentence to the or this PHY or its diately following r <i>Response</i> OSED REJECT. esire was to allow	ify that if one of the transce d in both directions. e paragraph: link partner request slow wa efresh. <i>Response Status</i> W v these to be different in eac	ivers on a link re ake, the PHY ma ch direction.	quest slow-wake, y only transmit ale	ert	signa transi for mo <i>Proposed</i> PROF Imple Table 0,1 of Wave (Rese	A value of 0 0 ¹ nits the JP03A p ore information. Response POSED ACCEPT ment as propose 45-155e: Add ne register 1.2313 (), 1.2313.1:0= 0 roved),	transmits a squar attern, and a value <i>Response Sta</i> IN PRINCIPLE. d but refer to 145 w rows after Res Test mode contro 1 (PRBS13Q patt	tus W 5.2.3 which erved row, a ol) register bi ern), 1.2313	is where the jitt adjust reser ased: 1.2313.1: .1:0= 10 (Rese	ter tests ar ved row to 0= 00 (Nor rved), 1.23	e defined. allocate bits rmal Sqaure
the slo Suggested Add th If eithu immed Proposed PROF The d	w-wake is applie <i>Remedy</i> the sentence to the er this PHY or its diately following r <i>Response</i> OSED REJECT. esire was to allow	ify that if one of the transce d in both directions. e paragraph: link partner request slow wa efresh. <i>Response Status</i> W v these to be different in eac	ivers on a link re ake, the PHY ma ch direction.	quest slow-wake, y only transmit ale	ert	signa transi for mo <i>Proposed</i> PROF Imple Table 0,1 of Wave (Rese Insert	A value of 0 0 ¹ nits the JP03A pi pre information. <i>Response</i> POSED ACCEPT ment as propose 45-155e: Add ne register 1.2313 (), 1.2313.1:0= 0 rved), new subclause 4	Response Sta Response Sta IN PRINCIPLE. d but refer to 145 w rows after Res Test mode contro (PRBS13Q patt 15.2.1.196.2 as fo	tus W 5.2.3 which erved row, a bl) register ba ern), 1.2313	is where the jitt nd adjust reser ased: 1.2313.1: .1:0= 10 (Rese	ter tests ar ved row to 0= 00 (Nor rved), 1.23	e defined. allocate bits rmal Sqaure 113.1:0= 11

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

C/ 45	SC 45.2.1.197	P 40	L 53	# 196	C/ 45	SC	45.2.1.198	P 41	L 8	# 36	
Dawe, Pie	ers	Mellanox			Remein, [Duane		Futurewei Tech	nologies, Inc	».	
Comment	Type TR	Comment Status D		Registers	Comment	Туре	TR	Comment Status D			EZ
This r to a mean errors vague proba	register should com an accuracy of 0.5 s (is the PHY supp s? or) nor is "the e is not appropriate bly difficult and unr	tain "the current SNR opera dB", yet there is no indicatio osed to measure the noise slicer input" defined. Trying Anyway, providing that ac necessary.	ating margin me on of what "SNF of the signal!? g to set an accu ccuracy at the e	asured at the slicer input R operating margin" or infer it from FEC iracy on something so xtremes of the range is	It strik "is in two's notati <i>Suggeste</i> Chan	tes mea offset tv comple on is at dRemed ge	odd that 1 vo's comple ment notati least inforr	.2314 (SNR) is in "offset bina ement notation". Furthermore ion" (hence the "Must Be Sati nally described in Wikipedia.	ry notation" a l could find sfied = YES)	and Register 1.2 no reference for while offset bin	2315 is in · "offset ary
Delete	e "to an accuracy o	f 0.5 dB"			"offse " offse	t two's o et binary	complemer	nt notation" to			
Proposed PROF	Response POSED REJECT.	Response Status W			Proposed PROF	Respor POSED	nse ACCEPT.	Response Status W			
This v the ac	was discussed durin ccuracy, which mat	ng a previous meeting and ches MultiGBASE-T PHY's	the decision of .	the group was to keep	C/ 45 Lo, Williar	SC n	45.2.3.74.4	4 P44 Axonne Inc.	L 50	# 100	
Cl 45	SC 45.2.1.197	P 41	L1	# 99	Comment	Туре	Е	Comment Status D			EZ
Lo, Williar	n	Axonne Inc.			There	is no c	hange to th	is clause from 802.3bp so it s	should not sh	low up in the do	cument.
Comment The ir numb registe	<i>Type</i> T ntent of registers 1. er. However the de ers are described a <i>dRemedy</i>	Comment Status D 2314 and 1.2315 is to repre- scription is a little confusing as 16 bits registers.	esent -12.7 dB t g for the uninitia	<i>Registers</i> o +12.7dB as an 8 bit ated in that these	Suggeste Remo Proposed PROF	dRemed ove clau <i>Respor</i> POSED	dy se nse ACCEPT.	Response Status W			
2 way	s to fix this. Pick c	ne. My preference is meth	od 1.		C/ 45	SC	45.2.3.75	P 45	L14	# 123	
 2 ways to fix this. Pick one. My preference is method 1. 1) Define the registers to be 8 bits only. Hence these 2 registers are 1.2314.15:8 and 1.2315.15:8 respectively. Set 1.2314.7:0 and 1.2315.7:0 to reserved. 2) There is an example stating 0.0dB is 0x8000. Add 2 more examples where 12.7dB is 0xFF00 and -12.7dB is 0x0100. Note that this solution is not as clean as in theory bits 7:0 can show more resolution and we are now mixing decimal and binary representations with fractional 0.1dB. 					Nicholl, S Comment Table says Suggeste Repla	hawn <i>Type</i> 45-244 'transm d <i>Remed</i> ice "tran	E contains n itted first". dy smitted firs	Xilinx Comment Status D nessage data received from t Seems mis-leading / inconsis	he link partne stent. pccurrences i	er, but the descr	<i>EZ</i>
Proposed	Response	Response Status W			Proposed	Respor	nse	Response Status W			
PROF	POSED ACCEPT II	N PRINCIPLE.			PROF	POSED	ACCEPT.				
Imple	ment method 1 pro	vided in the Suggested Re	medy.								

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

CI 45	SC 45.2.3.76	P 45	L 50	# <u>1</u> 1		CI 45	SC	45.2.3.77	P 46	L19	# 13	
Anslow, F	Pete	Ciena				Anslow, P	ete		Ciena			
Commen	t Type E	Comment Status D			ΕZ	Comment	Туре	Е	Comment Status D			ΕZ
Table	e 45-244a is split a	cross two pages with only or	ne body row on	the first page.		"Link I and al	Partner' Iso in th	" should be le Name co	"Link partner" (lower case p lumn (4 instances)	o in partner) in t	he title of Table 45	5-244b
Suggeste Incre	edRemedy ase the Orphan rov	ws setting in Table Designer	· to 4			Suggestee	dRemed	dy	(
Proposed	l Response	Response Status W				Chang instan	ge "Part ices)	tner" to "pai	rtner" in the title of Table 45	-244b and also	in the Name colun	nn (4
PRO	POSED ACCEPT.					Proposed	Respor	nse	Response Status W			
C/ 45	SC 45.2.3.77	P 46	L15	# 12		PROF	POSED	ACCEPT.				
Anslow, F	Pete	Ciena				CI 45	SC	45.2.3.77	P 46	L 22	# 124	
Commen	tType E	Comment Status D			ΕZ	Nicholl, Sł	nawn		Xilinx			
"The case	Link partner Multio	BASE-T1" should be "The I	link partner Mult	iGBASE-T1" (lower		Comment	Туре	Е	Comment Status D			ΕZ
Suggeste	edRemedy					Table says "	45-244 transmi	b contains itted first".	message data received fror Seems mis-leading / incons	n the link partne sistent.	er, but the descript	ion
Chan	nge "Link" to "link"					Suggested	dRemed	dy				
Proposed	l Response	Response Status W				Repla	ce "tran	smitted firs	t" with "received first" for all	occurrences in	the table.	
PRO	POSED ACCEPT.					Proposed	Respor	nse	Response Status W			
C/ 45	SC 45.2.3.77	P 46	L16	# 250		PROF	POSED	ACCEPT.				
den Beste	en, Gerrit	NXP Semicor	nductors									
Commena Missi	<i>t Type</i> E	Comment Status D 9.3.9.2.12 like in sub-clause	45.2.3.76		EZ							
Suggeste Add t	edRemedy the same reference	e to 45.2.3.77										
Proposed PRO	l Response POSED ACCEPT I	Response Status W										
Add " Table	"See 149.3.9.2.12 f e 45–244b."	for details on the OAM statu	s message defi	nition." before " See								

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

C/ 45	SC 45.2.3.78	P 46	L 39	# 4	C/ 45 SC 45.2.3.80	.2 P49	L 31	# 44
Hajduczer Comment	ia, Marek <i>Type</i> TR Comr	Charter Com nent Status D		Registers	Wienckowski, Natalie Comment Type E	General Moto Comment Status D	rs	
Is this MultiC	really intended to be an o BASE-T1 PCS control rec	ptional requirement fister should be cho	t? "The default van osen so that the i	alue for each bit of the nitial state of the device	typo			
upon	power up or reset is a norr	nal operational stat	e without manag	ement intervention."	SuggestedRemedy	in datasting in datasting		
Suggestee	lRemedy				To: PCS receiver is de	tecting		
Sugge There none keywo	est to rewrite as an informa are at least 28 instances of which strikes me as inte ord "should" ought to be re	ative text, which I be of the keyword "sho nded optional requ viewed and if the gi	elieve it is. buld" in the draft irement. Each ar iven statement is	(excludign front page), ad every istance of the not intended as an	Proposed Response PROPOSED ACCEPT.	Response Status W		
option	al requirement, text ought	to be rewritten as i	nformative instea	ad.	C/ 45 SC 45.2.3.80	.4 P49	L 47	# 192
Proposed	Response Respo	nse Status 🛛 🛛 🛛 🛛 🛛 🖉			Brandt, David	Rockwell Auto	omation	
PROF	OSED ACCEPT IN PRIN	CIPLE.			Comment Type E	Comment Status D		
hange	The default value for ea	ch bit of the MultiG	BASE-T1 PCS o	ontrol register should be	Description of non-latch	ned source is wrong.		
chose	n so that the initial state of	the device upon p	ower up or reset	is a normal operational	SuggestedRemedy			
state	without management inten	vention.	SE-T1 PCS contr	ol register is chosen so	Change: "PCS high E	BER status bit (3.2324.9)."		
that th	e initial state of the device	upon power up or	reset is a norma	l operational state	To: "PCS high RFER	status bit (3.2324.9)."		
withou	it management interventio	n."			Proposed Response	Response Status W		
In add P40 I	ition: 25 and P46 L 39 change "	should be" to "is"			PROPOSED ACCEPT.			
P105	L48 change "should be" to	"are"			C/ 45 SC 45.5.3.3	P 52	L 8	# 14
There	are 2 we have to discuss	in the TF, because	it isn't clear if the	ese are requirements.	Anslow, Pete	Ciena		
>> on	page 99, lines 17-19, ther	e are two "should's	" regarding initial	ization of the precoder,	Comment Type E	Comment Status D		
that m >> pa	ay be needed to be made ge 134 L12 (rx_lp_ping "sh	shalls. The task for hould be" looped ba	orce needs to dis lick – but this app	cuss this. ears automatic in the	IEEE P802.3cg D3.0 is inserted by this draft sh	inserting PICS items MM15 hould start at MM205	2 through MM20	04 so the items being
The o	ther "shoulds" are in the te	mplate, e.g. at the	bottom of the Pl	CS tables.	SuggestedRemedy			
CI 45	SC 45.2.3.80.2	P 49	L 31	# 191	Change the editing inst "Insert PICS Items MM	ruction to: 205 through MM227 after MI	M204 (inserted b	by IEEE Std 802.3cg-
Brandt, Da	avid	Rockwell Aut	omation		201x) in the table in 45 Renumber the PICS ite	.5.3.3 as follows:"		
Comment	Type E Comr	nent Status D		EZ	Proposed Response	Response Status W		
Duplic	ate text				PROPOSED ACCEPT			
Suggestee	lRemedy							
Chanę	ge: "is detecting is detecting	g", To: "is detecting	g"					
Proposed PROF	Response Respo POSED ACCEPT.	nse Status W						

Pa **52** Li **8** ΕZ

ΕZ

ΕZ

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

CI 45	SC 45.5.3.3	P 52	L 49	# 15	CI 4	5 S	C 45.5.3.3	P 53	L 25	#	46	
Anslow, P	ete	Ciena			Wie	nckowski, N	Natalie	General Motors				
Comment	Туре Е	Comment Status D			EZ Con	ment Type	⇒ T	Comment Status D				Registers
When	tables split acros	s pages, the bottom ruling c	f the table on th	e first page should be)	PICS for 4	5.2.194.4 wł	nen there is no shall.				
"very	thin"				Sug	gestedRem	nedy					
Suggeste	dRemedy				0	Do one of t	the following	:				
Make the ta the ta Table	the bottom ruling ble in 45.5.3.3 at t ble in 45.5.3.7 at t 78-4 on page 57	"very thin" for: he foot of page 52 he foot of page 54				On P39L4 Subclause OR Delete PIC	Change "sh from 45.2.1 S MM223	ould be set to zero" to "shall be s .194.4 to 45.2.1.194.5.	set to zero"	AND on P	53L25	Change
the ta the ta	ble in 149.11.4.2. ble in 149.11.4.3.4 ble in 149.11.4.4.3	at the foot of page 173 at the foot of page 179 at the foot of page 184			Proj	osed Resp PROPOSE	oonse ED ACCEPT	Response Status W				
Proposed PROF	Response	Response Status W				On P39L4	Change "sh	ould be set to zero" to "shall be s	set to zero"			
					CI 4	5 S	C 45.5.3.3	P 53	L 28	#	47	
C/ 45	SC 45.5.3.3	P 53	L 22	# 45	Wie	nckowski, ľ	Natalie	General Motors				
Wienckow	/ski, Natalie	General Moto	ors		Con	ment Type	e T	Comment Status D				EZ
Comment	Туре Т	Comment Status D		Regis	sters	ncorrect re	eference					
PICS	for 45.2.194.4 wh	en there is no shall.			Sug	gestedRem	nedv					
Suggeste	dRemedy				0	, Change Su	ubclause froi	m 45.2.1.194.5 to 45.2.1.195.4.				
Do or On P3 OR Doloti	e of the following: 38L48 Change "sh	ould be set to zero" to "shal	l be set to zero"		Prop	osed Resp PROPOSE	oonse ED ACCEPT	Response Status W				
Delete	Posponso	Doononoo Statua W			CI 4	5 S	C 45.5.3.3	P 53	L 29	#	170	
PROF	POSED ACCEPT	IN PRINCIPLE.			Reg <i>Con</i>	ev, Alon <i>ment Type</i>	e E	Keysight Techno Comment Status D	logies			ΕZ
On P3	38L48 Change "sh	ould be set to zero" to "shal	I be set to zero"			advertising	misspelled	as "advertisingg"				
					Sug	ges <i>tedRen</i> change "ac	nedy dvertisingg" †	to "advertising"				
					Prop	osed Resp	oonse	Response Status W				

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Pa **53** Li **29**

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

-						-						
C/ 45	SC 45.5.3.3	P 53	L 31	# 48		CI 45	SC 4	45.5.3.7	P 55	L 4	# 171	
Wienckow Comment Incorre	vski, Natalie <i>Type</i> T ect reference	General Motors Comment Status D		Ľ	ΞZ	Regev, Al <i>Comment</i> "the" i	on <i>Type</i> s repeat	E ed as "the	Keysight Techn Comment Status D the" in 2 places in the draft	ologies		EZ
Suggested Chang	<i>dRemedy</i> ge Subclause from	1 45.2.1.194.5 to 45.2.1.195.5.				Suggestee chang	dRemed je all occ	y curances c	of "the the" to "the"			
Proposed PROP	Response POSED ACCEPT.	Response Status W				Proposed PROF	Respon POSED	se ACCEPT.	Response Status W			
C/ 45	SC 45.5.3.7	P 54	L 7	# 49		C/ 45	SC 4	45.5.3.7	P55	L14	# 87	
Wienckow Comment Incorre	vski, Natalie <i>Type T</i> ect reference. Thi	General Motors <i>Comment Status</i> D is is not what is in P802.3:2018		Ľ	ΞZ	Laubach, <i>Comment</i> "the th	Mark <i>Type</i> ne"	E	Broadcom Comment Status D			EZ
Suggested Chang	<i>dRemedy</i> ge Subclause from	1 45.2.3.172.1 to 45.2.3.172.2.				Suggestee Chang	dRemed ge to sin	y gle "the"				
Proposed PROP	Response POSED ACCEPT.	Response Status W				Proposed PROF	Respon POSED	se ACCEPT.	Response Status W			
C/ 45	SC 45.5.3.7	P 54	L 13	# 16								
Anslow, P Comment In the	ete <i>Type</i> E editing instruction	Ciena Comment Status D "after Item RM184" should be	after Item	RM190"	EZ							
Suggested In the	dRemedy editing instruction	change "after Item RM184" to	after Item	RM190"								
Proposed PROP	Response POSED ACCEPT.	Response Status W										
C/ 45	SC 45.5.3.7	P 55	L 4	# 86								
Laubach, I <i>Comment</i> "the th	Mark <i>Type</i> E ne"	Broadcom Comment Status D		Ŀ	ΞZ							
Suggested Chang	<i>dRemedy</i> ge to single "the"											
Proposed PROP	Response POSED ACCEPT.	Response Status W										

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

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

C/ 78	SC 78.1.4	P 56	L 7	# 17		CI 78	SC 78.2	P 56	L 49	# 19	
Anslow, P	ete	Ciena Comment Status			FZ	Anslow, P Comment	ete Type F	Ciena Comment Status			FZ
Comr http:// Sor 1. lr 2. lr 3. C	nent #65 against www.ieee802.org t the result in "sp ncreasing speed. ncreasing reach (Decreasing numb	P802.3cj D2.0 defined the o g/3/cj/comments/P8023-D2p0 eed/reach" order using the for maximum supported distance er of lanes	rder of items in ⁻)-Comments-Fir Illowing set of ru e over the medit	Fable 78-1. See ıal-byID.pdf#page⊧ les. um).	=14	Table Suggester In Tab 10GB	78-2 is missin dRemedy ble 78-2 add at ASE-T1 Response	n ellipsis row with default ruling	after the row for at the bottom at	10GBASE-T1 fter the row for	
The	following supple	mental rules address are inc	luded to address	s special cases.		PROF	POSED ACCE	PT.			
4. F 5. "(6. A	Copper" PHYs pr Iphanumeric sor	recede "Fiber" PHYs (all else t (all else being equal).	being equal).	1010.		C/ 78 Wienckow	SC 78.2 vski, Natalie	P 56 General Mote	L 50 ors	# 50	
Apply T, and	ing these rules p d 10GBASE-T1 b	uts 2.5GBASE-T1 before 2.5 pefore 10GBASE-T.	GBASE-T, 5GB	ASE-T1 before 5G	BASE-	Comment Missir	<i>Type</i> E ng bottom row	Comment Status D			ΕZ
Suggeste Chan "Inser 2018) 2018) (unch	dRemedy ge the editing ins rt a row for 2.5GE , insert a row for , and insert a row anged rows not s	truction to: 3ASE-T1 after 2.5GBASE-KX 5GBASE-T1 after 5GBASE- v for 10GBASE-T1 after 10G shown):"	((as inserted by KR (as inserted BASE-KR in Tat	IEEE Std 802.3cb by IEEE Std 802.3 ble 78-1 as follows)- 3cb- ;	Suggester Add r Proposed PROF	dRemedy ow to bottom o Response POSED ACCE	of table with single column and <i>Response Status</i> W PT.	"" in the cell.		
Proposed	Response	Response Status W				CI 78	SC 78.3	P 57	L 5	# 5	
PROF	POSED ACCEPT					Hajduczer	nia, Marek	Charter Com	munications		DICS
CI 78	SC 78.2	P 56	L 29	# 18		New s	shall statemen	ts were added, PICS were not	updated		1100
Anslow, P Comment Comr http:// This c Apply T, and	Yete Type E nent #66 against (www.ieee802.org defined the sort o ing these rules p d 10GBASE-T1 b	Ciena <i>Comment Status</i> D P802.3cj D2.0 defined the o g/3/cj/comments/P8023-D2p(rder to be the same as for Ta uts 2.5GBASE-T1 before 2.5 pefore 10GBASE-T.	rder of items in ⁻)-Comments-Fir able 78-1 GBASE-T, 5GB	Fable 78-2. See al-byID.pdf#page₌ ASE-T1 before 5G	<i>EZ</i> =14 GBASE-	Suggester Add F Proposed PROF There	dRemedy PICS statemen Response POSED REJEC are currently	nts to address new "shall" stater <i>Response Status</i> W CT. no PICS for 78.3. If this require	ments in the add	led text	ould
Suggeste Chan "Inser 2018) 2018) (unch	<i>dRemedy</i> ge the editing ins t a row for 2.5GE , insert a row for , and insert a row anged rows not s	truction to: BASE-T1 after 2.5GBASE-KX 5GBASE-T1 after 5GBASE- v for 10GBASE-T1 after 10G shown):"	((as inserted by KR (as inserted BASE-KR in Tat	IEEE Std 802.3cb by IEEE Std 802.3 ble 78-2 as follows)- 3cb-	be cre subcla	eated to add th ause.	hese for all shall statements, inc	cluding the existi	ng shalls in this	
Proposed PROF	Response POSED ACCEPT	Response Status W									
	?/technical require	ad ER/aditorial required GR	/aeneral require	d T/technical E/e	ditorial G/	neneral		Pa 5	7	Page 14 of	f 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: Page, Line Pa **57** Li **5** Page 14 of 61 7/12/2019 4:00:44 PM

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

CI 78	SC	78.5	P 57	L18	# 20		CI 78	SC 78.	5	P 57	L 38	# <u>2</u> 2	
Anslow, Pe	ete		Ciena				Anslow, P	ete	Cie	ena			
Comment	Туре	Е	Comment Status D			ΕZ	Comment	Туре Т	Comment Stat	tus D			EEE
There numbe Case- " bu	are ni er 10. 1 and it case	ne paragrap Case 2 star s 3 and 4 st	ohs in 78.5 of the base star t with "Case-x of the PHY i art with "Case-x in MultiGE	idard, so the add n the MultiGBAS BASE-T1 is the sa	itional paragraph is E-T set applies whe ame as"	en	The ce blank. If the v	ells for Tph values for t	ny_shrink_tx (max) and T these parameters are 0,	phy_shrin	nk_rx (max) in Tal se cells should all	ble 78-4 should contain 0	not be
Suggester	dReme	edv					Suggester		a for Taby obrials by (m	av) and T	"nhu chrink ru (m	avi) in Table 70	1 for the
Chang	ge the	editing instr	uction to:				new ro	ate the cell ows with "0	is for Tpny_snrink_tx (ma)"	ax) and T	pny_snnnk_rx (m	ax) in Table 78-	4 for the
"Inser	t a 10t	h paragraph	in 78.5 as follows:"				Proposed	Response	Response Stat	us W			
For Ca "Case	ase-3 -v in N	and Case-4.	, change: T1 is the same as " to:				PROP	, OSED AC	CEPT IN PRINCIPLE.				
"Case	-x of t	he PHY in th	ne MultiGBASE-T set is the	same as"			-						
Proposed	Respo	onse	Response Status W				Impler	ment chang	ges requested by Graba_	_3ch_01a	3_0719.pdf.		
, PROP	, POSEL	ACCEPT.					CI 98	SC 98.	5.1	P 61	L11	# 224	
01 70	60	70 5	0.57	1.00	# 04		McClellan,	Brett	Ma	arvell			
0170	30	/ 10.3	F 31	L 20	# 21		Comment	Туре Т	Comment Stat	tus D			EZ
Anslow, Po	ete	_	Ciena				Figure	149-34 re	ferences 'mGigT1'.				
Comment	Туре	E	Comment Status D			EZ	10Gig	T1,5GigT	1, and 2.5GigT1 are ne	ever refer	enced.		
http://\ This d Applyi T, and	www.ie efined ing the 10GE	bb against F eee802.org/3 I the sort orc ese rules put BASE-T1 be	802.3C D2.0 defined the c 3/cj/comments/P8023-D2p der to be the same as for T is 2.5GBASE-T1 before 2.6 fore 10GBASE-T.	order of items in 0-Comments-Fin able 78-1 5GBASE-T, 5GB	able 78-4. See al-byID.pdf#page=1 ASE-T1 before 5GE	14 BASE-	Suggested chang "— 2.5 — 5Gi — 100	<i>IRemedy</i> e: 5GigT1;rep igT1; repre 3igT1; repr	presents that the 2.5GBA sents that the 5GBASE- resents that the 10GBAS	SE-T1 P T1 PMA E-T1 PM	MA is the signal s is the signal sourd IA is the signal so	source. ce. burce. "	
Suggested	dReme	∋dy					to	0 / 1			0		
Chang "Insert 2018), 2018), (uncha	ge the t a row , inser , and i anged	editing instr v for 2.5GBA t a row for 5 nsert a row f rows not sh	uction to: \SE-T1 after 2.5GBASE-KX GBASE-T1 after 5GBASE- for 10GBASE-T1 after 10G own):"	K (as inserted by KR (as inserted BASE-KR in Tab	IEEE Std 802.3cb- by IEEE Std 802.3c ble 78-4 as follows	b-	"— m(Proposed PROP	GigT1;repr <i>Response</i> POSED AC	esents that the 10/5/2.50 Response State CEPT.	GBASE-T us W	1 PMA is the sigr	nal source."	
Proposed	Respo	onse	Response Status W				C/ 104	SC 104	4.1.3	P 62	L10	# 240	
PROP	POSE	D ACCEPT.					Zimmerma <i>Comment</i> Capita	an, George <i>Type</i> E Ilization of	AD <i>Comment Stat</i> "type F PSE" is missing	0I, APL G tus D	p, Aquantia, BMW	√, Cisco, Comm	iscope, S <i>EZ</i>
							Suggester	Remedv					
							Chang	je "type F l	PSE" to "Type F PSE"				
							Proposed PROP	Response OSED AC	Response State	us W			
							FNOF						

