<i>Cl</i> 149 Benyamin, Sa	SC 149.1.3.3	P 66 Aquantia	L 22	# 118		Cl 44 Zimmerma		44.1.3	P 27 CME:ADI,Aqua	L 54 AP	# 127	,
Comment Typ		Comment Status D			Alert	Comment	Туре	E	Comment Status D ds to be added to text of claus			Clause 44
The Alert number o resumed. Proposed Res PROPOS	Transmit func signal is a low f Wake frames sponse ED ACCEPT.	tion in the PHY then sends a frequency PAM2 signal. The After this short recovery tin Response Status W	e Alert signal is t ne the normal o	hen followed by a berational mode is		read: Claus T, in (Claus <i>Proposed</i>	diting ir (<us> e 53 for Clause 6 e 52 for <i>Respor</i></us>	instruction a indicates s 10GBASE 88 for 10G other PM	and text to change item d in li start or end of underscored in E-LX4, in Clause 54 for 10GB BASE-LRM, <us>in Clause 7 D types." Response Status W</us>	sertion) "d) Th ASE-CX4, in C	e MDI as spec lause 55 for 1	ified in 0GBASE-
Cl 149 Benyamin, Sa Comment Typ		P 66 Aquantia Comment Status D	L31	# 119	Alert	C/ 44 Zimmerma		44.1.4.4 rge	P 29 CME:ADI,Aqua	L 19 antia,AP	# 128	
frames w Proposed Res	a transition to t hich is used as	he normal operation mode. a recovery period. Normal <i>Response Status</i> W			ke	uses a Suggested Chang Proposed	nclature a 64B/6 d <i>Remec</i> ge "64B <i>Respor</i>	5B PCS. dy /65B PCS nse	Comment Status D 44-1 doesn't adequately distin & 1-pair PMA" to "1-pair RS- Response Status W			:h also
<i>CI</i> 44 McClellan, Br	SC 44.1.3	P 27 Marvell	L 50	# 110		PROF	JOSED	ACCEPT.				
		Comment Status D es it appear that XGMII is really s.	quired for other F		use 44 e							
SuggestedRe delete "N	2	I IS OPTIONAL", change "N	OTE 2" to "NOT	E 1"								
Proposed Res PROPOS Change F	s <i>ponse</i> ED ACCEPT I Figure 44-1 to s	Response Status W N PRINCIPLE. Clause 125 s show all XGMII optional to m andatory for 10G but is not fo	shows all XGMII atch Clause 125	interfaces as optic								

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

C/FM SC FM	F	^{>} 1	L 26	# 164	C/ 45	SC 45.2.1	1.193.4	P35	L23	# 19	
Zimmerman, George	CM	IE:ADI,Aquant	ia,AP		Anslow, P	ete		Ciena			
Comment Type E				Editorial	Comment			ment Status D			Editoria
as the basis for v	a number of edits "as mo vhat it amends. It is still	early to say w		f publication is, but			1 OF DIE 1.0.1	1" should be "either	bit 1.2309.11 of	DIT 1.0.11	
we should be cor commenting.	nsistent. This way review	wers know to lo	ook at 802.3cg	edits during	Suggested Chang	<i>Remedy</i> ge "1.2318.11	" to "1.2309.	11"			
SuggestedRemedy					Proposed	Response	Respo	onse Status 🛛 🛛 🛛 🖤			
802.3cd-201x." to	nded by IEEE Std 802.3d o "IEEE Std 802.3cb-201	8, IEEE Std 8				POSED ACCE					
	Std 802.3cg-201x (TBD).				C/ 45	SC 45.2.1	1.194	P 36	L 1	# 135	
Proposed Response		ıs W			Zimmerma	an, George		CME:ADI,Aqu	iantia,AP		
PROPOSED AC	CEPT IN PRINCIPLE.				Comment	Туре Е	Comr	ment Status D			Editoria
Make the change and ch.	e as proposed. In additio	on, Add the abs	stract of cg on	page 10 between cd		45-155c has 45-155d in 4	0	le "1000BASE-T1" s	hould be "Multi	GBASE-T1" sar	ne for
Text to add: IEEE Std802.3cc		specifies add	litions and appr	opriate modifications	Suggested Chang titles	•	E-T1" to "Mu	ltiGBASE-T1" on bo	th Table 45-155	ic and Table 45-	155d
to add 10 Mb/s P	ssociated optional provisi	cifications and	d management	parameters for	Proposed	Response POSED ACCE	,	onse Status W			
to add 10 Mb/s P operation, and as conductors.	Physical Layer (PHY) spe ssociated optional provisi	cifications and	d management	parameters for	Proposed		PT.	P 36	L 24	# 92	
to add 10 Mb/s P operation, and as conductors. C/ FM SC FM	Physical Layer (PHY) spe ssociated optional provisi	cifications and ion of power, c	d management over a single ba	parameters for alanced pair of	Proposed PROF	SC 45.2.4	PT.		L 24	# 92	
to add 10 Mb/s P operation, and as conductors. C/ FM SC FM Zimmerman, George	Physical Layer (PHY) spe asociated optional provisi <i>F</i> CM	ecifications and ion of power, c P 2 IE:ADI,Aquanti	d management over a single ba	parameters for alanced pair of	Proposed PROF CI 45	SC 45.2.4	.194.2	P36	L 24	# <u>92</u>	Editoria
to add 10 Mb/s P operation, and as conductors. C/ FM SC FM Zimmerman, George Comment Type E "This amendmen	Physical Layer (PHY) spe ssociated optional provisi <i>F</i> CM <i>Comment Statu</i> It to IEEE Std 802.3-2018	ecifications and ion of power, c 2 IE:ADI,Aquanti <i>us</i> D 8 adds point-to	d management over a single ba L1 tia,AP o-point 2.5 Gb/s	parameters for alanced pair of # <u>163</u> <i>Editorial</i> s Physical Layer	Proposed PROF CI 45 Lo, Willian Comment	SC 45.2.4	EPT. 1.194.2 Comr	P 36 Axonne Inc.	L 24	# <u>92</u>	Editoria
to add 10 Mb/s P operation, and as conductors. C/ FM SC FM Zimmerman, George Comment Type E "This amendmen (PHY), 5 Gb/s Pt	Physical Layer (PHY) spe ssociated optional provisi <i>F</i> CM <i>Comment Statu</i> to IEEE Std 802.3-2018 Nysical Layer (PHY) and	ecifications and ion of power, c 2 IE:ADI,Aquanti us D 8 adds point-to 10 Gb/s Physi	d management over a single ba <i>L</i> 1 tia,AP o-point 2.5 Gb/s ical Layer (PHY	parameters for alanced pair of # <u>163</u> <i>Editorial</i> s Physical Layer ') specifications and	Proposed PROF C/ 45 Lo, Willian Comment Gram	SC 45.2.4 SC 45.2.4 n <i>Type</i> E mar is a bit co	EPT. 1.194.2 Comr	P 36 Axonne Inc.	L 24	# <u>92</u>	Editoria
to add 10 Mb/s P operation, and as conductors. C/ FM SC FM Zimmerman, George Comment Type E "This amendmen (PHY), 5 Gb/s Pf management par application." - lac	Physical Layer (PHY) spe ssociated optional provisi <i>F</i> CM <i>Comment Statu</i> It to IEEE Std 802.3-2018	cifications and ion of power, c 2 IE:ADI,Aquanti us D 8 adds point-tc 10 Gb/s Physi n automotive c chained "and	d management over a single ba <i>L</i> 1 dia,AP o-point 2.5 Gb/s ical Layer (PHY abling in an au 10 Gbs specific	parameters for alanced pair of # <u>163</u> <i>Editorial</i> s Physical Layer /) specifications and tomotive	Proposed PROF Cl 45 Lo, Willian Comment Gram Suggested Repla	SC 45.2.4 SC 45.2.4 n Type E mar is a bit co dRemedy ce first senter	EPT. I.194.2 <i>Comr</i> onfusing. nce with:	P 36 Axonne Inc.		# <u>92</u>	Editoria
to add 10 Mb/s P operation, and as conductors. C/ FM SC FM Zimmerman, George Comment Type E "This amendmen (PHY), 5 Gb/s Pt management par application." - lac management par	Physical Layer (PHY) spe associated optional provisi <i>F</i> CM <i>Comment Statu</i> at to IEEE Std 802.3-2018 hysical Layer (PHY) and rameters for operation on ck of oxford comma, and	cifications and ion of power, c 2 IE:ADI,Aquanti us D 8 adds point-tc 10 Gb/s Physi n automotive c chained "and	d management over a single ba <i>L</i> 1 dia,AP o-point 2.5 Gb/s ical Layer (PHY abling in an au 10 Gbs specific	parameters for alanced pair of # <u>163</u> <i>Editorial</i> s Physical Layer /) specifications and tomotive	Proposed PROF CI 45 Lo, Willian Comment Gram Suggested Repla Bits 1.	SC 45.2.4 SC 45.2.4 n Type E mar is a bit co dRemedy ce first senter	EPT. I.194.2 Comr onfusing. nce with: itrol the prece	P36 Axonne Inc. <i>nent Status</i> D oder setting requeste		# <u>92</u>	Editoria
to add 10 Mb/s P operation, and as conductors. C/ FM SC FM Zimmerman, George Comment Type E "This amendmen (PHY), 5 Gb/s Pf management par application." - lac management par SuggestedRemedy	Physical Layer (PHY) spe associated optional provisi <i>F</i> CM <i>Comment Statu</i> at to IEEE Std 802.3-2018 hysical Layer (PHY) and rameters for operation on ck of oxford comma, and	ecifications and ion of power, c 2 IE:ADI,Aquanti <i>us</i> D 8 adds point-to 10 Gb/s Physi n automotive c chained "and can be misread	d management over a single ba L1 cia,AP o-point 2.5 Gb/s ical Layer (PHY cabling in an aut 10 Gbs specifie d.	# 163 Editorial s Physical Layer () specifications and tomotive cations and	Proposed PROF Cl 45 Lo, Willian Comment Gram Suggested Repla Bits 1 Proposed	SC 45.2.4 SC 45.2.4 m Type E mar is a bit co dRemedy ce first senter .2311.3:2 con	EPT. 1.194.2 Comr ponfusing. nce with: trol the preco Respo	P36 Axonne Inc. nent Status D		# <u>92</u>	Editoria
to add 10 Mb/s P operation, and as conductors. C/ FM SC FM Zimmerman, George Comment Type E "This amendmen (PHY), 5 Gb/s Pf management par application." - lac management par SuggestedRemedy Change "This am Layer (PHY), 5 Gb/s Pf management	Physical Layer (PHY) spe associated optional provisi <i>F</i> CM <i>Comment Statu</i> at to IEEE Std 802.3-2018 hysical Layer (PHY) and rameters for operation on the of oxford comma, and rameters" is clunky and contend hendment to IEEE Std 80 hysical Layer (PHY) and	cifications and ion of power, c P2 IE:ADI,Aquanti <i>us</i> D 8 adds point-to 10 Gb/s Physi n automotive c chained "and can be misread 02.3-2018 adds 10 Gb/s Physi	d management over a single ba L1 b-point 2.5 Gb/s ical Layer (PHY cabling in an aut 10 Gbs specifie d. s point-to-point ical Layer (PHY	parameters for alanced pair of # <u>163</u> <i>Editorial</i> s Physical Layer 7) specifications and tomotive cations and 2.5 Gb/s Physical 7) specifications and	Proposed PROF Cl 45 Lo, Willian Comment Gram Suggested Repla Bits 1 Proposed	SC 45.2.4 SC 45.2.4 m Type E mar is a bit co dRemedy ce first senter .2311.3:2 con Response	EPT. 1.194.2 Comr ponfusing. nce with: trol the preco Respo	P36 Axonne Inc. <i>nent Status</i> D oder setting requeste		# <u>92</u>	Editoria
to add 10 Mb/s P operation, and as conductors.	Physical Layer (PHY) spe ssociated optional provisi <i>F</i> CM <i>Comment Statu</i> at to IEEE Std 802.3-2018 hysical Layer (PHY) and rameters for operation on sk of oxford comma, and rameters" is clunky and content	cifications and ion of power, c 2 IE:ADI,Aquanti <i>us</i> D 8 adds point-to 10 Gb/s Physi a automotive c chained "and can be misread 02:3-2018 adds 10 Gb/s Physi cabling in an au s physical laye Gb/s operation	d management over a single ba <i>L</i> 1 dia,AP o-point 2.5 Gb/s ical Layer (PHY abling in an au 10 Gbs specifie d. s point-to-point ical Layer (PHY utomotive appli er specifications on automotive	parameters for alanced pair of # 163 Editorial s Physical Layer () specifications and tomotive cations and 2.5 Gb/s Physical () specifications and cation." to "This s and management cabling in an	Proposed PROF Cl 45 Lo, Willian Comment Gram Suggested Repla Bits 1 Proposed	SC 45.2.4 SC 45.2.4 m Type E mar is a bit co dRemedy ce first senter .2311.3:2 con Response	EPT. 1.194.2 Comr ponfusing. nce with: trol the preco Respo	P36 Axonne Inc. <i>nent Status</i> D oder setting requeste		# <u>92</u>	Editoria

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

C/ 45 SC 45.2.1.19 Lo, William	15.2 P37 Axonne Inc.	L 24	# 93	C/ 125 SC 125.1 Zimmerman, George	P 59 CME:ADI,Aqua	L 15 antia,AP	# 144
Comment Type E Grammar is a bit confu	Comment Status D Ising.		Editorial		Comment Status D ack for Figure 125-1 are not a		
SuggestedRemedy Replace first sentence Bits 1.2312.3:2 contair Proposed Response PROPOSED ACCEPT	is the precoder setting request Response Status W	ed by the link	partner.	SuggestedRemedy Use fixed sizes for boxe	be annoying - you're going to es in the stack and frame "alig vidth and nice and straight. <i>Response Status</i> W	-	
C/ 45 SC 45.2.3	P 43	L1	# 112	PROPOSED ACCEPT Have found 2 volunteer	IN PRINCIPLE. rs to "fuss" with all figures to g	let them lined u	up for D1.1.
McClellan, Brett Comment Type E missing editorial instru	Marvell Comment Status D ctions for table 45-244		Editorial	C/ 125 SC 125.1.2 Wienckowski, Natalie Comment Type E	P 59 General Motors Comment Status D	L 49 s	# 83 Editori
SuggestedRemedy Insert editorial instructi prior to 45.2.3.76. Proposed Response	on "Change Table 45-244 as f Response Status W	ollows:" and m	ove instruction and text	Figure title was not upd SuggestedRemedy Remove " - Part 1 of 2"			
PROPOSED ACCEPT	· · · · · · · · · · · · · · · · · · ·	42, line 44.		Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 78 SC 78.3 Zimmerman, George	P 51 CME:ADI,Aqua	L 20 Intia,AP	# 140	C/ 125 SC 125.1.4 Zimmerman, George	P 60 CME:ADI,Aqua	L 31 antia,AP	# 145
SuggestedRemedy Change 149.4.2.5.10 t	Comment Status D cross reference will be 149.4.2 o 149.4.2.4.5 and delete highli		<i>Editorial</i> tion isn't going to	PHYs use 64B/65B T encoding or the FEC us	Comment Status D ng" doesn't adequately descril The other BASE-T PHYs are d sed. I suggest spelling out Re RS-FEC or the Reconciliation S	escribed eithe ed-Solomon s	r by the name of the to as not to confuse
change) Proposed Response	Response Status W IN PRINCIPLE.			<i>SuggestedRemedy</i> Change "using 64B/65t T1 and 5GBASE-T1	B encoding" to "using Reed-So	olomon encodi	ing" for both 2.5GBASE

