D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

CIO SCO	Р	L	# i-1	C/ 0	SC O	P 79	L 44	# i-4	
Berger, Catherine				Wiencko	wski, Natalie	General Moto	ors Company		
Comment Type G This draft meets all edi	<i>Comment Status</i> D itorial requirements.			EZ Commer Rep	• •	<i>Comment Status</i> D with a multiplication symbol.			EZ
SuggestedRemedy					edRemedy e this change on P	979 L44 & P79 L 45.			
Proposed Response PROPOSED ACCEPT	Response Status W			,	d Response POSED ACCEPT.	Response Status W			
C/ 149 SC 149.8.2.2	2 <i>P</i> 175	L 45	# <u>i-2</u>	C/ 149	SC 149.3.6.1	P 112	L 3	# <u>i-5</u>	
Mueller, Thomas				Wiencko	wski. Natalie	General Moto	ors Company		
							sie eenipairij		
The intention of subcla requirements for a pro	Comment Status D use 149.8.2.2 was to provide per shield termination of the li	inksegment to the	e MDİ. As for today,	, This	<i>it Type</i> E sider replacing "ma is part of the "com	Comment Status D aximize" per IEEE Mandatory imon" wording used throughc	/ Editorial Coordin out 802.3. See 9	7.3.5.1, 113.3.5.1,	Note:
The internion of subcla requirements for a pro- there is not enough ex be to leave this question SuggestedRemedy Suggest to remove sub	per shield termination of the liper shield termination of the liperience / data for a solid des on to the implementer for now poclause 149.8.2.2 from the star Response Status W	inksegment to the scription of this te /.	e MDI. As for today, st. Suggestion wou	al Con ; This Ild 126 Suggest Dele Propose	It Type E sider replacing "ma is part of the "com 3.5.1, etc. The reas edRemedy	aximize" per IEEE Mandatory imon" wording used througho sons for synchronizing refres power savings, maintain link i <i>Response Status</i> W	/ Editorial Coordii out 802.3. See 9 sh intervals is not	7.3.5.1, 113.3.5.1, required for the sp	, pec.
The intention of subcla requirements for a prop there is not enough exp be to leave this question SuggestedRemedy Suggest to remove sub Proposed Response PROPOSED ACCEPT	use 149.8.2.2 was to provide per shield termination of the li perience / data for a solid des on to the implementer for now poclause 149.8.2.2 from the sta <i>Response Status</i> W	inksegment to the scription of this te /. andard due to a la	e MDI. As for today, st. Suggestion wou ack of information.	al Con ; This Ild 126 Suggest Dele Propose	It Type E sider replacing "ma is part of the "com 3.5.1, etc. The reas edRemedy te: To maximize p d Response	aximize" per IEEE Mandatory imon" wording used through sons for synchronizing refres oower savings, maintain link i <i>Response Status</i> W	/ Editorial Coordii out 802.3. See 9 sh intervals is not	7.3.5.1, 113.3.5.1, required for the sp	Note: , pec.
The intention of subcla requirements for a proj there is not enough ex be to leave this question SuggestedRemedy Suggest to remove sub Proposed Response PROPOSED ACCEPT	P 22	inksegment to the scription of this te /. andard due to a la	e MDI. As for today, st. Suggestion wou	al Con , This Id 126 Suggest Dele Propose PRO C/ 149 Wiencko	the Type E sider replacing "mains part of the "com 3.5.1, etc. The read edRemedy te: To maximize p d Response POSED ACCEPT. SC 149.3.6.1 wski, Natalie	aximize" per IEEE Mandatory mon" wording used througho sons for synchronizing refres power savings, maintain link i <i>Response Status</i> W <i>P</i> 112 General Moto	2 Editorial Coordin out 802.3. See 9 sh intervals is not integrity, and ens	7.3.5.1, 113.3.5.1, required for the sp ure interoperability	Note: , pec. y,
The intention of subcla requirements for a proj there is not enough ex be to leave this questic SuggestedRemedy Suggest to remove sut Proposed Response PROPOSED ACCEPT C/ FM SC FM Wienckowski, Natalie	use 149.8.2.2 was to provide per shield termination of the li perience / data for a solid des on to the implementer for now poclause 149.8.2.2 from the sta <i>Response Status</i> W	inksegment to the scription of this te /. andard due to a la	e MDI. As for today, st. Suggestion wou ack of information.	al Con , This , This , Id 126 Suggest Dele Propose PRO C/ 149 Wiencko Comment	the Type E sider replacing "mains part of the "com 3.5.1, etc. The rease edRemedy te: To maximize p d Response PPOSED ACCEPT. SC 149.3.6.1 wski, Natalie th Type E	aximize" per IEEE Mandatory imon" wording used through sons for synchronizing refres oower savings, maintain link i <i>Response Status</i> W <i>P</i> 112 General Moto <i>Comment Status</i> D	L 3 y Editorial Coordii but 802.3. See 9 sh intervals is not integrity, and ens L 3 prs Company	7.3.5.1, 113.3.5.1, required for the sp ure interoperability # <u>i-6</u>	Note: , pec. y,
The intention of subcla requirements for a proj there is not enough ex be to leave this questic SuggestedRemedy Suggest to remove sub Proposed Response PROPOSED ACCEPT C/ FM SC FM Wienckowski, Natalie Comment Type E	P 22 General Motor	inksegment to the scription of this te /. andard due to a la <i>L</i> 16 ors Company	e MDI. As for today, st. Suggestion wou ack of information. # <u>i-3</u>	al Con , This ild 126 Suggest Dele Propose PRO C/ 149 Wiencko Commen EZ Con	tt Type E sider replacing "ma is part of the "com 3.5.1, etc. The reas edRemedy te: To maximize p d Response POSED ACCEPT. SC 149.3.6.1 wski, Natalie tt Type E sider replacing "ens	aximize" per IEEE Mandatory mon" wording used througho sons for synchronizing refres power savings, maintain link i <i>Response Status</i> W <i>P</i> 112 General Moto	L 3 y Editorial Coordii but 802.3. See 9 sh intervals is not integrity, and ens L 3 prs Company	7.3.5.1, 113.3.5.1, required for the sp ure interoperability # <u>i-6</u>	Note: , pec. y,
The intention of subcla requirements for a pro- there is not enough ex- be to leave this question SuggestedRemedy Suggest to remove sub Proposed Response PROPOSED ACCEPT C/ FM SC FM Wienckowski, Natalie Comment Type E According to the SA Edu	P 22 General Moto Comment Status D Comment Status D Comment Status D	inksegment to the scription of this te /. andard due to a la <i>L</i> 16 ors Company	e MDI. As for today, st. Suggestion wou ack of information. # <u>i-3</u>	al Con , This , This , Id 126 Suggest Dele Propose PRO CI 149 Wiencko Commen EZ Con eted. Suggest	tt Type E sider replacing "ma is part of the "com 3.5.1, etc. The reas edRemedy te: To maximize p d Response POSED ACCEPT. SC 149.3.6.1 wski, Natalie at Type E sider replacing "ens edRemedy	aximize" per IEEE Mandatory imon" wording used througho sons for synchronizing refres power savings, maintain link i <i>Response Status</i> W	y Editorial Coordin out 802.3. See 9 sh intervals is not integrity, and ens <i>L</i> 3 ors Company ditorial Coordinat	7.3.5.1, 113.3.5.1, required for the sp ure interoperability # <u>i-6</u> tion comment.	Note: , pec. y, <i>Ez</i>
The intention of subcla requirements for a proj there is not enough ex be to leave this questic SuggestedRemedy Suggest to remove sub Proposed Response PROPOSED ACCEPT C/ FM SC FM Wienckowski, Natalie Comment Type E	iuse 149.8.2.2 was to provide per shield termination of the li perience / data for a solid des on to the implementer for now oclause 149.8.2.2 from the sta <i>Response Status</i> W <i>P</i> 22 General Moto <i>Comment Status</i> D ditors, the "IMPORTANT NOT	inksegment to the scription of this te /. andard due to a la <i>L</i> 16 ors Company	e MDI. As for today, st. Suggestion wou ack of information. # <u>i-3</u>	al Con , This Jid 126 Suggest Dele Propose PRO C/ 149 Wiencko Commen EZ Con eted. Suggest Dele	tt Type E sider replacing "ma is part of the "com 3.5.1, etc. The reas edRemedy te: To maximize p d Response POSED ACCEPT. SC 149.3.6.1 wski, Natalie at Type E sider replacing "ens edRemedy	aximize" per IEEE Mandatory imon" wording used through sons for synchronizing refres oower savings, maintain link i <i>Response Status</i> W <i>P</i> 112 General Moto <i>Comment Status</i> D	y Editorial Coordin out 802.3. See 9 sh intervals is not integrity, and ens <i>L</i> 3 ors Company ditorial Coordinat	7.3.5.1, 113.3.5.1, required for the sp ure interoperability # <u>i-6</u> tion comment.	Note: , pec. y, <i>Ez</i>