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

Cl 104 SC 104.6.3 P62 L54 # 266 Stevart, Heath Analog Devices Analog Devices Comment Type Trype F rystems include a NGAUTO PHY. The PSE power supply ripple currently in the standard was reused from 10008ASE: T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Cl 104 SC 104.6 P64 L8 # B SuggestedRemedy See "stewart.3ch.01_0719" Slides 5.6, and 7 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Multiple"shall" statements were revised (extended) and one new was added, but the text PICS was not updated Cl 104 SC 104.5.6.4 P63 L27 # 241 Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commercep, S Edito to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status W PROPOSED ACCEPT. PG7 L33 # 23 Comment Type E Comment Sinue D Table 125-2 to the default. Proposed Response Response Status W PROPOSED ACCEPT. PG7 L33 # 23 Contage the right hand ruling for the second heading row in Table 125-2 to the default. Proposed Response Response Status W PROPOSED ACCEPT. F64										
Sewart, Heath Analog Devices PoL Comment Type TR Comment Status D Pol Type F systems include a NGAUTO PHY. The PSE power supply ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Multiple 'shaft' statements were verised (extended) and one new was added, but the text PICS was not updated Suggested/Remedy See 'stewart.ach.oll_0719' Sildes 5.6. and 7 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFTD after reviewing the presentation. In 104.9.3. add PICS for Type F PD inple and transients in 104.9.4.3 add PICS for Type F PD measured inple voltage post-processing in 104.9.4.4 add Type F to COMEL1 In 04.9.3. add PICS for Type F PD measured inple voltage post-processing in 104.9.4.4 add Type F to COMEL1 Criment Type E Comment Status D EZ All the 'VPD', "PPD' references should have the 'PD' in subscript. Criment Type E Comment Status D Suggested/Remedy Ciena Ciena Ciena Editor to check and make 'PD' and 'PSE' subscript where appropriate. (I think it's just PD) Proposed Response Response Status W PROPOSED ACCEPT. PG3 L40 267 Cri 104 SC 104.5.6. P63 L40 267 Suggested/Remedy Ciena	C/ 104	SC 104.4.6.3	P 62	L 54	# 266	C/ 104	SC 104.6	P 64	L 8	# 6
Comment Type TR Comment Type TR Comment Type PCDL Type F systems include a NGAUTO PHY. The PSE power supply inple currently in the tandard was reused from 100BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Multiple 'stall 'statements were revised (extended) and one new was added, but the text PICS was not updated SuggestedRemedy See 'stewart_Sch.01.0719' Slides 5.6, and 7 Proposed Response Status W Proposed Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFTD after reviewing the presentation. In 104.9.3 add PICS for PSETF and PDTF. In 104.9.3 add PICS for Type F PD rippe and transients in 104.8.3 add PICS for Type F PD rippe and transients. Comment Type E Comment Status D EZ All the "VPD", "PPD" references should have the "PD" in subscript. EX SuggestedRemedy SuggestedRemedy SuggestedRemedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status W PROPOSED ACCEPT. Comment Type E Comment Type TR Comment Status D SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy <td>Stewart, H</td> <td>leath</td> <td>Analog Device</td> <td>es</td> <td></td> <td>Hajducz</td> <td>enia, Marek</td> <td>Charter Comm</td> <td>unications</td> <td></td>	Stewart, H	leath	Analog Device	es		Hajducz	enia, Marek	Charter Comm	unications	
Type F systems include a NGAUTO PHY. The PSE power supply ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. SuggestedRemedy SuggestedRemedy SuggestedRemedy See "stewart.Sch.D1_0719" Sildes 5,6, and 7 Proposed Response Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFD after reviewing the presentation. CI 104 SC 104.56.4 P63 L27 # 241 Ci 104 SC 104.56.4 P63 L40 # 232 All the "VPD", "PDD" references should have the "PD" in subscript. SuggestedRemedy SuggestedRemedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) PROPOSED ACCEPT. Proposed Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. Comment Type T R Comment Status D Maid # 262 Comment Type T R Comment Status D Proposed Response Status W PROPOSED ACCEPT. SuggestedRemedy SciggestedRemedy Sci 25.1.4 P67	Comment	Type TR	Comment Status D		I	PoDL Comme	nt Type ER	Comment Status D		PIC
SuggestedRemedy See 'stewart_3ch_01_0719' Sildes 5.6, and 7 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFTD after reviewing the presentation. CI 104 SC 104.56.4 P63 L27 # 241 Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S Editor to check and make "PD" and "PSE" subscript. Editor to check and make "PD" and "PSE" subscript. SuggestedRemedy Ci 104 SC 104.56.4 P63 L27 # 241 SuggestedRemedy Ci 125 SC 125.1.4 P67 L33 # 23 SuggestedRemedy Ci 104 SC 104.56.4 P63 L40 # 267 Forposed Response Response Status W Proposed Response Status W Proposed Response Status W PROPOSED ACCEPT. Ci 104 SC 104.56.4 P63 L40 # 267 Stewart, Heath Analog Devices Poposed Response Status W PROPOSED ACCEPT. Ci 104 SC 104.56.4 P63 L40 # 267 Stewart, Heath Analog Devices Poposed Response Status W PROPOSED ACCEPT. SuggestedRemedy Se "stewart, 3ch_01_0714" Sildes 8 and 9 <td>Type standa the high</td> <td>F systems include ard was reused fro gher data transmis</td> <td>a NGAUTO PHY. The PSE om 1000BASE-T1 (Type B) s ssion speed.</td> <td>power supply r systems. This n</td> <td>ipple currently in the eeds to be changed</td> <td>for PIC</td> <td>iple "shall" statem S was not updated</td> <td>ents were revised (extended) a I</td> <td>nd one new w</td> <td>vas added, but the text o</td>	Type standa the high	F systems include ard was reused fro gher data transmis	a NGAUTO PHY. The PSE om 1000BASE-T1 (Type B) s ssion speed.	power supply r systems. This n	ipple currently in the eeds to be changed	for PIC	iple "shall" statem S was not updated	ents were revised (extended) a I	nd one new w	vas added, but the text o
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFTD after reviewing the presentation. CI 104 SC 104.5.6.4 P63 L27 # 241 Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S E In 104.9.3.add PICS for Type F PD reparated ripple voltage post-processing All the 'VPD', 'PPD' references should have the 'PD' in subscript. Editor to check and make 'PD' and 'PSE' subscript where appropriate. (I think it's just PD) PROPOSED ACCEPT. Ciena C/ 104 SC 104.5.6.4 P63 L40 267 Stewart, Heath Analog Devices Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. Suggested/Remedy Comment Status D Pool Pool Paratemether Suggested/Remedy Comment Status D Pool Pool Paratemether Suggested/Remedy Comment Status D Pool Pool Paratemether	Suggested See "s	dRemedy stewart_3ch_01_0	719" Slides 5,6, and 7			Per	comment	Boononoo Statua W		
TFTD after reviewing the presentation. If Tota for reviewing the presentation. If 104 SC 104.5.6.4 P63 L27 # 241 Image: ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S Editor to check and make "PD" in subscript. Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status W P63 L40 267 It at script and transmission speed. Status D P0DL P0DL PROPOSED ACCEPT. It at at transmission speed. The D pripe locurrently in the standard was reused from 10006ASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. P0DL SuggestedRemedy See "stewart_3ch_01_0719" Slides 8 and 9 Proposed Response Response Status W Proposed Response Response Status W P0DL Proposed Response Response Status W P0DL SuggestedRemedy See "stewart_3ch_01_0719" Slides 8 and 9 P0DL Proposed Response Response Status W P0DL Proposed Response	Proposed PROF	Response POSED ACCEPT	Response Status W N PRINCIPLE.			PRO	POSED ACCEPT	IN PRINCIPLE.		
Cl 104 SC 104.5.6.4 P63 L27 # 241 Limmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S In 104.9.4.4 add Type F to COMEL1 Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S Example All the "VPD", "PPD" references should have the "PD" in subscript. Example SuggestedRemedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status W PROPOSED ACCEPT. P63 L40 267 Cl 104 SC 104.5.6.4 P63 L40 267 Stewart, Heath Analog Devices Response Status W PROPOSED ACCEPT. Comment Type TR Comment Status D PoDL Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. PoDL SuggestedRemedy SuggestedRemedy Comment Type E Comment Status D SuggestedRemedy SuggestedRemedy Natalie General Motors SuggestedRemedy SuggestedRemedy Ci 125 SC 125.1.4 P67 L33 # 42 Wienckowski, Natal	TFTD	after reviewing th	e presentation.			In 1 In 1 In 1	04.9.3 add PICS fo 04.9.4.3 add PICS 04.9.3 add PICS fo	or PSETF and PDTF. for Type F PD ripple and trans or Type F PD measured ripple y	ients voltage post-r	processing
Zimmerman, George ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S Comment Type E Comment Status D EZ All the "VPD", "PPD" references should have the "PD" in subscript. Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status W PROPOSED ACCEPT. P63 L40 267 C/ 104 SC 104.5.6.4 P63 L40 267 Stewart, Heath Analog Devices Response Status W Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Paint 267 SuggestedRemedy SuggestedRemedy Comment Status D PoDL Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Comment Type E Comment Status D Viencreated Be border on cell "149" SuggestedRemedy SuggestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outside border. Proposed Response Response Status W PROPOSED ACCEPT. The fight reviewing the presentation. W PopL	C/ 104	SC 104.5.6.4	P63	L 27	# 241	In 1	04.9.4.4 add Type	F to COMEL1		5
All the "VPD", "PPD" references should have the "PD" in subscript. SuggestedRemedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status W PROPOSED ACCEPT. C/ 104 SC 104.5.6.4 P63 L40 # 267 Stewart, Heath Analog Devices Response Status W PROPOSED ACCEPT. C/ 104 SC 104.5.6.4 P63 L40 # 267 Stewart, Heath Analog Devices Response Response Status W PROPOSED ACCEPT. C/ 104 SC 104.5.6.4 P63 L40 # 267 Stewart, Heath Analog Devices Response Response Response Status W PROPOSED ACCEPT. C/ 104 SC 104.5.6.4 P63 L40 # 267 Stewart, Heath Analog Devices Citera Citera Comment Type TR Comment Status D PROPOSED ACCEPT. Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. SuggestedRemedy SuggestedRemedy SuggestedRemedy See "stewart_3ch_01_0719" Slides 8 and 9 Proposed	Zimmerma Comment	an, George <i>Type</i> E	ADI, APL Gp, Comment Status D	Aquantia, BMV	V, Cisco, Commscop	e, S <i>EZ Cl</i> 125	SC 125.1.4	P 67	L 33	# 23
SuggestedRemedy Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD) Proposed Response Response Status PROPOSED ACCEPT. Cl 104 SC 104.5.6.4 P63 L40 # 267 Stewart, Heath Analog Devices Response Status W Comment Type TR Comment Status D PoDL Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. SuggestedRemedy SuggestedRemedy SuggestedRemedy See "stewart_3ch_01_0719" Slides 8 and 9 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFTD after reviewing the presentation. Proposed Response Response Status W	All the	e "VPD", "PPD" re	ferences should have the "P	D" in subscript.		Anslow,	Pete	Ciena		
Proposed Response Response Status W PROPOSED ACCEPT. P63 L40 # 267 C/ 104 SC 104.5.6.4 P63 L40 # 267 C/ 105 SC 125.1.4 P67 L33 # 42 Wienckowski, Natalie General Motors Comment Type TR Comment Status D Incorrect table border on cell "149" SuggestedRemedy See "stewart_3ch_01_0719" Slides 8 and 9 SuggestedRemedy SuggestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outside border. Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFTD after reviewing the presentation. PROPOSED	Suggester	dRemedy	(o "DD" and "DSE" subscript	whore oppropr	iata (1 think it'a juat 1	Comme. The	right hand ruling f	or the second heading row in Ta	able 125-2 sh	nould be set to the defau
Cl 104 SC 104.5.6.4 P63 L40 # 267 Stewart, Heath Analog Devices Pol Comment Type TR Comment Status D Pol Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. General Motors SuggestedRemedy E Comment Status D See "stewart_3ch_01_0719" Slides 8 and 9 NepPopSED ACCEPT IN PRINCIPLE. SuggestedRemedy PROPOSED ACCEPT IN PRINCIPLE. Change right side boarder on last cell in 2nd ro to be the wider outside border. Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status TFTD after reviewing the presentation. Proposed Accept IN PRINCIPLE. Proposed Accept IN PRINCIPLE.	Proposed PROF	Response POSED ACCEPT.	Response Status W			Suggesi Cha Propose	edRemedy nge the right hand d Response	ruling for the second heading r	row in Table 1	125-2 to the default.
Stewart, Heath Analog Devices Comment Type TR Comment Status D PoDL Type F systems include a NGAUTO PHY. The PD ripple currently in the standard was reused from 1000BASE-T1 (Type B) systems. This needs to be changed for the higher data transmission speed. Cl 125 SC 125.1.4 P67 L33 # [42] SuggestedRemedy General Motors Comment Status D Incorrect table border on cell "149" SuggestedRemedy Change right side boarder on last cell in 2nd ro to be the wider outside border. Proposed Response Response Status W P P P P<	C/ 104	SC 104.5.6.4	P 63	L 40	# 267	PRO	POSED ACCEPT			
SuggestedRemedy SuggestedRemedy See "stewart_3ch_01_0719" Slides 8 and 9 Change right side boarder on last cell in 2nd ro to be the wider outside border. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. TFTD after reviewing the presentation. Frequence	Stewart, H Comment Type I reused data tr	leath <i>Type</i> TR F systems include d from 1000BASE ransmission spee	Analog Device Comment Status D a NGAUTO PHY. The PD ri -T1 (Type B) systems. This d.	es ipple currently i needs to be cha	h the standard was anged for the higher	PoDL C/ 125 Wiencko Comme Inco	SC 125.1.4 owski, Natalie <i>nt Type</i> E rrect table border	P 67 General Motors <i>Comment Status</i> D on cell "149"	L 33	# 42
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. TFTD after reviewing the presentation. FROPOSED ACCEPT.	Suggested See "s	dRemedy stewart_3ch_01_0	719" Slides 8 and 9			Sugges: Cha	edRemedy nge right side boa	rder on last cell in 2nd ro to be	the wider out	side border.
TFTD after reviewing the presentation.	Proposed PROF	Response POSED ACCEPT	Response Status W N PRINCIPLE.			Propose PRO	d Response DPOSED ACCEP1	Response Status W		
	TFTD	after reviewing th	e presentation.							

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: Page, Line

Pa **67** Li **33** Page 16 of 61 7/12/2019 4:00:44 PM

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

-										
C/ 125	SC 125.2.4.3	P 68	L 28	# 7	C/ 125	SC 125.3	P 69	L 8	# 90	
Hajduczen	ia, Marek	Charter Comr	munications		Trowbridge	e, Steve	Nokia			
Comment	Type ER	Comment Status D		PICS	Comment	Туре Е	Comment Status D			EZ
New s	hall statements w	ere added, PICS were not u	pdated		Other	clauses have the	e pause quanta centered in t	the 3rd column. In	the 4th column	, some
Suggested	Remedy				of the	ns numbers are	left aligned and some are ce	entered		
Per co	omment				Suggested	dRemedy				
Proposed	Response	Response Status W			Use c	onsistent alignme	ent in the columns of Table 1	125-3		
PROP	OSED ACCEPT				Proposed	Response	Response Status W			
11101					PROF	OSED ACCEPT	IN PRINCIPLE.			
P68 L2 Clause	27 Delete: If Auto e 98.	- Negotiation is implemente	d, it shall meet t	he requirements of	Same	as comment #77	7.			
	ext is not needed				Chang	ge Editorial instru	ction to be "Replace Table 1	125-3 (as modified	d by IEEE Std 8	02.3cb-
C/ 125	SC 125.3	P 68	L 30	# 133	2018)	with the updated	table, which adds 2.5GBAS	SE-T1 and 5GBAS	SE-T1 and corre	cts the
Grau, Olaf	:	Robert Bosch	GmbH		Correc	ct Table 125-3 to	match latest IEEE 802.3 W	G editorial quideli	nes.	ws.
Comment	Type E	Comment Status D		Formatting						
Titel o	n pg 68, Tabel on	pg. 69			C/ 149	SC 149	P70	<i>L</i> 1	# 37	
Suggested	Remedy				Remein, D	Duane	Futurewei Te	echnologies, Inc.		
Headli	ine and Table sho	uldn't be separated by a pag	ge break		Comment	Туре Е	Comment Status D			EZ
Proposed	Response	Response Status W			It is cu Temp	ustomary to inclue late v3.9.	de an editing Instruction prio	or to new clauses	as noted in the	WG
PROP	OSED ACCEPT	N PRINCIPLE.			Suggested	dRemedy				
The ed	ditor will try to mo	ve the Heading for 125-3 to	the next page w	th Table 125-3.	Insert "Inser	before Clause 14 t new clauses and	19 d corresponding annexes as	s follows:"		
C/ 125	SC 125.3	P 68	L 33	# 77	Proposed	Response	Response Status W			
Wienckow	ski, Natalie	General Moto	ors		, PROF	, OSED ACCEPT.				
Comment	Type E	Comment Status D		EZ						
Table	125-3 does not m	atch IEEE802.3's 2018 guid	lline for "Presen	ation of numbers".	C/ 149	SC 149.1	P 70	L12	# 251	
Suggested	Remedy				den Beste	n, Gerrit	NXP Semico	onductors		
Chang	e Editorial instruc	tion to be" Replace Table 1	25-3 (as modifie	d by IEEE Std 802.3cb-	Comment	Type E	Comment Status D			EZ
2018)	with the updated	table, which adds 2.5GBAS	E-T1 and 5GBA	SE-T1 and corrects the	The w	ord 'type' seems	strange and unnecessary in	this sentence.		
numbe	er format and aligi	nment to match IEEE 802.3	WG editorial gu	delines, as follows:"	Suggested	dRemedy				
Proposed	Response			100.	Remo	ve the word 'type	!			
	NESPUNSE	Response Status W			Proposed	Response	Response Status W			
PROP	USED AUGEPT.				PROF	POSED ACCEPT.				

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 70	Page 17 of 61
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 12	7/12/2019 4:00:44 PM
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Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet Initial W

C/ 149	SC 149.1.1	P 70	L 32	# 175	C/ 149	SC 149.1.3	P 71	L 27	# 242
Baggett, Tim <i>Comment Ty</i> "PHYs" :	n /pe E should be posse	Microchip <i>Comment Status</i> D essive as "PHY's"			Zimmerma EZ Comment I In othe	n, George <i>Type</i> E r diagrams the P	ADI, APL Comment Status D CS is referred to as 64B	Gp, Aquantia, BMV /65B RS-FEC PCS	V, Cisco, Commscope, S <i>EZ</i> . Here it is just RS-FEC
SuggestedRe Change Proposed Re	emedy "PHYs data ra esponse	ate" to "PHY's data rate Response Status W	."		PCS. Suggested Chang Proposed F	We should be cc Remedy e "RS-FEC PCS Response	nsistent. " to "64B/65B RS-FEC P Response Status W	CS" in Figure 149-1	l.
	SED ACCEPT.				PROPO	DSED ACCEPT.			
 2/ 149 D'Ambrosia, Comment Ty The use comes ir 	SC 149.1.1 John /pe ER of "S" to repres nto play through	P 70 Futurewei, U.S <i>Comment Status</i> D sent scaling parameter is not sout the document on a searc	L37 5. Subsidiary of I advisable. Tryir ch of "S" reveals	# <u>93</u> Huawei ng to see where this so many instances	CI 149 Ing Brandt, Da Comment T PCS la	SC 149.1.3 vid <i>Type</i> E yer label is incor	P 71 Rockwell <i>Comment Status</i> D nsistent with Figure 44-1	L27 Automation and Figure 125-1.	# [<u>193</u> EZ
that it is SuggestedRe Change Proposed Re	useless. eemedy "S" to "Scale" esponse	Response Status W			Suggested Chang To: "64 Proposed F	Remedy e: "RS-FEC PCS B/65B RS-FEC Response	PCS" Response Status W		
The use and 802.	of S to represe .3bz-2016. This	nt the scaling parameter is c is where we got it. It's used	onsistent with th in all Multi-Gig B	e use in 802.3bq-2016 ASE-T PHYS.	6 Cl 149 Zimmerma	SC 149.1.3 n, George	P 72 ADI, APL	L 3 Gp, Aquantia, BMV	# 243 V, Cisco, Commscope, S
113.1.1 I The 25G PHY type scaling, a efficiently 25G/40C 40GBAS paramete For 25G	Nomenclature BASE-T and 40 es that share th and differences y describe the t BBASE-T is use BE-T PHYs. Add er S is used for BASE-T. S = 0	DGBASE-T PHYs described le same PCS, PMA, and MD between the 25GMII and the wo PHYs, the nomenclature d to describe specifications litionally, for parameters that scaling. 625 and for 40GBASE-T. S	in Clause 113 re I specifications s e XLGMII specifi that apply to both s scale with the P = 1.	present two distinct subject to frequency cations. In order to n the 25GBASE-T and 'HYs data rate, the	Comment 7 "The M function senten FORCI d Suggested Chang SLAVE	<i>ype</i> T ASTER and SL/ n in the PHY (se ce, and needs to mode). It is on <i>Remedy</i> ⇒ "PHYS. The M are"	Comment Status D AVE are synchronized by e 149.4.2.6)." - this sente be qualified or linked - e ly true when Auto-Negot	the PHY Link Synce ence stands alone f else it is incorrect (1 iation is not used. " to "PHYS, and t	EZ chronization rom the previous 49.4.2.6 only applies in he MASTER and
126.1.1 I The 2.50 PHY type scaling. Addition scaling. For 2.50	Nomenclature GBASE-T and 5 es that share th In order to effici describe specifi ally, for parame GBASE-T, S = 0	GBASE-T PHYs described i e same PCS, PMA, and MD iently describe the two PHYs cations that apply to both the ters that scale with the PHYs .5 and for 5GBASE-T, S = 1	n this clause rep I specifications s , the nomenclatu 2.5GBASE-T a s data rate, the p	resent two distinct ubject to frequency ıre 2.5G/5GBASE-T is nd 5GBASE-T PHYs. arameter S is used fo	Proposed F PROP(s	Response DSED ACCEPT.	Response Status W		
TYPE: TR/te	chnical required STATUS: D/disj	d ER/editorial required GR/g patched A/accepted R/reject	general required cted RESPON	T/technical E/editoria SE STATUS: O/open	al G/general W/written C/closed	U/unsatisfied Z	Pa Z/withdrawn Li	72 3	Page 18 of 61 7/12/2019 4:00:44

SORT ORDER: Page, Line

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

C/ 149	SC 149.1.3	P 72	L14	# <u>1</u> 05		C/ 149	SC 149.1.3.1	P 72	L 41	# <u>1</u> 04	
Lo, William	ı	Axonne Inc.			_	Lo, William		Axonne Inc.			
Comment	Type TR	Comment Status D			OAM	Comment	Type TR	Comment Status D			Scaling
Contra	dicting statemen	t whether OAM in-band or out	-of-band:			"L x 32	0 S ns" should be	e corrected as "L x 320 / S ns'	I		
page 7	'2 line 14 says "o	out-of-band", page 120 line 12	says "in-band"			Suggested	Remedy				
Suggested	Remedy					"L x 32	0 S ns" should be	e corrected as "L x 320 / S ns'			
Chang	e page 72 line 14	4 from out-of-band to in-band.				Proposed	Response	Response Status W			
Proposed	Response	Response Status W				PROP	OSED ACCEPT.				
PROP	OSED ACCEPT	IN PRINCIPLE.									
DAM IS P120 I	s "out-of-band" 120 change "in-l	hand" to "out-of-hand"				C/ 149	SC 149.1.3.1	P 72	L 41	# 176	
1 1201		band to out of band .				Baggett, T	m	Microchip			
A Mair	tenance request	needs to be entered for Clau	se 97 as 97.3.8	states " The		Comment	Type E	Comment Status D			Scaling
1000B "out-of	-band".	ormation is exchanged in-ban	d between two	PHYS", this shoul	d be	The so	ale factor "S" loo	ks like units (Siemens)			
						Suggested	Remedy				
C/ 149	SC 149.1.3.1	P 72	L 30	# 225		Chang	e "L x 320 S ns" t	o "L x 320 x S ns" (add the m	ultiply operato	or 'x') as done in ot	her
McClellan,	Brett	Marvell				areas	of the draft (inclue	ding line 54 of the same page))		
Comment	Type E	Comment Status D			EZ	Proposed	Response	Response Status W			
text in	this section appe	ears to be a different font size	than other text			PROP	OSED ACCEPT I	N PRINCIPLE.			
Suggested	Remedy					"L x 32	0 S ns" should be	e corrected as "L x 320 / S ns'			
adjust	font										
Proposed	Response	Response Status W				C/ 149	SC 149.1.3.1	P 72	L 48	# 226	
PROP	OSED REJECT.					McClellan,	Brett	Marvell			
ا ما م	und the tout in En	an Malian and it is the same		a taut This must		Comment	Type E	Comment Status D			EZ
due to	the pdf creation	or vour viewer.	as the rest of th	he text. This musi	t be	The Pl	MA interface is de	fined in 149.2, not 149.4.			
						Suggested	Remedy				
C/ 149	SC 149.1.3.1	P 72	L 38	# 184		change	e '149.4' to '149.2	1			
Brandt, Da	vid	Rockwell Autor	mation			Proposed	Response	Response Status W			
Comment	Type E	Comment Status D			EZ	PROP	OSED ACCEPT.				
Missin	g dashes.										
Suggested	Remedy										
Chang	e: "3260 bit block	k"									
To: "32	260-bit block", in	2 locations									
Proposed	Response	Response Status W									
PROP	OSED ACCEPT.										