C/ 125 SC 125.2.2 P 61 L 31 # 114 McClellan, Brett Marvell	C/ 149 SC 149.2 P68 L11 # 88 Lo, William Axonne Inc.
Comment Type E Comment Status D Editorial 125.5.2 should be 125.2.2	Comment Type E Comment Status D Editorial
SuggestedRemedy change "125.5.2" to "125.2.2"	SuggestedRemedy Clause 28 should be 98.4
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
C/ 149 SC 149.1 P 63 L 18 # 147 Zimmerman, George CME:ADI,Aquantia,AP CME:ADI,Aquantia,AP	C/ 149 SC 149.3.2.2.4 P 80 L 13 # 94 Lo, William Axonne Inc. 4 10
Comment TypeTComment StatusDEditorial"are defined in terms of performance requirements between the attachment points [Medium Dependent Interface (MDI)],". The MDI is the reference plane at which the PHY attaches to the medium. It is there whether or not we define a specific connector. Therefore, the performance requirements for a link segment are defined MDI to MDI.	Comment Type T Comment Status D Editorial Replace TBD in Figure 149-4 Also applies to Figure 149-5 SuggestedRemedy Editorial SuggestedRemedy TDDIa should be Editorial Editorial
SuggestedRemedy Change "between the attachment points [Medium Dependent Interface (MDI)]," to "are defined in terms of performance requirements between the Medium Dependent Interfaces" (no comma after)	TBD's should be Figure 149-6 and Table 149-1 Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT.	C/ 149 SC 149.3.2.2.16 P 86 L 32 # 53 Tu, Mike Broadcom
C/ 149 SC 149.1 P 63 L 20 # 148 Zimmerman, George CME:ADI,Aquantia,AP CME:ADI,Aquantia,AP	Comment TypeERComment StatusDEditorialI think the corrrect name is "tx_oam_field<9:0>"?
Comment Type E Comment Status D Editorial "as long as the normative requirements included in this clause are met." - you're referring here to what the conductors need to meet - to the requirements on the link segment - most of "this clause" defines the electrical parameters of the PHY. Better to reference just the link segment requirements.	SuggestedRemedy Change from "Link partner access field<9:0>" to "tx_oam_field<9:0>". Proposed Response Response Status W PROPOSED ACCEPT.
SuggestedRemedy Change "this clause" to a cross reference to 149.7	C/ 149 SC 149.3.4.4 P 94 L 19 # 58 Tu, Mike Broadcom
Proposed Response Response Status W PROPOSED ACCEPT.	Comment TypeERComment StatusDEditorialS_n is already defined in 149.3.4.1.
	SuggestedRemedy Delete this line
	Proposed Response Response Status W PROPOSED ACCEPT.
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wr SORT ORDER: Topic	

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

Cl 149 SC 149.3.4.4 Wienckowski, Natalie	P 94 General Motors	L19	# 72		Cl 149 SC 149.3 Wienckowski, Natalie	.4.5	P 94 General Moto	L 21 rs	# <u>73</u>
Comment Type E This is in section 149.3.	Comment Status D .4.1.			Editorial	Comment Type E This is in section 14		Status D		Eedito
SuggestedRemedy Delete section 149.3.4.4	4.				SuggestedRemedy Delete section 149.	3.4.5.			
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response PROPOSED ACCE	,	Status W		
C/ 149 SC 149.3.4.5 Tu, Mike	P 94 Broadcom	L 21	# 59		Cl 45 SC 45.2.1 Wienckowski, Natalie	1.192.3	P 34 General Moto	L 5 rs	# 82
Comment Type ER T_n is already defined in	Comment Status D n 149.3.4.2.			Editorial	Comment Type T I believe this is the should return to nor	standard statem			
SuggestedRemedy Delete this line					SuggestedRemedy	·····			
Proposed Response	Response Status W				may take many sec				type and temperature rom reset or low-power
PROPOSED ACCEPT.					mode. To: The data path	of the MultiGBAS	E-T1 PMA, dep	ending on type	and temperature, may
C/ 149 SC 149.3.8.2.	12 P103	L 2	# 79		To: The data path take upt to 100 ms	to run at optimur	n error ratio afte	0 71	and temperature, may eset or low-power mode
C/ 149 SC 149.3.8.2. Wienckowski, Natalie	12 P103 General Motors	L 2	# 79	Editorial	To: The data path take upt to 100 ms Proposed Response	to run at optimur <i>Response</i>		0 71	
C/ 149 SC 149.3.8.2. Wienckowski, Natalie Comment Type E	12 P103	L 2	# 79	Editorial	To: The data path take upt to 100 ms <i>Proposed Response</i> PROPOSED ACCE	to run at optimur <i>Response</i>	n error ratio afte <i>Status</i> W	r exiting from re	eset or low-power mod
<i>Cl</i> 149 <i>SC</i> 149.3.8.2. Wienckowski, Natalie	12 P103 General Motors	L 2	# <u>79</u>	Editorial	To: The data path take upt to 100 ms Proposed Response PROPOSED ACCE	to run at optimur <i>Response</i>	n error ratio afte Status W P 50	0 71	
Cl 149 SC 149.3.8.2. Wienckowski, Natalie Comment Type E Typo SuggestedRemedy	12 P103 General Motors				To: The data path take upt to 100 ms Proposed Response PROPOSED ACCE C/ 78 SC 78.2 Benyamin, Saied	to run at optimur <i>Response</i> EPT.	n error ratio afte <i>Status</i> W <i>P</i> 50 Aquantia	r exiting from re	# 124
Cl 149 SC 149.3.8.2. Wienckowski, Natalie Comment Type E Typo SuggestedRemedy Change "the number er	12 P103 General Motors Comment Status D				To: The data path take upt to 100 ms Proposed Response PROPOSED ACCE	to run at optimur <i>Response</i> EPT.	n error ratio afte Status W P 50	r exiting from re	eset or low-power mod
Cl 149 SC 149.3.8.2. Wienckowski, Natalie Comment Type E Typo SuggestedRemedy Change "the number er	12 P103 General Motors Comment Status D ror RS-FEC block errors" to "the Response Status W				To: The data path take upt to 100 ms Proposed Response PROPOSED ACCE C/ 78 SC 78.2 Benyamin, Saied	to run at optimur <i>Response</i> EPT.	n error ratio afte <i>Status</i> W <i>P</i> 50 Aquantia	r exiting from re	# 124
Cl 149 SC 149.3.8.2. Wienckowski, Natalie Comment Type E Typo SuggestedRemedy Change "the number en Proposed Response PROPOSED ACCEPT.	12 P103 General Motors Comment Status D ror RS-FEC block errors" to "the Response Status W				To: The data path take upt to 100 ms Proposed Response PROPOSED ACCE Cl 78 SC 78.2 Benyamin, Saied Comment Type TR	to run at optimur Response EPT. Comment	n error ratio afte Status W P 50 Aquantia Status D	r exiting from re	# 124
Cl 149 SC 149.3.8.2. Wienckowski, Natalie Comment Type E Typo SuggestedRemedy Change "the number en Proposed Response PROPOSED ACCEPT. Cl 149 SC 149.9.1	12 P103 General Motors Comment Status D ror RS-FEC block errors" to "the Response Status W	e number of	RS-FEC block of		To: The data path take upt to 100 ms Proposed Response PROPOSED ACCE Cl 78 SC 78.2 Benyamin, Saied Comment Type TR SuggestedRemedy 2.5GBase-T1 Min/M Proposed Response	to run at optimur Response PT. Comment Max should both I Response	n error ratio afte Status W P50 Aquantia Status D De 10.24 Status W	r exiting from re	# 124
Cl 149 SC 149.3.8.2. Wienckowski, Natalie Comment Type E Typo SuggestedRemedy Change "the number en Proposed Response PROPOSED ACCEPT.	12 P103 General Motors Comment Status D ror RS-FEC block errors" to "the Response Status W P144 HARTING Techno Comment Status D	e number of	RS-FEC block of		To: The data path take upt to 100 ms Proposed Response PROPOSED ACCE C/ 78 SC 78.2 Benyamin, Saied Comment Type TR SuggestedRemedy 2.5GBase-T1 Min/M	to run at optimur Response PT. Comment Max should both I Response PT IN PRINCIPI	n error ratio afte Status W P50 Aquantia Status D De 10.24 Status W LE.	r exiting from re	# <u>124</u> <i>E</i>
Cl 149 SC 149.3.8.2. Wienckowski, Natalie Comment Type E Typo SuggestedRemedy Change "the number en Proposed Response PROPOSED ACCEPT. Cl 149 SC 149.9.1 Fritsche, Matthias Comment Type E IEC 60950-1 is replaced SuggestedRemedy	12 P103 General Motors Comment Status D ror RS-FEC block errors" to "the Response Status W P144 HARTING Techno Comment Status D	e number of ∠ 5 ology	RS-FEC block of	errors".	To: The data path take upt to 100 ms Proposed Response PROPOSED ACCE Cl 78 SC 78.2 Benyamin, Saied Comment Type TR SuggestedRemedy 2.5GBase-T1 Min/M Proposed Response PROPOSED ACCE	to run at optimur Response PT. Comment Max should both I Response PT IN PRINCIPI	n error ratio afte Status W P50 Aquantia Status D De 10.24 Status W LE.	r exiting from re	# <u>124</u> <i>E</i>

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

Topic **EEE**

<i>Cl</i> 78 <i>SC</i> 78.2 Benyamin, Saied	P 51 Aquantia	L12	# 125		C/ 1 SC 1.4.82a Anslow, Pete	a P22 Ciena	L 20	# 2
Comment Type TR	Comment Status D			EEE	Comment Type E IEEE Std 802.3cb-20	Comment Status D 18 has now been approved	ł.	E
SuggestedRemedy 10GBaes-T1 Min/Max					SuggestedRemedy Change all occurrenc throughout the draft.	es of "IEEE Std 802.3cb-2	01x" to "IEEE Std 8	302.3cb-2018"
Proposed Response PROPOSED ACCEPT See comment 124.	Response Status W IN PRINCIPLE.				Proposed Response PROPOSED ACCEF	Response Status W		
<i>Cl</i> intro <i>SC</i> intro Wienckowski, Natalie	P 21 General Motors	L 27	# 80		Change 802.3cb-201 page 22, line 20 page 22, line 26	x to 802.3cb-2018 on:		
Comment Type E Typo SuggestedRemedy	Comment Status D			EZ	page 58, line 8 page 58, line 10 page 60, line 4 page 60, line 19			
Change "2018compret Proposed Response PROPOSED ACCEPT	hnsive" to "comprehensive" to m Response Status W	atch template	<u>).</u>		page 60, line 44 C/ 1 SC 1.4.344 Anslow, Pete	a P22 Ciena	L31	# 3
C/ 1 SC 1.3 Anslow, Pete	P 22 Ciena	L 8	# 1		Comment Type E IEEE Std 802.3bt-20 now 1.4.333	Comment Status D 18 has deleted definition 1.	4.294, so the defin	E. ition for MultiGBASE-T is
on either side. This is SuggestedRemedy	Comment Status D in-force standard have an em da also true for other "-" separators being added replace " - " before	in the title.				for MultiGBASE-T1 after 1. letion of 1.4.294 by IEEE S		`
em dash with no space Proposed Response					Proposed Response PROPOSED ACCEF	<i>Response Status</i> W T.		
PROPOSED ACCEPT					C/ 1 SC 1.4 McClellan, Brett	P 22 Marvell	L34	# 108
					Comment Type E typo	Comment Status D		E
					SuggestedRemedy change "of1000" to "	of 1000"		
					Proposed Response PROPOSED ACCEF	Response Status W		

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

C/ 1 SC 1.4.344a Zimmerman, George	P 22 CME:ADI,Aqu	L 34 antia,AP	# 165		C/ 30 SC 30 Zimmerman, George	Р 23 СМЕ:ADI,Aqu	L 3 Jantia,AP	# 166
Comment Type E Missing space "of1000"	Comment Status D			EZ	Comment Type E Con "[Notes for editors (through) per its text. Also applies to cla	•	ote isn't to be in	E cluded in review drafts,
SuggestedRemedy Change "of1000" to "of 1	000"				SuggestedRemedy			
Proposed Response PROPOSED ACCEPT.	Response Status W				Delete "[Notes for editors m Proposed Response Respon	odified.]" P23 L3 to 9. bonse Status W	Make same de	eletion in Clause 78, P50
C/ 1 SC 1.4.344a Maguire, Valerie	P 22 The Siemon C	L 35 Company	# 101		C/ 44 SC 44.1.4.4 Wienckowski, Natalie	P 29 General Moto	L 26	# 81
Comment Type E Missing space	Comment Status D			EZ	,	mment Status D		E
SuggestedRemedy Replace, "of1000 Mb/s" v	with "of 1000 Mb/s"				SuggestedRemedy Fix line width to match the res	t of the table		
Proposed Response PROPOSED ACCEPT.	Response Status W					oonse Status W		
C/ 1 SC 1.4.495b Anslow, Pete	P 22 Ciena	L 38	# 4		CI 23 SC 23	P30	L3	# 5
Comment Type E	Comment Status D has deleted definition 1.4.29	4, so the definit	ion for Type F PoE	<i>EZ</i> DL	Anslow, Pete Comment Type E Cou The "Notes for Editors" should	Ciena <i>mment Status</i> D I not be in the draft		E
SuggestedRemedy					SuggestedRemedy			
In the editing instruction Renumber the new defini	change: "1.4.495a" to "1.4.4 ition as 1.4.494b	l94a"			Delete the "Notes for Editors"	04-4		
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response Res PROPOSED ACCEPT IN PR This is actually Clause 30 on			
C/ 00 SC 0 McClellan, Brett	P 23 Marvell	L 3	# 109					
Comment Type E this note wasn't intended	Comment Status D to be included in draft 1.0			EZ				
SuggestedRemedy remove the editor's note.	Do the same on page 50 li	ne 3.						
Proposed Response PROPOSED ACCEPT.	Response Status W							

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

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

	C 45.2.1	P31	L8	# 6	C/ 45 SC 45.2.1	P31	L 29	# 84	
Anslow, Pete		Ciena			Lo, William	Axonne Inc.			
Comment Type	ε	Comment Status D		EZ	Comment Type E	Comment Status D			ΕZ
		numbers to indicate a range	is discouraged b	by the IEEE style guide.	45.2.1.1988 should b	e 45.2.1.198			
	not a valid ed two ":" at the e	iting instruction.			SuggestedRemedy				
SuggestedRem					See comment				
00	e editing instr	uction to:			Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			
0	0	e 45-3 for registers 1.2309 to	1.2316 after the	e row for register	PROPOSED ACCEP	•			
1.2308, and	d change the	reserved row as shown (und	changed rows no	ot shown):			(00	" 100	
Proposed Resp		Response Status W			C/ 45 SC 45.2.1	P 31	L29	# 130	
PROPOSE	ED ACCEPT.				Zimmerman, George	CME:ADI,Aqu	anua,AP		
C/ 45 S	C 45.2.1	P 31	L17	# 7	Comment Type E	Comment Status D		c ,	EZ
Anslow, Pete		Ciena			45.2.1.1988 has an e	extra "8" (probably sitting there	next to the cros	s reference)	
Comment Type	e E	Comment Status D		EZ	SuggestedRemedy				
51		.2309 to 1.2316 are associat	ed with an "Inse		Change to cross-ref f	or 45.2.1.198			
	not be underli				Proposed Response	Response Status W			
SuggestedRem	nedy				PROPOSED ACCEP	Т.			
Remove th	ne underline fr	om the rows for registers 1.2	2309 to 1.2316		C/ 45 SC 45.2.1	P 31	L32	# 129	
Proposed Resp	oonse	Response Status W			Zimmerman, George	CME:ADI,Aqu	antia,AP		
PROPOSE	ED ACCEPT.				Comment Type E	Comment Status D			ΕZ
	0 45 0 4	504	/ 05		"2317through 1.3276				
	C 45.2.1	P 31 Ciena	L 25	# 8	SuggestedRemedy	5 1			
Anslow, Pete	_				Change "2317through	n" to "2317 through"			
Comment Type		Comment Status D		EZ	с с	C C			
		2313, "45.2.1.196" should b 2315, "45.2.1.1988" has a s			Proposed Response PROPOSED ACCEP	Response Status W T.			
SuggestedRem	nedy								
		2313, make "45.2.1.196" a c 2315, delete the "8" at the e		88"					
Proposed Resp	oonse	Response Status W							
		-							

PROPOSED ACCEPT.