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C/ 149 SC 149.3.6.3	P 113	L 8	# i-7	C/ 14	9 SC	\$ 149.7.2		P 172	L 40	# i-10	
Wienckowski, Natalie	General Motors C	ompany		Wiend	kowski, Na	atalie		General Motors	s Company		
Comment Type E	Comment Status D			EZ Comn	ent Type	Е	Comment	Status D			ΕZ
Note: This is part of the "	mize" per IEEE Mandatory Edit common" wording used through	nout 802.3. See §	97.3.5.3,			olacing "ens 13.7.3, 126		E recommendation	on. Note: This v	wording is the same	
113.3.5.3, 126.3.5.3, etc. the spec.	The reasons for staggering	refresh signals is	not required for	Sugge	stedReme	edy					
SuggestedRemedy Change: refresh signalin	g to maximize power savings. <i>Response Status</i> W	To: refresh sig	naling.	se al al	egments is en attenua en near-e	limited, por ation to cros nd crosstall	wer sum alie sstalk ratio fa k (PSANEXT	n near-end crosst r-end (PSAACR-) loss and power	alk (PSANEXT) F) is specified. sum alien attenu	upled between link loss and power sum To: Power sum uation to crosstalk	i
PROPOSED ACCEPT.						ween link s		fied to limit the tot	ai allen NEXT a	nd allen FEXT	
C/ 149 SC 149.3.9.2.7	P 130	L 19	# i-8		sed Respo	onse DACCEPT.	'	Status W			
Wienckowski, Natalie	General Motors C	ompany									
Comment Type E	Comment Status D			EZ C/ 14	9 SC	; 149.7.2.1		P 172	L 48	# i-11	
Consider replacing "ensu This is the same wording	re" per IEEE Mandatory Editori	al Coordination c	omment. Note:	Wiend	kowski, Na	atalie		General Motors	s Company		
SuggestedRemedy	d3 57.5.5.2.7.				ent Type	Е		Status D			ΕZ
	s used to ensure proper OAM n	nessage synchror	nization between		onsider rej	placing "en	sure" per IEE	E Mandatory Edit	torial Coordination	on comment.	
	ner. To: The toggle bit lets			e Sugge	s <i>tedReme</i> nange: In	-	nit the alien c	rosstalk at the ne	ar end of a link s	segment, the	
	Response Status W			a	nd the dist	urbing link s	segment is sp	pecified to meet th	ne bit error ratio	isturbed link segmer objective. To: The	9
PROPOSED ACCEPT.										isturbed link segmer objective by limiting	ıt
C/ 149 SC 149.4.2.4.6	P 148	L 3	# i-9					of a link segment.		objective by infiniting	
Wienckowski, Natalie	General Motors C	ompany		Propo	sed Respo	onse	Response	Status W			
Comment Type E	Comment Status D			EZ P	ROPOSED	ACCEPT.					
Consider replacing "guar Note: This wording is the	antees" per IEEE Mandatory Ec e same as 97.4.2.4.6	ditorial Coordinati	on comment.								
SuggestedRemedy											
occurs on a PHY frame b	ataSwPFC24 guarantees that th oundary. To: When the valu to PAM4 occurs on a PHY fra	e of DataSwPFC		of							

Proposed Response Response Status W

PROPOSED ACCEPT.