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

C/ 149	SC 149.1.3.3	P 73	L 24	# 252		C/ 149	SC	149.1.3.3	P 73	L 34	# 228	
den Beste	n, Gerrit	NXP Semicone	ductors			McClellan	, Brett		Marvell			
Comment	Туре Т	Comment Status D			EEE	Comment	Туре	TR	Comment Status D			EEE
It is sta last 64 say ho	ated here that the 4B/65B block of th ow this is initiated	the LPI transmit mode starts e RS-frame. In contrast to he by XGMII.	when there is ow to exist LPI,	an LPI character it interestingly do	in the besn't	"The XGMI This s	quiet-ref I." statemer	iresh cycle	continues until the PCS fun lict with normative text in 14	ction detects ID 19.3.2.2.21 whic	LE characters or	ו the non-
Suggested	dRemedy					LPI S This s	/Mbol w	as too mu	n exit from LPI. ch detail for a non-normative	e summary sec	tions and is pron	e to
Propo	se to add a senter	nce before the referred one:				have	conflicts	with the ne	ormative sections.	c summary see		, 10
A requ	lest for LPI mode	starts with LPI characters on	the XGMII.			Suggeste	dRemed	lv				
Proposed	Response	Response Status W				delete	the two	o paragraph	ns starting with:			
PROP	OSED REJECT.					"In the	e transm	nit direction	the transition to the LPI tra	nsmit mode beg	gins"	
The te	ext that is question	ed by this comment is removed	ved by commen	t #227. This mag	y need	and "In the	e receiv	e direction	the transition to the LPI mod	de is triggered v	when"	
			inges.			Proposed	Respor	nse	Response Status W			
C/ 149	SC 149.1.3.3	P 73	L 24	# 227		PROF	POSED	ACCEPT.				
√lcClellan,	Brett	Marvell										
Comment	Type ER	Comment Status D			EEE							
This s have o statem norma	ection has too mu conflicts with the n nents. It should p ative details.	ich detail for a non-normative formative sections. The sect provide a brief summary and	e summary sect ion sounds norr refer to section	ions and is prone native but has no 149.3.2.2.21 for	e to o 'shall'							
Suggested	dRemedy											
delete "In the and	the two paragrap transmit directior	hs starting with: h the transition to the LPI tran	nsmit mode beg	ins"								
"In the	e receive direction	the transition to the LPI mod	le is triggered w	hen"								
Proposed	Response	Response Status W										

PROPOSED ACCEPT.

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

C/ 149	SC 149.1.3.4	P 74	L 8	# 229
McClellan, E	Brett	Marvell		
Comment T	ype ER	Comment Status D		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."

Proposed Response Response Status W

PROPOSED 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."

P74

C/ 149	SC 149.1.3.4	
C/ 149	SC 149.1.3.4	

~ ~	Ciaman	Compony	

Maguire, Valerie Comment Type E

The Siemon Company Comment Status D

/ 15

State Diagrams

85 Ν

Use preferred terminology for state diagrams.

SuggestedRemedy

Replace "state machine" with "state diagram" in the following locations: P74-L15, P126-L35, P132-L4, P132-L5, P132-L6, P133-L3, P133-L10, and P144-L43 and replace "state machines" with "state diagrams" on P74-L15.

Proposed Response Response Status W

PROPOSED ACCEPT.

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

C/ 149	SC 149.1.3.4	P 75	L13	# 51
Wienckows Comment fix croo	ski, Natalie <i>Type</i> E oked line	General M Comment Status D	otors	EZ
Suggested Make t	<i>Remedy</i> he horizontal line	e under "tx_mode" straigh	t.	
Proposed PROP	Response OSED ACCEPT.	Response Status W		
C/ 149	SC 149.1.3.4	P 75	L 23	# 230
McClellan,	Brett	Marvell		
Comment Figure the sar	<i>Type</i> E 149–2 has supe me path as the a	Comment Status D erfluous arrow heads poin rrow.	ting to a signal line	State Diagrams that continues along
Suggested replace	<i>Remedy</i> e arrows with line	es at line 23 and line 29		
Proposed PROP	Response OSED ACCEPT.	Response Status W		
C/ 149	SC 149.1.4	P 76	L13	# 231
McClellan,	Brett	Marvell		
Comment	Туре Т	Comment Status D		PCS
"Ability receive is not o I don't	to signal the sta or operating reliably think the signalir	tus of the local receiver to and requires retraining." ing can convey the need for	o the remote PHY t or a retraining.	o indicate that the local
Suggested delete	<i>Remedy</i> item g		-	
Proposed PROP	Response OSED ACCEPT.	Response Status W		

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Li 13	7/1

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

C/ 149	SC	149.1.6	P 76	L 43	#	197	C/ 149	SC ·	149.2.2	P76	L50	#	94
Dawe, P	iers		Mellanox				D'Ambrosi	a, John		Futurewei, U.S	S. Subsidiary o	f Huawei	<u>.</u>
Commer	nt Type	TR	Comment Status D			Terminology	Comment	Туре	E	Comment Status D			Terminology
This Impl som OK. In "T othe Rem e.g. Anyy PCS Suggest Dele elec requ Propose PRC Dele unle A Ma may	is not a ementer: eone wa he value rwise sta varks abc <1 V, an way, this edRement. d Respon DPOSED tte ""The ss otherv aintenand be in oth	test specific s (or testers ints to use 2 as of all con- tited", the "s but % tolera d measured topic does dy entence fro cifications, ACCEPT I values of a vise stated ce request hers.	cation. s) take responsibility for the a 2%-accurate equipment and a nponents in test circuits shall shall" is inappropriate. ance muddy the water: Does d with 0.1%-accurate equipm not fit with "conventions in th m here. If any substitute is n and use the language of a pa <i>Response Status</i> W IN PRINCIPLE. all components in test circuits "	ccuracy of the apply appropri be accurate to 1 V mean 1 V ent, is 1.008 \ is clause", and eeded, put it v arameter defir shall be accu	eir test equi ate guard b o within ± 1 any more? / acceptabl d does not within 149.5 hition, not a rrate to with	ipment. If pands, that's % unless f If asked for le? relate to the 5 PMA t test in ± 1% se 97 and	The fo MultiG interfa a) 10 (b) Tec c) PM/ d) Mec MDI is Suggested Rewor MultiG interfa a) 10 (b) Tec c) PM/ Proposed PROP This is MDI is Comm throug	Ilowing Ilowing BASE-T ces: Gigabit I hnology A servic Jium de not a s IRemed d BASE-T ces: Gigabit I hnology A servic Respon OSED I a not cor include ienter m hout 80	statemer T1 transfe Media Ind / Depend ee interfac pendent i ervice int // T1 transfe Media Ind / Depend ee interfac se REJECT. msistent the ad in Servinay want 2.3.	nt is incorrect: ers data and control information dependent Interface (XGMII) lent Interface ce interface (MDI) terface See definition 1.4.324. ers data and control information dependent Interface (XGMII) lent Interface ce <i>Response Status</i> W hrougout 802.3. vice Primitives and Interfaces to consider creating a Mainter	on across the f on across the f in Clauses 55, nance request	ollowing fo ollowing th 97, 113, 7 to remove	our service nree service 126, etc. e this

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

C/ 149	SC	149.2.1	P 77	L 9	#	198	C/ 149	SC	149.2.2	P 78	L 23	#	232
Dawe, Pi	ers		Mellanox				McClellan,	Brett		Marvell			
Commen	t Type	TR	Comment Status D			Terminology	Comment	Туре	TR	Comment Status D			State Diagrams
Acco Nego Auto	ording to otiation is -Negotia	Table 125- s optional. ⁻ tion - I don	2, Nomenclature and clause The Technology Dependent 't think it has any other purp	e correlation, C Interface is us ose.	ause 98 / ed to com	Auto- municate with	"send_ detecti PMA_ detecti	s_sigd on), bu ALER ⁻ on, bu	det" appea ut does no TDETECT t does not	rs in Figure 149–2 as a servi t appear in 149.2.2. .indication(alert_detect) is a appear in 149.2.2.	ce interface (ap defined service	parently interface	for EEE alert
Sougesie	that the	uy Tachnalagy	· Dopondont Interface is rea	wired if Auto N	actistion	ic implements	Suaaested	Reme	dv				
(so, i	not if it's	not)	Dependent interface is rec		golialion	is implements	delete	"send	s sigdet"	from Figure 149-2.			
Proposed	d Respo	nse	Response Status W				add "al	ert_de	etect" as a	dotted line service interface	from the PMA re	eceiver i	n Figure 149–2
PRO	POSED	ACCEPT I	N PRINCIPLE.				and Fig add "P change	gure 14 MA_AI e " to	49–3 LERTDET "alert_det	ECT.indication(alert_detect)' ect" in 149.3.2.3 on page 10'	' to the list in 14 1 line 45.	9.2.2.	
Char indic 98.4: To: N	nge: Mu ations ar JultiGBA	ItiGBASE-7 nd control s	Γ1 uses the following service signals across the Technolo as the following service prim	e primitives to e gy Dependent I itives to exchar	xchange nterface a de status	status as specified in	Proposed I PROP	Respoi OSED	nse ACCEPT	Response Status W IN PRINCIPLE.			
and o imple	control s ement A	ignals acro uto-Negotia	ss the Technology Depende ation, as specified in 98.4:	ent Interface, re	quired in	PHYs that	Make t 1. Figu 2. Figu labelec 3. Figu "PMA_ 4. P78 5. Figu PCA R	he follo ure 149 l "alert re 149 ALER ALER L32 a re 149 ECEIV	owing set (9-2 (P75 L 9-2 (P75 L (P75 L -3 (P79 L TDETECT add "PMA 0-4 (P86) a /E box lab	of changes (same as comme 30) remove "send_s_sigdet" 33) add dotted arrow line fron indication" _ALERTDETECT.indication(dd dotted up arrow from PM. eled "alert_detect"	ent 101) and associated m PMA RECEI\ n PMA to PCS I alert_detect)" to A SERVICE INT	l line /E to PC abeled the list i FERFAC	S RECEIVE n 149.2.2. E dotted line to

6. P101 L 45 change: "send_s_sigdet" to "alert_detect"

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

C/ 149	SC 149.2.2	P 78	L 32	# <u>1</u> 01	C/ 149	SC 149.3.2.	2 P87	L14	# 209
Lo, William	ı	Axonne Inc.			McClellan	, Brett	Marvell		
Comment	Type TR	Comment Status D		State Diagrams	Comment	Туре Е	Comment Status D		E
Clause	e 149.2.2.12 talk	s about PMA_ALERTDETEC	CT.indication bu	t it is not	"RS_I	EC" is inconsis	tent with other text using "RS	-FEC"	
Suggested	ned in 4 places. IRemedy				Suggestee	dRemedy ie "RS_FEC" to	"RS-FEC"		
1) Pag PMA_ 2) Pag Draw I	e 78 line 32 add ALERTDETECT e 79 line 28 eft dotted arrow	indication(alert_detect)	T indication		Proposed	Response POSED ACCEP	Response Status W		
3) Pag	e 75 figure 149-	2.			C/ 149	SC 149.3.2.	2 P87	L38	# 178
Need a alert_c 4) Pag Need a	a left dotted line letect. (I'm not s le 86 line 12 a up dotted line t	from PMA RECEIVE to PCS sure about this change. Ask o PCS RECEIVE labeled ale	RECEIVE, line for feedback fro ert_detect	is labeled m the group)	Baggett, T <i>Comment</i> Mispe	⁻ im <i>Type</i> E Illing "fame"	Microchip Comment Status D		E
Proposed PROP Make t	Response OSED ACCEPT the following set	Response Status W IN PRINCIPLE. of changes (same as comm	ent 232)		Suggestee Chang	<i>dRemedy</i> ge "FEC fame" t	o " FEC frame"		
1. Fig 2. Fig labeled	ure 149-2 (P̃75 l ure 149-2 (P75 l d "alert_detect"	.30) remove "send_s_sigdet" .33) add dotted arrow line fro	and associated	d line VE to PCS RECEIVE	Proposed PROF	Response POSED ACCEP	Response Status W T.		
3. Figu	Ire 149-3 (P79 L	28) add dotted arrow line from	m PMA to PCS	labeled	C/ 149	SC 149.3.2.	2 P87	L 39	# 177
4. P78 5. Figu	ALERIDETEC 3 L32 add "PMA ure 149-4 (P86) a	ALERTDETECT.indication	(alert_detect)" to IA SERVICE IN	o the list in 149.2.2. TERFACE dotted line to	Baggett, T Comment	īm <i>Type</i> E	Microchip Comment Status D		E
6. P10	1 L 45 change:	"send_s_sigdet" to "alert_de	tect"		l think 1800	t it would be use PAM4 symbols.	ful to indicate that the block o	of 3600 bits are e	encoded into a block of
C/ 149	SC 149.2.2.1	2.3 P85	L17	# 24	Suggeste	dRemedy			
Anslow, Pe Comment "149.3 Suggested	ete <i>Type</i> E .2.3" and "Figure <i>IRemedy</i>	Ciena <i>Comment Status</i> D e 149-17" should be cross-re	ferences.	EZ	Chang "The 3 PMA. to: "The 3	ge: 3600 bits in this " 3600 bits in this	frame are then encoded into	PAM4 symbols a 1800 PAM4 sym	and transferred to the
Make Proposed PROP	"149.3.2.3" and ' <i>Response</i> OSED ACCEPT	'Figure 149-17" cross-referer Response Status W	nces.		seque <i>Proposed</i> PROF	entially to the PM <i>Response</i> POSED ACCEP	IA." Response Status W T.		

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

	00 440 0 0 5	D.0 - 7	1.40			01.4.45	00 440 0 5 5	-	Dee	1.40	"	
C/ 149	SC 149.3.2.2	P87	L 48	#	81	C/ 149	SC 149.3.2.2.	2	P88	L 40	# 210	
Slavick, Jel	ff Type TR	Broadcom Comment Status D			Interleaver	McClellan, Comment	Brett Type T	Comment	Marvell Status D			F7
How th if one s theres where	e number of interle- side requests 2-way some definition on the shall should be	ave frames is decided up v, other 4-way which do yo how to resolve that but I o).	on is not defined ou do? The sha don't see any tex	I anywhe III in this I tt for that	re. So for 10G ine implies (which is	"In add the inc This te	dition, the code encoded of the code encoded encode	nables the red tream." Alignment is t	ceiver to achiev	ve PCS synchror aining.	nization alignme	nt on
Suaaested	Remedv	,				Suggested	Remedy					
Change Add a s interlea Change	e the text from "whi sub-clase in the app ave request fields for e PCT6 to refer to r	ch shall be determined" to propriate place which defi or 5G and 10G operations new sub-clause	o "which is deter nes the priority r	mined". esolutior	of the	Proposed PROP	Response OSED ACCEPT.	Response	Status W			
Proposed F	Response	Response Status W				C/ 149	SC 149.3.2.2.	3	P 89	L 8	# 52	
PROP	OSED ACCEPT IN	PRINCIPLE.				Wienckow	ski, Natalie		General Moto	ors		
TFTD						Comment Missin	<i>Type</i> E g Oxford comma	Comment	Status D			EZ
Note th discuss the link partner P87 L4	tere are a few issue s that the comment . As configured, it 48, Change "L is ca	es addressed in the resolu er assumes that the interl doesn't have to be, interle illed the interleaving depti	ition below, but t eave ratio needs eave depth is red n, and the possib	the Task to be sy quested b ble choice	force needs to immetric on by the link es of L are 1, 2,	Suggested Chang hexad To: C hexad	<i>Remedy</i> le: Contents of b ecimal values. ontents of block t ecimal values.	lock type field ype fields, da	ls, data octets ta octets, and	and control char	acters are show rs are shown as	n as
and 4, "L is ca	which shall be dete alled the interleaving	ermined during the PAM2 g depth, and the possible	training mode In choices of L are	foField e 1, 2, and	xchange." To 4. The	Proposed PROP	Response OSED ACCEPT.	Response	Status W			
value c PAM2	of L used by the trar training mode InfoF	nsmitter is determined by Field exchange. "	the link partner	and signa	aled during the	C/ 149	SC 149.3.2.2.	4	P 89	L 24	# 185	
	15 in 140 2 2 2 16	PS EEC superframe and	round robin into	rlooving	add now first	Brandt, Da	ivid Turno F	Commont	Rockwell Auto	omation		F7
paragra reques	aph: "The interleave ted by the link partr	er depth L of the transmitt ner during infofield exchar	er shall be set to nge, as specified	the Inte line 149.4	rleaverDepth .2.4.5."	Figure	149-6 lacks arro	w ends on TX	D<32> and TX	D<63>.		EZ
A .l.l		0 l l				Suggested	lRemedy					
Add ne Feature	e : Interleaver set to	6 and renumber subsequ	ent PICS:			Add a	row ends on TXE	0<32> and TX	D<63>.			
Subcla Value: Status:	use: 149.3.2.2.16 Interleaver depth se M	et to value requested by I	ink partner durin	g infofiel	d exchange	Proposed PROP	Response OSED ACCEPT.	Response	Status W			
TYPE: TR/	technical required	ER/editorial required GR	/general required	d T/techr	nical E/editorial G/	/general			Pa 89)	Page 2	5 of 61
COMMENT	STATUS: D/dispa	tched A/accepted R/reje	cted RESPO	NSE STA	TUS: O/open W/w	ritten C/closed	I U/unsatisfied Z	/withdrawn	Li 2 4	ļ.	7/12/20	19 4:00:4

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

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C/ 149	SC 149.3.2.2.4	P 89	L 44	# 136		C/ 149	SC 149.3.2.2	2.4	P 90	L 43	# <u>9</u> 1	
Wu, Peter		Marvell				Trowbridge	e, Steve		Nokia			
Comment T Some a	<i>Type</i> E arrows in the diagra	Comment Status D am are too long			EZ	Comment Many	<i>Type</i> E elements of Figu	Comment S are 149-7 don't	S <i>tatus</i> D quite line up			EZ
Suggested Need te	Remedy o be aligned					Suggested Use th	<i>IRemedy</i> le recommended	l Pete Anslow t	ricks of exact	pixel position and	d size to get ever	ything
Proposed F	Response DSED ACCEPT.	Response Status W				to alig <i>Proposed</i> PROP	n <i>Response</i> OSED ACCEPT	Response S	Status W			
C/ 149	SC 149.3.2.2.2	P 90	L 38	# 211		C/ 149	SC 149.3.2.2	2.13	P 94	L13	# 212	
McClellan, Comment 7 Figure	Brett <i>Type</i> TR 149–7 does not sh	Marvell Comment Status D now how the receive path w	vorks with de-int	Inte erleaving.	erleaver	McClellan, Comment chang	Brett <i>Type</i> E e "transcoder/sc	Comment s	Marvell Status D Inscoder and s	scrambler"		ΕZ
Either only ap	Remedy change to the figur plies to L=1.	e to include de-interleaving	g or add a note i	ndicating that this	figure	Suggested chang	<i>lRemedy</i> e "transcoder/sc	rambler" to "tra	inscoder and	scrambler"		
Proposed F PROP	Response DSED ACCEPT IN	Response Status W I PRINCIPLE.				Proposed PROP	Response OSED ACCEPT	Response S	Status W			
Change	e the text in 149.3.	2.2 as shown in zimmerma	an_3ch_02_071	9.pdf.		C/ 149	SC 149.3.2.2	2.14	P 94	L 23	# 213	
Change	e fig 149-6:					McClellan,	Brett		Marvell			
change encode	the block name "l r"	RS-FEC (360,326) encode	r" to "Interleaver	and RS-FEC (36	0,326)	Comment "For b LSB (I	<i>Type</i> E oth x and c the e eftmost element	Comment S encoder shall fo of the vectors	Status D Ilow the notat x and c) is the	tion described in the first bit into the	149.3.2.2.2 where RS-FEC encoder	E∠ e the and
change	the encoded bloc	k after the encoder to show	w the L interleav	ed encoded block	S	the firs x and	st transmitted bit c are not yet defi	." ined and need	a reference. N	Notation is define	d in 149.3.2.2.3, r	not
change	the RS-FEC fram	e at the end to an RS-FEC	C superframe sh	owing L x 1800 sy	rmbols	149.3. Suggester	2.2.2. Remedy					
and ch	ange fig 149-7:					chang	e "149.3.2.2.2" to	o "149.3.2.2.3"				
change showin	e the output of fram g L x 1800 symbol	ne sync from an RS-FEC fr Is	rame to an RS-F	EC superframe		chang Proposed PROP	e "For both x and <i>Response</i> OSED ACCEPT	d c" to "For bot <i>Response</i> S	h x and c (in 1 Status W	149.3.2.2.15)"		
change	the block name "I	RS-FEC decoder to "De-int	terleaver and RS	S-FEC decoder"		1101	COLD NOOLI I					
change	the RS-FEC Deco	oded frame to show the L i	interleaved enco	ded blocks								

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

C/ 149 SC 14	9.3.2.2.15	P 94	L 41	# 53		C/ 149	SC 149.3.2.2	2.15 P	94 <i>L</i> 51	1 .	# 137	
Wienckowski, Natal Comment Type Incorrect refere	ie T Comn nce	General Motor nent Status D	rs		ΕZ	Wu, Peter <i>Comment</i> The eo mi.i =	<i>Type</i> T quation is wrong tx RSmessage •	Mar <i>Comment Statu</i> <(359 - i) 10 + i>, i =	vell /s D = 0 to 325. i = 0 to 9). index out c	of range	EZ
SuggestedRemedy Change: In Equ To: In Equation	ation (149-3) (149-1)					Suggested It shou	IRemedy Id be changed to	0: <(225 i) 10 i is is	- 0 to 225 i - 0 to 0			
Proposed Response PROPOSED A	e Respon CCEPT.	nse Status W				Proposed PROP	Response	Response Status	s W			
CI 149 SC 14	9.3.2.2.15	P 94	L 41	# 179		CI 149	SC 149 3 2 2	015 P	94 / 52		# 190	_
Baggett, Tim Comment Type Reference to ec term.	E Comn quation 149-3 is in	Microchip nent Status D ncorrect. The referen	nced equation	does not have an alp	<i>EZ</i> oha	Baggett, T <i>Comment</i> Equati	im <i>Type</i> E ion m sub(i,j) cou	Micr <i>Comment Statu</i> uld be written a bit n	rochip rs D nore clear.			ΕZ
SuggestedRemedy reference "Equa Proposed Response PROPOSED A	ation (149-1)" • Respon	nse Status W				Suggested Chang "tx_RS To: "ty_RS	<i>Remedy</i> ge: Smessage <(359	-i) 10 +j>,i = 0 to 32	25, j = 0 to 9."			
	0 2 2 2 15	DOA	/ /1	# 214		(Add r	nultiply operator	"x", "for", and "and")	, 5.		
McClellan, Brett	G.J.Z.Z. 15	Marvell	241	# 214	57	Proposed PROP	Response OSED ACCEPT	Response Status	s W			
page 94 line 41 alpha does not	appear in equation	on 149-3.			EZ	Make Comm	the suggested e nent #137 changi	ditorial changes, but ing the first "359" to	t don't overwrite the "325".	technical cha	ange made by	
SuggestedRemedy change "In Equ	ation (149–3)," to	"In Equation (149–	1),"			C/ 149 Nicholl, Sh	SC 149.3.2.2	2.15 P Xilin	2 95 <i>L</i> 6		# 125	
Proposed Response PROPOSED A	e Respon CCEPT.	nse Status W				Comment There mentio 149.3.	<i>Type</i> E is an orphan sta on to tx_scramble 2.2.14 says noth	Comment Statu tement containing tl ed in the sub-clause ning about tx scram	hat mentions tx_scr Also, the cross-re bled.	rambled, but r eference is wi	nakes no other ong since	ΕZ
						Suggested Remo	<i>Remedy</i> ve the statement	t "tx_scrambled<359	99:0> is defined in 1	149.3.2.2.14."		
						Proposed PROP	Response OSED ACCEPT	Response Status	s W			

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C/ 149	SC 149.3.2.2.15	P 95	L 28	# 287	C/ 149	SC 149.3.2.2	.16 <i>P</i> 97	L 20	# 215
Tu, Mike		Broadcom			McClellan,	Brett	Marvell		
Comment Ty	ype T Comme	ent Status D			PCS Comment	Type ER	Comment Status D		Terminolo
Figure 1 incorrec mis-inte	49-9 shows a multiplier as t (although g_34=1 based rpretations in the future w	ssociated with coef I on Equation 149-1 hen people look at	ficient g_34. The ficient g_34. The ficient g_34. The ficient gamma set of the figure of the figure.	nis is mathematically ause confusions and	y Using i confus same i	m as the variable ing to the reader ssue for p	e for frame message and	superframe messa	ge bits may be
SuggestedR	Remedy				Suggested	Remedy			
In figure multiplie	149-9, remove the multip r with a straight line conn	olier next to g_34, a ecting to the output	nd replace the t of that multipli	arrowed line into that er. Also replace the t	t Define text parity b	and use another bits.	r variable for superframe	message bits and a	also for superframe
g_34 v Proposed R	esponse Respon	se Status W			Proposed I PROP	Response DSED REJECT.	Response Status W		
PROPO	SED ACCEPT.				The co	mmenter does n	ot explain why this may h	e confusing Singl	e letters are regularly
C/ 149	SC 149.3.2.2.16	P 95	L 45	# 126	used fo	or variables.		c contraining. Only	e letters are regularly
Nicholl, Sha	wn	Xilinx			There	s no specific sug	gested remedy provided	by the commenter.	
Comment Ty	vpe E Comme	ent Status D			EZ CL 140	SC 140 2 2 2	16 D07	/ 21	# 90
Sub-clau	uses 149.3.2.2.13 through	149.3.2.2.20 appe	ear to be walkin	g through the Tx	tion 01 149	, ,	.10 91		# 80
and inte	rleaving (if present) occur	s before the RS en	coder.		Commont		Broadcom		
SuggestedR	Remedy				The ph	rase "Compared	to the non-interleaving c	ase " is not verv str	raightforward
Move su sub-clau	ub-clause "149.3.2.2.16 R use "149.3.2.2.15 Reed So	S-FEC superframe olomon encoder"	and round rob	n interleaving" before	e Suggested	Remedy			
Proposed R	esponse Respon	se Status W			Chang	e "Compared to t	the non-interleaving case	, each RS-FEC end	coder receives one out
PROPO	SED ACCEPT.				as spe	cified in 149.3.2.	2.15." to "When $L > 1$ ea	ch RS-FEC encode	r receives one out of
C/ 149	SC 149.3.2.2.15	P 96	L1	# 78	every L exactly	message symb	ols from the superframe, ecified in 149.3.2.2.15."	otherwise the RS F	EC encoder operates
Slavick, Jeff		Broadcom			Proposed I	Response	Response Status W		
Comment Ty	vpe E Comme	ent Status D			EZ PROP	OSED ACCEPT.			
Table 14	49-3 spans over two page	s. It'd be useful to	have all inform	ation on a single pag	je.				
SuggestedR Make Ta	emedy able 149-3 have 4 column	s so the table can t	fit on a single p	age					
Proposed Re PROPO	esponse Respon SED ACCEPT IN PRINC	se Status WIPLE.		-					

Put in additional columns to fit on one page. See table 119-3 for example.