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

	, , , , , , , , , , , , , , , , , , ,		0	
C/ 45 SC 45.2.1.	185 P32	L 29	# 9	C/ 45 SC 45.2.1.192 P32 L48 # 12
Anslow, Pete	Ciena			Anslow, Pete Ciena
Comment Type E	Comment Status D		EZ	Comment Type E Comment Status D E
space between "1" a	l row in Table 45-149 appears nd "x" and a strikethrough spac			In the text of 45.2.1.192 "MultiGBASE-T1 PMA register" should be "MultiGBASE-T1 PMA control register"
characters				SuggestedRemedy
SuggestedRemedy				Change:
	e from the strikethrough space between the two "x" characters		d "x" and add a	"MultiGBASE-T1 PMA register" to: "MultiGBASE-T1 PMA control register"
Proposed Response	Response Status W			Proposed Response Response Status W
PROPOSED ACCEP				PROPOSED ACCEPT.
C/ 45 SC 45.2.1.	185.2 P32	L39	# 10	C/ 45 SC 45.2.1.192 P33 L11 # 13
Anslow, Pete	Ciena			Anslow, Pete Ciena
Comment Type E	Comment Status D		EZ	Comment Type E Comment Status D E
SuggestedRemedy In the editing instruct "(as modified by 802				SuggestedRemedy Make the "Bit(s)" column wider so that "1.2309.13:12" does not wrap across two lines Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response	Response Status W			C/ 45 SC 45.2.1.192.1 P33 L32 # 132
PROPOSED ACCER	РТ.			Zimmerman, George CME:ADI,Aquantia,AP
C/ 45 SC 45.2.1.		L 45	# 11	Comment Type E Comment Status D E. "PMD/PMA" everywhere else it is "PMA/PMD"
Anslow, Pete	Ciena			SuggestedRemedy
Comment Type E	Comment Status D		EZ	
In the editing instruct through 45.2.1.196"	ion "Insert 45.2.1.192 and 45.2	.1.196" should	be "Insert 45.2.1.192	Proposed Response Response Status W
SuggestedRemedy				PROPOSED ACCEPT.
In the editing instruct "Insert 45.2.1.192 ar "Insert 45.2.1.192 th	d 45.2.1.196" to:			
Proposed Response	Response Status W			

PROPOSED ACCEPT.

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

C/ 45 SC 45.2.1.192.1 P 33 L Anslow, Pete Ciena	.35 # 14		C/ 45 SC 45.2.1.1 Anslow, Pete	92.4 P 34 Ciena	L 14	# 17
Comment Type E Comment Status D Notes should have paragraph tag "Note" applied		EZ	Comment Type E "149.3.2.2.19" should	Comment Status D be a cross-reference		
SuggestedRemedy Apply paragraph tag "Note" to the note.			SuggestedRemedy Make "149.3.2.2.19" a	cross-reference		
Proposed Response Response Status W PROPOSED ACCEPT.			Proposed Response PROPOSED ACCEP1	Response Status W		
C/ 45 SC 45.2.1.192.3 P 34 L Anslow, Pete Ciena	2 # 15		C/ 45 SC 45.2.1.1 Anslow, Pete	93 <i>P</i> 34 Ciena	L 31	# 18
Comment Type E Comment Status D Strange paragraph formatting at the top of page 34. "The default value of bit 1.2309.11 is zero." appears to be		EZ	Comment Type E In Table 45-155b, "Mu	Comment Status D ItiGBASE-T1 OAM Ability"	should not have a	capital A in Ability
the spacing is incorrect. SuggestedRemedy	a separate paragraph, bi	ut II SO,	SuggestedRemedy Change to "MultiGBAS	SE-T1 OAM ability" as per t	he heading of 45.2	2.1.193.1
Fix the formatting at the top of page 34			Proposed Response PROPOSED ACCEP1	Response Status W		
Proposed Response Response Status W PROPOSED ACCEPT.			C/ 45 SC 45.2.1.1		L 48	# 20
C/ 45 SC 45.2.1.192.4 P 34 L Zimmerman, George CME:ADI,Aquantia,A	. 14 # 133 AP		Anslow, Pete Comment Type E	Ciena Comment Status D		
Comment Type E Comment Status D "149.3.2.2.19" should be an active cross-reference, but isn	't.	EZ	Double full stop "" SuggestedRemedy			
SuggestedRemedy Make "149.3.2.2.19" an active cross reference			Delete one "." Proposed Response	Response Status W		
Proposed Response Response Status W PROPOSED ACCEPT.			PROPOSED ACCEPT		L 45	# 21
			Anslow, Pete	Ciena		
			Comment Type E Double full stop ""	Comment Status D		
			SuggestedRemedy			
			Delete one "."			

Topic **EZ**

C/ 45 SC 45.2.1.19 Anslow, Pete	6.1 <i>P</i> 37 Ciena	L 48	# 22		Cl 45 SC Anslow, Pete	45.2.1.199	P 38 Ciena	L 32	# 26	
Comment Type E In the heading of 45.2.1	Comment Status D 1.196.1, "(1.2315.15:13)" sho	ould be "(1.2313	3.15:13)"	EZ	<i>Comment Type</i> it is preferabl	E e to use "R	Comment Status D «" rather than "RX" to be a	n abbreviation o	of receiver.	E.
SuggestedRemedy In the heading of 45.2.1 Proposed Response PROPOSED ACCEPT.	1.196.1, change "(1.2315.15 Response Status W	:13)" to "(1.2313	3.15:13)"		SuggestedRemed Change "RX" Table 45-3 Proposed Respon PROPOSED	' to "Rx" in 3 nse	β places in 45.2.1.199 (incl Response Status W	luding the title) t	o align with the r	name in
C/ 45 SC 45.2.1.19 Anslow, Pete	7 P38 Ciena	L 21	# <u>2</u> 4			45.2.3	P38 Ciena	L 44	# 27	
Comment Type E	Comment Status D		a different line from	EZ	Comment Type	Е	Comment Status D			E.
number.	as a minus sign and also it s	snouid not be on		n the	"adjust" is no	t a valid edi	umbers to indicate a range ting instruction 2318 to 1 2324	e is discouraged	d by the IEEE sty	le guide
number. SuggestedRemedy Since this draft appears changing the minus sig Document, Text Option	s to be written using FrameM n to an en-dash (Ctrl-q Shft- s, en-dash does not appear	/laker version 12 -p) and ensuring	, this can be fixed b that under Format,	by	"adjust" is no The inserted SuggestedRement In the editing	t a valid edi rows are 1 <i>.:</i> dy instruction,		Ū		C
number. uggestedRemedy Since this draft appears changing the minus sig Document, Text Option	s to be written using FrameM n to an en-dash (Ctrl-q Shft- s, en-dash does not appear <i>Response Status</i> W	/laker version 12 -p) and ensuring	, this can be fixed b that under Format,	oy	"adjust" is no The inserted <i>SuggestedReme</i>	t a valid edi rows are 1.3 dy instruction, hange the" nse	ting instruction 2318 to 1.2324	Ū		U
number. uggestedRemedy Since this draft appears changing the minus sig Document, Text Option roposed Response PROPOSED ACCEPT. 45 SC 45.2.1.19	s to be written using FrameM n to an en-dash (Ctrl-q Shft- s, en-dash does not appear <i>Response Status</i> W 8 <i>P</i> 38 Ciena	/laker version 12 -p) and ensuring	, this can be fixed b that under Format,	ру 	"adjust" is no The inserted SuggestedRement In the editing "adjust" to "c Proposed Respont PROPOSED CI 45 SC	t a valid edi rows are 1.3 dy instruction, hange the" nse	ting instruction 2318 to 1.2324 change: "1.2318 - 1.2320	Ū		Ū
number. <i>aggestedRemedy</i> Since this draft appears changing the minus sig Document, Text Option <i>roposed Response</i> PROPOSED ACCEPT. 45 SC 45.2.1.19 nslow, Pete	s to be written using FrameM n to an en-dash (Ctrl-q Shft- s, en-dash does not appear <i>Response Status</i> W 8 <i>P</i> 38 Ciena <i>Comment Status</i> D	Maker version 12 p) and ensuring in the Allow Line	this can be fixed b that under Format, Breaks After list.	EZ	"adjust" is no The inserted SuggestedRement In the editing "adjust" to "c Proposed Respon PROPOSED C/ 45 SC Anslow, Pete Comment Type	t a valid edi rows are 1.2 dy instruction, hange the" nse ACCEPT. 45.2.3 E	ting instruction 2318 to 1.2324 change: "1.2318 - 1.2320 <i>Response Status</i> W <i>P</i> 39 Ciena <i>Comment Status</i> D	" to: "1.2318 to	1.2324" and cha # 29	nge
number. uggestedRemedy Since this draft appears changing the minus sig Document, Text Option troposed Response PROPOSED ACCEPT. 45 SC 45.2.1.19 nslow, Pete tomment Type E IEEE uses an en-dash uggestedRemedy	s to be written using FrameM n to an en-dash (Ctrl-q Shft- s, en-dash does not appear <i>Response Status</i> W 8 <i>P</i> 38 Ciena <i>Comment Status</i> D	Maker version 12 ·p) and ensuring in the Allow Line <i>L</i> 28	this can be fixed b that under Format, Breaks After list. # <u>25</u>	EZ	"adjust" is no The inserted SuggestedRement In the editing "adjust" to "c Proposed Respond PROPOSED CI 45 SC Anslow, Pete Comment Type The subclaust 45.2.3.80 in t	t a valid edi rows are 1.2 dy instruction, hange the" nse ACCEPT. 45.2.3 E se column o the inserted	ting instruction 2318 to 1.2324 change: "1.2318 - 1.2320 <i>Response Status</i> W <i>P</i> 39 Ciena <i>Comment Status</i> D f Table 45-176 is missing	" to: "1.2318 to	1.2324" and cha # 29	nge
number. SuggestedRemedy Since this draft appears changing the minus sig Document, Text Option Proposed Response PROPOSED ACCEPT. Cl 45 SC 45.2.1.19 Inslow, Pete Comment Type E IEEE uses an en-dash SuggestedRemedy	s to be written using FrameM n to an en-dash (Ctrl-q Shft- is, en-dash does not appear <i>Response Status</i> W 8 <i>P</i> 38 Ciena <i>Comment Status</i> D as a minus sign to an en-dash (Ctrl-q Shft-p <i>Response Status</i> W	Maker version 12 ·p) and ensuring in the Allow Line <i>L</i> 28	this can be fixed b that under Format, Breaks After list. # <u>25</u>	EZ	"adjust" is no The inserted SuggestedRement In the editing "adjust" to "c Proposed Respont PROPOSED Cl 45 SC Anslow, Pete Comment Type The subclaust 45.2.3.80 in t	t a valid edi rows are 1.2 dy instruction, hange the" nse ACCEPT. 45.2.3 E se column o the inserted dy use column	ting instruction 2318 to 1.2324 change: "1.2318 - 1.2320 <i>Response Status</i> W <i>P</i> 39 Ciena <i>Comment Status</i> D f Table 45-176 is missing rows of Table 45-176 add under	" to: "1.2318 to <i>L</i> 14 cross-reference	1.2324" and cha # 29 s to 45.2.3.76 th	nge E rough

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

C/ 45 SC 45.2.3 P 39 L 20 # 30 Anslow, Pete Ciena Ciena	C/ 45 SC 45.2.3.77 P 43 L 47 # 35 Anslow, Pete Ciena
Comment Type E Comment Status D The entry for "3.2318 through 3.32767" in Table 45-176 should be shown as changing to "3.2325 through 3.32767"	Comment Type E Comment Status D II "MultiGBASE-T1" should not split across two lines
SuggestedRemedy Show the "18" in strikethrough and add "25" in underline font	SuggestedRemedy Replace the hyphen with a non-breaking hyphen [Esc - h (three key presses)]
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
C/ 45 SC 45.2.3 P 39 L 21 # <u>31</u>	CI 45 SC 45.2.3.78.1 P 44 L 47 # 36 Anslow, Pete Ciena Ci
Anslow, Pete Ciena Comment Type E Comment Status D The editing instruction says "unchanged rows not shown" so the last row of Table 45-176 should just contain ""	Comment Type E Comment Status D I Notes should have paragraph tag "Note" applied SuggestedRemedy I
SuggestedRemedy Replace the last row with "" Proposed Response Response Status W	Apply paragraph tag "Note" to the note. <i>Proposed Response Response Status</i> W PROPOSED ACCEPT.
	C/ 45 SC 45.2.3.80.2 P47 L23 # 37 Anslow, Pete Ciena
C/ 45 SC 45.2.3.76 P43 L 31 # 34 Anslow, Pete Ciena	Comment Type E Comment Status D IEEE uses an en-dash as a minus sign
Comment Type E Comment Status D In Table 45-244a, the "Name" column has unnecessary line wraps.	SuggestedRemedy
SuggestedRemedy Increase the width of the "Name" column and decrease the width of the "Description" column to remove the line wraps	Change the minus sign to an en-dash (Ctrl-q Shft-p) here and also on line 24 <i>Proposed Response</i> Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT.	Cl 45 SC 45.2.9.2.7 P48 L 35 # 38 Anslow, Pete Ciena
	Comment Type E Comment Status D I IEEE does not use the term "section" in editing instructions. Space missing before "(" I
	SuggestedRemedy Change "Change Section 45.2.9.2.7(as" to "Change 45.2.9.2.7 (as"
	Proposed Response Response Status W PROPOSED ACCEPT.

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

C/ 45 SC 45.2.9.3.2		L 50	# 39		C/ 125 SC 125.1.4	<i>P</i> 61	L18	# 146	
Anslow, Pete	Ciena				Zimmerman, George	CME:ADI,Aqu	iantia,AP		
Comment Type E	Comment Status D			ΕZ	Comment Type T	Comment Status D			ΕZ
IEEE does not use the Space missing before "	term "section" in editing instr ("	uctions.			Table 125-2 is missing 2.5GBASE-T1 and 5G	the entries in the RS and XG BASE-T1.	GMII columns for	r clause 46 for both	ı
SuggestedRemedy					SuggestedRemedy				
Change "Change Section	on 45.2.9.3.2(as…" to "Chan	ge 45.2.9.3.2 (a	s"		Add "M" under RS for	both PHYs and "O" under XG	MII for both PH	Ys.	
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response PROPOSED ACCEPT	Response Status W			
C/ 78 SC 78.3	P51	L17	# 40		C/ 149 SC 149.1.3	P63	L 46	# 149	
Anslow, Pete	Ciena				Zimmerman, George	CME:ADI,Aqu	•		
				EZ	<i>i</i> o	Comment Status D			ΕZ
Comment Type E	Comment Status D	untions		EZ	Comment Type E		brooking		EZ
Space missing before "	term "section" in editing instr ("	uctions.			Spaces between num	pers and units should be non-	breaking.		
SuggestedRemedy	(SuggestedRemedy				
Delete "section" here a	nd on line 22				•	5 Gb/s (and 2.5 Gb/s and 10	,	0 ()	-
					number-unit combinati	similarly throughout the draft.	(same uning wit	in 15 m, and other	
Proposed Response	Response Status W				Proposed Response	Response Status W			
PROPOSED ACCEPT.					PROPOSED ACCEPT	,			
C/ 125 SC 125.1.4	P60	L 19	# 113			•			
McClellan, Brett	Marvell		-		C/ 149 SC 149.1.3	P63	L 53	# 150	
Comment Type E	Comment Status D			F7	Zimmerman, George	CME:ADI,Aqu	uantia,AP		
unnecessary period				62	Comment Type E	Comment Status D			ΕZ
					Space missing "equal	to10"			
					SuggestedRemedy				
SuggestedRemedy									
change ":." to ":"					,	equal to 10"			
,	Response Status W				Change "equal to10" to Proposed Response	o "equal to 10" Response Status W			