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

Comment ID i-11

ΕZ

ΕZ

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	SC 149.7.2.2	P 173	L 42	# i-12	C/ 149A SC 149A.3	P 196	L 32	# i-15
Wienckowski	i, Natalie	General Motors	s Company		Wienckowski, Natalie	General Moto	ors Company	
Comment Ty	rpe E	Comment Status D		EZ	Comment Type E	Comment Status D		l
Consider	r replacing "ens	ure" per IEEE recommendation	on.		Consider replacing "e	ensures" per IEEE Mandatory I	Editorial Coordina	ation comment.
SuggestedRe	emedy				SuggestedRemedy			
attenuati alien AC is specifi	ion to crosstalk RF disturbers.	total alien FEXT coupled into ratio far-end ACRF is specific To: Multiple disturber attent er sum of the individual alien A k segment.	ed as the power	sum of the individual lk ratio far-end ACRF	and shielding, in orde attenuation. To: I	nsures that connectors and ca er to reach sufficient accuracy to n order to reach sufficient accu n, the connectors and cable sh	to measure coupl uracy to measure	ing and screening coupling and
Proposed Re PROPOS	esponse SED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEP	Response Status W T.		
C/ 149	SC 149.4.2.4	P 145	L 32	# i-13	C/ 149A SC 149A.4	P 198	L 27	# <u>i-16</u>
Wienckowski	i, Natalie	General Motors	s Company		Wienckowski, Natalie	General Moto	ors Company	
Comment Ty	rpe E	Comment Status D		EZ	Comment Type E	Comment Status D		I
		sure" per IEEE recommendation	on. It is not re	quired to explain why	missing period			
	irement exists.				SuggestedRemedy			
Currence and a dD	amadu					aranh		
SuggestedRe	-				Add "." at end of para	igraph.		
Change: to ensure	Infofield shall	be transmitted at least 256 tin nk partner. To: Infofield sha ets 7-10.	nes with each ch all be transmitte	ange to octets 7-10 d at least 256 times	Add "." at end of para Proposed Response PROPOSED ACCEP	Response Status W		
Change: to ensure	Infofield shall e detection at lin h change to oct	nk partner. To: Infofield sha	nes with each ch all be transmitte	nange to octets 7-10 d at least 256 times	Proposed Response PROPOSED ACCEP	Response Status W T.	/ 22	# 1
Change: to ensure with each Proposed Re	Infofield shall e detection at lin h change to oct	nk partner. To: Infofield sh ets 7-10.	nes with each ch all be transmitte	nange to octets 7-10 d at least 256 times	Proposed Response PROPOSED ACCEP Cl 0 SC 0	Response Status W T. P 1	L 28	# [i-17
Change: to ensure with eacl Proposed Re PROPOS	Infofield shall e detection at lin h change to oct esponse SED ACCEPT.	nk partner. To: Infofield sh ets 7-10. <i>Response Status</i> W	all be transmitte	d at least 256 times	Proposed Response PROPOSED ACCEP C/ 0 SC 0 Wienckowski, Natalie	Response Status W T. P1 General Moto		
Change: to ensure with each Proposed Re PROPOS	Infofield shall le detection at lin h change to oct sponse SED ACCEPT. SC 149.11.4.3	nk partner. To: Infofield shi ets 7-10. <i>Response Status</i> W 3.4 <i>P</i> 187	all be transmitter	ange to octets 7-10 d at least 256 times # <u>i-14</u>	Proposed Response PROPOSED ACCEP Cl 0 SC 0 Wienckowski, Natalie Comment Type E	Response Status W T. P1 General Moto Comment Status D		# [<u>i-17</u>
Change: to ensure with each Proposed Re PROPOS CI 149 Wienckowski	Infofield shall e detection at lin h change to oct esponse SED ACCEPT. SC 149.11.4.3 i, Natalie	nk partner. To: Infofield shi ets 7-10. <i>Response Status</i> W 3.4 <i>P</i> 187 General Motors	all be transmitter	d at least 256 times # [i-14	Proposed Response PROPOSED ACCEP Cl 0 SC 0 Wienckowski, Natalie Comment Type E Update publication da	Response Status W T. P1 General Moto Comment Status D		
Ci 149 Wienckowski	Infofield shall I e detection at lin h change to oct esponse SED ACCEPT. SC 149.11.4.3 i, Natalie pe E	nk partner. To: Infofield shi ets 7-10. <i>Response Status</i> W 3.4 <i>P</i> 187 General Motors <i>Comment Status</i> D	all be transmitter	d at least 256 times	Proposed Response PROPOSED ACCEP Cl 0 SC 0 Wienckowski, Natalie Comment Type E Update publication da SuggestedRemedy	Response Status W T. P1 General Moto Comment Status D ate for 802.3cg	ors Company	E <u></u>
Cl 149 Wienckowski Comment Ty Update F	Infofield shall le e detection at lin h change to oct esponse SED ACCEPT. SC 149.11.4.3 i, Natalie pe E PICS to match r emedy	nk partner. To: Infofield shi ets 7-10. <i>Response Status</i> W 3.4 <i>P</i> 187 General Motors <i>Comment Status</i> D requirement text.	all be transmitter	d at least 256 times # [i-14	Proposed Response PROPOSED ACCEP Cl 0 SC 0 Wienckowski, Natalie Comment Type E Update publication da SuggestedRemedy Change 20xx (or 201 L30, P35 L3, P53 L12	Response Status W T. P1 General Moto Comment Status D	23 L45, P26 L22, 1 , P55 L8, P58 L1,	P26 L29, P33 L27, P3 P66 L9, P66 L17, P67
Cl 149 Wienckowski Comment Ty Update F	Infofield shall le e detection at lin h change to oct esponse SED ACCEPT. SC 149.11.4.3 i, Natalie pe E PICS to match r emedy	nk partner. To: Infofield shi ets 7-10. <i>Response Status</i> W 3.4 <i>P</i> 187 General Motors <i>Comment Status</i> D	all be transmitter	d at least 256 times # [i-14	Proposed Response PROPOSED ACCEP Cl 0 SC 0 Wienckowski, Natalie Comment Type E Update publication da SuggestedRemedy Change 20xx (or 201 L30, P35 L3, P53 L12	Response Status W T. P1 General Moto Comment Status D ate for 802.3cg x) to 2019, also on P11 L1, P2 2, P53 L35, P53 L44, P53 L50,	23 L45, P26 L22, 1 , P55 L8, P58 L1,	P26 L29, P33 L27, P3 P66 L9, P66 L17, P67