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: Page, Line

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RS-FEC

Terminology

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C/ 149 SC 149.3.2	.2.16	P 97	L 25	# 127	C/ 149	SC	149.3.2.2.17	P 98	L 3	# 128	
Nicholl, Shawn	Xil	nx			Nicholl, Sh	awn		Xilinx			
Comment Type E	Comment Stat	us D		RS-FEC	Comment	Туре	Е	Comment Status D		I	PCS
The sentence "The L superframe" and onw should be in its own s	encoded RS-FEC f ard talk about funct section located after	rames are rec ions that happ RS encoder.	combined into ben after RS e	an interleaved RS-FEC ncoder. I think this text	The su PCS F tx_end	ub-claus PHY fra coded<	se talks abou me or what o 3599:0> but i	at the payload of the PCS constitutes its payload. Th it is not found anywhere e	PHY frame with e sub-clause all lse in the docur	out having yet defined so mentions nent.	d a
SuggestedRemedy					Suggested	IRemed	dy				
Propose to add a new Scrambler". In the ne recombined " and	v sub-clause "RS-FI ew sub-clause put th all that follows it, cu	EC Recombin ne text "The L urrently found	e" before "149 encoded RS-I in 149.3.2.2.1	0.3.2.2.17 PCS FEC frames are 6	Propos clause text "T superf	se to ac 149.3. he L er rame".	dd tx_encode 2.2.16. Prop ncoded RS-F However, it	ed<3599:0> to the output of pose to define the term tx_ EC frames are recombine s really "L x tx_encoded<	of RS-FEC(360) _encoded<3599 ed into an interle 3599:0>" at that	,326) encoder in sub- n:0> somewhere after f eaved RS-FEC t point!	the
	т	JS VV			Proposed	Respor	nse	Response Status W			
	1.				PROP	OSED	ACCEPT IN	, PRINCIPLE.			
C/ 149 SC 149.3.2 Slavick, Jeff Comment Type TR In Figure 149-10 the m325 instead of m32 SuggestedPomedy	2.16 Bro Comment Stat message symbols in 6 for both in and ou	P 97 Dadcom Tus D In and out for I t.	L 49 RS Encoder #I	# 79 RS-FEC begins and ends with	P98 L: tx_scr: genera To "Tr bits, D interle	3 Chang ambled ated fro le bits c n[0] an aved bi	ge "The payl <3599:0> wi m the side-s of the interlea d Dn[1], is s ts, two scran	oad of the PCS PHY fram th an additive scrambler. tream scrambler" aved RS-FEC superframe crambled using an additiv nbler bits are generated fr	e tx_encoded< Two scrambler are grouped int e scrambler. Fo om the side-stro	3599:0> is scrambled bits per symbol are to pairs, and each pair or each pair of eam scrambler."	to r of
Change the m325 an m326 and m325	d m324 for both the	input and out	put side of RS	SENCODER #L to be	C/ 149 McClellan.	SC Brett	149.3.2.2.21	P 99 Marvell	L 30	# 217	
Proposed Response	Response Stat	us W			Comment	Туре	т	Comment Status D		i	EEE
PROPOSED ACCEP	Τ.				"The F This e the XC this sta	PHY als rror cor SMII." atemen	o transitions ndition is defi it is redundar	back to the normal opera ned as the detection of ar nt if wake is triggered by 'o	tion mode if an ny characters ot other than LP_II	error condition occurs her than LPI or IDLE a	s. at
					Suggested	IRemed	dy				

delete "The PHY also transitions back to the normal operation mode if an error condition occurs. This error condition is defined as the detection of any characters other than LPI or IDLE at the XGMII."

Proposed Response Response Status W

PROPOSED ACCEPT.

Pa **99** Li **30**

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

C/ 149 SC 149.3.2.	2.21 P99	L 33	# 218		C/ 149	SC 149.3.2.2.21	P 99	L 49	# 253
McClellan, Brett	Marvell				den Beste	n, Gerrit	NXP Semico	nductors	
Comment Type E "After the alert signal,	Comment Status D " is unclear			EZ	Comment "Whei the Ph	<i>Type</i> T (n the last 64B/65B blo HY" seems inconsis	Comment Status D ock of LPI characters is stent with 149.1.3.3	generated by the	EEE PCS transmit function,
change "After the aler	rt signal " to "After transmitting	the alert signal			Suggestee	dRemedy			
Proposed Response PROPOSED ACCEP	Response Status W	the dient signal,			Repla When RS fra	ce by: the PCS transmit fur ame, the PHY	nction detects an LPI ch	aracter in the las	t 64B/65B block of an
C/ 149 SC 149.3.2.	2.21 <i>P</i> 99	L 36	# 219		Proposed PROF	Response R POSED ACCEPT IN F	Pesponse Status W PRINCIPLE.		
Comment Type E "Lpi_wake_time" is a SuggestedRemedy change "Lpi_wake_tim Proposed Response PROPOSED ACCEP	Comment Status D variable and should not be cap ne" to "lpi_wake_time" <i>Response Status</i> W T.	bitalized		EZ	Same Chang the PC Reed- the be the LF contai of 8 R	resolution as comme ge to: In the transmit of CS transmit function of Solomon frame. Follo eginning of the next su PI transmit mode. The in only LP_IDLE 64B/ S-FEC frames of LP_	ent 216 direction, the transition t detects an LPI control ch owing this event, the PM uperframe to indicate to a sleep signal is compos 65B blocks. Once initiat _IDLE shall be transmitte	o the LPI transm haracter in the las IA transmits the s the link partner t ed of eight Reed ed, the complete ed.	it mode begins when st 64B/65B block of a sleep signal starting at hat it is transitioning to I-Solomon frames that e sleep signal consisting
C/ 149 SC 149.3.2.	2.21 P99	L 41	# 220						
McClellan, Brett Comment Type TR "lpi_wake_timer" is no	Marvell <i>Comment Status</i> D ot a defined variable. Is this su	pposed to be lpi	_tx_wake_timer?	ΕZ					
SuggestedRemedy change lpi_wake_time	er to lpi_tx_wake_timer								
Proposed Response PROPOSED ACCEP	Response Status W								

Pa **99** Li **49**

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

C/ 149	SC	149.3.2.2.21	P 99	L 49	#	216	
McClellan, B	rett		Marvell				
Comment Tv	pe	TR	Comment Status D				EEE

"When the last 64B/65B block of LPI characters is generated by the PCS transmit function," This statement is unclear and likely incorrect about when the sleep signal is triggered.

SuggestedRemedy

change this paragraph to:

"In the transmit direction the transition to the LPI transmit mode begins when the PCS transmit function detects an LPI control character in the last 64B/65B block of a Reed-Solomon frame. Following this event the PMA transmits the sleep signal starting at the beginning of the next superframe to indicate to the link partner that it is transitioning to the LPI transmit mode. The sleep signal is composed of eight Reed-Solomon frames that contain only LP_IDLE 64B/65B blocks. Once initiated, the complete sleep signal consisting of 8 RS-FEC frames of LP_IDLE shall be transmitted."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change to: In the transmit direction, the transition to the LPI transmit mode begins when the PCS transmit function detects an LPI control character in the last 64B/65B block of a Reed-Solomon frame. Following this event, the PMA transmits the sleep signal starting at the beginning of the next superframe to indicate to the link partner that it is transitioning to the LPI transmit mode. The sleep signal is composed of eight Reed-Solomon frames that contain only LP_IDLE 64B/65B blocks. Once initiated, the complete sleep signal consisting of 8 RS-FEC frames of LP_IDLE shall be transmitted.

C/ 149	SC '	149.3.2.3	P101	L 18	#	221	
McClellan, E	Brett		Marvell				
Comment T	ype	т	Comment Status D				PCS

block_lock flag de-assertion is described for data mode, but re-assertion is not described.

SuggestedRemedy

insert "The block_lock flag is re-asserted upon detection of a valid RS-FEC frame."

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 149	SC 149.3.2.3	P 101	L 27	#	222
McClellan, E	Brett	Marvell			
Comment Ty	vpe E	Comment Status D			PCS

"The PMA training frame includes 1 bit pattern every 450 PAM2 symbols, which is aligned with the PCS partial PHY frame boundary" is unclear

SuggestedRemedy

change to "The PMA training frame includes an alignment bit every 450 PAM2 symbols, which is aligned with the PCS partial PHY frame boundary"

Proposed Response	Response Status	W	
· /· · · · · · · · · · · · · · · · · ·		••	

PROPOSED ACCEPT.

C/ 149	SC 149.3.2.3	P101	L 31	# 223	
McClellan, Br	rett	Marvell			
Comment Ty	pe TR	Comment Status D			EEE

"PHYs with the EEE capability support transition to the LPI mode when the PHY has successfully completed training and pcs_data_mode is TRUE." 46.1.7 states that LPI will not be asserted until one second after link is up.

5.1.7 States that LFT will not be asserted until one second

SuggestedRemedy

change text to "PHYs with the EEE capability support transition to the LPI mode when the PHY has successfully completed training and pcs_data_mode is TRUE and subject to the timing requirement of 46.1.7."

Proposed Response Response Status W

PROPOSED ACCEPT.

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

Pa **101** Li **31** Page 31 of 61 7/12/2019 4:00:46 PM

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

C/ 149	SC 149.3.2.	3.3 <i>P</i> 102	L 12	# 129		C/ 149	SC 149.3.5	P 103	L 31	# <u>5</u> 4	
licholl, Sh	awn	Xilinx				Wienckows	ski, Natalie	General Motor	S		
Comment	Гуре Е	Comment Status D		In	nterleaver	Comment	Type E	Comment Status D			ΕZ
Sub-cla	ause 149.3.2.3	PCS Receive function is m	nissing section that	describe the foll	owing:	typo					
- ae-co - RS-F	nstruction of th FC decoder	e unscrampled RX stream	into pieces for each	RS-FEC decod	ler	Suggestea	Remedy				
- round	robin de-interl	eaving				Chang	e: among rainir	ng frame			
uggested	Remedy					To: an	ong training fra	ime			
Propos in the T	e to add sub-c	lauses before "149.3.2.3.3 t in the opposite order.	Invalid blocks" that	are akin to sub-	clauses	Proposed PROP	Response OSED ACCEP1	Response Status W Г.			
- RX De	S-FEC decode	r (akin to Tx Recombine) (akin to Tx FEC encoder)	round robin interles	wing)		C/ 149	SC 149.3.5	P 103	L 31	# 115	
				wing)		Dudek, Mił	ke	Marvell			
oposed i	response					Comment	Type E	Comment Status D			ΕZ
PROP	JSED ACCEP	T IN PRINCIPLE.				typo					
Chang	e the text in 14	9.3.2.3 as shown in zimme	rman_3ch_02_071	9.pdf.		Suggestea	Remedy				
Chang	e fia 149-6					change	e "raining" into t	raining"			
Chang	o ng 140 0.					Proposed	Response	Response Status W			
change	the block nam	ne "RS-FEC (360,326) enco	oder" to "Interleaver	and RS-FEC (3	60,326)	PROP	OSED ACCEPT	Г.			
encode						CI 149	SC 140 3 5	P103	/ 31	# 254	
change	the encoded b	block after the encoder to s	how the L interleav	ed encoded bloc	ks	0/ 143	00 149.3.3	1105	231	# 234	
change	the RS-FFC f	rame at the end to an RS-F	EC superframe sh	owing L x 1800 s	symbols	den Bester	n, Gerrit	NXP Semicon	ductors		-
onunge					Jymbolo		<i>Type</i> E				EZ
and ch	ange fig 149-7:	:				typo. 1					
change	the output of t	frame sync from an RS-FE	C frame to an RS-F	EC superframe		Suggestea	Remedy				
showin	g L x 1800 syn	nbols		·		Replac	e by. training				
change	the block nam	ne "RS-FEC decoder to "De	e-interleaver and R	S-FFC decoder"		Proposed	Response	Response Status W			
onunge						PROP	USED ACCEPT				
change	e the RS-FEC [Decoded frame to show the	E interleaved enco	ded blocks		C/ 149	SC 149.3.5	P103	L 31	# 233	
						McClellan,	Brett	Marvell			
						Comment	Type E	Comment Status D			ΕZ
						typo					
						Suggestea	Remedy				
						change	e "raining" to "tra	aining"			
						Proposed	Response	Response Status W			
						PROP	OSED ACCEPT	Г.			
	a sharta d							D			~
	STATUS: D/d	ispatched A/accepted R/r	rejected RESPO	NSE STATUS: C	editorial G/g D/open W/wri	eneral tten C/closed	U/unsatisfied	Z/withdrawn Li 31	5	Page 32 of 7/12/2019	61 4:00:

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

C/ 149	SC 149.3.5	P103	L 32	# 25		C/ 149	SC 149.3.6	P106	L 26	# 256
Anslow, Pe	ete	Ciena				den Bester	n, Gerrit	NXP Sen	niconductors	
Comment	Туре Е	Comment Status D			ΕZ	Comment	Туре Т	Comment Status D		EEE
are sh	nown in 149–12" //Domo <i>du</i>	should be "are shown in Figure	9 149–12"			"do no to be r	t overlap" is not re non-perfect.	eally correct, because the	he alignment of the	link partners is allowed
Suggested	Remedy					Suggested	IRemedy			
Chang	e the cross-relen	ence format to Figure Number				Replac	ce by "can only ha	ve a small overlap"		
Proposed	Response	Response Status W				Proposed	Response	Posponso Status W		
PROP	OSED ACCEPT.					PROP				
C/ 149	SC 149.3.5	P103	L 48	# 255			SC 140 2 7 2 1	D109	1.4	# 000
den Bester	n, Gerrit	NXP Semicondu	uctors			C/ 149	30 149.3.1.2.1	F 100	L4	# 282
Comment	Туре Е	Comment Status D			ΕZ	Souvignier	, Tom	Broadcor	n	
typo: (I	bits of) PHY fram	ne is				Comment	Type TR	Comment Status D		RS-FEC
Suaaestea	lRemedv					RFER	_CNT_LIMIT and	RFRX_CNT_LIMIT are	not defined	
Replac	ce by: (bits of) PH	IY frame are				Suggested	lRemedy			
Dropood	Boononoo					See pa	age 2 of "tu_3ch_0	03_0719.pdf".		
		Response Status W				Proposed	Response	Response Status W		
FROF	USED ACCEPT.					PROP	OSED ACCEPT II	N PRINCIPLE.		
C/ 149	SC 149.3.5	P 103	L 48	# 55		Grant	editorial license to	format the definitions	correctly	
Wienckows	ski, Natalie	General Motors							concorry.	
Comment	Туре Е	Comment Status D			ΕZ	C/ 149	SC 149.3.7.2.2	2 P109	L 22	# 174
Subjec	t verb agreeeme	nt				Regev, Alc	on	Keysight	Technologies	
Suggested	Remedy					Comment	Type TR	Comment Status D		EZ
Chang	e: The first 96 bi	its of the 16th partial PHY fram	e is			"rs-fec	_frame_done" sho	ould be "rs_fec_frame_	done"	
To: Th	ne first 96 bits of	the 16th partial PHY frame are				Suggested	IRemedy			
Proposed	Response	Response Status W				chang	e "rs-fec_frame_d	one" to "rs_fec_frame_	done"	
PROP	OSED ACCEPT.					Proposed	Response	Response Status W		
C/ 149	SC 149.3.6.1	P105	L 45	# 84		PROP	OSED ACCEPT.			
Maguire, V	alerie	The Siemon Co	mpany							
Comment	Type E	Comment Status D			EZ					
Use pr	eferred terminolo	ogy for mandatory criteria.								
	Remedy	. ,								
Renlac	"EFF-canable	PHVs must synchronize" with	"EEE-capab	le PHVs shall						
synchr	onize" and adjus	t PICS, if necessary.	, ιιι-υαραυ							
Proposed	Response	Response Status W								
PROP	OSED ACCEPT.									
	technical require	d ER/editorial required CR/ac	neral require	d T/technical E/adit	torial G/a	onoral		ת	a 100	Daga 22 of 61
COMMEN	T STATUS: D/dis	patched A/accepted R/rejected	ed RESPO	NSE STATUS: O/on	en W/wri	itten C/closec	U/unsatisfied 7/	withdrawn Li	22	7/12/2019 4:00
SORT ORI	DER: Page, Line					2,0.0000		L/		.,

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

C/ 149	SC 149.3.8.2	P113	L 42	# <u>1</u> 62	C/ 149	SC 149.3.8.2	P114	L 48	#	165
Law, David	1	Hewlett Packa	rd Enterprise		Law, Dav	id	Hewlett Packa	rd Enterprise		
Comment	Туре Е	Comment Status D			EZ Commen	туре т	Comment Status D			RS-FEC
Chang state o	e the text ' time of the'.	RFER_BAD_RF of the' to	read ' time th	e RFER_BAD_RF	Ther state	e is no transition co in Figure 149–15 '	ndition on the transition from RFER monitor state diagram	the INC_CNT2	2 state to	the HI_RFER
Suggested	Remedy				Suggeste	dRemedy				
See co	omment.				Add	a transition condition	on on the transition from the I	NC_CNT2 state	e to the H	I_RFER state.
Proposed I	Response	Response Status W			Proposed	Response	Response Status W			
PROP	OSED ACCEPT.				PRO	POSED ACCEPT I	N PRINCIPLE.			
C/ 149	SC 149.3.8.2	P113	L 46	# 163	Add	UCT" transition co	ndition.			
Law, David	I	Hewlett Packa	rd Enterprise		C/ 149	SC 149.3.8.2	P115	L 5	#	166
Comment	Туре Т	Comment Status D		RS-F	EC Law, Dav	id	Hewlett Packa	rd Enterprise		
I'm stru	uggling to find the	e definition of the RFER_CNT	LIMIT and RF	RX_CNT_LIMIT.	Commen	Type E	Comment Status D	·		EZ
Suggested	Remedy				Pleas	e vertically and ho	rizontally centre align all stat	e names.		
Please defined	e add a cross-refe d.	erence to where RFER_CNT_	LIMIT and RFR	X_CNT_LIMIT are	Suggeste	dRemedy				
Proposed I	Response	Response Status W			Dramasa					
PROP	OSED ACCEPT	IN PRINCIPLE.			Proposed PRO	POSED ACCEPT.	Response Status W			
Comm A cros state d	ent 282 adds the s reference shou liagram with the o	se definitions. Id not be needed as these de other variables.	finitions will be	a few pages before th	ie					
C/ 149	SC 149.3.8.2	P114	L 3	# 164						
Law, David	ł	Hewlett Packa	rd Enterprise							
Comment	Туре Т	Comment Status D			EZ					
Subcla definiti true ar which = in the I based state ir = ON =	use 149.3.7.2.2 on of the values, nd false. This see states that ' PCS PCS 64B/65B Tra on ' pcs_reset + n Figure 149–15 +' to 'pcs_rese	Variables' defines pcs_reset which I understand to mean is ms to be confirmed in subcla Reset sets pcs_reset = TRU ansmit and receive State diag '. Based on its use in the op RFER monitor state diagram t +'.	as a Boolean va that the two pos- use 149.3.2.1 'F E while any of t rams where the en arrow entry to needs to be ch	ariable with no further sible values default to PCS Reset function' ne above' and its un open arrow entry is o the RFER_MT_INIT anged from 'pcs_rese	o se T et					
Suggested	Remedy									
Chang	e 'pcs_reset = O	N +'. to read 'pcs_reset +	.'.							
Proposed I	Response	Response Status W								
PROP	OSED 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: Page, Line

Pa **115** Li **5**

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

C/ 149 SC 149.3.8.2	P115	L 20	# 10)2	C/ 149	SC 149.3.	8.2	P 116	L13	# 1	03
Lo, William	Axonne Inc.				Lo, William	n		Axonne Inc.		_	
Comment Type TR	Comment Status D			EEE	Comment	Type TR	Commen	t Status D			PCS
Technically this is really after clause 149.38.2. Figure 149-16 (page 11: There is a corner case t slight differently depend Scenario: T_TYPE(tx_raw) initially When this happens the and then immediately tr The intent here is to exi But why enter LPI in the Suggest remedy is to pr SNR is low. SuggestedRemedy Page 115 Figure 149-16 Change the 3 T_TYPE((T_TYPE(tx_raw) = LI) * Proposed Response PROPOSED ACCEPT.	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 $r = LI$ 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 all event entering Figure 149-17 c. r_rraw = LI to r_rraw = LI to r_rraw = LI to r_rraw = LI to r_rraw = LI to	ne reason the s ure 149-17 (Pr ttle ugly that p nange avoids t _snr = true. o TX_L but door eady knows S when the PH	state diagram age 116). eople may im he corner cas es absolutely NR is low. Y already kno	s appears plement se. nothing ows that	Techn after c The tx frame 149-20 Scena XGMII T_TYF XGMII T_TYF becau: Since tx_lpi_ Meanv and w We arr Hence transm Remet diagra Suggested Page Chang Ip_low to (Ip_low PROP	ically this is re- lause 149.3.8 $_$ lpi_req varia time and ther o to get out of rio: indicats LPI + 2E(tx_raw) = I stops sendin 2E(tx_raw) = I stops sendin the EEE transition the EEE transition the EEE transition the EEE transition the EEE transition th	eally clause 149. eally clause 149. 3.2. ble gets stuck tr a goes to someth sync. which causes LI, enter TX_L st g LPI before end (C+D+E+S+T), e art_next is never not complete (rs_ is false hence st pi_req stuck at tr ND_SLEEP stat forever since tx_ asmit state diagra- am (page 115). transition into T2 99-17. PE(tx_raw) = (C + PE(tx_raw) = (C Response PT.	3.7.3 but for sc ue if LPI is pres- ning that is not is ate (page 116) d of RS frame v enter TX_WN sir r set true. fec_frame_dor ate machine m rue, rs_fec_frame e and then onto lpi_req is stuck- am (page 119) X_WN until tx_I - D + E + S + T + D + E + S + Status W	ome reason the s sented on XGMII LPI. This will ca which causes tate but tx_lpi_re he is not asserte oves from TX_W me_done will trig o SEND_QR sta < at true. is out of sync wi lpi_active is true T)) * tx_lpi_activ	state diagram I for less thar nuse Figures eq never gets d page 119) VN to TX_C s gger eventual te (page 119) ith the PCS 6 to keep the 2	a full RS 149-16 and set to false tate.)y). 4/65B 2 state