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

Cl 149 SC 149.3.3 Wienckowski, Natalie	P 92 General Motors	L 47	# 70		C/ 149 SC 149.9.2.1 Maguire, Valerie	P 144 The Siemon (L 25 Company	# 106	
Comment Type E "Annex 149-4" link to Fig	Comment Status D ure 149-4 doesn't belong.			EZ	Comment Type E List complete Standard	Comment Status D Is reference (note: these Sta by Maintenance Request 13	ndards were ad	ded to the main	Ež
SuggestedRemedy Delete "Annex 149-4". Proposed Response PROPOSED ACCEPT.	Response Status W				60068-2–1, IEC 60068- 60068-2–64, and IEC 6	4 and IEC 60068-2–1/27/30/3 -2–27, IEC 60068-2–30, IEC 50068-2–78"			
C/ 149 SC 149.3.8.2.1 Wienckowski, Natalie	2 P102 General Motors	L 51	# 76		Proposed Response PROPOSED ACCEPT.	Response Status W			
Comment Type E Need tab in front of OAM	Comment Status D <13:12><7:0> to align text co	rrectly.		EZ	<i>Cl</i> 149 SC 149.9.2.2 Maguire, Valerie	P 144 The Siemon (L 41 Company	# 102	
SuggestedRemedy Add tab.					Comment Type E List complete Standard	Comment Status D Is reference			EZ
Proposed Response PROPOSED ACCEPT.	Response Status W				SuggestedRemedy Replace, "IEC 61967–1	I/4" with "IEC 61967–1, IEC	61967–4"		
C/ 149 SC 149.4.5 Wienckowski, Natalie	P 129 General Motors	L 7	# 77		Proposed Response PROPOSED ACCEPT.	Response Status W			
Comment Type E Remove Editor's note as	Comment Status D it no longer applies.			EZ	C/ 149 SC 149.9.2.2 Maguire, Valerie	P 144 The Siemon (L 42 Company	# 103	
SuggestedRemedy Remove box around note	e and all contents.				Comment Type E List complete Standard	Comment Status D Is reference			EZ
Proposed Response PROPOSED ACCEPT.	Response Status W				SuggestedRemedy Replace, "IEC 62132–1	I/4" with "IEC 62132–1, IEC	62132–4"		
C/ 149 SC 149.7 Wienckowski, Natalie	P 138 General Motors	L7	# 78		Proposed Response PROPOSED ACCEPT.	Response Status W			
Comment Type E Remove Editor's note as	Comment Status D it no longer applies.			EZ					
SuggestedRemedy Remove box around note	e and all contents.								
Proposed Response PROPOSED ACCEPT.	Response Status W								

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

Topic **EZ**

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

C/ 149 SC 149.9.2.2 P 144 L 43 # 104 Maguire, Valerie The Siemon Company		C/ 45 SC 45.2.1.194 P 36 L 5 # 91 Lo, William Axonne Inc. Axonne Inc.
Comment Type E Comment Status D List complete Standards reference SuggestedRemedy	EZ	Comment TypeTComment StatusDInterleaThis comment applies to 45.2.1.194 and 45.2.1.195We defined RS interleaving but have not assigned registers to them.
Replace, "ISO 10605 and IEC 61000-4-2/3" with "ISO 10605, IEC 61000-4-2, IEC 61 3" Proposed Response Response Status PROPOSED ACCEPT. C/ 149 SC 149.9.2.2 P144 Lat # 105 Agguire, Valerie The Siemon Company Comment Type E Comment Type E Comment Status D List complete Standards reference SuggestedRemedy Replace, "IEC 62215-3 and ISO 7637-2/3" with "IEC 62215-3, ISO 7637-2, and ISO	EZ	SuggestedRemedy Assign to repsective tables 1.2311.12:11 - Interleave Requested 1.2312.12:11 - Link partner interleave Requested For both registers 00 = L=4 for 10GBASE-T1, L=2 for 5GBASE-T1 (Reserved for 2.5GBASE-T1) 01 = L=2 for 10GBASE-T1, L=1 for 5GBASE-T1 (Reserved for 2.5GBASE-T1) 10 = L=1 for 10GBASE-T1 (Reserved for 5GBASE-T1 and 2.5GBASE-T1) 11 = Reserved 45.2.1.194.x Interleave Requested (1.2311.12:11) Bits 1.2311.12:11 control the Reed Solomon interleave setting requested by the PHY as described in 149.3.2.2.17. This is communicated to the link partner via Infofields as specified in 149.4.2.4.3.
Proposed Response Response Status W PROPOSED ACCEPT.		45.2.1.195.x Link partner Interleave Requested (1.2312.12:11) Bits 1.2312.12:11 contains the Reed Solomon interleave setting requested by the link partneras described in 149.3.2.2.17. This is communicated by the link partner via
C/ 149 SC 149.10. P145 L28 # 107		Infofields as specified in 149.4.2.4.3.
Aguire, Valerie The Siemon Company		Proposed Response Response Status W
Comment Type E Comment Status D Incorrect formatting for table contents SuggestedRemedy Format the contents of Table 149-10 as Times New Roman 9.0pt (I think this can be accomplished by applying Paragraph Tag: Body)	EZ	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. x will be 1 and all other subclauses of 45.2.1.194 and 45.2.1.195 will be incremented. In addition to the proposed text in the Suggested Remedy, add the following additional text in 45.2.1.194.1 45.2.1.195.1: Note, these bits are unused for 2.5GBASE-T1. For 2.5GBASE-T11.2311.12:11 shall be set to 00. and 45.2.1.195.1: Note, these bits are unused for 2.5GBASE-T1. For 2.5GBASE-T1. Sole, these bits are unused for 2.5GBASE-T1. For 2.5GBASE-T1.2312.12:11 shall be ignored and interleaving shall be 1.
omment Type E Comment Status D Incorrect formatting for table contents uggestedRemedy Format the contents of Table 149-10 as Times New Roman 9.0pt (I think this can be		PROPOSED ACCEPT IN PRINCIPLE. x will be 1 and all other subclauses of 45.2.1.194 and 45.2.1.195 will be incremented. In addition to the proposed text in the Suggested Remedy, add the following additional text in 45.2.1.194.1 45.2.1.195.1: Note, these bits are unused for 2.5GBASE-T1. For 2.5GBASE-T11.2311.12:11 shall be set to 00. and 45.2.1.195.1: Note, these bits are unused for 2.5GBASE-T1. For 2.5GBASE-T1. Sole, these bits are unused for 2.5GBASE-T1. For 2.5GBASE-T1.2312.12:11 shall be ignored and interleaving shall be 1.C/149SC 149.3.2.2P59L1#120
omment Type E Comment Status D Incorrect formatting for table contents uggestedRemedy roggestedRemedy Format the contents of Table 149-10 as Times New Roman 9.0pt (I think this can be accomplished by applying Paragraph Tag: Body) roposed Response Response Status W		PROPOSED ACCEPT IN PRINCIPLE. x will be 1 and all other subclauses of 45.2.1.194 and 45.2.1.195 will be incremented. In addition to the proposed text in the Suggested Remedy, add the following additional text in 45.2.1.194.1 45.2.1.195.1: Note, these bits are unused for 2.5GBASE-T1. For 2.5GBASE-T11.2311.12:11 shall be set to 00. and 45.2.1.195.1: Note, these bits are unused for 2.5GBASE-T1. For 2.5GBASE- T11.2312.12:11 shall be ignored and interleaving shall be 1.

Topic Interleave

C/ 149 SC 149.1.3 P 64 L 1 # 43 Tu, Mike Broadcom	C/ 149 SC 149.3.2.2 P79 L1 # 71 Wienckowski, Natalie General Motors General Motors T T T
Comment Type T Comment Status D Interleave	Comment Type T Comment Status D Interleave
Interleaving may be needed to achieve target BER performance	Agreed the only inerleavers to be used are 1, 2 and 4.
SuggestedRemedy from: " each group of 50 64B/65B blocks. The PAM4 mapping, scrambler, RS-FEC, and	SuggestedRemedy Remove highlight and change text to "1, 2 and 4".
PAM4" to: "each group of 50 64B/65B blocks, plus optional interleaving. The PAM4 mapping, scrambler, RS-FEC, interleaver, and PAM4"	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment #49.
Proposed Response Response Status W PROPOSED ACCEPT.	C/ 149 SC 149.3.2.2.17 P89 L31 # 45
C/ 149 SC 149.1.3.1 P65 L25 # 44	Tu, Mike Broadcom
Tu, Mike Broadcom	Comment Type TR Comment Status D Interleave
Comment Type E Comment Status D Interleave	In Figure 149-9, certain indices of the input and output sequences are incorrect.
Interleaving should be mentioned here as well.	SuggestedRemedy
SuggestedRemedy	For "RS Encoder #L" input, Change from: "m_{326xL}, m_{325xL},, m_L"
Change from: "Next, a 10-bit OAM field is appended and then 340 parity bits from an RS-	To: "m_{325xL}, m_{324xL},, m_0".
FEC (360, 326, 2^10) are appended to create a 3600 bit block (duration 320ns at 10Gb/s)."	
To: "Next, a 10-bit OAM field is appended to form a 3260 bit block. L of these 3260 bit	For "RS Encoder #L" output, Change from: "m_{326xL}, m_{325xL},, m_L, p_{L,33},, p_{L,0}" To: "m_{325xL}, m_{324xL},, m_0, p_{L,33},, p_{L,0}"
blocks are formed into a RS-FEC input superframe, then encoded by the RS-FEC (360, 326, 2^10) and the round-robin interleaving as described in 149.3.2.2.17. The RS-FEC	
output superframe consists of L x 3600 bits (duration = L x 320ns at 10Gb/s)."	Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W	
PROPOSED ACCEPT.	C/ 149 SC 149.3.2.2.17 P89 L 32 # 97
C/ 149 SC 149.3.2.2 P79 L1 # 49	Lo, William Axonne Inc.
Tu, Mike Broadcom	Comment Type T Comment Status D Interleave
Comment Type TR Comment Status D Interleave	Indexing incorrect in Figure 149-9 for Encoder #L
Supported interleaving depthes depend on the PHY speed.	SuggestedRemedy
SuggestedRemedy	Change m326xL, m325xL,, mL
Change " and the possible choices of L are 1, 2, 4, and 8, which"	(2 instances to the left and right of the encoder #L) to m325xL, m325xL,, m0
To: " and the possible choices of L are: 1 for 2.5GBASE-T1, 1 or 2 for 5GBASE-T1, and 1, 2, or 4 for 10GBASE-T1, which"	Proposed Response Response Status Z PROPOSED REJECT.
Proposed Response Response Status W	This comment was WITHDRAWN by the commenter.
PROPOSED ACCEPT IN PRINCIPLE. Make Suggested Remedy and remove highlighting.	See commen #45 for resolution.
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wr SORT ORDER: Topic	

			-								
C/ FM SC 0 den Besten, Gerrit	P1 NXP Semiconduc	L ctors	# 175		C/ 1 den Besten	SC 1.4 .	344a	P 22 NXP Semicor	L 34 nductors	# 178	
	Comment Status D ly reads as: Physical Layer Spec Than 1 Gb/s Automotive Etherr		lanagement	late	Comment 7 of1000 Suggestedl	Mb/s	С	omment Status D			late
"Greater than 1Gbps" v	specify 2.5/5/10Gbps in this clau with "2.5, 5, and 10 Gbps". If the andardized in the future, it will ge Response Status W	re will another A	utomotive Ethe	rnet	of 1000 Proposed F PROPO) Mb/s Response	CEPT IN P	esponse Status W RINCIPLE.			
PROPOSED REJECT.	1	h it is.			C/ 30 den Besten	SC 30 , Gerrit		P23 NXP Semicor	L 3 nductors	# 179	
C/ FM SC 0 den Besten, Gerrit	P 2 NXP Semiconduc	L 3 ctors	# 176		Comment 7 [Notes	51		omment Status D included in the publishe	ed draft - not eve	en D1.0!)□	late
management	Comment Status D Gb/s Physical Layer I Layer (PHY) and 10 Gb/s Phys on on automotive cabling in an a	• • • •		<i>late</i> and	Proposed F PROPC	to delete?' Response DSED ACC	Re	esponse Status W RINCIPLE. 66.			
parameters for single b	and 10Gbps Physical Layer (PH alanced pair link segments and				<i>Cl</i> 44 den Besten	SC 44.1 , Gerrit	.4.4	P 29 NXP Semicor	L 10 nductors	# 180	
Proposed Response PROPOSED ACCEPT See Comment #164.	Response Status W IN PRINCIPLE.				Comment 7 64B/65	51	С	omment Status D			late
C/ FM SC 0 den Besten, Gerrit	P 21 NXP Semiconduc	L27	# 177		Suggestedl RS-FE		onsistency	with 10GBASE-T1)			
Comment Type E 2018comprehensive	Comment Status D			late		•	CEPT IN P	esponse Status W RINCIPLE.			
SuggestedRemedy 2018 comprehensive (2	?)										
Proposed Response PROPOSED ACCEPT See comment #80.	Response Status W IN PRINCIPLE.										

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

C/ 44 SC 44.1.4.4				
den Besten, Gerrit	P 29 NXP Semicond	L 44 ductors	# 181	C/ 45 SC 45.2.1.192.1 P 33 L 30 # 183 den Besten, Gerrit NXP Semiconductors
Comment Type E on a single	Comment Status D		I.	te Comment Type T Comment Status D late Does a reset time of 0.5sec make sense given that the link start-up time should be within 100ms
SuggestedRemedy over a single Proposed Response PROPOSED ACCEPT Change: for transmissio	on on a single			SuggestedRemedy Does 0.5s make sense? I would have expected a maximum value of 50ms rather than 500ms. Proposed Response Response Status PROPOSED RELIGION
To: for transmission ov C/ 45 SC 45.2.1.192 len Besten, Gerrit Comment Type T 1.2309.10:9		L 16 ductors	# <u>182</u>	 PROPOSED REJECT. A hard reset time of 0.5s is standard for ethernet PHYs in 802.3. Since that bit is a copy of a standard bit, which already has the reset time defined, changing the requirement for response would be problematic. This is the same value as for 1000BASE-T1.
space in between for lo really control but config Proposed Response PROPOSED REJECT.	Response Status W uration bits are the same thing	he future? In fact 9. Leaving the re:	these bits are not	C/ 45 SC 45.2.1.192.3 P 34 L 5 # 184 den Besten, Gerrit NXP Semiconductors NXP Semiconductors Image: Comment Type T Comment Status D Image: Comment Type Image: Comment Status D Image: Comment Status D Image: Comment Status Image: Comment Status D Image: Comment Status Image: Comment Status Comment Status Comment Status Comment Status Comment Status Image: Comment Status Comment Status
	flexibility during draft develor			Is that really acceptable? I would expect a more tightly defined start-up time, like 100ms
big block allows greater C/ 45 SC 45.2.1.19 Wienckowski, Natalie	2.1 P33 General Motors	L 16 s	# 172	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment #82.
big block allows greater C/ 45 SC 45.2.1.192	2.1 P33 General Motors Comment Status D			PROPOSED ACCEPT IN PRINCIPLE. See comment #82. C/ 45 SC 45.2.1.194.1 P36 L9 # 185 den Besten, Gerrit NXP Semiconductors
big block allows greater Cl 45 SC 45.2.1.19 Wienckowski, Natalie Comment Type E Typo in register numbe	2.1 P33 General Motors Comment Status D r 1.2309.10:9 Response Status W			PROPOSED ACCEPT IN PRINCIPLE. See comment #82. C/ 45 SC 45.2.1.194.1 P36 L9 # 185

Topic late

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

C/ 45 SC 45.2.	.194.4	P 36	L 40	# 186		C/ 45	SC 45.2.1.1	98	P38	L 27	# 188	
den Besten, Gerrit		NXP Semico	nductors			den Besten	, Gerrit		NXP Semico	nductors		
Comment Type E	Comm	ent Status D			late	Comment T	<i>уре</i> Т	Commen	t Status D			late
up SuggestedRemedy							0			Looking at other bit field with 0.5dE		
up.	D					SuggestedF See pre	R <i>emedy</i> evious comme	nt				
Proposed Response PROPOSED ACCE On page 36, line 45	PT IN PRINC	se Status W IPLE.				Proposed R PROPC		Response T IN PRINCIP	e Status W LE.			
Change: up To: up.						Previou	is comment is	#187				
C/ 45 SC 45.2.	1.197	P38	L 20	# 187		TFTD						
den Besten, Gerrit		NXP Semico	nductors			The re	solution and ra	ande of measu	rement should	be discussed. TI	he resolution (ised here
Comment Type T This fine-grained S margin parameter (NR resolution		•	r clauses with and \$ B resolution is com		is the s fields m coarser	ame used in a nentioned by th	Il the MultiGB ne commenter t done via info	ASE-T SNR ma	rgin registers for rted during startu nally used by the	reporting. The p and are for a	e 4 bit a much

SuggestedRemedy

Clause 113: "SNR_margin (4 bits). Represented by Octet 9<7:4>, which reports received decision point SNR margin in 1/2 dB steps. SNR_margin is relative to the SNR required for reception of LDPC-coded DSQ128 at an LDPC frame error ratio of less than $3.2 \square 10-9$. The SNR_margin<7:4> four-bit values, 0010, 0011, 0100, 0101, 0110, 0111, 1000, 1001, 1010, 1011, 1100, 1101, 1110 shall indicate the decision point SNR margin values of -1.5, -1, -0.5, 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5 dB, respectively. The value 0001 shall indicate the value 1111 shall indicate 5 dB or more. Finally the value 0000 shall indicate that the SNR margin value is unknown."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

TFTD

The resolution and range of measurement should be discussed. The resolution used here is the same used in all the MultiGBASE-T SNR margin registers for reporting. The 4 bit fields mentioned by the commenter are those reported during startup and are for a much coarser measurement done via infofields and optionally used by the PHY during startup, not for runtime monitoring.