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CIO SCO	P 1	L 28	# i-18		C/ 149	SC 149.8.2.2	2	P 175	L 45	# i-21	
Wienckowski, Natalie	General Moto	rs Company			Wienckows	ki, Natalie	(General Moto	ors Company		
Comment Type E Update publication dat	Comment Status D te for 802.3cn			EZ	Comment 7 Empty	<i>ype</i> E Subclause	Comment St	atus D			EZ
SuggestedRemedy Change 20xx (or 201x)) to 2019, also on P10 L49				<i>SuggestedI</i> Delete	Remedy subclause					
Proposed Response PROPOSED ACCEPT	Response Status W				Proposed F PROPC	esponse SED ACCEPT	Response Sta	atus W			
C/ 149 SC 149.3.6.1	I P 112	L 12	# i-19		C/ 149	SC 149.3.2.2	2.17	P 101	L 47	# i-22	
Wienckowski, Natalie	General Moto	rs Company			Wienckows	ki, Natalie	C	General Moto	rs Company		
Comment Type E	Comment Status D			ΕZ	Comment 7	ype E	Comment St	tatus D			EZ
Consider rewording to	remove "ensures".				numbe	on top of "pi" s	symbol is cut off				
SuggestedRemedy					Suggested	Remedy					
	sures that the MASTER and				Resize	equation to en	sure complete ec	quation is visi	ble.		
	e refresh periods are close to				Proposed F	•	Response Sta	atus W			
and SLAVE ALERT wi to half cycle offset.	ndows are offset from each of				PROPO	DSED ACCEPT					
	Response Status W							P 101	L 47	# li-23	
to half cycle offset.	Response Status W				C/ 149	SC 149.3.2.2	2.17	P 101 General Moto	L 47	# i-23	
to half cycle offset. Proposed Response PROPOSED ACCEPT CI 149 SC 149.3.6	Response Status W	L 30	# <u>i-20</u>		Cl 149 Wienckows Comment 7	SC 149.3.2. ki, Natalie ^T ype E	2.17 Comment St	General Moto tatus D	rs Company	# <u>i-23</u>	EZ
to half cycle offset. Proposed Response PROPOSED ACCEPT Cl 149 SC 149.3.6 Wienckowski, Natalie	Response Status W P 110 General Moto	L 30			Cl 149 Wienckows Comment 1 superse	SC 149.3.2.2 ki, Natalie Type E cript of 4 in x^4	2.17	General Moto tatus D	rs Company	# [<u>i-23</u>	EZ
to half cycle offset. Proposed Response PROPOSED ACCEPT Cl 149 SC 149.3.6 Wienckowski, Natalie Comment Type E	Response Status W P 110 General Moto Comment Status D	L 30 rs Company	# <u>i-20</u>	EZ	Cl 149 Wienckows Comment 7 superso Suggestedf	SC 149.3.2. ki, Natalie Type E cript of 4 in x^4 Remedy	2.17 Comment St	General Moto <i>tatus</i> D e other super	rs Company cripts	# <u>i-23</u>	EZ
to half cycle offset. Proposed Response PROPOSED ACCEPT Cl 149 SC 149.3.6 Wienckowski, Natalie Comment Type E Consider rewording to SuggestedRemedy	Response Status W P 110 General Moto Comment Status D remove "ensure". Remove un	<i>L</i> 30 rs Company nnecessary expla	# <u>i-20</u> inatory language.	EZ	Cl 149 Wienckows Comment 7 superse Suggested Adjust	SC 149.3.2.2 ki, Natalie ype E sript of 4 in x^4 Remedy neight of "4" in Response	2.17 Comment St is higher than the "x^4" to match he Response Sta	General Moto tatus D e other super eight of other	rs Company cripts	# <u>i-23</u>	EZ
to half cycle offset. Proposed Response PROPOSED ACCEPT CI 149 SC 149.3.6 Wienckowski, Natalie Comment Type E Consider rewording to SuggestedRemedy Delete: that is used to	Response Status W P 110 General Moto Comment Status D remove "ensure". Remove un ensure refresh signals and all	<i>L</i> 30 rs Company nnecessary expla	# <u>i-20</u> inatory language.	EZ	Cl 149 Wienckows Comment 7 superse Suggested Adjust	SC 149.3.2.2 ki, Natalie ype E cript of 4 in x^4 Remedy neight of "4" in	2.17 Comment St is higher than the "x^4" to match he Response Sta	General Moto tatus D e other super eight of other	rs Company cripts	# <u>i-23</u>	EZ
to half cycle offset. Proposed Response PROPOSED ACCEPT Cl 149 SC 149.3.6 Wienckowski, Natalie Comment Type E Consider rewording to SuggestedRemedy Delete: that is used to between the link partne	Response Status W P 110 General Moto Comment Status D remove "ensure". Remove un ensure refresh signals and all	<i>L</i> 30 rs Company nnecessary expla	# <u>i-20</u> inatory language.	EZ	Cl 149 Wienckows Comment 7 superse Suggested Adjust	SC 149.3.2.2 ki, Natalie ype E sript of 4 in x^4 Remedy neight of "4" in Response	2.17 Comment St is higher than the 'x^4" to match he Response Sta	General Moto tatus D e other super eight of other	rs Company cripts	# <u>i-23</u> # <u>i-24</u>	EZ
to half cycle offset. Proposed Response PROPOSED ACCEPT Cl 149 SC 149.3.6 Wienckowski, Natalie Comment Type E Consider rewording to SuggestedRemedy Delete: that is used to between the link partne	Response Status W P 110 General Moto Comment Status D remove "ensure". Remove un ensure refresh signals and all ers Response Status W	<i>L</i> 30 rs Company nnecessary expla	# <u>i-20</u> inatory language.	EZ	Cl 149 Wienckows Comment 7 superse Suggested Adjust Proposed F PROPO	SC 149.3.2.2 ki, Natalie ype E cript of 4 in x^4 Remedy neight of "4" in Response DSED ACCEPT SC 149.3.7.2	2.17 Comment St is higher than the "x^4" to match he Response Sta 2.1	General Moto tatus D e other super eight of other atus W	rrs Company rcripts x superscripts.		EZ
to half cycle offset. Proposed Response PROPOSED ACCEPT Cl 149 SC 149.3.6 Wienckowski, Natalie Comment Type E Consider rewording to SuggestedRemedy Delete: that is used to between the link partner Proposed Response	Response Status W P 110 General Moto Comment Status D remove "ensure". Remove un ensure refresh signals and all ers Response Status W	<i>L</i> 30 rs Company nnecessary expla	# <u>i-20</u> inatory language.	EZ	Cl 149 Wienckows Comment 7 superse Suggested Adjust Proposed F PROPC Cl 149 Wienckows Comment 7	SC 149.3.2.2 ki, Natalie ype E cript of 4 in x^4 Remedy neight of "4" in Response DSED ACCEPT SC 149.3.7.2 ki, Natalie ype E	2.17 Comment St is higher than the "x^4" to match he Response Sta 2.1	General Moto fatus D e other super eight of other atus W P 113 General Moto fatus D	rs Company cripts x superscripts. <i>L</i> 42 rs Company		EZ
to half cycle offset. Proposed Response PROPOSED ACCEPT CI 149 SC 149.3.6 Wienckowski, Natalie Comment Type E Consider rewording to SuggestedRemedy Delete: that is used to between the link partner Proposed Response	Response Status W P 110 General Moto Comment Status D remove "ensure". Remove un ensure refresh signals and all ers Response Status W	<i>L</i> 30 rs Company nnecessary expla	# <u>i-20</u> inatory language.	EZ	Cl 149 Wienckows Comment 7 superse Suggested Adjust Proposed F PROPC Cl 149 Wienckows Comment 7	SC 149.3.2.2 ki, Natalie ype E cript of 4 in x^4 Remedy neight of "4" in 1 Response OSED ACCEPT SC 149.3.7.2 ki, Natalie ype E OCK_R is not c	2.17 Comment St is higher than the "x^4" to match he Response Sta 2.1 Comment St	General Moto fatus D e other super eight of other atus W P 113 General Moto fatus D	rs Company cripts x superscripts. <i>L</i> 42 rs Company		
to half cycle offset. Proposed Response PROPOSED ACCEPT Cl 149 SC 149.3.6 Wienckowski, Natalie Comment Type E Consider rewording to SuggestedRemedy Delete: that is used to between the link partner Proposed Response	Response Status W P 110 General Moto Comment Status D remove "ensure". Remove un ensure refresh signals and all ers Response Status W	<i>L</i> 30 rs Company nnecessary expla	# <u>i-20</u> inatory language.	EZ	C/ 149 Wienckows Comment 7 superse Suggested/ Adjust Proposed F PROPO C/ 149 Wienckows Comment 7 LP_BL Suggested/ Change	SC 149.3.2.2 ki, Natalie ype E cript of 4 in x^4 Remedy neight of "4" in 1 Response DSED ACCEPT SC 149.3.7.2 ki, Natalie ype E DCK_R is not of Remedy a "LP BLOCK	2.17 Comment St is higher than the "x^4" to match he Response Sta 2.1 Comment St onsistent with oth	General Moto tatus D e other super eight of other atus W P 113 General Moto tatus D her comment	rs Company cripts x superscripts. <i>L</i> 42 rs Company	# [<u>i-24</u>	EZ