Pa **116** Li **13**

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

C/ 149	SC 149.3.8.2	P117	20	# 107		0/ 149	00 143.3.0.2	P118	L13	# 157
Law, David	I	Hewlett Packa	rd Enterprise			Law, David	l	Hewlett Packa	ard Enterprise	
Comment	Туре Е	Comment Status D			EZ	Comment	Туре Т	Comment Status D		EZ
Sugge: mainte	st that a font be ι nance on the sta	used for the each symbols in te diagram.	the state diagrai	m to ease any fut	ture	The I_ 149.3.	BLOCK_R consta 7.2.1 'Constants',	ant assigned to rx_raw in the there is however an IBLOCP	RX_W state isr <_R constant de	n't defined in subclause efined in subclause
Suggested	Remedy					149.3.	7.2. that isn't use	d.		
Sugge	st that the two ins	stances of the symbol '=' in sy	ymbol font be ch	nanged to Airal for	nt.	Suggestea	Remedy			
I hey a transiti	on from RX_E to	$PE_NEXT ='$ in the transiti RX_E .	on from RX_D to	o RX_E and the		Either subcla	change I_BLOCH use 149.3.7.2.1 t	K_R in the RX_R state to IBL o I_BLOCK_R.	OCK_R, or cha	nge IBLOCK_R in
Proposed I	Response OSED ACCEPT.	Response Status W				Proposed PROP	Response	Response Status W		
C/ 149	SC 149.3.8.2	P117	L 4 1	# 168		Chang	e IBLOCK_R in s	subclause 149.3.7.2.1 to I_BI	_OCK_R.	
Law, David	1	Hewlett Packa	rd Enterprise			C/ 149	SC 149.3.8.2	P118	L19	# 158
Comment	Type E	Comment Status D			EZ	Law. David	1	Hewlett Packa	ard Enterprise	
Typo.						Commont		Comment Status D		EZ
						Comment				
Suggested	Remedy					Туро.	rype L			
Suggested Sugget	Remedy ts that 'R_TYPE(rx_coded)= S' be changed to	read 'R_TYPE(I	rx_coded) = S' (a	dd a	Typo.	Remedy			
Suggested Sugget space	<i>Remedy</i> ts that 'R_TYPE(between ")" and '	rx_coded)= S' be changed to '=') on the transition from the	read 'R_TYPE(I RX_T to RX_D s	rx_coded) = S' (ae states.	dd a	Typo. Suggestea Suage	Remedy ts that 'R TYPE(rx coded)=I' be changed to r	ead 'R_TYPE(r)	x coded) = l' (add a
Suggested Sugget space Proposed I	Remedy ts that 'R_TYPE(between ")" and ' Response	rx_coded)= S' be changed to '=') on the transition from the <i>Response Status</i> W	read 'R_TYPE(I RX_T to RX_D s	rx_coded) = S' (ad states.	dd a	Typo. Suggestea Sugge space	Remedy ts that 'R_TYPE(before and after	rx_coded)=I' be changed to r the '=') on both exit condition	ead 'R_TYPE(r; s from the RX_\	x_coded) = I' (add a W state.
Suggested Sugget space Proposed I PROPO	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT.	rx_coded)= S' be changed to '=') on the transition from the <i>Response Status</i> W	read 'R_TYPE(i RX_T to RX_D s	rx_coded) = S' (a states.	dd a	Suggested Suggested Sugge space Proposed	Remedy ts that 'R_TYPE(before and after Response	rx_coded)=I' be changed to r the '=') on both exit condition Response Status W	ead 'R_TYPE(r; s from the RX_\	x_coded) = I' (add a W state.
Suggested Sugget space Proposed I PROPO	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2	rx_coded)= S' be changed to '=') on the transition from the <i>Response Status</i> W P118	read 'R_TYPE(I RX_T to RX_D s	rx_coded) = S' (ar states. # 156	dd a	Suggested Suggested Sugge space Proposed PROP	Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT.	rx_coded)=I' be changed to r the '=') on both exit condition <i>Response Status</i> W	ead 'R_TYPE(r: s from the RX_\	x_coded) = I' (add a W state.
Suggested Sugget space Proposed I PROPO CI 149 Law, David	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2	rx_coded)= S' be changed to =') on the transition from the <i>Response Status</i> W <i>P</i> 118 Hewlett Packa	read 'R_TYPE(i RX_T to RX_D s L7 rd Enterprise	rx_coded) = S' (ar states. # 156	dd a	Confinent Typo. Suggested Sugge space Proposed PROP Cl 149	Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT. SC 149.3.2.3	rx_coded)=I' be changed to r the '=') on both exit condition Response Status W	ead 'R_TYPE(r: s from the RX_\ 	x_coded) = I' (add a W state. # 173
Suggested Sugget space Proposed I PROPO CI 149 Law, David Comment	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2 I Type T	rx_coded)= S' be changed to =') on the transition from the <i>Response Status</i> W <i>P</i> 118 Hewlett Packa <i>Comment Status</i> D	read 'R_TYPE(i RX_T to RX_D s <i>L</i> 7 rd Enterprise	rx_coded) = S' (ad states. # <u>156</u>	dd a	Comment Typo. Suggested Sugge space Proposed PROP C/ 149 Reaev. Alc	Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT. SC 149.3.2.3 n	rx_coded)=I' be changed to r the '=') on both exit condition Response Status W P118 Keysight Tech	ead 'R_TYPE(r: s from the RX_\ <i>L</i> 23	x_coded) = I' (add a W state. # 173
Suggested Suggel space Proposed I PROPO CI 149 Law, David Comment The LF	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2 I Type T P_BLOCK_R con	rx_coded)= S' be changed to =') on the transition from the <i>Response Status</i> W <i>P</i> 118 Hewlett Packa <i>Comment Status</i> D stant assigned to rx_raw in th	read 'R_TYPE(I RX_T to RX_D s	rx_coded) = S' (ad states. # <u>156</u> n't defined in	dd a EZ	Comment Typo. Suggested Sugge space Proposed PROP Cl 149 Regev, Alc Comment	Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT. SC 149.3.2.3 n Type TR	rx_coded)=I' be changed to r the '=') on both exit condition <i>Response Status</i> W P118 Keysight Tech Comment Status D	ead 'R_TYPE(r: s from the RX_\ <i>L</i> 23 unologies	x_coded) = I' (add a W state. # <u>173</u> EEE
Suggested Suggel space Proposed I PROPO CI 149 Law, David Comment I subclai	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2 I Type T P_BLOCK_R con use 149.3.7.2.1 'use 149.3.7.2.t 'use 149.3.7.2.t	rx_coded)= S' be changed to '=') on the transition from the <i>Response Status</i> W <i>P</i> 118 Hewlett Packa <i>Comment Status</i> D stant assigned to rx_raw in th Constants', there is however a t isn't used	read 'R_TYPE(i RX_T to RX_D s <i>L</i> 7 rd Enterprise ne RX_L state isi a LPBLOCK_R s	rx_coded) = S' (ar states. # 156 n't defined in constant defined	dd a EZ in	Comment Typo. Suggested Sugge space Proposed PROP C/ 149 Regev, Alc Comment In figu	Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT. SC 149.3.2.3 n Type TR re 149-19, the co	rx_coded)=I' be changed to r the '=') on both exit condition <i>Response Status</i> W <i>P</i> 118 Keysight Tech <i>Comment Status</i> D unter Ipi_rxw_err_cnt is used	ead 'R_TYPE(r: s from the RX_\ <i>L23</i> mologies which was not	x_coded) = I' (add a W state. # <u>173</u> <i>EEE</i> previously defined.
Suggested Sugget space Proposed I PROPO Cl 149 Law, David Comment The LF subclat subclat Suggested	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2 I Type T P_BLOCK_R con use 149.3.7.2. th Remedy	rx_coded)= S' be changed to =') on the transition from the <i>Response Status</i> W <i>P</i> 118 Hewlett Packa <i>Comment Status</i> D stant assigned to rx_raw in th Constants', there is however a at isn't used.	read 'R_TYPE(i RX_T to RX_D s <i>L</i> 7 rd Enterprise ne RX_L state isi a LPBLOCK_R o	rx_coded) = S' (ar states. # 156 n't defined in constant defined	dd a EZ in	Comment Typo. Suggested Sugge space Proposed I PROP Cl 149 Regev, Alc Comment In figur	Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT. SC 149.3.2.3 n Type TR re 149-19, the co Remedy	rx_coded)=I' be changed to r the '=') on both exit condition <i>Response Status</i> W <i>P</i> 118 Keysight Tech <i>Comment Status</i> D unter Ipi_rxw_err_cnt is used	ead 'R_TYPE(r: s from the RX_V <i>L</i> 23 unologies which was not	x_coded) = I' (add a W state. # <u>173</u> <i>EEE</i> previously defined.
Suggested Sugget space Proposed I PROPO CI 149 Law, David Comment The LF subclar subclar Suggested Either	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2 Type T P_BLOCK_R con use 149.3.7.2.1 ' use 149.3.7.2. th Remedy change LP BLOC	rx_coded)= S' be changed to =') on the transition from the <i>Response Status</i> W <i>P</i> 118 Hewlett Packa <i>Comment Status</i> D stant assigned to rx_raw in th Constants', there is however a at isn't used. CK R in the RX L state to LF	read 'R_TYPE(I RX_T to RX_D s	rx_coded) = S' (ar states. # 156 n't defined in constant defined	dd a EZ in	Comment Typo. Suggested Sugge space Proposed PROP Cl 149 Regev, Alc Comment In figur Suggested In sect	Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT. SC 149.3.2.3 n Type TR re 149-19, the co Remedy ion 149.3.7.2.5 (i	rx_coded)=I' be changed to r the '=') on both exit condition <i>Response Status</i> W <i>P</i> 118 Keysight Tech <i>Comment Status</i> D unter lpi_rxw_err_cnt is used Counters) add the following c	ead 'R_TYPE(r: s from the RX_\ <i>L23</i> mologies which was not lefinition for lpi	x_coded) = I' (add a W state. # <u>173</u> <i>EEE</i> previously defined. rxw_err_cnt:
Suggested Suggel space Proposed I PROPO CI 149 Law, David Comment The LF subclar subclar Suggested Either subclar	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2 I Type T P_BLOCK_R con use 149.3.7.2.1 ' use 149.3.7.2. th Remedy change LP_BLOO use 149.3.7.2.1 t	rx_coded)= S' be changed to =') on the transition from the <i>Response Status</i> W <i>P</i> 118 Hewlett Packa <i>Comment Status</i> D stant assigned to rx_raw in th Constants', there is however a at isn't used. CK_R in the RX_L state to LF o LP_BLOCK_R.	read 'R_TYPE(I RX_T to RX_D s <i>L</i> 7 rd Enterprise a LPBLOCK_R or c	rx_coded) = S' (ar states. # 1 <u>56</u> n't defined in constant defined change LPBLOCK	dd a EZ in <r in<="" td=""><td>Comment Typo. Suggested Sugge space Proposed I PROP Cl 149 Regev, Alc Comment In figur Suggested In sect "Ipi_rx</td><td>Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT. SC 149.3.2.3 n Type TR re 149-19, the co Remedy ion 149.3.7.2.5 (f v_err_cnt</td><td>rx_coded)=I' be changed to r the '=') on both exit condition <i>Response Status</i> W <i>P</i>118 Keysight Tech <i>Comment Status</i> D unter lpi_rxw_err_cnt is used Counters) add the following c</td><td>ead 'R_TYPE(r: s from the RX_\ <i>L23</i> unologies which was not lefinition for lpi_</td><td>x_coded) = I' (add a W state. # <u>173</u> <i>EEE</i> previously defined. rxw_err_cnt:</td></r>	Comment Typo. Suggested Sugge space Proposed I PROP Cl 149 Regev, Alc Comment In figur Suggested In sect "Ipi_rx	Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT. SC 149.3.2.3 n Type TR re 149-19, the co Remedy ion 149.3.7.2.5 (f v_err_cnt	rx_coded)=I' be changed to r the '=') on both exit condition <i>Response Status</i> W <i>P</i> 118 Keysight Tech <i>Comment Status</i> D unter lpi_rxw_err_cnt is used Counters) add the following c	ead 'R_TYPE(r: s from the RX_\ <i>L23</i> unologies which was not lefinition for lpi_	x_coded) = I' (add a W state. # <u>173</u> <i>EEE</i> previously defined. rxw_err_cnt:
Suggested Suggel space Proposed I PROPO CI 149 Law, David Comment T Subclar Subclar Suggested Either Subclar Proposed I	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2 I Type T P_BLOCK_R con use 149.3.7.2.1 'r use 149.3.7.2. th Remedy change LP_BLOU use 149.3.7.2.1 t Response	rx_coded)= S' be changed to =') on the transition from the Response Status W P118 Hewlett Packa Comment Status D stant assigned to rx_raw in th Constants', there is however is at isn't used. CK_R in the RX_L state to LF o LP_BLOCK_R. Response Status W	read 'R_TYPE(i RX_T to RX_D s <i>L</i> 7 rd Enterprise a LPBLOCK_R of PBLOCK_R, or c	rx_coded) = S' (ar states. # 156 n't defined in constant defined	dd a <i>EZ</i> in <_R in	Comment Typo. Suggestea Sugge space Proposed PROP C/ 149 Regev, Alc Comment In figur Suggestea In sect "lpi_rx An inc	Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT. SC 149.3.2.3 n Type TR re 149-19, the co Remedy ion 149.3.7.2.5 (f w_err_ent ger value that co v err_ont is reset	rx_coded)=I' be changed to r the '=') on both exit condition <i>Response Status</i> W <i>P</i> 118 <i>Keysight Tech</i> <i>Comment Status</i> D unter lpi_rxw_err_cnt is used Counters) add the following counts the number of receive w	ead 'R_TYPE(r: s from the RX_\ <i>L23</i> mologies which was not lefinition for lpi_ vake on error cc	x_coded) = I' (add a W state. # <u>173</u> <i>EEE</i> previously defined. rxw_err_cnt: poditions.
Suggested Sugget space Proposed I PROPO Cl 149 Law, David Comment The LF subclar Suggested Either subclar Proposed I PROPO	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2 Type T P_BLOCK_R con use 149.3.7.2.1 ft Remedy change LP_BLOG use 149.3.7.2.1 t Response OSED ACCEPT	rx_coded)= S' be changed to =') on the transition from the <i>Response Status</i> W <i>P</i> 118 Hewlett Packa <i>Comment Status</i> D stant assigned to rx_raw in th Constants', there is however a at isn't used. CK_R in the RX_L state to LF o LP_BLOCK_R. <i>Response Status</i> W IN PRINCIPLE.	read 'R_TYPE(I RX_T to RX_D s <i>L</i> 7 rd Enterprise ne RX_L state isi a LPBLOCK_R of c	rx_coded) = S' (ar states. # 156 n't defined in constant defined	dd a <i>EZ</i> in <_R in	Comment Typo. Suggested Sugge space Proposed / PROP C/ 149 Regev, Alc Comment In figur Suggested In sect "lpi_rxv (see 4:	Remedy ts that 'R_TYPE(before and after Response OSED ACCEPT. SC 149.3.2.3 n Type TR re 149-19, the co Remedy ion 149.3.7.2.5 ((w_err_cnt ger value that co '_err_cnt is reset 5.2.3.12)."	rx_coded)=I' be changed to r the '=') on both exit condition <i>Response Status</i> W <i>P</i> 118 <i>Keysight Tech</i> <i>Comment Status</i> D unter Ipi_rxw_err_cnt is used Counters) add the following counts the number of receive w to zero during PCS_TEST. T	ead 'R_TYPE(r s from the RX_\ <i>L</i> 23 unologies which was not lefinition for lpi_ vake on error co 'he counter is re	x_coded) = I' (add a W state. # <u>173</u> EEE previously defined. rxw_err_cnt: ponditions. eflected in register 3.22
Suggested Suggel space Proposed I PROPO CI 149 Law, David Comment The LF subclar subclar Suggested Either subclar Proposed I PROPO	Remedy ts that 'R_TYPE(between ")" and ' Response OSED ACCEPT. SC 149.3.8.2 Type T P_BLOCK_R con use 149.3.7.2.1 ' use 149.3.7.2.1 th Remedy change LP_BLOC use 149.3.7.2.1 t Response OSED ACCEPT	rx_coded)= S' be changed to =') on the transition from the <i>Response Status</i> W <i>P</i> 118 Hewlett Packa <i>Comment Status</i> D stant assigned to rx_raw in th Constants', there is however a at isn't used. CK_R in the RX_L state to LF o LP_BLOCK_R. <i>Response Status</i> W IN PRINCIPLE.	read 'R_TYPE(I RX_T to RX_D s	rx_coded) = S' (ar states. # 156 n't defined in constant defined	dd a EZ in <_R in	Comment Typo. Suggested Sugge space Proposed I PROP Cl 149 Regev, Alc Comment In figur Suggested In sect "lpi_rxx An inte Ipi_rxw (see 4: Proposed I	Remedy ts that 'R_TYPE(before and after ' Response OSED ACCEPT. SC 149.3.2.3 n Type TR re 149-19, the co Remedy ion 149.3.7.2.5 (f w_err_cnt ger value that co '_err_cnt is reset 5.2.3.12)."	rx_coded)=I' be changed to r the '=') on both exit condition <i>Response Status</i> W <i>P</i> 118 Keysight Tech <i>Comment Status</i> D unter lpi_rxw_err_cnt is used Counters) add the following counts the number of receive w to zero during PCS_TEST. T <i>Response Status</i> W	ead 'R_TYPE(r: s from the RX_\ <i>L23</i> unologies which was not lefinition for lpi_ vake on error co 'he counter is re	x_coded) = I' (add a W state. # <u>173</u> <i>EEE</i> previously defined. rxw_err_cnt: onditions. eflected in register 3.22

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 118	Page 36 of 61
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 23	7/12/2019 4:00:47 PM
SORT ORDER: Page, Line		

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C/ 149	SC 149.3.8.2	P118	L 23	# 1 <mark>59</mark>		Cl 149	SC 149.3.9	P120	L 23	# 58	
Law, David	I	Hewlett Packar	d Enterprise			Wienckow	ski, Natalie	General Motors			
Comment	Туре Т	Comment Status D			EEE	Comment	Туре Т	Comment Status D			ΕZ
The lpi 64B/64	i_rxw_err_cnt cou	unter incremented in the RX_V diagram part b' is not defined	VE state of Fig	ure 149–19 'PCS		unclea	ar terminology use	d			
Suggested	Remedy	diagram, part b to not defined				Suggestee	dRemedy				
Define	the lpi_rxw_err_	cnt counter and it's use, or de	ete from the R	X_WE state.		Chanę To: e	ge: exchange, at a xchange, at a mini	a minimum, the link partner he mum, the link partner OAM st	alth status. atus.		
Proposed	Response	Response Status W				Proposed	Response	Response Status W			
PROP	OSED ACCEPT	IN PRINCIPLE.				PROF	OSED ACCEPT.				
Implen	nent solution to c	omment #173.				C/ 149	SC 149.3.9.2.	I P121	L 2	# 57	
In sect	ion 149.3.7.2.5 (Counters) add the following de	finition for Ipi	rxw err cnt:		Wienckow	ski, Natalie	General Motors			
"lpi_rx An inte	w_err_cnt	ounts the number of receive w	ake on error co	nditions.		Comment	<i>Type</i> E	Comment Status D			ΕZ
lpi_rxw (soo_4)	/_err_cnt is reset	to zero during PCS_TEST. The	ne counter is re	eflected in register	3.22	Suggester	dRemedy	in ngulo			
(566.4	5.2.5.12).					Adjus	t lines/boxes in fig	ure 149-21 so they are proper	ly aligned and	there don't appea	ar to
C/ 149	SC 149.3.8.2	P119	L 20	# 161		be diff	erent line widths.		, ,		
Law, David	1 Turna F	Hewlett Packar	d Enterprise			Proposed	Response	Response Status W			
Comment	the sourious AN	D symbol from the end of the	equation for the	e transition from	EZ	PROF	OSED ACCEPT.				
SEND	_SLEEP to SENI	D_QR.				C/ 149	SC 149.3.9.2.	I P121	L 38	# 106	
Suggested	Remedy					Lo, Williar	n	Axonne Inc.			
Chang	e the text ' * tx	_lpi_req*'. to read ' * tx_lpi_rec	'.			Comment	Type E	Comment Status D			ΕZ
Proposed	Response	Response Status W				Gram	mar				
PROP	OSED ACCEPT.					Suggestee	dRemedy				
C/ 149	SC 149.3.9	P 120	L 20	# 194		Chang	ge "can packed int	o" to "can be packed into"			
Brandt, Da	vid	Rockwell Autor	nation			Proposed	Response	Response Status W			
Comment Missin	<i>Type</i> E g space	Comment Status D			EZ	PROF	OSED ACCEPT.				
Suggested Chang To: "O	<i>Remedy</i> e: "OAM10-bit" AM 10-bit"										
Proposed PROP	Response OSED ACCEPT.	Response Status W									

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

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C/ 149	SC 149.3.9.2.	1 P121	L 38	# 56		C/ 149	SC 149.3.9.2	P122	L 28	# <u>1</u> 07	
Wienckow	ski, Natalie	General Motor	rs			Lo, Willian	n	Axonne I	Inc.		
Comment typo	Туре Е	Comment Status D			EZ	Comment OAM 1	<i>Type</i> TR field no longer ha	Comment Status D as parity			EZ
Suggested	dRemedy					Suggested	Remedy				
Chang To: fu	ge: full OAM frame Ill OAM frame can	e can packed into 8 super fra be packed into 8 super fran	ames nes			Delete " and t	e the clause the symbol parity	will not change"			
Proposed PROF	Response POSED ACCEPT.	Response Status W				Proposed PROP	Response POSED ACCEPT	Response Status W	1		
C/ 149	SC 149.3.9.2.	1 <i>P</i> 121	L 52	# 258		C/ 149	SC 149.3.9.2	2.13 P125	L 6	# 288	
den Beste	n, Gerrit	NXP Semicon	nductors			Tu, Mike		Broadco	m		
Comment	Type E	Comment Status D			EZ	Comment	Туре Т	Comment Status D			PCS
typo: s Suggested	symbol dRemedy					Figure incorre interpr	e 149-23 shows a ect (although A_2 retations in the fu	n multiplier associated wi 2=1 based on Equation 1 Iture when people look a	ith coefficient A_2. T 149-8). It can only ca at this figure.	his is mathematica ause confusions and	ally Id mis-
replac	e by: symbols					Suggested	dRemedy				
Proposed PROF	Response POSED ACCEPT.	Response Status W				In figu multip "A_2"	re 149-23, removilier with a straight with "A_2=1".	ve the multiplier next to A at line connecting to the o	A_2, and replace the output of that multipl	e arrowed line into the into the into the into the international sector in the international sector is a sector of the international secto	hat ie text
C/ 149	SC 149.3.9.2.	1 P1 21	L 52	# 257		 Proposed	Response	Response Status W	,		
den Beste	n, Gerrit	NXP Semicon	nductors			PROP	OSED ACCEPT				
Comment typo: s	<i>Type</i> E symbol	Comment Status D			EZ	C/ 149	SC 149.3.9.2	.13 <i>P</i> 125	L 38	# 59	
Suggested	dRemedy					Wienckow	ski, Natalie	General	Motors		
replac	e by: symbols					Comment	Type E	Comment Status D			EZ
Proposed	Response	Response Status W				poor v	vording				
PROF	OSED ACCEPT.					Suggested	Remedy				
C/ 149	SC 149.3.9.2.	1 <i>P</i> 122	L13	# 134		Chang To: is	ge: is required on required only wl	nly when the EEE is imp nen EEE is implemented	lemented. I.		
Grau. Olaf	:	Robert Bosch	GmbH			Proposed	Response	Response Status W	1		
Comment Bold C	<i>Type</i> E DAM Bitfield delim	Comment Status D	C		EZ	PROP	POSED ACCEPT				
Suggested Only E	<i>dRemedy</i> Bold delimiter for a	OAM Superframe field									
Proposed PROF	Response POSED ACCEPT.	Response Status W									

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

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C/ 149 SC 149.3.9.2.14	P 125 L	42	# 135		C/ 149	SC 149.3.9	9.3	P 128	L1	# 195
Grau, Olaf	Robert Bosch GmbH			OAM	Brandt, Da Comment	ivid Type F	Comme	Rockwell Aut	tomation	
Headline: BASE-T1 OAM Frame here ?	Acceptance Criteria: Whic	h Speedgrade	is mentioned	07 1101	Should	this refer to the BAS	he "State Varia SE-T1? Why d	ables to OAM Re o they need to a	egister Mapping ppear twice?	" that were edited in
here ? SuggestedRemedy MultiGBASE-T1 OAM Frame Acc Proposed Response Respon PROPOSED REJECT. The TF is using the same register 1000BASE-T1 and MultiGBASE- to BASE-T1 OAM and BASE-T1	ceptance Criteria ase Status W ars and definitions for the O T1. For this reason, Claus OAM is used here.	AM bytes that e 97 is being c	are common hanged to ref	with er	Clause Suggested Refer additio Proposed PROP P127 I Chang To: Ta mappi P128 I Delete Messa Delete Add 3 row 1, MultiG 3.2318 mr_tx_ row 2, MultiG 3.2319 mr_tx_ row 3, MultiG S.2319	e 97 to be BAS <i>Remedy</i> to the modified onal mappings <i>Response</i> OSED ACCEF L38 le: Table 149- able 97-6 and ¹ ng. L6 rows from "B/ age 7". rows (each ce before MultiGE BASE-T1 OAN BASE-T1 OAN	SE-T1? Why d d Clause 97 Ta for MultiGBAS <i>Respons</i> PT IN PRINCIF -9 describes th Table 149–9 c ASE-T1 OAM 18.7 through 3 dll in row is on BASE-T1 OAM d status Mess M status Mess M status Mess M status megist 64] ASE-T1 OAM d status megist 64] ASE-T1 OAM d status megist 38] ove: M status mess M status mess	o they need to ap able 97-6 for the SE-T1. <i>e Status</i> W PLE. he MDIO register describe the MDIO Message Valid" in 3.2318.0 and 3.22 a separate line d M status Message age 10 ter status Message age 12 ter	ppear twice? BASE-T1 mapp r to the state dia O register to the through "Link Pa 319.15 through lue to width rest e 9: 9:	agrams variable mapping. e state diagrams variable artner BASE-T1 OAM 3.23.19.0. riction of database

Pa **128** Li **1**

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C/ 149	SC 149.3.9.4.	6 P136	L 26	# 270	C/ 149	SC 149.4.2.1	P 139	L16	# <u>6</u> 0	
Tu, Mike <i>Comment</i>	Туре Т	Broadcom Comment Status D		OAM	Wienckow Comment	vski, Natalie <i>Type</i> E	General Motors Comment Status D			EZ
In Fig	ure 149-24, the O	AM receive state diagram, the	e entry condition	n into state	missp	elled word, sall ->	shall			
Suggestee See p	dRemedy age 4 of "tu_3ch_	05_0719.pdf".			Suggestee Chane To: T	<i>dRemedy</i> ge: The MultiGBA ˈhe MultiGBASE-T	SE-T1 PMA sall take no longe 1 PMA shall take no longer	er		
Proposed PROF	Response POSED ACCEPT.	Response Status W			Proposed PROF	Response POSED ACCEPT.	Response Status W			
C/ 149	SC 149.4.2.1	P139	L16	# 262	C/ 149	SC 149.4.2.2	P139	L 32	# 61	
den Beste Comment typo: s	n, Gerrit <i>Type</i> E sall	NXP Semicono Comment Status D	ductors	EZ	Wienckow <i>Comment</i> The c	/ski, Natalie <i>Type</i> T lock jitter requirem	General Motors Comment Status D nents are in 149.5.2.3, not 149	.5.2.2.		ΕZ
Suggestee Repla Proposed	dRemedy ce by: shall Response	Response Status W			Suggestee Chang To: w Make	dRemedy ge: while meeting /hile meeting the tr the same change	the transmit jitter requirement ransmit jitter requirements of 1 on line 36.	s of 149.5.2.2 49.5.2.3.	2.	
C/ 149	SC 149.4.2.1	P139	L16	# 172	Proposed PROF	Response POSED ACCEPT.	Response Status W			
Regev, Ale	on	Keysight Tech	nologies		C/ 149	SC 149.4.2.3	P139	L 48	# 26	
Comment shall"	<i>Type</i> TR ' is misspelled as	Comment Status D		EZ	Anslow, P	ete	Ciena			
Suggested chang	dRemedy le "sall" to "shall"	Despense Status W			Comment In "les be an Same	<i>Type</i> E ss than 2x10-10" th en-dash (Ctrl-q Sh issue in 149.11.4;	Comment Status D ne "x" should be a multiply sign hft-p). .3.3 item PMAR1	n (Ctrl-q 0) ar	nd the minus sign sh	E∠ nould
PROF	POSED ACCEPT.	Response Status w			Suggestee	dRemedy				
C/ 149	SC 149.4.2.1	P139	L16	# 108	In "les sign to Make	ss than 2x10-10" cl o an en-dash (Ctrl- the same changes	hange the "x" to a multiply sig -q Shft-p). s in 149.11.4.3.3 item PMAR1	n (Ctrl-q 0) ar	id change the minus	S
Lo, Williar <i>Comment</i> Typo	n <i>Type</i> ER	Axonne Inc. Comment Status D		EZ	Proposed PROF	Response POSED ACCEPT.	Response Status W			
Suggestee Chang	dRemedy ge "sall" to "shall"									
Proposed PROF	Response POSED ACCEPT.	Response Status W								

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

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C/ 149	SC 149.4.2	2.4.5	P 141	L 50	# 285	C/ 149	SC	6 149.4.2.5		P 142	L 25	#	<u>2</u> 86
- arjadrad,	Ramin		Aquantia			Farjad	ad, Rami	n	Ac	uantia			
Comment	Туре Т	Comment	t Status D		Vena	lor info Comm	ent Type	т	Comment Sta	tus D			Vendor inf
PHY betwee but cu	Capability Bits en the two link rrently 802.3ch	: PHY Vendors partners. Most does not provi	need to commu previous BASE- de it.	inicate vendor s T standards pro	pecific information ovided such capabi	lity, de Ve mo	HY Capab monstrate ndorSpectore efficient	bility Bits]: Ta the change tificMessage nct grouping	able 149-12 to be e proposed, mean e mode. Also, gro g	e replaced to ning to inclu pup all Rese	by two tables (14 ude a field to ide erved bits in Oct	49-12a & entify the ter8 and (149-12b) to Octer 9 for
Renla	n enneuy ce naragranh (n nage 141 lin	e 50 with the fol	lowing:		Sugge	stedReme	edy					
The fo Oct10 Oct10 T1 OA option Vendo vendo be res	rmat of PHY c <4:3> = Preco <7> = Vendors M capability e al capabilities orSpecificMess r specific data. erved and set <i>Response</i>	apability bits is deSel, Oct10<5 SpecificMessage nable, respectiv by setting the co age bit is set to Otherwise whe to 0. Response	Oct10<0> = OA > = SlowWakeR e. EEEen and O rely. The PHY sh orresponding ca 1 then the remain or VendorSpecif	Men, Oct10<2: Request, Oct10 AMen indicate hall indicate the pability bits. Wh aining 23 bits of icMessage=0, t	 InterleaverDep 6> = EEEen and EEE and MultiGBA sup-port of these t nen the the MSG24 field is ne remaining bits s 	oth, In Cł SE- Cł wo Cł cł cł hall In Cł Cł	Table 149ange Octange Octange Octange Octange Octange Octange OctTable 149ange Octange Octange Oct	9-12a (when er9<6> from er9<6> from er10<5> fro er10<6> fro er10<7> fro er10<7> fro er10<7> (when er8<7:0>, O er10<7> Ve	VendorSpecificM n SlowWakeRequ n SlowWakeRequ m Reserved to S m Reserved to E m Reserved to V vendorSpecificMo octer9<7:0>, Octe endorSpecificMos	Message=0; ues to Rese ues to Rese lowWakeR EEen endorSpec Message=1; er10<6:0> to ssage=1) erved equest ificMessage=0) o Vendor Specif	fic Data	
PROP	PROPOSED ACCEPT IN		_E.			Propos	ed Respo	onse	Response Stat	us W			
TFTD						PF	OPOSE	ACCEPT I	IN PRINCIPLE.				
The gr	oup needs to	decide if all add	itional bits shoul	ld be made ava	lable for this purpo	ose or Th	e specific	implementa	ation depends on	the decisio	on on comment	#285.	
If only	some of the re	emaining bits sh	iouid be used to	r this purpose.		C/ 149	SC	149.4.2.4.	5	P 142	L 45	#	2 <u>80</u>
						Souvig	nier, Tom		Br	oadcom			
						Comm	ent Type	TR	Comment Sta	tus D			Precode
						In in rol no	D2.0, the hese regionst to op se condit	"Precoder r ister bit valu tionally allov ions.	equested" bit val les and sends to w the PHY to cho	ues are cor the link par ose the pre	nfigured by user tner via InfoFiel coder on-the-fly	. The PH d. It may / based c	Y simply reads be more n channel and
						Suaae	stedReme	edv					
						Se	e page 5	of "tu_3ch_0	01_0719.pdf".				
						Propos PF	ed Respo OPOSEI	onse D ACCEPT I	Response Stat	us W			
						TF	TD after i	reviewing the	e presentation.				