C/ 45	SC 4	45.2.1.199	P38	L 34	#	189	
den Besten,							
Comment Ty			late				
This fine	-grain	ied signal p	ower resolution seems ove	erdone.			

SuggestedRemedy

0.5dB resolution should be enough. Accuracy cannot be that high as analog front-end gain variability is not negligible.

Proposed Response Response Status W

PROPOSED REJECT.

The resolution and range of measurement should be discussed. The resolution used here is the same used in all the MultiGBASE-T power registers for reporting. The allowed range of transmit power is usually only 2 dB in the MultiGBASE-T PHYs, making 0.5 dB steps quite coarse. Currently there is only an upper bound on transmit power in 149.5.2.4, which makes it difficult to provide interoperable noise immunity. comments are invited to provide a lower bound in 149.5.2.4.

P802.3 D1p0	al Layer Specifications and I	Management Parameters	for Greater Than 1 Gb/s Automotive Ethernet 3rd Ta
Cl 45 SC 45.2.3 Wienckowski, Natalie	P38 L47 General Motors	# 174	Cl 45 SC 45.2.3.73 P 41 L 6 # 191 den Besten, Gerrit NXP Semiconductors
Comment Type E Editor's note for conte	Comment Status D ent added in D1.0 needs to be removed.	late	Comment Type E Comment Status D Iate Reference to wrong registers 2328/2329 (which are reserved) Iate Iate Iate
SuggestedRemedy Remove Editor's note the text.	e. The section was reviewed and other comr	nents request updates to	SuggestedRemedy Should be 3.2318 and 2319
Proposed Response PROPOSED ACCEP	Response Status W T.		Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
	72.2 P40 L31	# 190	See Comment #87.
den Besten, Gerrit Comment Type E	NXP Semiconductors Comment Status D	late	C/ 45 SC 45.2.3.74 P 41 L 40 # 192 den Besten, Gerrit NXP Semiconductors
51	ionally strikes through here?	laic	Comment Type T Comment Status D late
SuggestedRemedy			This bit shall self clear when register 3.2317 is read.
Proposed Response PROPOSED REJEC Not a comment.	Response Status W T.		SuggestedRemedy This condition is adapted by the paragraph below the table. Probably better to say: this bit shall self-clear on reading the last link partner AOM register. (and leave the more detailed explanation as is in the paragraph below). Proposed Response Response Status W
To answer the question specifying the specified	on, yes, it was changed so to say "transmitte c PHY	d by the PHY" without	PROPOSED ACCEPT IN PRINCIPLE.
C/ 45 SC 45.2.3.7 den Besten, Gerrit		# 193	Change "This bit shall self clear when register 3.2317 is read" to "See 45.2.3.74.1 for self- clearing behavior". Note - this eliminates a 'duplicate shall', as well as provides the reference to the more complete behavior without relying on the names of the registers being the same.
Comment Type E "the remaining 4 octe	Comment Status D ts are"	late	Cl 45 SC 45.2.3.75 P 42 L 41 # 194 den Besten, Gerrit NXP Semiconductors
SuggestedRemedy Replace by "there are	e 4 additional octets"		Comment Type E Comment Status D late
Proposed Response PROPOSED ACCEP	Response Status W T IN PRINCIPLE.		"the remaining 4 octets are" SuggestedRemedy Replace by "there are 4 additional octets"
See Comment #87.			Proposed Response Catus W PROPOSED ACCEPT IN PRINCIPLE.
			See Comment #87.

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

Topic late

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

C/ 45 SC 45.2.3.75 den Besten, Gerrit	P 42 NXP Semicon	L 41 ductors	# 195		Cl 45 SC 45.2 den Besten, Gerrit	2.3.78	P44 NXP Semicor	L 21 nductors	# 198	
Comment Type T "Register 3.2313.15 shall be cleared when re	Comment Status D			late	contain exactly th	on to define new le same fields a	ment Status D w PCS control, statu as 1000BASE-T1. T e for these PCS reg	he OAM registe		
about register 2313. Sug Proposed Response PROPOSED ACCEPT II	Clause 45. Removing the	ce.			SuggestedRemedy Can we defined th speed grades? Proposed Response PROPOSED RE. Commenter prov whether the regis	he PCS registe <i>Respo</i> IECT. rides insuffficie ters will remair	erior these FCO reg ers as BASE-T1 regi inse Status W nt information for re n identical to those in ng group ballot, con	isters instead th medy. At this ti n 1000BASE-T1	me it is unknown I. If the content re	emains
len Besten, Gerrit Comment Type T	NXP Semicon Comment Status D IYs, register 3.2313.15 shall			late	proposal to merge C/ 45 SC 45.2	e the registers.		L 44	# 197	
	atement and redundant here ggest to remove this sentenc <i>Response Status</i> W		ງs to the paragraph		operation within 0 SuggestedRemedy Does 0.5s makes 500ms. Proposed Response PROPOSED RE. A hard reset time a standard bit, wh	management in 0.5 s from the s sense? I would <i>Respo</i> JECT. of 0.5s is stan nich already ha	ment Status D nterface shall be res setting of bit 3.2322. I have expected a m onse Status W dard for ethernet PH s the reset time def	15." naximum value o HYs in 802.3. S	ince that bit is a c	copy of
					Cl 45 SC 45.2 Wienckowski, Natalie Comment Type E	2.3.80 Comr	P 46 General Moto ment Status D	L 44 ors	# 207	late
					Incorrect Register	r number in Ta	DIE 45-244e			

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

SORT ORDER: Topic

C/ 78 SC 78.2 den Besten, Gerrit	P 50 NXP Semicon	L 49 ductors	# 199		C/ 149 SC den Besten, Ger	149.1.3.1 rit	P 65 NXP Semio	L 22 conductors	# 202
Comment Type T	Comment Status D			late	Comment Type	т	Comment Status D		l
	these time values? There is	zero margin	between min and m	iax.			XGMII data octets provide >, and groups"	ed by two transfer	s on the XGMII service
	integer number of symbol p that way, without tolerance	· ·	cks or frames), it mi	ght	SuggestedReme It seems tha	edy It four shou	ld be eight in this sentence		uld read: "the PCS
Proposed Response	Response Status W						ts per XGMII transfer, and	groups"	
PROPOSED ACCEPT IN	N PRINCIPLE.				Proposed Respo		Response Status W		
"In 802.3bp we started S character. This was Willi min and max are equal. I carried this forward to 8	ing D1.0 creation that these leep if the last 80B/81B bloc am Lo's innovation 4 years a See 802.3bp (1000BASE-T1 02.3ch. So yes this means ame for both values for 1000	k in a frame v ago. It reduce) table 78-2." Ts min and m	vas an LPI control d LPI chattering. Th ax are equal.	en Ts	awkward. U direction, in transfers on blocks (eigh XGMII data TXD<31:0>	se the word normal mo the XGMII t octets)." t octets prov and groups	as is (because it goes on f ling from clause 126 in 80 de, the PCS receives four service interface on TXD< o "In the transmit direction ided by two consecutive tr them into 64-bit blocks w e two XGMII transfers."	2.3-2018. Change XGMII data octets 31:0>, and group , in normal mode, ansfers on the XC	e "In the transmit s provided by two s two of them into 64-bi the PCS receives eigh GMII service interface of
C/ 125 SC 125.1.4 Ien Besten, Gerrit	P 60 NXP Semicon	L 30	# 200		C/ 149 SC	149.1.3.4	P66	L 50	# 203
Comment Type T	Comment Status D			late	den Besten, Ger	rit	NXP Semio	conductors	
using 64B/65B encoding				late	Comment Type	E	Comment Status D	- 10	l.
SuggestedRemedy Shouldn't that be "Reed-	Solomon" given that the BA	SE-T flavors r	nention LDPC?		SuggestedReme	edy	the other, validate link, ar		
Proposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE.				Proposed Respo	onse	e: "validate link" what does Response Status W IN PRINCIPLE.	s mean here?	
See Comment #145.									
C/ 125 SC 125.1.4 den Besten, Gerrit	P 60 NXP Semicon	L 38 ductors	# 201		IFID. Text	is copied f	rom Clause 97.		
Comment Type T "using 64B/65B encoding	Comment Status D]"			late					
S <i>uggestedRemedy</i> Shouldn't that be "Reed-	Solomon" given that the BA	SE-T flavors r	nention LDPC?						
Proposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE.								
See Comment #145.									
TYPE: TR/technical required COMMENT STATUS: D/disp						thdrawn	Торіс	late	Page 22 of 39 1/8/2019 9:22:36

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

C/ 149	SC 149.1.5	P67	L35	# 204		C/ 149	SC 149.1.3
den Bester	ı, Gerrit	NXP Semicone	ductors			Zimmerman,	George
	GBASE-T1, 5GE	Comment Status D BASE-T1, and 10GBASE-T1 I GMII, if implemented."	PHY impleme	ntations are comp	<i>late</i> atible	negotiati	ng to 149.4.2.6 Ion is not prese
Suggested				in a successful south			The requirem ents do not be
10GBA	SE-T1 PHY imp	that a 2.5GBASE-T1 PHY in ementation at MDI and XGM ly applies for the same speed	II. I expect this			<i>SuggestedR</i> Change	<i>emedy</i> "The MASTER
Comm interop	OSED REJECT. enter provides in erable. It means	Response Status W sufficient information for reme they use the same interface s used in this subclause of cla	s, which is wh	at this subclause i	s	PHY Lin L49 "If th then the training a disabled	in the PHY (se k Synchronizat ne optional Cla Link Synchron as defined in 1 or not implem PHY PMA train
<i>Cl</i> 149 Zimmerma	SC 149.3.2.3 n, George	P 92 CME:ADI,Aqua	L 8 antia,AP	# 206		Proposed Re PROPO	esponse SED ACCEPT.
Comment T LATE ("TBD"		Comment Status D rmative descriptive text for th	e PCS Receiv	e function is listed	<i>late</i> l as	C/ 149 Zimmerman,	SC 149.4.2.6 George
Suggested Replac zimme	e line 8 "Normal rman_3ch_01_0 [,]	PCS Receive function operat 19.pdf. Editorial license to h sisions in this meeting.			and	Requirer	<i>pe</i> T this subclause ments are need as follows" - ma
Proposed F		Response Status W				U U	"is mapped" to
C/ 149 Wienckows	SC 149.4.5 ski, Natalie	P 131 General Motor	L 2 s	# 173		Proposed Re PROPO	esponse SED ACCEPT
Comment T Editor's	• •	Comment Status D added in D1.0 needs to be r	emoved.		late		
Suggested Remov		accpeting Figure 149-21					
Proposed F	Response OSED ACCEPT.	Response Status W					

		· · ·	
late	Comment Type T Cor	mment Status D	Link Synchronization
patible		cording to this paragraph, i esn't below here, but belon	nction is only used when auto- t is a requirement that it ALWAYS gs in 149.4.2.6. (generally,
th a neant to	SuggestedRemedy		
ean ⊧is PHYs.	function in the PHY (see 149. PHY Link Synchronization fun L49 "If the optional Clause 98 then the Link Synchronization training as defined in 149.4.2.	4.2.6)." to "The MASTER al ction in the PHY (see 149.4 Auto-Negotiation function i function is responsible for 4." to "If the optional Clause then the Link Synchronizati	d by the PHY Link Synchronization nd SLAVE is synchronized by the 4.2.6)." Change 149.4.2.6 P121 s disabled or not implemented, establishing the start of PHY PMA e 98 Auto-Negotiation function is on function shall establish the
	Proposed Response Res	oonse Status W	
	PROPOSED ACCEPT.		
late	C/ 149 SC 149.4.2.6	P121	L 28 # 153
ed as	Zimmerman, George	CME:ADI,Aquantia	
	Comment Type T Cor	mment Status D	Link Synchronization
, and	Much of this subclause is writ Requirements are needed. For symbol as follows" - mappings	or example P122 L28 "the b	bit Sn[0] is mapped to the transmit
	SuggestedRemedy		
	Change "is mapped" to "shall	be mapped" on page 122 li	nes 28 & 31, and page 123 line 1.
	Proposed Response Res	oonse Status 🛛 🛛 🛛 🖤	
	PROPOSED ACCEPT.		
late			

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

L45

P**64**

CME:ADI,Aquantia,AP

152

′immerman, George	P123 L37	# 154	Cl 45	SC 45.2.3		P 39	L10	# 32
	CME:ADI,Aquantia,AP		Anslow, Pet	te		Ciena		
The value of the variable force fatal problem for 5GBASE-T1 a out of scope for this state diag anywhere else in the clause, s is meant to be used in another added to that diagram. SuggestedRemedy Delete values of 1000-T1, 100- implementation-dependent and replacing force_phy_type with (2.5G/5G/10G) or FALSE (any 149.4.2.6.4. Proposed Response Resp	nment Status D phy_type is not used except for != and 10GBASE-T1 PHYs. Additiona ram (1000-T1 and 100-T1). The var o it is unclear what is meant by the var- state diagram which is speed-deper- -T1, and None, and their description d beyond the scope of this clause." a boolean variable force_mg_phy_ty thing else), as the speed doesn't se poonse Status W	ally, it has defined values riable isn't used variable. If this variable indent, it needs to be is. Add "Other values are alternatively, consider ype which is either TRUE	through In table In 45.2. In 45.2. before ' In Table SuggestedF Either:. delete t or:	Aff is not consi 3.2317, 3.23 45-176, these 3.73 and 45.2 3.76 and 45.2 'register") and 97-6 "<0:7>" Remedy he additions constances all instances nt.	18 through 3.23 ⁻ e registers have .3.75 the registe .3.77 "<8:11>" a not at all for the or "<8:11>" is n of "<0:7>" and "<	he names of r 19, and 3.2320 had "<0:7>" o r names do no ppears in the other places hissing from th 8:11>" as they name to inclu	0 through 3.2321 rr "<8:11>" addec ot include "<0:7> incorrect place in the register nam he names. y don't seem to b	d to the name. n the title (should be e appears
Delete values of 1000-T1, 100-	NCIPLE. use 97 so keep it to be consistent. -T1, and None, and their description d beyond the scope of this clause."	is. Add "Other values are	PROPO Remove See cor	DSED ACCEP e all instances mment #136.	T IN PRINCIPLE of <0:7> and <	<u>=</u> . 3:11>.		
C 149 SC 149.4.2.6.4	P125 L43	# 155	C/ 45 Zimmermar	SC 45.2.3		P 39 CME:ADI,Aqu	L 14 uantia AP	# 136
/immerman, George	CME:ADI,Aquantia,AP		Comment T	, U	Comment	•	danna, i	C
	nment Status D 5G-T1, the state diagram gets stuck 1 PHYs can never sync	Link Synchronization in SYNC_DISABLE, so	Registe in 149.3	ers 3.2318 thro 3.8.2.12 for Mu		e accurately r	reflect the 'OAM s	status message' defir
SuggestedRemedy			SuggestedF					
Change entry to SYNC_DISAE "(force phy type != 2.5G-T1	BLE from "force_phy_type != 2.5G * force_phy_type != 5G-T1 * force_ ig force_phy_type with a boolean (TF	phy type != 10G-T1)"	messag Table 4 else ne	ge" to "MultiGE 5-244a, 45.2.3 eded.	BASE-T OAM sta 3.77, and Table	atus message 45-244b; with		6 and in 45.2.3.76, to change anywhere
	oonse Status W		Proposed R		Response S			
PROPOSED ACCEPT IN PRI			Change messag	e names of reg ge" to "MultiGE 5-244a, 45.2.3	ASE-T1 OAM s	partner registe tatus messag		BASE-T1 OAM 76 and in 45.2.3.76, to change anywhere