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

Comment ID i-24

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D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149 SC 149.	9.7.2.1 <i>P</i> 113	L 48	# i-25	Cl 149 SC 149.9.1	P 176	L 7	# i-28
Vienckowski, Natalie	General Mo	tors Company		Wienckowski, Natalie	General Mo	tors Company	
Comment Type E	Comment Status D		EZ	Comment Type T	Comment Status D		Environment
I_BLOCK_R is not	consistent with other comment	names.		There is an untestab	le shall.		
SuggestedRemedy				SuggestedRemedy			
Change "I_BLOCk make the same ch	_R" to "IBLOCK_R" to be consi ange on P125 L14.	stent with other cor	nment names. Also	national, and applica	ent subject to this clause shall tion-specific standards." To ".	All equipment subj	ect to this clause is
Proposed Response	Response Status W			expected to conform standards." Also de	to all applicable local, state, r lete PICS ES2.	national, and applic	cation-specific
PROPOSED ACC	EPT.			Proposed Response	Response Status W		
C/ 149 SC 149.	9.9.2.1 <i>P</i> 129	L 4	# i-26	PROPOSED ACCEF	РТ.		
Wienckowski, Natalie		tors Company		C/ 149 SC 149.9.2	P 176	L 18	# i-29
Comment Type E	Comment Status D		EZ	Wienckowski, Natalie	General Mo	tors Company	
The use of "0s" is	not consistent with other 802.3	Clauses.		Comment Type T	Comment Status D		Environment
SuggestedRemedy Change "0s" to "0'	s". Also make the same change	e on P129 L 27 and	P185 L20.	There is an untestab this draft.	le shall which applies to the fi	nal instalation, not	the PHY defined by
Proposed Response	Response Status W			SuggestedRemedy			
PROPOSED ACC	EPT.				e applications, all cabling sha by the motor vehicle sheet me		
C/ 149 SC 149.	0.1 P 176	L 5	# i-27		29, and ISO 15764. Also del		g
Wienckowski, Natalie	General Mo	tors Company		Proposed Response	Response Status W		
Comment Type T	Comment Status D		Environment	PROPOSED ACCEF	РТ.		
There is an untest	able shall.			C/ 149 SC 149.3.9	0.2.13 <i>P</i> 132	L 38	# i-30
SuggestedRemedy				Wienckowski, Natalie		tors Company	
Delete: All equipm	ent subject to this clause shall	conform to IEC 623	68-1 (or IEC 60950-1)	Comment Type E	Comment Status D	toro company	EZ
(for IT and motor v only, if required by	ehicle applications) and to ISO the given application). Also de	26262 (for motor ve lete PICS ES1.	ehicle applications	typo, unnecessary "t			
Proposed Response	Response Status W			SuggestedRemedy			
PROPOSED ACC	EPT.			Change "when the E	EE is implemented" To "when	EEE is implement	ted".
				Proposed Response PROPOSED ACCEF	Response Status W		