Pa **142** Li **45**

P802.3	ch 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 149.4.2.4	7 P143	L 6	# <u>1</u> 09	C/ 149 SC 149.4.2.4.10 P144 L25 # 64	
Lo, William	Axonne Inc.			Wienckowski, Natalie General Motors	
<i>Comment Type</i> TR Typo in bit index	Comment Status D		Ε	Comment Type E Comment Status D repeated words	ΕZ
SuggestedRemedy Change "Oct8<1:0>, Oc Proposed Response PROPOSED ACCEPT.	ct9<1:0>, Oct10<7:0>" to "Oct8 Response Status W	<7:0>, Oct9	<7:0>, Oct10<7:0>"	SuggestedRemedy Change: PHY Control state diagram state diagram To: PHY Control state diagram Proposed Response Response Status W	
C/ 149 SC 149.4.2.4	8 <i>P</i> 143	L14	# 62		
Wienckowski, Natalie Comment Type E missing comma	General Motors Comment Status D		E	Wienckowski, Natalie General Motors <i>Comment Type</i> E <i>Comment Status</i> D Subject verb agreeement	EZ
Add comma after "After Proposed Response PROPOSED ACCEPT	wards" in: Afterwards Oct4 thr <i>Response Status</i> W IN PRINCIPLE.	ough Oct10		SuggestedRemedy Change: and the Link Monitor state machines begins monitoring To: and the Link Monitor state machine begins monitoring	
Change: "Afterwards Ou connected, which is set to: "After initialization, t	ct4 through Oct10 are used to ting CRCgen in Figure 149–30 he switch is set to CRCgen, as	compute the " shown in Fig	CRC16 with the switch gure 149-30, and Oct4	Proposed Response Response Status W PROPOSED ACCEPT.	
			# 00	Cl 149 SC 149.4.2.6 P145 L19 # 111	
C/ 149 SC 149.4.2.4.	8 P143	L15	# 63	Lo, William Axonne Inc.	
Comment Type E unnecessary article	Comment Status D		Ε	Comment Type E Comment Status D Inconsistent Sn subscript style. Lines 19, 20 does not subscript the n in Sn where everywhere else the n is in subscript.	ΕZ
Change: After all the 7 To: After all 7 octets	octets			SuggestedRemedy Subscript the n in Sn in lines 19 and 20	
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.	

Pa **145** Li **19**

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

C/ 149	SC 149.4.2.6	P145	L 20	# <u>1</u> 10		C/ 149	SC 149.4.3.1	P149	L 27	# 66	
Lo, William <i>Comment</i> Missin	n <i>Type</i> TR g subscript	Axonne Inc. Comment Status D			EZ	Wienckows <i>Comment</i> It appe	ski, Natalie <i>Type</i> E ears that in hT(t), '	General Motors <i>Comment Status</i> D "h" and "(t)" are superscripts ar	nd "T" is a	subscript.	ΕZ
Suggested Chang	Remedy le S[7:0] to Sn[7:0 pat the n in Sn sh)] ould be subscripted				Suggested Chang	Remedy e "h" and "(t)" to r	normal with "T" as a subscript.			
Proposed PROP	Response OSED ACCEPT.	Response Status W				Proposed PROP	Response OSED ACCEPT.	Response Status W			
C/ 149	SC 149.4.2.8	P149	L11	# 263		C/ 149	SC 149.4.4.1	P150	L 32	# 68	
den Bester Comment RS FE Suggested	n, Gerrit <i>Type</i> E R is called RFER <i>IRemedy</i>	NXP Semicon Comment Status D at other places in the spec	ductors		EZ	Wienckows Comment Missin Suggested	ski, Natalie <i>Type</i> E g return <i>Remedy</i>	General Motors Comment Status D			EZ
Replac	ce RS FER by RF	ER				Proposed	Response	Response Status W			
Proposed PROP	Response OSED ACCEPT.	Response Status W				PROP	OSED ACCEPT.	Response Status W			
C/ 149	SC 149.1.3	P149	L 27	# 92		C/ 149	SC 149.4.4.1	P150	L 38	# 69	
D'Ambrosia Comment The na in Fig 4 1 (PDF	a, John <i>Type</i> E aming of the PCS 44-1 (PDF Page 2 5 Poe 66 J ine 14	Futurewei, U.S Comment Status D block in Fig 149-1 is inconsi 28, Line 37), which includes ') which also includes the "64	5. Subsidiary of stent with the n '64B/65B", and B/65B" text	Huawei aming of the PCS I PCS Blocks in Fig	<i>EZ</i> block 125-	Wienckows Comment Missin Suggested Move '	ski, Natalie <i>Type</i> E g return <i>Remedy</i>	General Motors Comment Status D			EZ
Suggested	<i>Remedy</i> the naming of the	he PCS block in Fig 1491 to	o read "64B/65	3 RS-FEC PCS"		Proposed I	Response	Response Status W			
Proposed		Response Status W				C/ 149	SC 149.4.4.1	P150	L 43	# 27	
						Anslow, Pe <i>Comment</i> "pcs_d	ete <i>Type</i> E lata_mode" shoul	Ciena <i>Comment Status</i> D d not be split across two lines			EZ
						Suggested Prever (Click s	<i>Remedy</i> nt "pcs_data_moc somewhere withir	le" from being split across lines n "pcs_data_mode" and type Es	s. sc n s)		
						Proposed PROP	Response OSED ACCEPT.	Response Status W			
TYPE: TR/ COMMEN [®] SORT ORI	'technical required T STATUS: D/disp DER: Page, Line	d ER/editorial required GR/g patched A/accepted R/reject	general required ted RESPO	I T/technical E/ed	litorial G/g pen W/wr	jeneral itten C/closed	U/unsatisfied Z	<i>Pa</i> 150 /withdrawn <i>Li</i> 43		Page 43 of 7/12/2019	61 4:00:48 Pl

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C/ 149	SC 149.4.4.1	P150	L 44	# 160		C/ 149	SC 1	49.4.4.2	P151	L 41	#	113
Law, David	4	Hewlett Packard	Enterprise			Lo. William	า	-	Axonne Inc.			
Comment	- Type E	Comment Status D			EZ	Comment	Type	TR	Comment Status D			E.
Typo, 802.3 Suggested	PCSDATAMODE subclause 1.2.2.1 Remedy	E.indicate' should read 'PCSDA' I 'Classification of service primit	TAMODE.ind tives'.	lication', see IEEE	Std	The m remov Side n Synch	axwait ti ed. ote: the ronizatio	imer was r maxwait_ on state di	removed in previous drafts bu timer functionality is actually i agrams so it is redundant here	t all referenc n the autone e.	e to this wa g and Link	as not cleanly
- See co	-	_				Suggested	Remedy	V				
Proposed PROP	Response POSED ACCEPT.	Response Status W				Page ⁻ Page ⁻ Page -	151 line 144 line 144 line	45 - Delet 21 - Delet 24 to 27	e maxwait_timer paragraph e ", until maxwait_timer expire - Delete paragraph	es"		
C/ 149	SC 149.4.4.1	P151	L 7	# 112		Page	153 line	13 - Delet	e INIT_MAXWAIT_TIMER sta	ate, delete U	CT arrow a	and reconnect
Lo, William	n	Axonne Inc.				arrow Page	from DIS 153 line	SABLE_TI 51 - Delet	RANSMITTER to SILENT e "stop maxwait_timer" in box	<pre></pre>		
Comment	Type TR	Comment Status D			ΕZ	Page	182 line	35 - Delet	e maxwait_timer row	·		
The water There	The watchdog function is removed from the state diagrams. There is no longer a need for the watchdog variable.					Proposed	Respon	Se	Response Status W			
Suggested	Remedy						USLD /	ACCELL 1.				
Remo	ve the entire para	graph on PMA_watchdog_statu	IS			C/ 149	SC 1	49.4.5	P 154	L 12	#	281
Proposed	Response	Response Status W				Souvignier	, Tom		Broadcom			
PROP	OSED ACCEPT.					Comment	Туре	TR	Comment Status D			State Diagram
C/ 149	SC 149.4.4.1	P 151	L 25	# 67		There unnec branct	is a corr essary c conditi	ner case ir lelays in th on from th	n the Link Monitor state diagra ne startup process. This can b e LINK, DOWN state into the	am (Figure 14 be fixed by a	49-34) that simple cha ate	may cause ange in the
Wienckow	ski, Natalie	General Motors				Suggester	IRemedi	v				
Comment Missin	<i>l ype</i> E ng return	Comment Status D			ΕZ	See pa	age 4 of	r "tu_3ch_(02_0719.pdf".			
Suggested Move	<i>lRemedy</i> "OK:…" to be on t	the line after "Values:				Proposed PROP	Respon: OSED /	se \CCEPT I	Response Status W N PRINCIPLE.			
Proposed PROP	Response POSED ACCEPT.	Response Status W				TFTD The gr This w differe	oup nee as discunt nt corne	eds to revie ussed at th er case.	ew the presentation and decid the June 26th Ad hoc and there	le if they war e was concei	nt to allow f rn it could (this or not. create a

Pa **154** Li **12**

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

C/ 149	SC 149.5.1	P155	L 38	# 70		C/ 149	SC 149.5.1	P 155	L 40	# 39			
Wienckow	ski, Natalie	General Motors				Farjadrad,	Ramin	Aquantia					
Comment	Туре Е	Comment Status D			<i>EZ</i> 2	Comment	Туре Т	Comment Status D		Test Modes			
Add no	on-breaking space	e in the number per the IEEE-SA	Style Manual.			[JITTE	R TEST MODE]	The description of test mode	2 needs to be	expanded to allow the			
Suggested	lRemedy					multiple test patterns.							
Chang	je: 175.78125 MH	·Ιz.				Comm	ents tagged JIT	TER TEST MODE should be t	reated as a gro	oup.			
To: 1	75.781 25 MHz.					Suggested	Remedy						
Proposed PROP	Response OSED REJECT.	Response Status W				Chang	e the fourth para	agraph of 149.5.1. to read:					
The cu	urrent format is co	rrect per 802.3 style for number	s.			Test m mode. 1.2313 clock s	node 2 is for tran When test mode 8.1:0, as shown in source	smitter jitter testing on MDI wh e 2 is enabled, the PHY shall t n Table 149-15a, with the tran	nen transmitter ransmit the pa smitted symbo	is in MASTER timing ttern controlled by bits ls timed from its local			
						Insert [*]	Table 149-15a J	itter test modes after (new) for	urth paragraph	of 149.5.1 as follows:			
						Table Bit 1 2	149-15a Jitter te 313 1 Bit 1 23	st modes					
						0 symbo	0	Square wave: a	continuous pat	tern of 16*S {+1}			
						0	1	JP03A: a continu	uous pattern of	JP03A (as specified in			
						1	2)	JP03B: a continu	uous pattern of	JP03B (as specified in			
						1	1	Reserved					
						Proposed I	Response	Response Status W					
						PROP	OSED ACCEPT	IN PRINCIPLE.					
						Comm transm	ents 39, 40, 41, hitter linearity and	116, 117, 119, 120, 121, and d jitter test modes.	200 all change	the text related to the			

Modify the text as defined in wienckowski_3ch_02b_0719.pdf.

Pa **155** Li **40**

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

C/ 149	SC 149.5.1	P155	L 41	# 116
Dudek, Mi	ke	Marvell		
Comment	Туре Т	Comment Status D		Test Modes

Further work on PAM4 systems after Claue 94 was completed decided that the JP03A and JP03B signals were too un-representative of normal traffic. Instead the PRBS13Q pattern is used for jitter testing. The dual dirac jitter specification methodology has also been replaced by a more direct measure of jitter at the probability relevant to the clause. (Called J?U where ? is the probability of interest) and the Jrms value. The test methodology is defined in Clause 120D.3.1.8.1

SuggestedRemedy

Replace the reference to JP03A and JP03B with a reference to PRBS13Q described in subclause 120.5.11.2.1 and change the references in 149.5.2.3.2 as well.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Comments 39, 40, 41, 116, 117, 119, 120, 121, and 200 all change the text related to the transmitter linearity and jitter test modes.

Modify the text as defined in wienckowski_3ch_02b_0719.pdf.

C/ 149	SC 149.5.1	P155	L 41	# 200
Dawe, Piers		Mellanox		
Comment Tv	vpe TR	Comment Status D		Test Modes

It's disappointing to see these very artificial test patterns from Clause 94 being brought back when we have moved on to better methods for PAM4 testing in Annex 120D and subsequent clauses such as 136.

SuggestedRemedy

Define jitter and linearity with PRBS13Q, following 120D.3.1.8 Output jitter and 120D.3.1.2 Transmitter linearity. Make JP03A and JP03B optional.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Comments 39, 40, 41, 116, 117, 119, 120, 121, and 200 all change the text related to the transmitter linearity and jitter test modes.

Modify the text as defined in wienckowski_3ch_02b_0719.pdf.

C/ 149	SC 149.5.1	P155	L 44	# <u>2</u> 89
Tu, Mike		Broadcom		
Comment T	vpe T	Comment Status D		Test Modes

In test mode 3, the PCS generates continuous pattern of $\{0,3\}$ symbols into the precoder. The precoder output is then mapped into PAM4. This paragraph should be rephrased to make it clear. The proposed change is based on discussions with George.

SuggestedRemedy

Change this paragraph to:

"Test mode 3 is for testing the precoder operation. When test mode 3 is enabled, the PCS shall generate a continuous pattern of {0, 3} symbols to be input to the transmit precoder specified in 149.3.2.2.19, to be precoded according to the Transmit precoder settings as determined by the value set in register 1.2309:10:9, or equivalent functionality if MDIO is not implemented, and transmitted by the PMA timed from its local clock source."

Proposed Response	Response Status	W
PROPOSED ACCEPT.		

C/ 149	SC 149.5.1	P155	L 46	#	264
den Besten,	Gerrit	NXP Semicon	ductors		
Comment Ty	rpe T	Comment Status D			Test Modes

"continues pattern of {-1,+1} symbols" The meaning of the word 'continuous' is not very clear. Is this refering to toggling pattern or something else?

SuggestedRemedy

If this is about a toggline pattern, say toggling instead of continuous. If otherwise, specify more specifically what was meant.

Proposed Response Response Status W

PROPOSED REJECT.

The current language is consistent with IEEE802.3 usage.

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: Page, Line

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

C/ 149	SC 149.5.1	P155	L 50	# 120	
Sedarat, Hos	ssein	Ethernovia			
Comment Ty	/pe T	Comment Status D		Test Modes	;

The transmit linearity test, as defined in 149.5.2.2, requires 2 test patterns: a low frequency short pattern to measure the accuracy of the PAM4 levels, and a high-frequency and long PRBS pattern to measure the transmit SNDR. Test mode 4 does not provide a provision to transmit 2 test patterns. Since the nonlinearity of the transmitter can be measured with respect to the ideal PAM4 levels, the short test pattern may not offer additional value. Also, the long high-frequency pattern of QPRBS13, as defined in 94.2.12.7, is constructed in a peculiar way which may be more fitting for a 100G-KP4 transmitter. A simple PRBS13 as the test pattern is as effective, more efficient to implement and less prone to misinterpretation of the specifications in another standard.

SuggestedRemedy

Replace "... transmit linearity test pattern defined in 94.29.4" with "... PRBS13 test pattern as defined in equation 94-3 and figure 94-6". And in subclause 149.5.2.2, add the following to the end of first sentence: "using ideal PAM4 level of 1/3 for effective symobl levels of ES1 and ES2."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Comments 39, 40, 41, 116, 117, 119, 120, 121, and 200 all change the text related to the transmitter linearity and jitter test modes.

Modify the text as defined in wienckowski_3ch_02b_0719.pdf.

C/ 149	SC 149.5.1	P155	L 5 1	# 117
Dudek, Mike		Marvell		
Comment Ty	pe T	Comment Status D		Test Modes

Further work on PAM4 systems after Claue 94 was completed decided that the transmitter linearity test pattern is too un-representative of normal traffic. Instead the PRBS13Q pattern is used for linearity testing. TThe test methodology is defined in Clause 120D.3.1.2

SuggestedRemedy

Replace the reference to the transmitter linearity test pattern with a reference to PRBS13Q described in sub-clause 120.5.11.2.1

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Comments 39, 40, 41, 116, 117, 119, 120, 121, and 200 all change the text related to the transmitter linearity and jitter test modes.

Modify the text as defined in wienckowski_3ch_02b_0719.pdf.

C/ 149	SC 149.5.1.1	P156	L19	# 20	08
Dawe, Piers		Mellanox			
Comment Tv	be TR	Comment Status D			Test Modes

"1.2.6 Accuracy and resolution of numerical quantities

Unless otherwise stated, numerical limits in this standard are to be taken as exact, with the number of significant digits and trailing zeros having no significance." Stating otherwise makes life more complicated, and an attempt to enforce test equipment spec is out of scope. Implementers and testers can sort out their measurement accuracy for themselves.

SuggestedRemedy

Delete "The tolerance of resistors shall be +/- 0.1%."

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

P156 L19

Delete: The tolerance of resistors shall be +/- 0.1%.

P157 L35

Add to end of current paragraph: Transmitter electrical tests are specified with a load tolerance of $\pm 0.1\%$.

C/ 149	SC 149.5.1.1	P1	56	L19	#	201
Dawe, Piers		Mellar	nox			
Comment Ty Not a tes	pe TR st spec	Comment Status	D			Test Modes
SuggestedRo Change	<i>emedy</i> "shall be used" to	o "are defined for"				
Proposed Re	esponse	Response Status	w			

PROPOSED REJECT.

This text is used by many other 802.3 Clauses

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: Page, Line

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

121 <i>Test Modes</i> significant contributor to operating margin and ion as specified in e greater than 38 dB"
Test Modes significant contributor to operating margin and ion as specified in e greater than 38 dB"
Test Modes significant contributor to operating margin and ion as specified in e greater than 38 dB"
significant contributor to operating margin and ion as specified in e greater than 38 dB"
ion as specified in e greater than 38 dB"
ion as specified in e greater than 38 dB"
-
the text related to the
119
Test Modes
oved the methodology 120D.3.1.6. Note also BS13 which was not
the text related to the

Pa **157** Li **46**

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

C/ 149	SC 149.5.2.3.	1 <i>P</i> 158	L16	# 40	C/ 149	SC 149.5.2	2.3.2	P158	L 26	# 41	
Fariadra	d. Ramin	Aquantia		4	Fariadrad	Ramin		Aquantia		L <u>a</u>	
Commer	t Type T	Comment Status D		Test Mo	s Comment	Туре Т	Comment S	tatus D		Test Mod	
[JITT there	ER TEST MODE]	Random jitter test description atterns available.	n needs to be r	nodified to reflect that	[JITT] that th	ER TEST MOD	DE] Deterministic ji le test patterns ava	tter test desc ailable.	ription needs to	be modified to reflect	
Com	ments tagged JITT	ER TEST MODE should be	treated as a gro	oup.	Comr	nents tagged J	ITTER TEST MOD	DE should be	treated as a gro	up.	
Suggeste	edRemedy				Suggeste	dRemedy					
Char clock Figu	nge first sentence o k, MDI jitter is meas re 149-38.	f 149.5.2.3.1 From: In additi ured when in test mode 2 ar	on to jitter mea nd using test fix	surement for transmit ture 3 as shown in	Chan perfo	ge first sentenc med with the tr	ce of 149.5.2.3.2 fr ransmitter enabled	rom: "Jitter m I in Master tir	easurements in ning mode with a	this subclause are a local clock."	
To: mod	In addition to jitter r e 2 with the square	neasurement for transmit clo wave pattern (see Table 14	ock, MDI jitter is 9-15a) and usir	s measured when in te ig test fixture 3 as show	To: "J Maste a loca	itter measurem r timing mode I clock."	nents in this subcla in test mode 2, wi	ause are perf th either the .	ormed with the t JP03A or JP03B	ransmitter enabled in pattern, and timed wit	
in Fiç	gure 149–38.				Proposed	Response	Response St	tatus W			
Proposed	d Response	Response Status W			PROF	OSED ACCER	PT IN PRINCIPLE				
PRO	POSED ACCEPT I	N PRINCIPLE.			Comr	anto 20, 40, 4	4 446 447 440	100 101 00	d 200 all abanga	the taxt related to the	
Com trans	ments 39, 40, 41, 1 mitter linearity and	16, 117, 119, 120, 121, and jitter test modes.	200 all change	the text related to the	transr	nitter linearity a	and jitter test mode	120, 121, and es.	a 200 all change	the text related to the	
		, ,, , , , , , , , , , , , , , , , , ,			Modif	/ the text as de	efined in wienckow	ski_3ch_02b	_0719.pdf.		
Modi	ty the text as define	ed in wienckowski_3ch_02b_	_0719.pdf.		C/ 149	SC 149.5.2	2.3.2	P 158	L 29	# 28	
					Anslow, P	ete	(Ciena		-	
					Comment	Type E	Comment S	tatus D			
					"as sr shoul On lir	"as specified in Clause 94.3.12.6.1" should be "as specified in 94.3.12.6.1" and the final "1" should be in forest green font. On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2"					
					Suggeste	dRemedy					
			Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the character tag External to the final "1". On line 35 change "as specified in Clause 94.3.12.6.2" to "as specified in 94.3.12.6.2" .								
					Proposed	Response	Response Si	tatus W			

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P802.3	3ch D2.0	Layer Specifications	and Man	agement Para	meters fo	or Greater T	han 1 Gb/s Au	utomotive Ethernet Initial	W		
C/ 149	SC 149.5.2.3.	2 P158	L 29	# 71		C/ 149	SC 149.5.2.4	P158	L 42	#	<u>7</u> 3
Wiencko <i>Commer</i> The	wski, Natalie <i>ht Type E</i> word "Clause" does	General Motors <i>Comment Status</i> D n't belong before a subclause r	eference.		EZ	Wienckow <i>Comment</i> unnec	ski, Natalie <i>Type E</i> essary article	General Motors Comment Status D			EZ
Suggeste Char refer	edRemedy nge: Clause 94.3.12 ence".	2.6.1 to 94.3.12.6.1. Also, "1" s	hould be ma	de part of the "Ext	ternal	<i>Suggested</i> Chang To: us	dRemedy ge: using the test t sing test fixture 4	fixture 4			
Proposed PRO	d Response POSED ACCEPT.	Response Status W				Proposed PROP	Response POSED ACCEPT.	Response Status W			
C/ 149	SC 149.5.2.3.	2 P158	L 35	# 72		C/ 149	SC 149.5.3.1	P160	L11	#	186
Wiencko	wski, Natalie	General Motors				Brandt, Da	avid	Rockwell Autom	ation		
Commer	Comment Type E Comment Status D EZ		ΕZ	Comment	Туре Т	Comment Status D			Test Modes		
The Suggeste	word "Clause" does edRemedy	n't belong before a subclause r	eference.			l don't addres not ad	see where the frasses and FCS, I g d any MAC farme	ame error ratio comes from. If I et FER = 1e-12 * (800 + 22) * 8 e overhead.	assume thi 8 = 6.6e-9.	is is actual M I note that 14	AC data with 49.5.3.2 does
Char	nge: Clause 94.3.12	2.6.2 to 94.3.12.6.2.				Suggested	Remedy				
Propose	d Response	Response Status W				Please	e check the math	or describe better.			
PRC	POSED ACCEPT.					Proposed	Response	Response Status W			
C/ 149	SC 149.5.2.4	P 158	L 41	# 265		PROP	OSED REJECT.				
den Best Commen The conc	en, Gerrit <i>ht Type</i> T transmit power rang erns on the lower lin	NXP Semiconduc Comment Status D ge was shifted from -1dB/+2dB mit for 10Gbps operation. Howe	ctors to -1.5dB/+1 ever this shif	.5dB based on t makes the upper	PSD	The co the sp the co chang	omment description ecific changes read mment does not a es requested by t	on does not contain sufficient d quested by the commenter. In a contain sufficient detail so that he commenter.	etail so that addition, the the TF can	t the TF can e suggested understand	understand remedy in the specific
unne	essarilly more critica	I for lower speed operation.				C/ 149	SC 149.5.3.2	P160	L17	#	74
Suggeste	edRemedy					Wienckow	ski. Natalie	General Motors			

Change the upper limit back to +2dB.