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

C/ 45 SC 45.2.3.73 P 41 L1 # 87 Lo, William Axonne Inc. Axonne In	C/ 45 SC 45.2.3.73 P 41 L 6 Zimmerman, George CME:ADI,Aquantia,AP	# 137
Comment Type T Comment Status D OAM	Comment Type T Comment Status D	OAI
This comment affects 45.2.3.73, 45.2.3.75, 45.2.3.76, and 45.2.3.77 OAM messaging only applies to the first 8 octets. The remaining 4 octets are always updated independent of the handshake mechanism. To the text is technically not correct,	"the remaining 4 octets are contained in registers" isn't really of the OAM status message defined in 149.3.8.2.12. The sam 45.2.3.75 (P42 L41).	
and I think there is a better way to highlight the difference between multi-gig vs 1000BASE- T1.	SuggestedRemedy	
SuggestedRemedy	Change "the remaining 4 octets are contained" to "the 4 octets defined in 149.3.8.2.12 are contained in" in both 45.2.3.73 an	
45.2.3.73:	Proposed Response Response Status W	
Delete: For 1000BASE-T1, this is the complete message, but for MultiGBASE-T1, the remaining 4 octets are contained in registers 3.2328 and 3.2329.	PROPOSED ACCEPT IN PRINCIPLE. See Comment #87.	
45.2.3.75:	CI 45 SC 45.2.3.74.1 P42 L20	# 86
Delete:	Lo, William Axonne Inc.	
For 1000BASE-T1, this is the complete message, but for MultiGBASE-T1, the remaining 4 octets are contained in registers 3.2320 and 3.2321.	Comment Type T Comment Status D	OAI
45.2.3.76: Add sentence at the end: 1000BASE-T1 does not implement these registers.	This comment affects 45.2.3.74.1 and 45.2.3.77 The paragraph from 1000BASE-T1 in 45.2.3.74.1 also applies The new text inserted is not correct as registers 3.2320 to 3.23 always updated independent of the messaging process.	
	SuggestedRemedy	
45.2.3.77: Add sentence at the end: 1000BASE-T1 does not implement these registers.	45.2.3.74.1: Delete: for 1000BASE-T1 and shall self-clear when register 3. MultiGBASE-T1 PHYs	2321 is read for
Proposed Response Response Status W	45.2.3.77:	
PROPOSED ACCEPT.	Delete: For MultiGBASE-T1 PHYs, register 3.2313.15 shall be cleared	t when register 3 2321 is read
C/ 45 SC 45.2.3.73 P41 L 6 # 33 Anslow, Pete Ciena Ciena<	Proposed Response Response Status W PROPOSED ACCEPT.	
Comment Type E Comment Status D OAM		
"contained in registers 3.2328 and 3.2329" should be "contained in registers 3.2318 and 3.2319"	C/ 97 SC 97.3.8.3 P 52 L 9 Zimmerman, George CME:ADI,Aquantia,AP	# 141
SuggestedRemedy	Comment Type E Comment Status D	OAI
Change "3.2328 and 3.2329" to "3.2318 and 3.2319"	The section title for 97.3.8.3 needs to change too, to reflect the T1 OAM register mapping	e generalization of the BASE-
Proposed Response Response Status W	SuggestedRemedy	
PROPOSED ACCEPT IN PRINCIPLE. See Comment #87.	Change title of 97.3.8.3 from "State diagram variable to 1000E mapping" to "State diagram variable to BASE-T1 OAM registe	
	Proposed Response Response Status W	
	PROPOSED ACCEPT.	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G	general Topic OAM	Page 25 of 39

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

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

C/ 149 SC 149.3.8.2	P99	L37	# 99		C/ 149	SC 149.1.3	P65	L11	# 42
₋o, William	Axonne Inc.				Tu, Mike		Broadcom		
	omment Status D			OAM	Comment		Comment Status D		Overview
Page 99 lines 37 to page 100					Insert	a figure for "Fund	tional block diagram", simila	ar to Figure 97-2	and Figure 126-3.
See http://www.ieee802.org/ justifying the text.	s/cn/public/adhoc/Lo_Sci	1_02_1210.pd	I		Suggested	Remedy			
SuggestedRemedy							3ch_01_0119.pdf" as Figure	149-2, and re-n	umber the rest of
Accept the text as written in	D1.0				figures 2. On i		add one sentence at the en	d of the paragrag	oh: "Figure 149-2 shows
Proposed Response Re	sponse Status 🛛 🛛 🛛 🖤					nctional block dia		· · · · · · · · · · · · · · · · · ·	
PROPOSED ACCEPT.					Proposed I	Response	Response Status W		
					PROP	OSED ACCEPT.			
C/ 149 SC 149.3.8.2.12	P102	L 54	# 75		C/ 149	SC 149.1.4	P67	L20	# 46
Wienckowski, Natalie	General Motors				Tu, Mike	00 140.1.4	Broadcom	220	# 40
	omment Status D			OAM	Comment	Type TR	Comment Status D		Overviev
Add definition for "REC Clea	red" in OAM<10><0>					upport is optiona			Overview
SuggestedRemedy									
See presentation.					Suggested	,	pport refresh, quiet and ale	t cianalina durin	a I PL operation "
	sponse Status 🛛 🛛 🛛 🛛 🛛 🖤				Chang		ipport refresh, quiet and ale		
PROPOSED ACCEPT IN PF Implement changes specified		0110			To: "i)	Optionallly, abilit	y to support refresh, quiet a	nd alert signaling	during LPI operation."
	III WIERCKOWSKI_3CH_02	_0119.			Proposed I	Response	Response Status W		
C/ 149 SC 149.1.3	P 64	L15	# 151		PROP	OSED ACCEPT.			
Zimmerman, George	CME:ADI,Aqua	ntia,AP							
Comment Type E Co	omment Status D		Ove	erview					
If we name the PCS (say, e.									
and make the figure much si PHYs. If we choose to do the second se									
in Figure 125-1 for 2.5GBAS	E-T and 5GBASE-T PCS	's to "LDPC F	PCS" (as it is called						
elsewhere in Cl 125) and col	apse them too, making F	igure 125-1 b	ack into 1 figure						
SuggestedRemedy									
Change "2.5GBASE-T1 PCS PCS" and make the 3 stacks 10GBASE-T1" at the bottom	into 1 with the label "2.5			C					
Proposed Response									

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 149 SC 149.3.4.2 P 94 L 9 # 57 Tu, Mike Broadcom	C/ 149 SC 149.4.2.6 P122 L2 # 170 WU, Peter Marvell Marvell
Comment Type TR Comment Status D PAM2 According to Motion #4 passed in Bangkok, PAM2 mapping is: 0 -> -1, and 1 -> +1. See "http://www.ieee802.org/3/ch/public/nov18/souvignier_3ch_05b_1118.pdf" page 3. SuggestedRemedy SuggestedRemedy Need advices from chair and editor: Option #1: Change "if Sn = 0 then Tn = +1, if Sn = 1 then Tn = -1" to "if Sn = 0 then Tn = -1, if Sn = 1 then Tn = +1".	Comment Type TR Comment Status D PAM2 PAM2 mapping needs to be consistent SuggestedRemedy Fext "For 10GBASE-T1, the bit Sn[0] is mapped to the transmit symbol Tn as follows: if Sn[0] = 0 then Tn = +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1
Option #2: Keep the current text as is, if the TF agree to define PAM2 mapping. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Motion #7 from Sept, 2018 "Move to adopt PAM2 as the modulation for training and the training side-stream scrambler polynomials from 97.3.4 (same as Clause 55)". 97.3.4.2 has "if Sn = 0 then Tn = +1, if Sn = 1 then Tn = -1" so this is the mapping we should use. Nov. Motion #4 mentions the generator polynomials and the generator functions, but doesn't mention the PAM2 mapping, which is different than (opposite) Clause 97 and 55.	Tn = +1 +1 +1 +1, if Sn[0] = 1 then Tn = $-1 \cdot -1 - 1 \cdot -1$. For 2.5GBASE-T1, the bit Sn[0] is mapped to the transmit symbol Tn as follows: if Sn[0] = 0 then Tn = +1 +1, if Sn[0] = 1 then Tn = $-1 \cdot -1$." is suggested to be chanaged to " For 10GBASE- T1, the bit Sn[0] is mapped to the transmit symbol Tn as follows: if Sn[0] = 0 then Tn = $-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1$, if Sn[0] = 1 then Tn = $+1 \cdot +1 + 1 \cdot +1 + 1 \cdot +1 + 1 \cdot +1$. For 5GBASE-T1, the bit Sn[0] is mapped to the transmit symbol Tn as follows: if Sn[0] = 0 then Tn = $-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1$, if Sn[0] = 1 then Tn = $+1 \cdot +1 + 1 \cdot +1 + 1 \cdot +1 + 1 \cdot +1$. For 5GBASE-T1, the bit Sn[0] is mapped to the transmit symbol Tn as follows: if Sn[0] = 0 then Tn = $-1 - 1 - 1 - 1 - 1$, if Sn[0] = 1 then Tn = $+1 \cdot +1 + 1 \cdot +1$. For 2.5GBASE-T1, the bit Sn[0] is mapped to the transmit symbol Tn as follows: if Sn[0] = 0 then Tn = $-1 - 1 - 1 - 1$, if Sn[0] = 1 then Tn = $+1 \cdot +1 + 1 \cdot +1$.
C/ 149 SC 149.3.4.2 P 94 L 10 # 169 WU, Peter Marvell Marvell Pannent Type TR Comment Status D PAM2	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. The "."s are copy/paste artifacts. Change text to: For 10GBASE-T1, the bit Sn[0] is mapped to the transmit symbol Tn as
Sn to Tn mapping is not conssitent with Figure 149-7 SuggestedRemedy changed to if Sn =0 then Tn = -1, if Sn = 1, then Tn = +1 Proposed Response Response Status W	follows: if Sn[0] = 0 then Tn = +1 +1 +1 +1 +1 +1 +1 +1 , if Sn[0] = 1 then Tn = -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
PROPOSED ACCEPT IN PRINCIPLE. See Comment #169. Update Figure 149-7 to have correct mapping.	For 2.5GBASE-T1, the bit Sn[0] is mapped to the transmit symbol Tn as follows: if Sn[0] = 0 then Tn = +1 +1, if Sn[0] = 1 then Tn = -1 -1.

<i>Cl</i> 149 WU, Peter	SC 149.3.4.1	P 93 Marvell	L 41	#	168	<i>Cl</i> 149 McClellan,		149.3.4.1	P 93 Marvell	L 47	#	117
	51	Comment Status D o RS(360, 326) 2^10 the fra ewritten	me size is 1800	symbols, a	<i>Partial Frame</i> all the	<i>Comment</i> The R bits.		T block is 36	<i>Comment Status</i> D 00 bits, if there are 15 partia	l frames then e	each partia	<i>Partial Fram</i> al frame is 240
with ine frames	e attched text and dicators to establis that comprise the	equation:During PMA train sh alignment to the RS-FEC block. The last partial PH	C block and the 1 Y frame is embe	1015 partia dded with a	ıl PHY an		je 180 to je 94 lin	o 240. Mak ne 2: chan	te the same change on page ge 2520 to 3360, 2615 to 34 Response Status W			
encodi first 91	ing is based on the 4 partial PHY fran	exchange messages betwe e generation, at time n, of the nes of each RS-FEC block. th the contents of the InfoFi	ne bit Sn. The fir The first 96 bits	st bit is inv of the 105	rerted in the oth partial		OSED /		N PRINCIPLE.			
long, b S_n= {	eginning at Sn wh	ere (n mod 180) = 0. See E nfoField <u>]_((</u> n mod 180))16	Equation (149– 8).)0)≤1715@		C/ 149 Tu, Mike	SC ·	149.3.4.1	P 94 Broadcom	L 2	#	56
[0]⊕1 [0] Proposed I	Response	otherwise)	<i>@</i> [Sci]_i	I		<i>Comment</i> Equati		TR 8 is incorre	Comment Status D ect			Partial Fram
PROP	OSED ACCEPT II omment #56	,				S <i>uggestea</i> Adopt	-		anges as shown on page 4 c	of "tu_3ch_01_	0119.pdf"	
<i>Cl</i> 149 Tu, Mike	SC 149.3.4.1	P 93 Broadcom	L 43	#	55	Proposed PROP		se ACCEPT.	Response Status W			
Comment T Need t		<i>Comment Status</i> D umber of partial frames.			Partial Frame	<i>Cl</i> 149 Benyamin,		149.3.5	P 94 Aquantia	L 41	#	121
Suggested Adopt	-	anges as shown on page 4	of "tu_3ch_01_0)119.pdf".		<i>Comment</i> We sh		T ecify timing	Comment Status D g in partial frame units			Partial Frame
Proposed I PROP	Response OSED ACCEPT.	Response Status W				Suggested chang	-	-	nes to 792 partial PHY frame	1		
						Proposed	Respon	se	Response Status W			

PROPOSED ACCEPT.

Cl 149 SC 149.3.5 P 94 Benyamin, Saied Aquan		# 122	C/ 149 SC 149.3.2.2 P78 L25 # 90 Lo, William Axonne Inc. Axonne Inc.
Comment Type T Comment Status We should specify timing in partial frame uni	-	Partial Frame	Comment Type T Comment Status D PC Equation has rounding error. Equation for the status D Equation for the status Equation fo
SuggestedRemedy change 100 RS FEC frame to 800 partial PH Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE.			SuggestedRemedy change 177.8 / S ps to 1 / (5.625 x S) ps Proposed Response Response Status PROPOSED ACCEPT.
Also change 100 RS FEC frame to 900 partie	al PHY frame on page s	95, line 24.	C/ 149 SC 149.3.2.2.14 P84 L 54 # 95
Cl 149 SC 149.3.5.1 P 95 Benyamin, Saied Aquan		# 123	Lo, William Axonne Inc.
Comment Type T Comment Status We should specify timing in partial frame uni	-	Partial Frame	Comment Type T Comment Status D PCS The description and Figure 149-7 is a bit ambiguous and subject to misinterpretation. Need a tighter definition if we are going to rely on diagrams instead of text. PCS
SuggestedRemedy change 50 RS FEC frame to 400 partial PHY Proposed Response Response Status PROPOSED ACCEPT.			SuggestedRemedy Page 84 line 54 change the text Figure 149-7 to Figure 149-7 and Figure 149-10. In Figure 149-7 modify the label scrn,0 to scrn,0 = scrn[0] (Note the n,0 and n are subscript)
C/ 149 SC 149.3.2 P77 Tu, Mike Broadd		# 48	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Update Figure 149-7 as suggested.
Comment Type TR Comment Status Figure 149-3 PCS reference diagram need to 1. OAM is not shown in the figure 2. link_status is missing 3. rx_symb_vector should be rx_symb 4. tx_symb_vector should be tx_symb	-	PCS	See comment #115.
SuggestedRemedy Adopt page 3 of "tu_3ch_01_0119.pdf" as Fi	gure 149-3.		
Proposed Response Response Status	w		

149 SC 149.3.2.2.1 o, William	4 P85 Axonne Inc.	L10	# 98		C/ 149 McClellan,	SC 149.3.2.2 Brett	2.14	P 85 Marvell	L 49	# 115
omment Type T The text is not correct. The initial seed values for The value of the seed is running. Image sted Remedy Delete: The initial seed values for Scrambler is run continue Replace with: The PMA training side-s scrambler.	Comment Status D or the MASTER and SLAVE already determined during or the MASTER and SLAVE	training and is i are left to the i n 149.3.4 is use A training shall o	n fact continuously mplementer. The ed as the PCS	PCS	Comment T does n Further the scr mappir device: An ado equatio Finally Suggested Delete replace	Type T ot actually show r despite the title ambler including ng for PAM2 is i s. ditional issue is t ons in 149.3.4. the data scram <i>Remedy</i> figure 147-7. the text of 149	v the scramble e indicating 'F g gray mappin ncorrect, refe that the text a abler description .3.2.2.14 with	of Status D ler implementation PSC scramblers ng, precoder, P er to 149.3.4 wh and equations o ion should appe	' the diagram sh AM2 mapping ar ich is consistent	
oposed Response PROPOSED ACCEPT II See comment #115.	Response Status W N PRINCIPLE.				The p tx_scra genera (LSB) equal t DS_n[(D_n[0] A = DS (_n der Move 1 Proposed H PROPr Keep fr replace "The p tx_scra genera equal t XOR S DS_n[(D_n[0] A = DS See Fig	atted from the sid bit is DS_n[0] ec o Scr_n[3] XOR D] and DS_n[1] at (LSB) and DS_ $\delta_n[0] XOR D_n\delta_n[1] XOR D_nhotes subscript)149.3.2.2.14 afteResponseOSED ACCEPTigure 147-7. Lathe text of 149ayload of the PCambled<3599:0>ted from the sido Scr_n[0] defini-icr_n[8].D] and DS_n[1] at$	le-stream scr qual to Scr_n[Scr_n[8]. are applied a: n[1] (MSB) to [0] [1]" er 149.3.2.2.1 <i>Response</i> IN PRINCIP bel scr n,0 as .3.2.2.14 with CS PHY fram with an addi le-stream scr hed in 149.3.4 are applied a: n[1] (MSB) to [0] [1].	rambler defined [0] defined in 14 s additive scran o generate two s 15. S <i>Status</i> W PLE. s "A" and label s it the following: the tx_encoded the following: the scrambler. ambler defined the second (if s additive scran	in 149.3.4. The f 49.3.4. The seco abler sequences scrambled data b scr n, as "B". 3599:0> is scram Two scrambler f in 149.3.4. The f MSB) bit is DS_r abler sequences	nd (MSB) bit is DS_n to incoming data bits bits {A, B} as follows:

Move 149.3.2.2.14 after 149.3.2.2.15 Also resolves #95 & #98	C/ 149 SC 149.3.2.3.1 P 92 L 27 # 54 Tu, Mike Broadcom Broadcom
C/ 149 SC 149.3.2.2.16 P86 L12 # 51 Tu, Mike Broadcom	Comment Type TR Comment Status D P Use 97.3.2.3.1 as baseline text. D P
Comment Type TR Comment Status D Wrong indices in Equation 149-3 SuggestedRemedy Delete "g6", and change "g5" to "g33"	PCS SuggestedRemedy Change to: "When operating in the data mode, the receiving PCS shall form a PAM4 stream from the PMA_UNITDATA.indication primitive by concatenating requests in order from rx_PAM4_0 to rx_PAM4_1799 (see Figure 149-5). It obtains block lock to the PHY frames during the PAM2 training pattern using synchronization bits provided in the training sequence.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Also see comment #96. Is highest number 33 or 34?	Proposed Response Response Status W PROPOSED ACCEPT.
C/ 149 SC 149.3.2.2.16 P86 L22 # 52	C/ 149 SC 149.3.2.3.3 P92 L 39 # <u>116</u> 2 McClellan, Brett Marvell
Tu, Mike Broadcom	Comment Type T Comment Status D P
Comment Type TR Comment Status D	PCS missing list of conditions for invalid blocks
Wrong indices in Equation 149-4	SuggestedRemedy
SuggestedRemedy Change from: " + m1 x^36 + m0 x^35" To " + m1 x^35 + m0 x^34".	change "A block is invalid if any of the following conditions exists: LIST" to
Proposed Response Response Status W PROPOSED ACCEPT.	 "A block is invalid if any of the following conditions exists: a) The block type field contains a reserved value. b) Any control character contains a value not in Table 149–1. c) Any O code contains a value not in Table 149–1.
C/ 149 SC 149.3.2.2.16 P 87 L 6 # 96 Lo, William Axonne Inc. Axonne Inc. # 96	
Comment Type T Comment Status D Incorrect index in Figure 149-8	PCS check fails the RS-FEC frame is invalid. R_BLOCK_TYPE of an invalid block is set to E."
SuggestedRemedy g32 should be g33 g33 should be g34	Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Also see comment #51. Is highest number 33 or 34?	

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

С/ 149 SC Ги, Mike	C 149.3.6	P 96 Broadcom	L13	# 69	<i>Cl</i> 149 Tu, Mike	SC 149.4.2.5	P 120 Broadcom	L 45	# 63
Comment Type Subclause		Comment Status D		PCS	Comment T Remov	51	<i>Comment Status</i> D phlighs in this paragraphs.		PHY Contro
1. Replace	126.3.6 as bas all "LDPC" to	seline, with the following mod "RS FEC" and associated contents	lifications:		SuggestedF Remov Proposed F	e the edtorial hig	hlighs in this paragraphs. Response Status W		
3. Delete "lo 4. Replace '	dpc_two_fram "rx_symb_vec	e_done" and associated contents tor" with "rx_symb" tor" with "tx_symb"	ents		PROPC	SED ACCEPT.	P120	L 51	# 64
Proposed Resp		Response Status W			Tu, Mike	00 140.4.2.0	Broadcom	201	" 04
PROPOSEI Copy all of	D ACCEPT IN	, I PRINCIPLE. ding all subsections and state	e diagrams and			e should be aligr scussed in "tu_3	Comment Status D ned to RS super-frame boun 3ch_02_0119.pdf" page 4, th		
	C 149.4.2.4	P118	L 14	# 60	Suggested				
		Broadcom				-	t TBD-RS frame to within +0)/ 1 "	
Comment Type Subclause	149.4.2.4, 149	Comment Status D 0.2.4.1 to 149.4.2.4 have mise	sing contents,	PHY Control or require revisions.	То: "	its transmit 65B	-RS FEC super frame to within to ghlights in this paragraph.	//_1 hin +0/–4*S"	
SuggestedRemo Adopt page indicated in Proposed Respo	149.4.2.4, 149 hedy les 5 to 9 of "tu hat documer honse	0.2.4.1 to 149.4.2.4 have mis _3ch_01_0119.pdf" as baseli	0	or require revisions.	To: " Also rei <i>Proposed R</i> PROP(See tu_	its transmit 65B move editorial hi <i>Pesponse</i> DSED ACCEPT 3ch_02a_0119.	-RS FEC super frame to wit ghlights in this paragraph. <i>Response Status</i> W IN PRINCIPLE.	hin +0/–4*S …"	
Comment Type Subclause SuggestedReme Adopt page indicated in Proposed Respo	149.4.2.4, 149 hedy les 5 to 9 of "tu <u></u> n that documer	0.2.4.1 to 149.4.2.4 have miss _3ch_01_0119.pdf" as baseli nt.	0	or require revisions.	To: " Also rei Proposed R PROPC See tu_ C/ 149	its transmit 65B move editorial hi <i>lesponse</i> DSED ACCEPT	-RS FEC super frame to wit ghlights in this paragraph. <i>Response Status</i> W IN PRINCIPLE. <i>P</i> 121	hin +0/-4*S"	# <u>65</u>
Comment Type Subclause SuggestedReme Adopt page indicated in Proposed Respo PROPOSEI	149.4.2.4, 149 hedy les 5 to 9 of "tu hat documer honse	0.2.4.1 to 149.4.2.4 have miss _3ch_01_0119.pdf" as baseli nt.	0	or require revisions.	To: " Also rea Proposed R PROPO See tu_ C/ 149 Tu, Mike Comment T	its transmit 65B move editorial hi pesponse DSED ACCEPT 3ch_02a_0119. SC 149.4.2.5 Type ER	-RS FEC super frame to wit ghlights in this paragraph. <i>Response Status</i> W IN PRINCIPLE. <i>P</i> 121 Broadcom <i>Comment Status</i> D	hin +0/–4*S …"	
Comment Type Subclause SuggestedReme Adopt page indicated in Proposed Resp PROPOSEI CI 149 SC Fu, Mike Comment Type 1. Remove 2. There is i	149.4.2.4, 149 edy es 5 to 9 of "tu that documer onse D ACCEPT. C 149.4.2.4.5 ER editorial highli no need to ex	2.4.1 to 149.4.2.4 have miss _3ch_01_0119.pdf" as baselint. <i>Response Status</i> W <i>P</i> 120 Broadcom <i>Comment Status</i> D ights. change seed values anymore	L 38	or require revisions. figures and tables as	To: " Also rei Proposed R PROPO See tu_ C/ 149 Tu, Mike Comment T Remov	its transmit 65B move editorial hi <i>esponse</i> DSED ACCEPT 3ch_02a_0119. SC 149.4.2.5 SC 149.4.2.5 Cype ER e editorial highlig Remedy	-RS FEC super frame to wit ghlights in this paragraph. <i>Response Status</i> W IN PRINCIPLE. <i>P</i> 121 Broadcom <i>Comment Status</i> D	hin +0/–4*S …" 	# 65
Comment Type Subclause SuggestedRema Adopt page indicated in Proposed Respa PROPOSEI Cl 149 SC Fu, Mike Comment Type 1. Remove 2. There is in 3. There is in SuggestedRema	149.4.2.4, 149 edy as 5 to 9 of "tu that documer bonse D ACCEPT. C 149.4.2.4.5 ER editorial highlino no need to ex no user config redy	0.2.4.1 to 149.4.2.4 have miss _3ch_01_0119.pdf" as baselint. <i>Response Status</i> W <i>P</i> 120 Broadcom <i>Comment Status</i> D ights. change seed values anymore jurable register bits.	L 38	or require revisions. figures and tables as # <u>61</u>	To: " Also rea Proposed R PROPO See tu_ C/ 149 Tu, Mike Comment T Remov Suggested Remov Proposed R	its transmit 65B move editorial hi pesponse DSED ACCEPT 3ch_02a_0119. SC 149.4.2.5 SC 149.4.2.5 Sype ER e editorial highlig Remedy e editorial highlig	-RS FEC super frame to wit ghlights in this paragraph. <i>Response Status</i> W IN PRINCIPLE. <i>P</i> 121 Broadcom <i>Comment Status</i> D ghts for the first two paragra <i>Response Status</i> W	hin +0/–4*S …" 	# 65
Comment Type Subclause SuggestedRema Adopt page indicated in Proposed Respa PROPOSEI CI 149 SC Fu, Mike Comment Type 1. Remove 2. There is in 3. There is in SuggestedRema Change this "Upon enter asserts tx_r	149.4.2.4, 149 edy as 5 to 9 of "tu that documer bonse D ACCEPT. C 149.4.2.4.5 ER editorial highlinon need to exino user config redy s paragraph to rring the TRAII mode = SEND	0.2.4.1 to 149.4.2.4 have miss _3ch_01_0119.pdf" as baselint. <i>Response Status</i> W <i>P</i> 120 Broadcom <i>Comment Status</i> D ights. change seed values anymore jurable register bits.	<i>L</i> 38 <i>L</i> 38 e.	or require revisions. figures and tables as # <u>61</u> <i>PHY Control</i> d the PHY Control	To: " Also rea Proposed R PROPO See tu_ C/ 149 Tu, Mike Comment T Remov Suggested Remov Proposed R	its transmit 65B move editorial hi esponse OSED ACCEPT 3ch_02a_0119. SC 149.4.2.5 SC 149.4.2.5 ype ER e editorial highlig e editorial highlig esponse	-RS FEC super frame to wit ghlights in this paragraph. <i>Response Status</i> W IN PRINCIPLE. <i>P</i> 121 Broadcom <i>Comment Status</i> D ghts for the first two paragra <i>Response Status</i> W	hin +0/–4*S …" 	# 65
Comment Type Subclause SuggestedRema Adopt page indicated in Proposed Respa PROPOSEI CI 149 SC Fu, Mike Comment Type 1. Remove 2. There is in 3. There is in SuggestedRema Change this "Upon enter asserts tx_r	149.4.2.4, 149 edy as 5 to 9 of "tu that documer bonse D ACCEPT. C 149.4.2.4.5 ER editorial highlinon need to exima on user configuedy s paragraph to rring the TRAII mode = SEND state = 00 and	2.4.1 to 149.4.2.4 have miss _3ch_01_0119.pdf" as baselint. <i>Response Status</i> W <i>P</i> 120 Broadcom <i>Comment Status</i> D ights. change seed values anymore jurable register bits. SUNG state, the minwait_time _T sending PAM2 together v	<i>L</i> 38 <i>L</i> 38 e.	or require revisions. figures and tables as # <u>61</u> <i>PHY Control</i> d the PHY Control	To: " Also rea Proposed R PROPO See tu_ C/ 149 Tu, Mike Comment T Remov Suggested Remov Proposed R	its transmit 65B move editorial hi esponse OSED ACCEPT 3ch_02a_0119. SC 149.4.2.5 SC 149.4.2.5 ype ER e editorial highlig e editorial highlig esponse	-RS FEC super frame to wit ghlights in this paragraph. <i>Response Status</i> W IN PRINCIPLE. <i>P</i> 121 Broadcom <i>Comment Status</i> D ghts for the first two paragra <i>Response Status</i> W	hin +0/–4*S …" 	# <u>65</u>

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

C/ 149	SC 149.4.2.5	P121	L11	# 66	C/ 149	SC 149.4.5	P130	L52	# 100
Ги, Міке	00 149.4.2.5	Broadcom	£ 11	# 00	Lo, William	30 149.4.5	Axonne Inc.	L 3 Z	# _100
	ode transmits P	Comment Status D AM4, not PAM3.		PHY Control			Comment Status D DATA state vs. baseline		PHY Contro
	ove editorial high nge end of sente l4."	nlights nce: " switches from PAM2 Response Status W	to PAM3." to '	' switches from PAM2	stop ma Add a ce	bllowing to SEN xwait_timer pnnection from	ND DATA state		
•	OSED ACCEPT.				Proposed R		oc_rcvr_status = NOT_OK de Response Status W	scribing the arc	
C/ 149 Tu, Mike	SC 149.4.2.5	P 121 Broadcom	L13	# 67		SED ACCEPT	,		
Comment T There is		<i>Comment Status</i> D E1 state. There is also no SE	ND_I for tx_mo	PHY Control ode.					
"Upon r TX_SW =SEND Proposed R	/ITCH state and _N."	to: PFC24 partial PHY frame co forces transmission into the o <i>Response Status</i> W							
/ 149 u, Mike	SC 149.4.2.5	P 121 Broadcom	L16	# 68					
Comment T "PAM3"	• •	Comment Status D 14". Also the state name sho	uld be PCS_TE	PHY Control					
SuggestedF Change "Once t	R <i>emedy</i> e this paragraph the link partner h								
_ Proposed R		Response Status W							

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

C/ 149	SC 14	9.4.2.4.5	P120	L 42	# 62	C/ 104	SC 104.9		P57	L36	#	143	
Tu, Mike			Broadcom			Zimmerm	an, George		CME:ADI,Aqu	uantia,AP			
	nove edito	rial highlig	Comment Status D ht on line 42		ntrol, Interleave, Precoder		<i>Type</i> E PICS for clause		ment Status D				PICS
2. Need	d to desci	ibe Interle	averDepth and PrecodeSe	el		Suggeste	dRemedy						
Suggested	•					Add 1	04.9 into the dr	aft as a pla	ceholder. If Type F	is collapsed in	to Type B,	it may n	not be
Change	e this para	agraph an	d then add two more parap	oraphes.			2	omment wil	ll be withdrawn.				
EEEen	i = 1. The		ity shall be enabled only if 000BASE-T1 OAM capabi			,	Response POSED ACCEP	,	nse Status W				
Set the	capability		n – I.			C/ 149	SC 149.2.2	.1.1	P70	L1	#	47	j
			the requested data mode cate interleaving depth L=			Tu, Mike			Broadcom				
Oct10< valid va	<2:1> = 0′ alue for 2.	l and 10 s 5GBASE-	hall indicate interleaving depth L– hall indicate interleaving de T1 is 00. The valid values T1 are 00, 01, and 10. The	epth of 2 and 4 for 5GBASE-T	, respectively. The only 1 are 00 and 01. The	<i>Comment</i> There	51		ment Status D Clause 55 and Claus	se 126).			PMA
			ng depth as requested by			Suggeste	dRemedy						
Procod	loSol indi	satas tha r	equested data mode preco	odor. The value	Oot10<1.3>=00 shall	Delete	e "SEND_I" and	its descrip	otions on line 1 and l	line 2.			
indicate indicate	e precode e precode	r bypass, r choice o	or no precoder. The values f 1-D, 1+D, and 1-D^2, res be able to support the sele	s Oct10<4:3> = pectively, as ir	= 01, 10, and 11 shall idicated in 149.3.2.2.19.	PROF	Response	, T IN PRIN	nse Status W CIPLE. Ige 128, lines 34&33	$\overline{5}$ and on page 1	Re line 26		
partner							-			•	-		
Proposed F	Response	F	Response Status W			C/ 149	SC 149.2.2	.1.1	P70	L1	#	89	
			PRINCIPLE.			Lo, Williar			Axonne Inc.				
capabil	lity bit EE	Een = 1. T	onal EEE capability shall b he optional BASE-T1 OAN ty bit OAMen = 1."	e enabled only / capability sha	r if both PHYs set the all be enabled only if	<i>Comment</i> Figure	<i>Type</i> T e 149-20 no lon		nent Status D END_I				PMA
Interlea	ave as de	fined in Co	omment #91 and refer to 14 selectable precoder details			Suggester Delete	<i>dRemedy</i> e the description	n on SEND	_1				
C/ 45	SC 45	5.3	P 49	L25	# 139	,	Response	,	nse Status W				
Zimmermar	n, George	•	CME:ADI,Aqua	antia,AP			POSED ACCEP	T IN PRIN	CIPLE.				
Comment 7 Add 45	•••	-	Comment Status D e 45 to the draft		PICS	Seed	omment #47						
	5.5.3 PICS		aft, with editorial license to and add PICS as needed										
	Response		Response Status W										