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149 SC 149.3.9	2.17 P 133	L 31	# i-31	C/ 149B	SC 149B.4.	1	P 204	L 33	# <u>i-34</u>
Wienckowski, Natalie	General Moto	ors Company		Wienckows	ki, Natalie		General Moto	rs Company	
Comment Type E	Comment Status D		EZ	Comment 7	Туре Т	Comment	Status D		State Diagrams
type, missing space a	fter period			Need to	o add referenc	e to state diagra	am notation ext	ensions as done	e in 149.1.6.
SuggestedRemedy				Suggested	Remedy				
Add space after "is or	curring concurrently and bi-di	rectionally."							ntions of state diagrams
Proposed Response PROPOSED ACCEP	Response Status W				ntions of state of			e state diagrams along with the e	follows the extensions described in
C/ 149 SC 149.3.7	1 P113	L 21	# i-32	Proposed F	Response	Response 3	Status W		
Wienckowski, Natalie			# -32	PROP	OSED ACCEP	Г.			
Comment Type T	General Moto Comment Status D	ors Company	State Diagrams	Should	be "FALSE" o	nlv when this re	epresents a var	iable value	
Delete the reference the SuggestedRemedy	to state diagram notation as thus used in the state diagrams follows		1.6 for the Clause.	Chang L40, P P121 L	e "false" to "FA 115 L44, P115 .39, P123 L19,	LSE" on P114 L45, P115 L49 P124 L17, P12	L18, P114 L31, , P115 L54, P1 25 L 15, P125 L	P115 L19, P11 16 L4, P116 L1 23, P126 L6, P1	5 L34, P115 L38, P115 1, P119 L25, P121 L7, 26 L7, P126 L8, P126 27 P140 L12 P152
Delete the reference the SuggestedRemedy	to state diagram notation as thused in the state diagrams followed <i>Response Status</i> W		1.6 for the Clause.	Chang L40, P P121 L L35, P L22, P P206 L	e "false" to "FA 115 L44, P115 .39, P123 L19, 126 L43, P138 156 L28, P157 .6, P206 L30, F	LSE" on P114 L45, P115 L49 P124 L17, P12 L19, P138 L44 L12, P158 L9, 2206 L41.	L18, P114 L31, , P115 L54, P1 25 L 15, P125 L , P138 L46, P1 P190 L3, P204	P115 L19, P11 16 L4, P116 L1 ⁻ 23, P126 L6, P1: 39 L51, P139 L5	1, P119 L25, P121 L7,
Delete the reference to SuggestedRemedy Delete "The notation as described in 21.5." Proposed Response PROPOSED ACCEP	to state diagram notation as th used in the state diagrams foll <i>Response Status</i> W T.	ows the conventio	1.6 for the Clause.	Chang L40, P P121 L L35, P L22, P P206 L	e "false" to "FA 115 L44, P115 .39, P123 L19, 126 L43, P138 156 L28, P157 .6, P206 L30, F	LSE" on P114 L45, P115 L49 P124 L17, P12 L19, P138 L44 L12, P158 L9,	L18, P114 L31, , P115 L54, P1 25 L 15, P125 L , P138 L46, P1 P190 L3, P204	P115 L19, P11 16 L4, P116 L1 ⁻ 23, P126 L6, P1: 39 L51, P139 L5	1, P119 L25, P121 L7, 26 L7, P126 L8, P126 53, P149 L12, P152
Delete the reference to SuggestedRemedy Delete "The notation as described in 21.5." Proposed Response PROPOSED ACCEP C/ 149 SC 149.3.9.	to state diagram notation as the used in the state diagrams followed in <i>Response Status</i> W T. 4.1 <i>P</i> 136	ows the conventio	1.6 for the Clause.	Chang L40, P P121 L L35, P L22, P P206 L	e "false" to "FA 115 L44, P115 .39, P123 L19, 126 L43, P138 156 L28, P157 .6, P206 L30, F	LSE" on P114 L45, P115 L49 P124 L17, P12 L19, P138 L44 L12, P158 L9, 2206 L41.	L18, P114 L31, , P115 L54, P1 25 L 15, P125 L , P138 L46, P1 P190 L3, P204	P115 L19, P11 16 L4, P116 L1 ⁻ 23, P126 L6, P1: 39 L51, P139 L5	1, P119 L25, P121 L7, 26 L7, P126 L8, P126 53, P149 L12, P152
Delete the reference to SuggestedRemedy Delete "The notation as described in 21.5." Proposed Response PROPOSED ACCEP C/ 149 SC 149.3.9 Wienckowski, Natalie	to state diagram notation as the used in the state diagrams followed in the state diagrams fo	ows the conventio	1.6 for the Clause. ons of state diagrams # [<u>i-33</u>	Chang L40, P P121 L L35, P L22, P P206 L	e "false" to "FA 115 L44, P115 .39, P123 L19, 126 L43, P138 156 L28, P157 .6, P206 L30, F	LSE" on P114 L45, P115 L49 P124 L17, P12 L19, P138 L44 L12, P158 L9, 2206 L41.	L18, P114 L31, , P115 L54, P1 25 L 15, P125 L , P138 L46, P1 P190 L3, P204	P115 L19, P11 16 L4, P116 L1 ⁻ 23, P126 L6, P1: 39 L51, P139 L5	1, P119 L25, P121 L7, 26 L7, P126 L8, P126 53, P149 L12, P152