Proposed Response Response Status W PROPOSED REJECT.

This was discussed at the April meeting. Based on the Tx power calculations shown on slide 8 of Tu_3ch_03_0419.pdf, -1.5 dB to +1.5 dB was selected by the task force.

See P802.3 D1p2 comment #59 resolution.

Comment Type E Comment Status D Missing Oxford comma. SuggestedRemedy

ΕZ

ΕZ

Change: Gaussian distribution, bandwidths and magnitudes To: Gaussian distribution, bandwidths, and magnitudes

Proposed Response Response Status W PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/genera	l required T/technical E/editorial G/general	Pa 160	Page 50 of 61
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 17	7/12/2019 4:00:49 PM
SORT ORDER: Page, Line			

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

C/ 149	SC 149.5.3.2	P160	L 20	# 187	C/ 149	SC	149.8.2.1	P163	L 23	# <u>2</u> 48
Brandt, Da	vid	Rockwell Auto	mation		den Beste	n, Gerri	t	NXP Semicon	ductors	
Comment	Туре Т	Comment Status D		Test Modes	Comment	Туре	т	Comment Status D		MD
149.5.	3.1 seem inconsi	stenmt. 149.5.3.1 has "frame	error ratio", bu	t wouldn't these frames	The M	1DI curv	e is disco	ntinous at 500MHz: 20dB ver	sus 19.78dB.	
crossi	ng XGMII also be	counted as 149.5.3.2 "frame	loss ratio" whe	n they get to the MAC?	Suaaeste	dRemeo	lv			
specifi	ed in 149.7.	ner correction after RS-FEC.	Both use the s	ame link segment	Implic	itly fixed	d by propo	osal to relax MDI return loss a	a bit. See next i	tem.
Suggester	Remedy				Proposed	Resnor	ise	Response Status W		
Consid	ler whether the s	ame terminology, nacket size	s and measure	ment points can be	PROF		REJECT			
used.						0020				
Proposed	Response	Response Status W			There	is no re	quiremer	t for the MDI return loss to be	e continuous.	
PROP	OSED ACCEPT	IN PRINCIPLE.			C/ 149	SC	149.7.1.4	P164	L 32	# 244
TFTD					Zimmerma	an, Geo	rge	ADI, APL Gp,	Aquantia, BMV	N, Cisco, Commscope, S
					Comment	Туре	т	Comment Status D		Ež
Cl 149	SC 149.8.2.1	dded; or packets, data with R P163 NXP Semicond	L20	# 249	"The o seem attenu spec, norma	coupling s contra uation. I with the ative)	attenuati dictory - it believe w paramete	on is tested Additional coup t implies that the annex conta e are requiring that the cable ers specified in Annex 149A.	oling attenuatio ains other ways pass testing a (or else Annex	in test methodologies" to test the coupling ccording to the IEC 149A can't be
Comment	Type TR	Comment Status D		MDI	Sugaeste	dRemea	lv			
The M return therefo loss an propos	DI return loss at loss which gets t ore doesn't worse and MDI return los se to relax the MI	high frequency is tighter than wice attenuated by insertion len the RL/IL ratio. I think the c s are not well balanced for a l DI return loss.	necessary IMC oss. This return urrently specific ow relative cos	9. The MDI is far-end I loss component ed link segment return t. I would like to	Chang link se the cc attenu as sp	ge "In or egment soupling a uation is ecified ir	der to lim shall mee attenuation tested n IEC 621	it the noise at the receiver as t n values determined by using 53-4-7 using triaxial tube in tu	well as emissi Equation (149) ube method. Ad	ions, the MultiGBASE-T1)–24). The coupling dditional coupling
Suggested	lRemedy				attenu	ation te	st method	dologies		
Formu Formu	la 12-10log(f/300 la 12-20*log(f/30	0) change into 10-10*log(f/30 00) change into 10-20*log(f/30	00S) for 300S< 000S) for 3000	f<3000S S <f<fmax< td=""><td>to: "In IEC 6</td><td>order to 2153-4-</td><td>b limit the 7 triaxial t</td><td>noise at the receiver as well ube in tube method as specif</td><td>as emissions, ied in Annex 14</td><td>when tested using the 49A, the MultiGBASE-T1</td></f<fmax<>	to: "In IEC 6	order to 2153-4-	b limit the 7 triaxial t	noise at the receiver as well ube in tube method as specif	as emissions, ied in Annex 14	when tested using the 49A, the MultiGBASE-T1
Proposed	Response	Response Status W			link segment shall meet the coupling attenuation values determined by using Equation					
PROP	OSED ACCEPT	IN PRINCIPLE.			(149–	24)."				
-		,			Proposed	Respon	ise	Response Status W		
I his re comm	equirement at the ent 269.	upper frequency is relaxed b	y the new form	ulas proposed by	PROF	POSED	ACCEPT.			

Pa **164** Li **32**

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

C/ 149	SC 149.8.2.1	P 168	L1	# 268		C/ 149	SC 149.8.2	2.1	P 168	L 2	# 247	
Stewart, He	eath	Analog Device	S			den Beste	n, Gerrit		NXP Semico	onductors		
Comment	Type TR	Comment Status D			MDI	Comment	Type TR	Comme	nt Status D			MDI
Transn total). I value.	nitter droop was s Need to revise the Otherwise either	specified considering a 2uH ir e low frequency MDI return lo specification undermines the	nductance per ss mask to be relavance of t	transmitter output in agreement with he other.	(4uH this	There differe Other scaling	is currently on ntiate requirem wise these lowe g all frequency	ly one MDI re nents for differ er speeds will values by S e	turn loss templat rent speeds to all be overspecified except for the 1M	e for all speeds. low looser spec J. The easiest w IHz lower bound	. I think we should for 2.5Gbps and f vay to achieve this d.	5Gbps. is by
See "st	tewart 3ch 01 0	719" Slide 13 and 16				Suggested	Remedy					
Proposed I PROP	Response OSED ACCEPT	Response Status W IN PRINCIPLE.				Chang 10> 500: 3000 -	ge: 10S > 500S > 3000S					
TFTD a	after reviewing th	e presentation.				4000 -	-> Fmax					
C/ 149 Stewart, He	SC 149.8.2.1 eath	P 168 Analog Device	L 1 s	# 269		Remo For 2.3 the MI	ve: 5GBASE-T1, 5 DLreturn loss is	GBASE-T1, a	and 10GBASE-T ²	1, the maximum	ı applicable freque	ency for
Comment T High fr couplin PHY, a frequer	Type TR equency Return I ng inductors and I allowance needs ncy mask to acco	Comment Status D Loss was presented consider MDI connectors. However, to to be made for ESD clamping pmodate for additional capacil	ing the best pe provide additi devices. Nee ive loading du	erformance of powe onal protection to th d to revise the high le to these devices.	MDI er ne	Proposed PROP Do no	Response POSED ACCEF t scale the lowe	Respons PT IN PRINCI est frequency	e Status W PLE. as this is related	to PoDL. We	don't want to mak [,]	e this
Suggested	Remedy		-			more	restrictive with	lower PHY sp	eeed.			
See "s	tewart_3ch_01_0	719" Slide 15 and 16				Chang	je:					
Proposed I PROP	Response OSED ACCEPT I	Response Status WIIN PRINCIPLE.				500: 3000 - 4000 -	> 500S > 3000S > Fmax					
TFTD a	after reviewing th	e presentation.				Remo	ve:					
C/ 149	SC 149.8.2.1	P168	L 2	# 290		For 2.8 the MI	5GBASE-T1, 5 DI return loss is	GBASE-T1, a s 4000 × S MI	and 10GBASE-T′ Hz.	1, the maximum	applicable freque	ency for
Tu, Mike		Broadcom										
Comment The MI	<i>Type</i> T DI return loss spe	Comment Status D ecification as shown in Equati	on 149-27 is ι	innecessarily restrie	MDI ctive.							
Suggested See the	<i>Remedy</i> e proposal on the	e last page of "vakilian_3ch_0	1_0719.pdf".									
Proposed I PROP	Response OSED REJECT.	Response Status W										
The ret	ferenced present	ation has not been provided.										

Pa **168** Li **2**

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

Brandt, David Rodewell Automation EMC Comment Type Comment Status D EMC Suggestell/Branedy Suggestell/Branedy EMC The PICS product matables in 149,114.41 do not have the appropriate entries in the Suggestell/Branedy EMC Suggestell/Branedy Suggestell/Branedy EMC EMC EMC EMC Change Arc: "Name Type To Comment Status D Cemment Type To Comment Status D EMC EMC Change Arc: "Namily to entite products to be tested" Deducts to be tested" Deducts to be tested" Deducts To be support of the Annex 149A PROPOSED REJECT. The devices are required to meet applicable laws. This is a shall in other Clauses. FMC FMC Status devices the Support entry to Yes [] No [] * "O' change the Support entry to Yes [] No [] * Cl 149 SC 148,113 P172 L6 # 20 FMC "And TEEE" appearing the Status Column in 149,114.11, so they should be "AN" and "EEE" appearing the Status Status W PROPOSED ACCEPT. Cl 149 SC 148,112.1 P173 L5 # 139 "Suggestell/Branedy Change Arx: "And "EEE" appearing the Status Column in 149,114.11, so they should be "AN" and "EEE" appearing the Status Column in 149,114.11, so they should be "AN" and "EEE" appearing the Status Status M	C/ 149	SC 149.9.2.2	P 169	L 41	#	188	C/ 149	SC 149.11.4	4.1 P172	L 28	# 30	
Comment Type T Comment Status D EMC This paragraph has 2 shalls that apply to entitive products. The seems out of our scope. Suggest the "shalls" be replaced with text in the spint of the last sentence of the paragraph. Comment Type T	Brandt, Da	vid	Rockwell Autor	nation			Anslow, P	ete	Ciena			
This paragraph has 2 shalls that apply to entire products. The seems out of our scope. Suggested/Remedy Suggest the 'shalls' the replaced with the paint of the last sentence of the paragraph. Change 2nd: 'shall be treated', To: 'is expected to allow products to be tested' Deletes ES4 and ES5. Proposed Response Response Status W PROPOSED REJECT. The devices are required to meet applicable laws. This is a shall in other Clauses. The CISPR 25 test methods are required. It is the specific setup and limit lines that are user specific. In the test methods. CI 149 SC 1431.13 P172 L6 # 20 And/ow, Pate Clana Comment Type E Comment Status D Canneed Type E Comment Status D Canneed Type E Comment Status D PROPOSED ACCEPT. CI 149 SC 143.11.3.1.5.4.1.5.5.4.1.5.9 PROPOSED ACCEPT. CI 149 SC 143.11.4.2.1 P173 L5 # 159 Donahue, Curtis UNH+IOL Circle: appear in the Status column in 149.11.4.1.5.5.4.1.59 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P173 L5 # 159 Donahue, Curtis UNH+IOL Circle: appear in the Status column in 149.11.4.1.5.5 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P173 L5 # 159 Donahue, Curtis UNH+IOL Circle: appear in the Status column in 149.11.4.1.5.5 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P173 L5 # 159 Donahue, Curtis UNH+IOL Circle: appear in the Status column in 149.11.4.1.5.5 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 139 Donahue, Curtis UNH+IOL Circle: appear in the Status column in 149.11.4.1.5.5 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 139 Donahue, Curtis UNH+IOL Circle: appear in the Status column in 149.11.4.1.5 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 139 Donahue, Curtis UNH+IOL Circle: appear in the Status column in 149.11.4.1.5 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 131 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 131 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 131 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 131 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 131 PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 131 PROPOSED ACCEPT. CI 149 SC 149.11.4.	Comment	Туре Т	Comment Status D			EMC	Comment	Туре Т	Comment Status D			EZ
Suggested/Remedy Suggested/Remedy Change 2nd: "Single testers", To "is expected to allow products to be tested" Define: E54 and E55. Proposed Response Status W Proposed Response Status SU C1149 SC 149.11.3 P172 L6 C1149 SC 149.11.3. P172 L6 Suggested/Remedy Camment Type E Camment Type C Camment Type E Camment Type E Camment Type Response Status W PROPOSED ACCEPT. C149 SC 149.11.4.1, so they should be "AN" and "EEE" Proposed Response Status W PROPOSED ACCEPT. C149 SC 149.11.4.2.1 P173 L5 # [199] Champe 'A'N and "EEE" to "AN" and "EEE" Proposed Response Status W PROPOSED ACCEPT. C149 SC 149.11.4.2.1 P173 L5 # [199] Champe 'A'N and "EEE" to "AN" and "EEE" Proposed Response Status W PROPOSED ACCEPT. Proposed Response Status W PROPOSED ACCEPT. C149 SC 149.11.4.2.1 P174 L3 [3] Rougested/Remedy Statil statement missing associated PICS net	This p	aragraph has 2 sh	alls that apply to entire produ	ucts. The see	ms out of ou	r scope.	The P	ICS proforma ta	ables in 149.11.4.1 do not	t have the appropr	ate entries in the	
Suggest the 'shalls' be replaced with text in the spirit of the last sentence of the paragraph. Chanage 2nd: 'shall be tested', To: 'is expected be able to' Suggest desponse Response Status W PROPOSED REJECT. The cispergist is a shall in other clauses. The CisPE Steam endows are required. It is the specific setup and limit lines that are user specific, not the test methods. If 49 SC 149.11.3 P172 L6 Image 2nd: 'shall be specific setup and limit lines that are user specific, not the test methods. C/I 149 SC 149.11.3 P172 L6 Image 2nd: 'shall be specific setup and limit lines that are user specific, not the test methods. PICS Comment Type Image The Support entry to 'Yes [] No [] NA []' SuggestedRemody Comment Type Image The Status column in 149.11.4.1, so they should be "AN" and "EEE" appear in the Status column in 149.11.4.1, so they should be "AN" and "EEE" appear in the Status column in 149.11.4.1, so they should be "AN" and "EEE" (proceed Response Status W PROPOSED ACCEPT. Cl 149 SC 149.11.4.1 P173 L5 # 139 SuggestedRemody Change 'AN" and 'EEE' Comment Type Image Comment Type Im	Suggested	Remedy					Supp Same	issue in everv o	other subclause of the Cla	ause 149 PICS an	d also the Annex 149	9A
Change 2nd: 'shall', To: 'is expected to allow products to be tested' Defect: ES4 and ES5. PROPOSED RELECT. The devices are required. It is the specific setup and limit lines that are user specific, not the test methods. Cf 149 SC 149.11.3 P172 L6 # 29 Ansiow, Pete Ciena Comment Status D PROPOSED AccEPT. The devices Status W PROPOSED AccEPT. Cf 149 SC 149.11.4.1, very status of the	Sugge	st the "shalls" be	replaced with text in the spiri	of the last se	entence of th	e paragraph.	PICS					
Undarge Zut: and ESS. The Support and ESS. Proposed Response Response Status W PROPOSED RELECT. The devices are required. It is the specific setup and limit lines that are user specific, not the tast methods. CI 149 SC 149.11.3 P172 L6 # 29 "Anslow, Pete Cleana Cleana </td <td>Chang</td> <td>e1st: "shall", To: '</td> <td>'is expected be able to"</td> <td>ow products t</td> <td>o ho tostod"</td> <td></td> <td>Suggested</td> <td>dRemedy</td> <td></td> <td></td> <td></td> <td></td>	Chang	e1st: "shall", To: '	'is expected be able to"	ow products t	o ho tostod"		Suggested	dRemedy				
Proposed Response Response Status W PROPOSED REJECT. The devices are required to meet applicable laws. This is a shall in other Clauses. The devices are required to meet applicable laws. This is a shall in other Clauses. The devices are required to meet applicable laws. This is a shall in other Clauses. The devices are required to meet applicable laws. This is a shall in other Clauses. Cl 149 SC 149.11.3 PTOP E Comment Status D 'An' and "EEE" appear in the Status column in 149.11.4.1, so they should be "*AN' and "'EEE" (preceded by "') SuggestedRemedy Change 'AN' and "EEE" to "*AN' and "'EEE" Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. Cl 149 SC 149.11.4.2.1 P173 L5 # [139 Donahue, Curtis UNH-HOL Comment Type E Comment Status D E2 SuggestedRemedy Status M PROPOSED ACCEPT. Status M Support: Yee] NA[] Proposed Response Response Status W PROPOSED ACCEPT. Cl 149 SC 149.11.4.2.1 P174 L3 # [1 Value/Comment: Status E M Support: Yee] NA[] Proposed	Delete	: ES4 and ES5.	ested, 10. is expected to all		o be lested		In 149).11.4.1, every c	other subclause of the Cla	use 149 PICS and	d also the Annex 149	ЭA
PROPOSED REJECT. The devices are required to meet applicable laws. This is a shall in other Clauses. The CISPR 25 test methods are required. It is the specific setup and limit lines that are user specific, not the test methods. PTOPOSED ACCEPT. CI 149 SC 149.11.3 P172 L6 # 29 "AN" and "EEE" appear in the Status D EZ "AN" and "EEE" appear in the Status column in 149.11.4.1, so they should be "*AN" and "EEE" to "*AN" and "EEE" PROPOSED ACCEPT. EZ Suggested/Remedy Change 'NN" and "EEE" to "*AN" and "EEE" PROPOSED ACCEPT. EZ PROPOSED ACCEPT. EZ Suggested/Remedy Change 'NN" and "EEE" to "*AN" and "EEE" PROPOSED ACCEPT. EZ "An" and "EEE" to "*AN" and "EEE" PROPOSED ACCEPT. EZ "An" and "EEE" to "*AN" and "EEE" PROPOSED ACCEPT. EZ "Inset new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset Proposed Response Response Status W PROPOSED ACCEPT. CI 149 SC 149.114.2.1 P174 L3 # §1 Anslow, Pete Ciena Comment Status D EZ Wide the subclause column on p	Proposed	Response	Response Status W				PICS	for items with st	tatus of:			
The devices are required to meet applicable laws. This is a shall in other Clauses. The CISPR 25 test methods are required. It is the specific setup and limit lines that are user specific, not the test methods. C1 149 SC 149.11.3 P172 L6 # 29 Anslow, Pete Ciena "Anviand "EEE" appear in the Status column in 149.11.4.1, so they should be "AN" and "EEE" (proceeded by "") Suggested/Remedy Change "AN" and "EEE" or "AN" and "EEE" Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. C1 149 SC 149.11.4.2.1 P173 L5 # 139 Comment Type E Comment Status D E Shall statement missing associated PICS item Suggested/Remedy Change "AN" and "EEE" or "AN" and "EEE" Proposed Response Response Status W PROPOSED ACCEPT. C1 149 SC 149.11.4.2.1 P174 L3 # 31 Comment Type E Comment Status D E Subjects "HAIL] Proposed Response Status W PROPOSED ACCEPT. C1 149 SC 149.11.4.2.1 P174 L3 # 31 Comment Type E Comment Status D E Subjects "HAIL] Proposed Response Status W PROPOSED ACCEPT. C1 149 SC 149.11.4.2.1 P174 L3 # 31 Comment Type E Comment Status D E Subject Response Status W PROPOSED ACCEPT. C1 149 SC 149.11.4.2.1 P174 L3 # 31 C1 149 SC 149.11.4.2.1 P174 L3 # 31 Comment Type E Comment Status D E Subject Response Status W PROPOSED ACCEPT. C1 149 SC 149.11.4.2.1 P174 L3 # 31 C1 149 SC 149.11.4.2.1 P174 L3 # 31 Comment Type E Comment Status D E The entries in the subclause column on page 174 wrap across two lines Suggested/Remedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. C1 149 SC 149.11.4.2.1 P174 L3 # 31 C1 149 SC 149.11.4.2.1 P	, PROP	, OSED REJECT.					"0" ch	ange the Supp	ort entry to "Yes []" ort entry to "Yes [] No []"			
The CISPR 25 test methods are required. It is the specific setup and limit lines that are user specific, not the test methods. "Something: 0" change the Support entry to "Yes [] No [] N/A []" Ci 149 SC 149.11.3 P172 L6 # 29 Anslow, Pete Ciena EZ Comment Type E Comment Status D EZ "AN" and "EEE" appear in the Status column in 149.11.4.1, so they should be "AN" and "EEE" Proposed Response Response Status D EZ SuggestedRemedy Change "Na" and "EEE" Comment Type E Comment Status D EZ Proposed Response Response Status W PROPOSED ACCEPT. NH Holo Comment Type E SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT. NH Holo L Comment Type E SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT. Numeric PCS Resert SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT. Numeric PCS Resert Subclause: 149.3.2.1 Status: M PROPOSED ACCEPT. Numeric PCS Response Status W PROPOSED ACCEPT. Ci 149 SC 149.114.2.1 P174 L3 # 51 Ci 149 SC 149.114.2.1	The de	evices are required	d to meet applicable laws. T	nis is a shall i	n other Clau	ses.	"Some	ething:M" chang	ge the Support entry to "Y	es [] N/A []"		
Outs Used Response Response Status W PROPOSED ACCEPT. Comment Type E Comment Status D E E SuggestedRemedy Change 'AN' and "EEE" Proposed Response Response Status W P E Comment Type E Comment Status D E E Proposed Response Response Status W P P P P E Comment Type E Comment Status D E Comment Type E Comment Status D E SuggestedRenedy Insert new PICS Reset Subiculars: 149.32.1 Status: M Support: Yes[] NA[] Proposed Response Status W PROPOSED ACCEPT. Citage SC 149.114.21 P174 L3 # 31 Anslow, Pete Ciena Comment Type E Comment Status D E	The C	SPR 25 test meth	nods are required. It is the spectrum to the spectrum of the s	pecific setup a	and limit line:	s that are	"Some	ething:O" chang	ge the Support entry to "Y	es [] No [] N/A []	1	
C1 149 S C1 49.11.3 P172 L6 # 29 Anslow, Pete Ciena Ci 149 SC 149.11.4.2.1 P173 L5 # 139 Comment Type E Comment Status D EZ Ci 149 SC 149.11.4.2.1 P173 L5 # 139 Change "AN" and "EEE" (preceded by "") Suggested/Remedy UNH-IOL Comment Type E Comment Type E Comment Status D EZ Suggested/Remedy Change "AN" and "EEE" to "*AN" and "EEE" PROPOSED ACCEPT. Change "AN" and "EEE" PROPOSED ACCEPT. Shall statement missing associated PICS item Suggested/Remedy PROPOSED ACCEPT. Note: A status: N PROPOSED ACCEPT. Instent new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset Subclause: 149.3.2.1 Value/Comment: Status M Support: Yes] NA[] PROPOSED ACCEPT. C1 149 SC 149.11.4.2.1 P174 L3 # 31 Comment Type E Comment Type E Comment Type Comment Type E Comment Type<	user s	becine, not the tes	st methous.				Proposed	Response	Response Status W	1		
Anslow, Pete Ciena Comment Type E Comment Status D "AN" and "EEE" (preceded by ***) SuggestedRemedy SuggestedRemedy Change "AN" and "EEE" to *AN" and "*EEE" Proposed Response Response Status W PROPOSED ACCEPT. Insert new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset SuggestedRemedy Norse Comment Type E Comment Type E <	C/ 149	SC 149.11.3	P 172	L 6	# ;	29	PROF	OSED ACCEP	Т.			
Comment Type E Comment Status D EZ "AN" and "EEE" appear in the Status column in 149.11.4.1, so they should be "AN" and ""EE" (preceded by "") Donahue, Curtis UNH-IOL StaggestedRemedy Change "AN" and ""EEE" Comment Type E Comment Type E Comment Status D EZ Proposed Response Response Status W N Response Status N EX SuggestedRemedy Insert new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset SuggestedRemedy Insert new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset Subclause: 149.3.2.1 Status :M Support: Yee[] NA[] Proposed Response Response Status W PROPOSED ACCEPT. C/ 149 SC 149.11.4.2.1 P174 L3 # [31] Anslow, Pete Ciena Comment Type E Comment Status D EX UggestedRemedy widen the subclause column on page 174 wrap across two lines. SuggestedRemedy Widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. Widen the subclause column so that the entries do not wrap across two lines. Proposed Response	Anslow, P	ete	Ciena				C/ 149	SC 149.11.4	4.2.1 P173	L 5	# 139	
AN and "EEE" appear in the Status column in 149.11.4.1, so they should be "AN" and "EEE" (preceded by "") SuggestedRemedy Change "AN" and "EEE" to "AN" and ""EEE" Proposed Response Response Status W PROPOSED ACCEPT. Value: Comment Type E Comment 199.3.2.1 Status: M Subclause: 149.3.2.1 Value: Comment Type Series Status D E Comment 199.8 E Comment Type E Comment Status D E Subclause: 149.3.2.1 Status: M Subclause: 149.3.2.1 Status: M PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 31 Anslow, Pete Ciena Comment Type E Comment Status D E E C	Comment	Type E	Comment Status D			EZ	Donabue	Curtie				
SuggestedRemedy Change "AN" and "EEE" to "AN" and "EEE" Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 # 31 Anslow, Pete Ciena Comment Type E Comment Status D E2 Ci 149 SC 149.11.4.2.1 P174 L3 # 31 Anslow, Pete Ciena Comment Type E Comment Status D E2 The entries in the subclause column on page 174 wrap across two lines. SuggestedRemedy widen the subclause column on page 174 wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. Type E Comment Status D E2 Ciena Comment Type E Comment Status W PROPOSED ACCEPT. The entries in the subclause column on page 174 wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. Type T D Interfrain C (D) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	"AN" a "*⊏⊏⊏	nd "EEE" appear	in the Status column in 149.	11.4.1, so the	y should be	"*AN" and	Comment	Type F	Comment Status D	-		F7
SuggestedRemedy Environment: Described in 149.3.2.1 PROPOSED ACCEPT. Status: W PROPOSED ACCEPT. SuggestedRemedy Insert new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset SuggestedRemedy Insert new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset SubjectedRemedy Insert new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset SubjectedRemedy Insert new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset SubjectedRemedy Insert new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset SubjectedRemedy Insert new PICS entry before PCT1 of Draft 2.0, with the following content: Feature: PCS Reset SubjectedRemedy Nulle/Comment: Described in 149.3.2.1 Status: M PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 Widen the subclause column on page 174 wrap across two lines. Proposed Response Response Status Wid		(preceded by)				Shall	statement missi	ing associated PICS item			
Change AN and FEEF to "AN and FEEF" Suggested/refinance Proposed Response Response Status PROPOSED ACCEPT. Note that the following content: Feature: PCS Reset Subclause: 149.3.2.1 Subclause: 149.3.2.1 Value/Comment: Described in 149.3.2.1 Status: M Support: Yes[] N/A[] Proposed Response Response Status PROPOSED ACCEPT. CI 149 SC 149.11.4.2.1 P174 L3 Anslow, Pete Ciena Comment Type E Comment Status D Proposed Response Response Status Proposed Response<	Suggested	Remedy					Suggester	d Domodu				
Proposed Response Response Status W PROPOSED ACCEPT. Feature: PCS Reset Subclause: 149.3.2.1 Value/Comment: Described in 149.3.2.1 Status: M Support: Yes[] N/A[] Proposed Response Response Status W PROPOSED ACCEPT. C/ 149 SC 149.11.4.2.1 P174 L3 # 31 Anslow, Pete Ciena Comment Type E Comment Status D E2 The entries in the subclause column on page 174 wrap across two lines SuggestedRemedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. The entries in the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W VDE: TR/technical provided E8/oditional convided E8/oditional E6/oditional E6/odit	Chang		to AN and EEE				Insert	new PICS entry	v before PCT1 of Draft 2 () with the followin	a content:	
PROPOSED ACCEPT. Subclause: 149.3.2.1 Value/Comment: Described in 149.3.2.1 Status: M Support: Yes[] N/A[] Proposed Response Response Status W PROPOSED ACCEPT. C/ 149 SC 149.11.4.2.1 P174 L3 # 31 Anslow, Pete Ciena Comment Type E Comment Status D E2 The entries in the subclause column on page 174 wrap across two lines SuggestedRemedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT.	Proposed	Response	Response Status W				Featu	re: PCS Reset		o, war are renowin	g oontent.	
Value Comment: Described in 149.3.2.1 Status: M Status: M Support: Yes[] N/A[] Proposed Response Response Status W PROPOSED ACCEPT. Cl 149 SC 149.11.4.2.1 P174 L3 # 31 Anslow, Pete Ciena Ciena Comment Type E Comment Status D E2 The entries in the subclause column on page 174 wrap across two lines SuggestedRemedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. TYDE: TB/topbaired E8/oditatial convirted C8/capaceal convirted L1/topbaired E/capaceal Page 52 of 61	PROP	OSED ACCEPT.					Subcla	ause: 149.3.2.1				
Support: Yes[] N/A[] Proposed Response Response Status W PROPOSED ACCEPT. C/ 149 SC 149.11.4.2.1 P174 L3 # 31 Anslow, Pete Ciena Comment Type E Comment Status D E2 The entries in the subclause column on page 174 wrap across two lines Suggested Remedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT.							Value, Status	Comment: Des	scribed in 149.3.2.1			
Proposed Response Response Status W PROPOSED ACCEPT.							Suppo	ort: Yes[] N/A[]				
PROPOSED ACCEPT. C/ 149 SC 149.11.4.2.1 P174 L3 # 31 Anslow, Pete Ciena Comment Type E Comment Status D E2 The entries in the subclause column on page 174 wrap across two lines SuggestedRemedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. TYPE: TR/technical E2/editorial C/general required T/technical E/editorial C/general							Proposed	Response	Response Status W	1		
C/ 149 SC 149.11.4.2.1 P174 L3 # 31 Anslow, Pete Ciena Comment Type E Comment Status D E2 The entries in the subclause column on page 174 wrap across two lines SuggestedRemedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. TYPE: TR/technical required CR/general required T/technical E/editorial C/general Response Response Status W PROPOSED ACCEPT.							PROF	OSED ACCEP	T.			
Anslow, Pete Ciena Comment Type E Comment Status D E2 The entries in the subclause column on page 174 wrap across two lines SuggestedRemedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT.							C/ 149	SC 149.11.4	4.2.1 <i>P</i> 174	L 3	# 31	
Comment Type E Comment Status D E2 The entries in the subclause column on page 174 wrap across two lines SuggestedRemedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. TYPE: TP/technical required EP/editorial required T/technical E/editorial C/general Page 53 of 61							Anslow, P	ete	Ciena			
The entries in the subclause column on page 174 wrap across two lines SuggestedRemedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. TYRE: TR/technical required ER/editorial required CR/general required T/technical E/editorial C/general							Comment	Туре Е	Comment Status D			EZ
SuggestedRemedy widen the subclause column so that the entries do not wrap across two lines. Proposed Response Response Status W PROPOSED ACCEPT. TYRE: TR/technical required ER/editorial CR/general required T/technical E/editorial C/general Response Response Response Response Status W PROPOSED ACCEPT.							The e	ntries in the sul	bclause column on page	174 wrap across ty	<i>w</i> o lines	
widen the subclause column so that the entries do not wrap across two lines. <i>Proposed Response Response Status</i> PROPOSED ACCEPT. TYRE: TR/technical required ER/editorial required CR/general required T/technical E/editorial C/general							Suggested	dRemedy				
Proposed Response Response Status W PROPOSED ACCEPT.							widen	the subclause	column so that the entries	s do not wrap acro	ss two lines.	
PROPOSED ACCEPT.							Proposed	Response	Response Status W	1		
TVPE: TP/technical required EP/editorial required CP/general required T/technical E/editorial C/general							PROF	OSED ACCEP	T.			
TVDE: TP/tachnical required EP/aditorial required CP/gaparal required T/tachnical E/aditorial C/gaparal												
		technical required	ER/editorial required GR/o	eneral require	ed T/technic	al E/editorial G/	general		P	Pa 174	Page 53	of 61