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

Topic PMA

C/ 149 SC 149.2.2.3.1 Tu, Mike	Р 71 Broadcom	L 46	# 50	<i>Cl</i> 45 <i>SC</i> 45.2. 1 Lo, William	1.192.4 P 34 Axonne Inc.	L12	# 85
PAM4 symbols should have va 97, tx_symb is PAM3 and it ha SuggestedRemedy Change {-3, -1, 1, 3} to {-1, -1/-	s values of {-1, 0, 1}.	1} per 149.3.2.2	<i>PMA</i> 2.20. Also, see Clause	1.2304.10:9 - Test 1.2311.3:2 - Precoo 1.2312.3:2 - Precoo	Comment Status D rs for precoder setting. mode 3 precoder setting der setting you want ler setting that the link partner .2304.10.9 captures some fuc fusion.		Precode 2.3:2 which is redundant
PROPOSED ACCEPT.				There is also a wro	ng register reference.		
As far as I can tell, a Type F P PoDL PSE and PD. Unless th be defining a new Type. SuggestedRemedy Delete current edit to 104.1.3 a 104.1.3: Insert new fourth sen C PD is compatible with 1000E compatible with 2.5GBASE-T1 requirements to show what is o	ere is a difference in a and all other clause 10 tence (after "A Type I ASE-T1 PHYs."), "A , 5GBASE-T1 and 100 lifferent about the new onse Status W NCIPLE.	requirements in electrical pa 4 edits, and ad 3 or Type C PS Type B PSE ar 3BASE-T1 PH / type.	rameter, we should not dd the following edit to SE and Type B or Type nd Type B PD is Ys."; Alternatively, add	2) Replace the entii Bits 1.2309.10:9 co 149.3.2.2.19 in the During normal oper 3) 45.2.1.195.2 - de In normal operation register bits 1.2309	, this value shall mirrorthe valu .10:9 92.4 title to Test mode 3 trans <i>Response Status</i> W	ng of the transmit test mode 3 (regi ue in the MultiGB/	tter, as defined in ister 1.2313.15:13 = 3). ASE-T1 PMA control
Cl 45 SC 45.2.1.192.4 Anslow, Pete Comment Type E Con In the heading of 45.2.1.192.4 SuggestedRemedy In the heading of 45.2.1.192.4	, , , , , , , , , , , , , , , , , , ,	,	,				
	onse Status W	,					

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

CI 30	SC 30.5.1.1.4	P24	L25	# 126	C/ 45	SC 45.2.1.1	8 F	32	L10	# 131	
Zimmerma	in, George	CME:ADI,Aqu	iantia,AP		Zimmerm	an, George	CM	E:ADI,Aq	luantia,AP		
Comment	Туре т о	Comment Status D		Registe	s Comment	Туре Т	Comment State	ıs D			Registers
2.5G/5	G/10Gb Ethernet ha	he base standard, the 8th is a list of diagnostic cond to the list for exercise	litions for PHYs	in the 5th sentence.		to add 2.5GBAS er (Register 1.2	SE-T1 and 5GBASE	-T1 to the	e 2.5G/5G PMA/F	PMD extended a	ability
We need to add the RFER to the list for excessive bit error rate diagnostics. SuggestedRemedy						SuggestedRemedy					ed row to
"Where bit (45. (45.2.2 (45.2.2 status one in one in enume	e a Clause 45 MDIO .2.1.2.4) maps to the 2.10.4) maps to the e 2.10.5) maps to the e bit (45.2.3.2.7 <us> the 10/40/100GBAS the MultiGBASE-T1 eration "excessive BE</us>	art of end of underscored interface is present a zere enumeration "PMD link f enumeration "WIS frame l enumeration "WIS signal or 45.2.3.80 <us>) maps E-R PCS Latched high B PCS status 2 PCS High ER", a zero in the DTE XS DXS link fault" and a zero</us>	ro in the PMA/P fault", a one in th oss", a one in th loss", a zero in t s to the enumera ER status bit (4 BER (45.2.3.80) S receive link sta	ne LOF status bit ne LOS status bit he PCS Receive link ation "PCS link fault", a 5.2.3.16.2) <us> or a 0 <us> maps to the atus bit (45.2.5.2.7)</us></us>	and 2 Wher 5GB/ Wher T1 PI 1.21. Wher 2.5GI	.5GBASE-T1 ab read as a one, SE-T1 PMA typ read as a zero, //A type." and "4 indicates that t	bit 1.21.5 indicates 5.2.1.18.1ab 2.5GB he PMA/PMD is abl bit 1.21.4 indicates	ws: "45.2. that the P that the F ASE-T1 a e to opera that the F	.1.18.1aa 5GBA PMA/PMD is able PMA is not able t ability (1.21.4) W ate as a 2.5GBA	SE-T1 ability (1. to operate as a to operate as a hen read as a o SE-T1 PMA typ	.21.5) a 5GBASE- one, bit re.
(45.2.4	1.2.7) maps to the er	numeration "PXS link fault	t".;"		,	,	,	5 VV			
Proposed Response Response Status W PROPOSED ACCEPT.				Need Add E	PROPOSED ACCEPT IN PRINCIPLE. Need to add Table 45-21 to the spec. Add Editor instruction: Change the identified reserved row in Table 45-21 (as modified by IEEE802.3cb) and insert new rows immediately after it as follows (unchanged rows not						
C/ 30	SC 30.5.1.1.4	P 24	L 27	# 167	show	n):		lately alt		inchanged tows	STICE
Zimmerma	in, George	CME:ADI,Aqu	iantia,AP				v to be 1.21.15:6				
Comment	Type T	Comment Status D		Registe		5 5GBASE-T1	oriate Description): ability				
"Chang but are 5G, an	ge the sixth sentence already governed b d 10G links and the	e" - Since we use XGMII y the language in the 8th Clause 46 link fault signa	paragraph relat Illing state diagr	odify not this sentence ing to XGMII and 2.5G, am. "For 2.5 Gb/s, 5	1.21.4	1 2.5GBASE-	,	suggested	d.		
the Lin Interru	k Fault Signaling sta ption map to the enu	s the enumerations map t ate diagram (Figure 46–1 imeration "available", the	1) as follows: the value Local Fau	e values OK and Link Ilt maps to the	Cl 45 Zimmerm	SC 45.2.1.1 an, George		'34 E:ADI,Aq	L 48 juantia,AP	# 134	
enumeration "not available" and the value Remote Fault maps to the enumeration "remote fault"" <comment mgmt1=""></comment>				Comment	Туре Т	Comment State	is D			Registers	
SuggestedRemedy Delete P24 L27 -33 editing instruction and edit. If <comment 2="" mgmt=""> is accepted or accepted in principle, do not delete ""30.5.1.1.4 aMediaAvailable", otherwise, if there are no</comment>				Receive fault should be latching high to be useful. 802.3cg d2p2 made this change and it survived comment resolution. SuggestedRemedy							
			Suggeste								

accepted in principle, do not delete ""30.5.1.1.4 aMediaAvailable", otherwise, if there are no other edits to this subclause following comment resolution, delete the header.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Depends upon resolution of Comment #126. Change R/W entry for 1.2310.1 to be RO/LH, add "LH = Latching High" to footnote a, and add "The receive fault bit shall be implemented with latching high behavior." to the end of the paragraph in 45.2.1.193.6 (P35 L37).

Proposed Response Response Status W

PROPOSED ACCEPT.

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

Topic Registers

Ciena comment Status D mode control bits should b / column to "R/W" and als esponse Status W		<i>Registers</i> note a to "RO = Read	is the number of RS Fra	CME:ADI,Aquan <i>Comment Status</i> D od description - it isn't a counter me errors since the last read.		<i>Registers</i> f bits. It is the number
	o change foot	note a to "RO = Read		me enors since the last read.		
			SuggestedRemedy Change description field read." Proposed Response PROPOSED ACCEPT.	from "BER counter" to "Count Response Status W	of RS Frame	errors since the last
er in MultiGBASE-T PHYs		# 111 <i>Registers</i> uct of the power backoff	C/ 149 SC 149.3.7.1 Wienckowski, Natalie Comment Type T Update registers based	P96 General Motors <i>Comment Status</i> D on Clause 45!	L 54	# <u>74</u> Registers
	gister 1.2316.	# 28	See presentation with de Proposed Response PROPOSED ACCEPT I	etails for all changes. <i>Response Status</i> W N PRINCIPLE.		ughout the document.
n error in Table 45-176 wh ified by the P802.3ch draft 76 change "3.3208" to "3. esponse Status W RINCIPLE.	, this should b	e corrected here. ethrough, "23" in	equivalent functionality. SuggestedRemedy Change "These test mod implemented these test 2nd sentence to 2nd par	Comment Status D e 45 MDIO registers is optional des shall be enabled by setting modes shall be enabled by set ragraph in 149.5.1, "If MDIO is	I. Specificatio	ister" to "If MDIO is register". Add new
	Marvell Comment Status D er in MultiGBASE-T PHYs of 't exist in MultiGBASE-T1 ad remove references to re- esponse Status W P39 Ciena Comment Status D n error in Table 45-176 who ified by the P802.3ch draft 176 change "3.3208" to "3.' esponse Status W RINCIPLE.	Marvell Comment Status D er in MultiGBASE-T PHYs was a byprodu "t exist in MultiGBASE-T1 PHYs. ad remove references to register 1.2316. esponse Status W P39 L9 Ciena Comment Status D n error in Table 45-176 where "3.2308" is ified by the P802.3ch draft, this should b 176 change "3.3208" to "3.", "32" in strike esponse Status W RINCIPLE.	Marvell Somment Status D Registers er in MultiGBASE-T PHYs was a byproduct of the power backoff "t exist in MultiGBASE-T1 PHYs." and remove references to register 1.2316. esponse Status W $\frac{P39}{L9} = \frac{L9}{28}$ Ciena Somment Status D Registers in error in Table 45-176 where "3.2308" is shown as 3.3208" iffied by the P802.3ch draft, this should be corrected here. 176 change "3.3208" to "3.", "32" in strikethrough, "23" in esponse Status W	MarvellC/ 149SC 149.3.7.1Somment Status DRegisterser in MultiGBASE-T PHYs was a byproduct of the power backoffWienckowski, NatalieI't exist in MultiGBASE-T1 PHYs.Update registers basedad remove references to register 1.2316.SuggestedRemedyresponse Status WRegistersP39L928CienaC/ 149SC 149.5.1Comment Status DRegisterscomment Status DRegistersn error in Table 45-176 where "3.2308" is shown as 3.3208"C/ 149C/ 149SC 149.5.1Zimmerman, GeorgeComment TypeComment Status DRegistersn error in Table 45-176 where "3.2308" is shown as 3.3208"Comment Type76 change "3.3208" to "3.", "32" in strikethrough, "23" inseponse Status WSuggestedRemedyRINCIPLE.Change "These test mooi implemented these test 2nd sentence to 2nd part	MarvellCl 149SC 149.3.7.1P96Comment StatusDRegistersRegistersrin MultiGBASE-T PHYs was a byproduct of the power backoffWienckowski, NatalieGeneral Motorsrit exist in MultiGBASE-T1 PHYs.TComment StatusDud remove references to register 1.2316.Seponse StatusWP39L928CienaCienaRegisterscomment StatusDRegistersromment StatusWPROPOSED ACCEPT IN PRINCIPLE.romment StatusDRegistersromment StatusDRegistersromment StatusWProposed Responseromment StatusWRegistersromment StatusWRegistersromment StatusWRegistersromment StatusWRegistersromment StatusWRegistersr	MarvellC/149SC 149.3.7.1P96L54comment Status DRegistersr in MultiGBASE-T PHYs was a byproduct of the power backoffGeneral Motors't exist in MultiGBASE-T1 PHYs.Comment Status DUpdate registers based on Clause 45!wid remove references to register 1.2316.SuggestedRemedyesponse Status WRegistersRegisters were added in Clause 45, but these were not updated throe See presentation with details for all changes.P39L9#28CienaCi 149SC 149.5.1P131L40CienaRegistersRegistersCi 149SC 149.5.1P131L40CienaRegistersCi 149SC 149.5.1P131L40Cimmernt Status DRegistersComment Type TComment Status DComment Status Diffied by the P802.3ch draft, this should be corrected here.Ci 149SC 149.5.1P131L40iffied by the P802.3ch draft, this should be corrected here.Implementation of clause 45 MDIO registers is optional. Specificatic equivalent functionality.SuggestedRemedy76 change "3.3208" to "3.", "32" in strikethrough, "23" inSuggestedRemedySuggestedRemedyRinciPLE.No See provided."SuggestedRemedySuggestedRemedyChange "These test modes shall be enabled by setting a control regiChange "These test modes shall be enabled by setting a control regirow being modified by 802.3ch. This is the row for BASE-T1Proposed ResponseResponse Status WProposed ResponseResponse Status WChange "These test mo

C/ 149 SC 149.5.1 Zimmerman, George	P 132 CME:ADI,Aqua	L 27 antia,AP	# 157	C/ 149 SC 149.5.1 Zimmerman, George	P 132 CME:ADI,Aqua	L 40 antia,AP	# 160
Comment Type T Need to define TX_TX0	Comment Status D CLK_DIV. Suggest divide by 8	3.	Test Modes	<i>Comment Type</i> T Transmitter linearity te	Comment Status D st can't be a PN sequence.		Test Mode
SuggestedRemedy				SuggestedRemedy			
divided version of TX_	lines 21-24, change "This TB CLK that times the transmitte ivided version of TX_TCLK th	ed symbols." to	"TX_TCLK_DIV is a		of symbols" through equation 2.0): Transmitter linearity test		
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response PROPOSED ACCEPT	Response Status W		
C/ 149 SC 149.5.1 Zimmerman, George	P 132 CME:ADI,Aqua	L 32 antia,AP	# 158	C/ 149 SC 149.5.1 Zimmerman, George	P 132 CME:ADI,Aqua	L 49 antia,AP	# <u>1</u> 61
Comment Type T Define test mode 2 to h SuggestedRemedy	Comment Status D have the same divide by 8 pro	posed for test r	<i>Test Modes</i> node 1.	Comment Type T Droop test should scal (transmitter output is fl	Comment Status D e approximately with transmitt paud/30).	er baud rate - :	<i>Test Mode</i> so accept the yellow text
	nbols" "three {-3} symbols" 1	o "four {+1} syr	nbols" "four {-1}	SuggestedRemedy Accept text in yellow o	n lines 49 and 50 ("fifteen {+1}	local clock s	source."
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed Response PROPOSED ACCEPT	Response Status W		
C/ 149 SC 149.5.1 Zimmerman, George	P 132 CME:ADI,Aqua	L 35 antia,AP	# 159	C/ 149 SC 149.5.1 Zimmerman, George	P 133 CME:ADI,Aqua	L 1 antia,AP	# 162
	Comment Status D bes the mapping from $\{0,3\}$ to	{-1, +1} so this	<i>Test Modes</i> is incorrect	Comment Type T Description of the test 149.	<i>Comment Status</i> D mode 7 result is needed, and	needs to be ac	<i>Test Mode</i> djusted to reflect clause
SuggestedRemedy Change {0,3} to {-1, +1	3			SuggestedRemedy			
Proposed Response PROPOSED ACCEPT	Response Status W			MAC, continuous zero decoding processing, a	nes 1 through 4 and insert "Ins data pattern is encoded. In th a zero data sequence is expec as error and calculated in BE	e receive side, ted with no err	after PCS FEC
				Proposed Response	Response Status W		

<i>Cl</i> 149 WU, Peter	SC 149.5.1	P 13 Marvell		# 171
Comment T 80B/81I	51	Comment Status I chamged to 64B/65E	-	Test Modes
SuggestedF text "80	Remedy B/81B" is change	ed to 64B/65B		
	Pesponse DSED ACCEPT I mment #162.	Response Status N N PRINCIPLE.	W	