Delete the reference to SuggestedRemedy Delete "The notation as described in 21.5." Proposed Response PROPOSED ACCEP C/ 149 SC 149.3.9. Wienckowski, Natalie Comment Type T	to state diagram notation as the used in the state diagrams follower as the state diagrams follower as the state of the st	ows the conventio	1.6 for the Clause. ons of state diagrams # [i-33 State Diagrams	Chang L40, P P121 L L35, P L22, P P206 L	e "false" to "FA 115 L44, P115 .39, P123 L19, 126 L43, P138 156 L28, P157 .6, P206 L30, F	LSE" on P114 L45, P115 L49 P124 L17, P12 L19, P138 L44 L12, P158 L9, 2206 L41.	L18, P114 L31, , P115 L54, P1 25 L 15, P125 L , P138 L46, P1 P190 L3, P204	P115 L19, P11 16 L4, P116 L1 ⁻ 23, P126 L6, P1: 39 L51, P139 L5	1, P119 L25, P121 L7, 26 L7, P126 L8, P126 53, P149 L12, P152
Delete the reference to SuggestedRemedy Delete "The notation as described in 21.5." Proposed Response PROPOSED ACCEP C/ 149 SC 149.3.9. Wienckowski, Natalie Comment Type T Delete the reference to	to state diagram notation as the used in the state diagrams followed in the state diagrams fo	ows the conventio	1.6 for the Clause. ons of state diagrams # [i-33 State Diagrams	Chang L40, P P121 L L35, P L22, P P206 L	e "false" to "FA 115 L44, P115 .39, P123 L19, 126 L43, P138 156 L28, P157 .6, P206 L30, F	LSE" on P114 L45, P115 L49 P124 L17, P12 L19, P138 L44 L12, P158 L9, 2206 L41.	L18, P114 L31, , P115 L54, P1 25 L 15, P125 L , P138 L46, P1 P190 L3, P204	P115 L19, P11 16 L4, P116 L1 ⁻ 23, P126 L6, P1: 39 L51, P139 L5	1, P119 L25, P121 L7, 26 L7, P126 L8, P126 53, P149 L12, P152
Delete the reference to SuggestedRemedy Delete "The notation as described in 21.5." Proposed Response PROPOSED ACCEP C/ 149 SC 149.3.9. Wienckowski, Natalie Comment Type T Delete the reference to SuggestedRemedy	to state diagram notation as the used in the state diagrams followed in the state diagrams followed in the state diagrams followed in the state of the state of the state diagram notation as the state diagram notation	ows the conventio <i>L</i> 9 ors Company his is done in 149.	1.6 for the Clause. ons of state diagrams # [i-33 State Diagrams 1.6 for the Clause.	Chang L40, P P121 L L35, P L22, P P206 L	e "false" to "FA 115 L44, P115 .39, P123 L19, 126 L43, P138 156 L28, P157 .6, P206 L30, F	LSE" on P114 L45, P115 L49 P124 L17, P12 L19, P138 L44 L12, P158 L9, 2206 L41.	L18, P114 L31, , P115 L54, P1 25 L 15, P125 L , P138 L46, P1 P190 L3, P204	P115 L19, P11 16 L4, P116 L1 ⁻ 23, P126 L6, P1: 39 L51, P139 L5	1, P119 L25, P121 L7, 26 L7, P126 L8, P126 53, P149 L12, P152
Delete the reference to SuggestedRemedy Delete "The notation as described in 21.5." Proposed Response PROPOSED ACCEP C/ 149 SC 149.3.9. Wienckowski, Natalie Comment Type T Delete the reference to SuggestedRemedy	to state diagram notation as the used in the state diagrams following <i>Response Status</i> W T. 4.1 <i>P</i> 136 General Mote <i>Comment Status</i> D to state diagram notation as the used in the state diagrams following <i>Comment State</i> diagrams following <i>Comment St</i>	ows the conventio <i>L</i> 9 ors Company his is done in 149.	1.6 for the Clause. ons of state diagrams # [i-33 State Diagrams 1.6 for the Clause.	Chang L40, P P121 L L35, P L22, P P206 L	e "false" to "FA 115 L44, P115 .39, P123 L19, 126 L43, P138 156 L28, P157 .6, P206 L30, F	LSE" on P114 L45, P115 L49 P124 L17, P12 L19, P138 L44 L12, P158 L9, 2206 L41.	L18, P114 L31, , P115 L54, P1 25 L 15, P125 L , P138 L46, P1 P190 L3, P204	P115 L19, P11 16 L4, P116 L1 ⁻ 23, P126 L6, P1: 39 L51, P139 L5	1, P119 L25, P121 L7, 26 L7, P126 L8, P126 53, P149 L12, P152
Delete the reference to SuggestedRemedy Delete "The notation as described in 21.5." Proposed Response PROPOSED ACCEP C/ 149 SC 149.3.9. Wienckowski, Natalie Comment Type T Delete the reference to SuggestedRemedy Delete "The notation	to state diagram notation as the used in the state diagrams following <i>Response Status</i> W T. 4.1 <i>P</i> 136 General Mote <i>Comment Status</i> D to state diagram notation as the used in the state diagrams following <i>Comment State</i> diagrams following <i>Comment St</i>	ows the conventio <i>L</i> 9 ors Company his is done in 149.	1.6 for the Clause. ons of state diagrams # [i-33 State Diagrams 1.6 for the Clause.	Chang L40, P P121 L L35, P L22, P P206 L	e "false" to "FA 115 L44, P115 .39, P123 L19, 126 L43, P138 156 L28, P157 .6, P206 L30, F	LSE" on P114 L45, P115 L49 P124 L17, P12 L19, P138 L44 L12, P158 L9, 2206 L41.	L18, P114 L31, , P115 L54, P1 25 L 15, P125 L , P138 L46, P1 P190 L3, P204	P115 L19, P11 16 L4, P116 L1 ⁻ 23, P126 L6, P1: 39 L51, P139 L5	1, P119 L25, P121 L7, 26 L7, P126 L8, P126 53, P149 L12, P152