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Li 3 7/12/2019 4:00:50 PM SORT ORDER: Page, Line 7/12/2019 4:00:50 PM

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

C/ 149	SC 149.11.4.2	2. 2 P17	75 L1	0	# 140		C/ 149	SC 149.11.4	.2.8	P 177	L 33	# 14	43
Donahue,	Curtis	UNH-I	OL				Donahue,	Curtis		UNH-IOL		_	
Comment	Туре Е	Comment Status	D			ΕZ	Comment	Туре Е	Comme	ent Status D			EZ
Shall s	statement missing	associated PICS ite	em				Shall s	statement missir	ng associate	d PICS item			
Suggested	lRemedy						Suggestea	lRemedy					
Insert Featur Subcla Value/ Status Suppo	new PICS entry a re: Frame and blo ause: 149.3.2.3.1 Comment: Descri : M rt: Yes[] N/A[]	Ifter PCR2 of Draft 2. ck synchronization ibed in 149.3.2.3.1	.0, with the follov	wing content:			Insert Featur Subcla Value/ Status Suppo	new PICS entry re: Partially trans ause: 149.3.9.2. Comment: Deso : M rt: Yes[] N/A[]	before OAM smitted OAM 1 cribed in 149	12 of Draft 2.0, wi 1 frame 9.3.9.2.1	th the following c	content:	
Proposed PROP	Response OSED ACCEPT.	Response Status	W				Proposed PROP	Response OSED ACCEP1	Respons Г.	se Status W			
C/ 149	SC 149.11.4.2	2. 2 P17	75 L1	7	# 141		C/ 149	SC 149.11.4	.3.2	P 178	L15	# 14	44
Donahue,	Curtis	UNH-I	OL				Donahue,	Curtis		UNH-IOL			
Comment Incorre	<i>Type</i> E ect subclause refe	Comment Status erence.	D			EZ	Comment Duplic	<i>Type</i> E ate PICS entry.	Comme	ent Status D			EZ
Suggested Chang	<i>IRemedy</i> je '149.3.2.3.2' to	'149.3.2.3.3'.					Suggested Remov	IRemedy ve PMAT1.					
Proposed PROP	<i>Response</i> OSED ACCEPT.	Response Status	W				Proposed PROP	Response OSED ACCEPT	Respons T.	se Status W			
C/ 149	SC 149.11.4.2	2.7 P17	77 L1	6	# 142		C/ 149	SC 149.11.4	.3.10	P 182	L 35	# 14	45
Donahue,	Curtis	UNH-I	OL			_	Donahue,	Curtis		UNH-IOL			
Comment Typo.	Type E	Comment Status	D			EZ	Comment Typo.	Type E	Comme	ent Status D			EZ
Suggested Capita	<i>IRemedy</i> Ilize the 'i' in 'ignor	re' in the Value/Com	ment field of PC	SL4.			Suggesteo Chang	<i>IRemedy</i> je 'Expire s97.5'	to 'Expires 9	97.5'			
Proposed PROP	Response OSED ACCEPT.	Response Status	w				Proposed PROP	Response OSED ACCEP1	Respons T.	se Status W			

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

C/ 149	SC 149.11.4.4.3	P184	L 6	# 205	C/ 149	SC 149.11.4	.4.3 <i>P</i> 185	L1	# 148	
Dawe, Pier	rs	Mellanox			Donahue	, Curtis	UNH-IOL			
Comment 149.11 Item F TES1	Type TR Co 1.4.4.3 Transmitter electric feature Subclause Value AC-coupling to the MD	omment Status D ctrical specifications le/Comment Status Su	pport	Pi	ICS Commen Shal Suggeste	<i>t Type</i> E statement missin d <i>Remedy</i>	Comment Status D ig associated PICS item			EZ2
Suggested Means Proposed PROP	IRemedy S? See another comme Response Res OSED ACCEPT IN PR	ent sponse Status W INCIPLE.			Inse Feat Subo Valu Statu Supp	t new PICS entry ure: EOJpk-pk Jitt lause: 149.5.2.3.2 e/Comment: Less is: M ort: Yes[] N/A[]	after TSE15 of Draft 2.0, w er 2 than 4/S ps	ith the following o	content:	
Chang Chang	e TES1 Feature to "Co TES1 Value/Comme	oupling" ent to "Operate with AC	coupling to the	e MDI"	Proposed PRO	l Response POSED ACCEPT	Response Status W			
Chang Chang (ohm)	ge TES2 Feature to "Re ge TES2 Value/Comme resistive differential loa	esistive differential load ant to "Meet electrical re ad connected to transm	" equirements of hitter output if lo	this clause with a 100 bad is not specified	C/ 149 Donahue	SC 149.11.4.	4.3 P185 UNH-IOL	L1	# 147	
C/ 149	SC 149.11.4.4.3	P 184	L 35	# 146	Commen Shal	t Type E statement missin	comment Status D			ΕZ
Donahue, Comment Update Suggested Chang for TE Proposed	Curtis <i>Type</i> E <i>Cc</i> e subclause reference <i>IRemedy</i> ge the subclause refere S12, TES13, TES14, a <i>Response Res</i> OSED ACCEPT.	UNH-IOL omment Status D nce in the Subclause of nd TES15. sponse Status W	olumn from '14	9.5.2.3' to '149.5.2.3.1'	EZ Suggeste EZ Insel Feat Subo Valu Statu Supp Proposed PRO	edRemedy t new PICS entry ure: DJpk-pk Jitter lause: 149.5.2.3.2 e/Comment: Less is: M ort: Yes[] N/A[] d Response POSED ACCEPT	after TSE15 of Draft 2.0, w 2 than 9/S ps <i>Response Status</i> W	ith the following o	content:	
					C/ 149	SC 149.11.4	.4.3 <i>P</i> 185	L 3	# 149	
					Donahue	, Curtis	UNH-IOL	-		
					Commen Incol	<i>t Type</i> E rect dBm values i	Comment Status D n TSE16.			PSD
					Suggeste Char	edRemedy lige '-1 dBm' to '-1.	.5 dBm', and change '2 dBr	n' to '1.5 dBm'		
					Proposed PRO	l Response POSED ACCEPT	Response Status W			

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

C/ 149 SC 149.11.4.	5 <i>P</i> 186	L18	# <u>1</u> 50		C/ 149 SC 149.11.4.5	P186	L 29	# <u>1</u> 55
Donahue, Curtis <i>Comment Type</i> E Typo.	UNH-IOL Comment Status D			ΕZ	Donahue, Curtis Comment Type E Com Shall statement missing assoc	UNH-IOL Inment Status D iated PICS item		EZ
SuggestedRemedy Change '2.5G return los Proposed Response PROPOSED ACCEPT.	ss' to '2.5GBASE-T1 return loss' Response Status W	/ 22	# [15]		SuggestedRemedy Insert new PICS entry after LS Feature: PSAACR-F Subclause: 149.7.2.2 Value/Comment: See Equation Status: M	C6 of Draft 2.0, with t n (149-26)	he following cor	ntent:
Comment Type E	UNH-IOL Comment Status D	L 20	# [151	EZ	Support: Yes[] N/A[] Proposed Response Resp PROPOSED ACCEPT.	oonse Status W		
SuggestedRemedy Change '5G return loss' Proposed Response PROPOSED ACCEPT.	' to '5GBASE-T1 return loss' Response Status W				C/ 149 SC 149.11.4.5 Donahue, Curtis Comment Type E Com Shall statement missing assoc	P186 UNH-IOL Inment Status D iated PICS item	L 29	# 154 EZ
Cl 149 SC 149.11.4. Donahue, Curtis Comment Type E Typo.	5 P186 UNH-IOL Comment Status D	L 22	# 152	EZ2	Insert new PICS entry after LS Feature: PSANEXT Subclause: 149.7.2.1 Value/Comment: See Equation Status: M Support: Yes[] N/A[]	C6 of Draft 2.0, with t n (149-25)	he following cor	ntent:
SuggestedRemedy Change '10G return los Proposed Response	s' to '10GBASE-T1 return loss' Response Status W				Proposed Response Resp PROPOSED ACCEPT.	oonse Status W		
PROPOSED ACCEPT. C/ 149 SC 149.11.4.3 Donahue, Curtis Comment Type E	5 P186 UNH-IOL Comment Status D	L 22	# 153	EZ	Cl 149A SC 149A.1 Dawe, Piers Comment Type TR Com "This annex describes the test spec, no requirement to measu	P189 Mellanox nment Status D methodologies that s ure.	L12 hall be used to	# 206 149A measure": not a test
Typo. SuggestedRemedy Change "Equation (149 Proposed Response PROPOSED ACCEPT.	-21)' to 'Equation (149-22)' <i>Response Status</i> W				SuggestedRemedy Change to "may be used". Proposed Response Resp PROPOSED REJECT. This is a normative Annex that to measure coupling and scree	conse Status W defines the specific t ening attenuation.	est method that	is required to be used

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 Page 56 of 61 Pa 189 Li **12** 7/12/2019 4:00:50 PM SORT ORDER: Page, Line

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

C/ 149	SC 149.A.2	P189	L18	# 130	C/ 149A	SC 149A.2	P189	L 26	# 75	
Shariff, Ma	asood	CommScope			Wienckow	/ski, Natalie	General Motor	S		
Comment	Type TR	Comment Status D			Z Comment	Туре Е	Comment Status D			ΕZ
Incorre segme in Clau	ect statement. Ali ents and cannot b use 149.7.2 show	en Crosstalk defines coupling be measured using coupling at the an illustration for alien cross	between distu tenuation test talk measure	rbed and disturber link fixtures. Figure 149-41 ments and also refers t	Per th the ba	e IEEE-SA Style asic value and the	Manual, "If tolerances are pro tolerance"	ovided, the unit	shall be given with bot	th
Clause	e 97B for addition	al details. There is no referen	ce to Annex 1	49A	Suggeste	dRemedy				
Suggested	Remedy				After	23, add the degre	e symbol and then "C".			
From: differen	Coupling and scr ntial link segmen	reening attenuation are the ma t to define its alien crosstalk a tre the main parameters for a s	in parameters nd EMC prope	for a shielded erties. To: Coupling an ential link segment to	d Proposed	Response POSED ACCEPT	Response Status W			
define				ender mit eegment te	C/ 149A	SC 149A.3	P189	L 31	# 235	7
its EM	C properties.				Zimmerm	an. George	ADI, APL Gp.	Aquantia, BMV	V. Cisco, Commscope,	. S
Proposed I	Response	Response Status W			Comment	Type E	Comment Status D		·,,, -, -, -, -, -, -, -, -,	ΕZ
PROP	OSED ACCEPT.				"The	reference cable a	ssembly is intended to be a si	implified repres	entation of the	
C/ 149A	SC 149A.2	P189	L 26	# 234	comp inline	onents, that are u connectors." is g	used within a wiring harness, w rammatically awkward	which are cable	, PCB connectors, and	ł
Zimmerma	an, George	ADI, APL Gp, A	quantia, BMV	V, Cisco, Commscope,	S Suggeste	dRemedy				
Comment "Meas	<i>Type</i> E urements to be p	Comment Status D erformed 75%" isn't a sente	nce.		Z Sugge repres	est changing to " sentation of the c	The reference cable assembly omponents used within a wirir	is intended to ng harness. Th	be a simplified ese include cable, PCI	в
Suggested	Remedy				Dranaaad					
Chang	je "Measurement	s to be performed" to "Measur	ements are pe	erformed"	Proposed	Response	Response Status W			
Proposed I	Response	Response Status W			PROF	OSED ACCEPT	•			
PROP	OSED ACCEPT.				C/ 149A	SC 149A.3	P189	L 31	# 76	
C/ 149A	SC 149A 2	P189	/ 26	# 207	Wienckow	/ski, Natalie	General Motor	S		
		Melleneu			Comment	Type E	Comment Status D			ΕZ
Dawe, Pier				11	unneo	essary comma				
This is		Comment Status D	auch wider rei	14	Suggeste	dRemedy				
is assu	ured is up the the	implementer.		ige than this - now that	Chan	ge: simplified represent	presentation of the component	s, that are used	d	
Suggested	Remedy				Proposod	Posponso	Rosponso Status W			
Delete	"Measurements	to be performed at 23 ± 5°C a	nd relative hu	midity of 25% to 75%."	FIOPOSEO		Response Status W			
Proposed I PROP	Response OSED REJECT.	Response Status W			FROM	OSED ACCEPT				
While i done u	it is true that proc under a defined c	ducts need to work over a muc ondition to ensure comparable	h wider range results in diff	, testing needs to be erent labs.						

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/ger	neral Pa 189	Page 57 of 61
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/writto	en C/closed U/unsatisfied Z/withdrawn Li 31	7/12/2019 4:00:50 PM
SORT ORDER: Page, Line		

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

C/ 149A	SC 149A.3	P189	L 32	# 132		C/ 149A	SC 149A.5.4	P 194	L 4	# 1	
Shariff, Maso	od	CommScope				Hajduczenia,	, Marek	Charter Comr	munications		
Comment Typ	be ER	Comment Status D			ΕZ	Comment Ty	rpe E	Comment Status D			EZ
Incomplet	te and ambigu	uous statement				Text of c	olumn Feature	seems to be a few points la	rger than the oth	er columns in the	same
SuggestedRe From: Thi shielding, screening terms of b	emedy is also ensure , in order to re g attenuation. balance and sl	es that connectors and cable a ach sufficient coupling and To: This also ensures that o hielding, in order to reach suff	re matched in connectors and icient accuracy	terms of balance ar I cable are matched / to measure coupli	nd 1 in ng	SuggestedRe Please a Proposed Re	emedy Ilign the font siz	ze Response Status W			
and scree	ening attenuat	ion.				PROPO	SED ACCEPT.				
Proposed Res	sponse	Response Status W				C/ 149A	SC 149A.5.4	P 195	L 1	# 33	
FROFOG	BED ACCEPT.					Anslow, Pete	e	Ciena			
C/ 149	SC 149.A.4	P191	L 8	# 131		Comment Ty	vpe E	Comment Status D			ΕZ
Shariff, Maso Comment Typ Correct st	od be ER tandards spec	CommScope <i>Comment Status</i> D ifications avoiding ambiguity.			EZ	Recent s start on e SuggestedRe	standards publis even or odd pag <i>emedy</i>	shed by IEEE (and the 802.3 ges, so there should be no b	3 template) do no blank pages betv	ot force each Clau veen clauses.	ise to
SuggestedRe	emedy					Kelliove	the blank page				
From: Pla to the PC	acing the termi B, is not allow	ination resistors inside the cor red. To: Termination resister	nnector,in orde ors shall not be	r to omit the transiti e placed inside the	ion	Proposed Re PROPOS	esponse SED ACCEPT.	Response Status W			
Proposed Rev						C/ 149B	SC 149B	P196	L 4	# 199	
						Dawe, Piers		Mellanox			
FROFOS	DED AGGEFT.					Comment Ty	vpe TR	Comment Status D			OAM
C/ 149A	SC 149A.5	P 192	L 2	# 32		An inform	native annex w	ith state diagrams - that's cra	azy!		
Anslow, Pete		Ciena				SuaaestedRo	emedv				
Comment Typ	be E	Comment Status D			ΕZ	Remove	the state diagr	ams or change the annex's	status to normat	ive (but optional,	
The anne anne title	ex title is quote	ed in four places in the PICS a	nd each should	d match the actual		presuma	ably)				
SuggestedRe	emedv					Proposed Re	SED RE IECT	Response Status W			
In the title and the ti "Coupling "Coupling	e of 149A.5, th itle of 149A.5.4 g attenuation to g and screenin	ne first sentence of 149A.5.1, t 4 change: est methodology" to: g attenuation test methodolog	he top row of t y"	he table in 149A.5.2	2.2,	See expl	lanation in wien	nckowski_3ch_01a_0719.pdf	i.		
Proposed Res	<i>sponse</i> SED ACCEPT.	Response Status W									

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

C/ 149B SC 149B.1	P 196	L 12	# <u>1</u> 81		C/ 149B	SC 149B.2.7	P 197	L 49	# <u>1</u> 82
Baggett, Tim Comment Type E Mispelling: "MutliGBase	Microchip <i>Comment Status</i> D -T1"			EZ	Baggett, Tir <i>Comment 1</i> REC ha	m <i>Type</i> E asn't been define	Microchip <i>Comment Status</i> D d yet before this section, and	l would benefit	<i>EZ</i> from being defined in
SuggestedRemedy					Suggested	iesis. Remedy			
Search document for "M	lutliGBASE" anre replace wit	h "MultiGBASE"			Change	e:			
Proposed Response PROPOSED ACCEPT.	Response Status W				"REC ir To: "REC (I	n OAM<13:12>< Receive Error Co	7:0>" ounter) in OAM<13:12><7:0>	n	
C/ 149B SC 149B.1	P 196	L17	# 283		Or: add	a line referring	the reader to section 149B.2.	9	
Souvignier, Tom	Broadcom				Also on	n Page 198, Line	4		
Comment Type ER There is a typo on line 1	Comment Status D 7.			EZ	Proposed F PROPC	Response DSED ACCEPT.	Response Status W		
SuggestedRemedy					CI 140B	SC 140B 2 0	D109	/ 12	# 202
To ""is loaded to 3.23	ed to 3.2318 and 3.23.19 for 18 and 3.2319 for	transmission" on"				00 1490.2.9	Mellanov	215	# 203
Proposed Response PROPOSED ACCEPT.	Response Status W				Comment 7 How is	<i>fype</i> T the error count le	Comment Status D baded into these two bytes?		OAM
C/ 149B SC 149B.1	P 196	L18	# 284		<i>SuggestedI</i> Which i	Remedy is most significa	nt byte and bit?		
Souvignier, Tom Comment Type ER There is a typo on line 1	Broadcom Comment Status D 8.			EZ	Proposed F PROPC	Response DSED REJECT.	Response Status W		
SuggestedRemedy Change from "is read To "is read from 3.232	from 3.2320 and 3.23.21" 20 and 3.2321"				The det This sh LSB is	tails on the arran ows that the 8 M transmitted first.	gement of the bits in these b ISB are in 3.2319.15:8, the 8	ytes can be fou LSB are in 3.2	und in Table 45-244a. 319.7:0, and that the
Proposed Response	Response Status W				C/ 149B	SC 149B.3.2.	1 <i>P</i> 199	L1	# 274
PROPOSED ACCEPT.					Tu, Mike <i>Comment T</i> Variable also loo	<i>Type</i> T e "mr_tx_reques bks like a duplica	Broadcom Comment Status D t_rec_clear" does not match te of the "tx_clear_rec".	to any register	OAM bits in Table 149-9. It
					SuggestedF Propos	R <i>emedy</i> e to delete line 1	to 5		
					Proposed F	Response	Response Status W		

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

C/ 149B SC 149B.3.2.1 P199 L7 # 271	C/ 149B SC 149B.3.2.3 P199 L26 # 2
Tu Mike Broadcom	Haiduczenia, Marek Charter Communications
Comment Type T Comment Status D OAM	Comment Type TR Comment Status D OAM
Variable name should be consistent with Table 149-9 PCS control/status variable name	I am very confused why an informative annex would have state diagrams that describe the
SuggestedRemedy	required behavior of the OAM functions needed for the operation of the link
Change variable name from "rx_clear_rec" to "mr_tx_clear_rec".	SuggestedRemedy
Proposed Response Response Status W	Seems like this annex ought to be normative
PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED REJECT.
C/ 149B SC 149B.3.2.1 P199 L13 # 272	See explanation in wienckowski 3ch 01a 0719 ndf
Tu, Mike Broadcom	
Comment Type T Comment Status D OAM	C/ 149B SC 149B.3.2.3 P199 L26 # 183
Variable name should be consistent with Table 149-9 PCS control/status variable name	Baggett, Tim Microchip
SuggestedRemedy	Comment Type E Comment Status D EZ
Change variable name from "tx_clear_rec" to "mr_tx_clear_rec".	Section heading "149B.3.2.3 State Diagrams" is orphaned from the diagrams it contains.
Proposed Response Response Status W	Suggested Demody
PROPOSED ACCEPT.	Suggesteurcemedy Move beading "140P 2.2.2 State Diagrams" to ten of page 200 with diagrams 140P 2 and
C/ 140P SC 140P 3 2 1 P100 / 21 # 272	149B-3.
	Proposed Response Response Status W
Lu, Mike Broadcom	PROPOSED ACCEPT.
Variable name should be consistent with Table 140 0 PCS control/status variable name	
	C/ 149B SC 149B.3.2.3 P200 L3 # 275
SuggestedRemedy	Tu, Mike Broadcom
Change counter name from "tx_rec" to "mr_tx_rec".	Comment Type T Comment Status D OAM
Proposed Response Response Status W PROPOSED ACCEPT.	In Figure 149B-2, the variable values and variable names should be consistent with definitions.
	SuggestedRemedy
	See page 4 of "tu_3ch_04_0719.pdf".
	Proposed Response Response Status W
	PROPOSED ACCEPT.

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C/ 149B	SC 149B.3.2.3	P 2	00	L 38	#	276	
Tu, Mike		Broad	lcom				_
Comment Ty	rpe T	Comment Status	D				OAM
In Figure definitior	e 149B-3, the var ns.	iable values and va	ariable names	s should be o	consister	nt with	
SuggestedR	emedy						
See pag	e 5 of "tu_3ch_0	4_0719.pdf".					
Proposed Re	esponse SED ACCEPT.	Response Status	w				

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

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