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149	SC 149.3.7.2.2	2 P 114 L 18	# i-35	C/ 149	SC 149.2.2.	7.1 <i>P</i> 88	L 39	# <u>i-36</u>
Wienckov	vski, Natalie	General Motors Company		Wienckow	vski, Natalie	General Moto	ors Company	
Comment	Туре Е	Comment Status D	EZ	Comment	Туре Е	Comment Status D		EZ
Incon	sistency in docume	ent. Sometimes "false" and sometimes "FALSE"		Incor	sistency in docu	ment. Sometimes "true" and	sometimes "TRUE"	

Inconsistency in document. Sometimes "false" and sometimes "FALSE".

SuggestedRemedy

Change "false" to "FALSE", also on P114 L31, P115 L19, P115 L34, P115 L38, P115 L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P123 L20, P126 L6, P126 L7, P126 L8, P126 L35, P126 L44, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Should be "FALSE" only when this represents a variable value.

Change "false" to "FALSE" on P114 L18, P114 L31, P115 L19, P115 L34, P115 L38, P115 L40, P115 L44, P115 L45, P115 L49, P115 L54, P116 L4, P116 L11, P119 L25, P121 L7, P121 L39, P123 L19, P124 L17, P125 L 15, P125 L23, P126 L6, P126 L7, P126 L8, P126 L35, P126 L43, P138 L19, P138 L44, P138 L46, P139 L51, P139 L53, P149 L12, P152 L22, P156 L28, P157 L12, P158 L9, P190 L3, P204 L48, P205 L1, P205 L7, P205 L13, P206 L6. P206 L30. P206 L41.

Also, change "False" to "FALSE" on P136 L20.

SuggestedRemedy

Change "true" to "TRUE", also on P112 L33, P112 L35, P112 L37, P112 L44, P112 L46, P112 L48, P114 L18, P114 L24, P114 L30, P114 L37, P114 L52, P115 L33, P115 L37, P115 L43, P115 L48, P115 L52, P116 L2, P116 L7, P116 L10, P116 L25, P116 L30, P116 L35, P116 L41, P119 L24, P119 L25, P119 L39, P119 L45, P123 L9, P123 L27, P123 L36, P138 L20, P138 L41, P138 L47, P139 L48, P139 L54, P144 L12, P144 L43, P156 L29, P157 L13, P157 L50, P186 L40, P204 L49, P205 L2, P205 L8, P205 L14

Proposed Response	Response Status	W
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PROPOSED ACCEPT IN PRINCIPLE.

Should be "TRUE" only when this represents a variable value.

Change "true" to "TRUE" on P112 L33, P112 L35, P112 L37, P112 L44, P112 L46, P112 L48, P114 L18, P114 L24, P114 L27, P114 L30, P114 L37, P114 L52, P115 L33, P115 L37, P115 L43, P115 L48, P115 L52, P116 L2, P116 L7, P116 L10, P116 L25, P116 L30, P116 L35, P116 L41, P119 L24 (2x), P119 L25, P119 L39, P119 L45, P121 L39, P123 L9, P125 L 8, P125 L16, P126 L17, P126 L27, P126 L36, P138 L20, P138 L41, P138 L47, P139 L48, P139 L54, P144 L43, P156 L29, P157 L13, P157 L50, P158 L49, P186 L40, P204 L49, P205 L2, P205 L8, P205 L14, P206 L18.

Also, change "True" to "TRUE" on P136 L19.

C/ 149	SC 149.4.2.3	P 1	44	L 49	# <u>i-37</u>	
Wienckow	ski, Natalie	Gene	eral Moto	ors Company		
<i>Comment</i> missir	<i>Type</i> E ng article	Comment Status	D			EZ
Suggested Chang	,	air" To "over the re	ceive pa	air".		
,	Response POSED ACCEPT.	Response Status	W			

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149 SC 149.4.2	2.4 <i>P</i> 145	L 21	# : 00	C/ 149 SC 149.5.1	P 160	L8	# : 44	L
			# i-38		1.00	-•	# i-41	
Nienckowski, Natalie	General Moto	rs Company	-	Wienckowski, Natalie		tors Company		
Comment Type E	Comment Status D ate diagram, not a description of	o ototo diogram	E.	Comment Type E Redundant word	Comment Status D			EZ
0	ne diagram, not a description of	a state ulayram.						
SuggestedRemedy	ol shall comply with the state dia	aram description	givon in Figuro 140	SuggestedRemedy Change "BER testing'	' to "BED"			
	ol shall comply with the state dia			Proposed Response				
Proposed Response	Response Status W			PROPOSED ACCEP	Response Status W			
PROPOSED ACCEP	PT.				1.			
C/ 149 SC 149.4.2	2.4 <i>P</i> 145	1.00	# : 00	C/ 149 SC 149.5.1	P 161	L 12	# i-42	
		L 26	# i-39	Wienckowski, Natalie	General Mot	tors Company		
Wienckowski, Natalie Comment Type E	General Moto Comment Status D	rs Company	E	Comment Type E	Comment Status D			ΕZ
Redundant text			E.	missing article				
Redundant text				SuggestedRemedy				
Suggested				Suggesteurkemedy				
Change "16th partial	IPHY frame (bits 6750 to 6845)	of the PHY frame	e." To "16th partial		ncoding received data from M	/AC," To "Instead	of encoding receiv	ved
Change "16th partial PHY frame (bits 675	0 to 6845)."	of the PHY frame	e." To "16th partial	Change "Instead of er	ncoding received data from M Response Status W	/IAC," To "Instead	of encoding receiv	ved
	0 to 6845)." ` Response Status W	of the PHY frame	e." To "16th partial	Change "Instead of er data from the MAC,"	Response Status W	/AC," To "Instead	of encoding receiv	ved
Change "16th partial PHY frame (bits 675 Proposed Response	0 to 6845)."` Response Status W PT.	of the PHY frame	e." To "16th partial # i-40	Change "Instead of er data from the MAC," <i>Proposed Response</i> PROPOSED ACCEP	Response Status W T IN PRINCIPLE. ncoding received data from N		Ŭ	
Change "16th partial PHY frame (bits 675 Proposed Response PROPOSED ACCEF C/ 149 SC 149.4.2 Wienckowski, Natalie	0 to 6845)." ` <i>Response Status</i> W PT. 2.6.2 <i>P</i> 152 General Moto	L 45	# <u>i-40</u>	Change "Instead of er data from the MAC," <i>Proposed Response</i> PROPOSED ACCEP Change "Instead of er	Response Status W T IN PRINCIPLE. ncoding received data from N		Ŭ	
Change "16th partial PHY frame (bits 675 Proposed Response PROPOSED ACCEF C/ 149 SC 149.4.2 Wienckowski, Natalie Comment Type E	0 to 6845)." ` <i>Response Status</i> W PT. 2.6.2 <i>P</i> 152	L 45		Change "Instead of er data from the MAC," Proposed Response PROPOSED ACCEP Change "Instead of er received from the MA	Response Status W T IN PRINCIPLE. ncoding received data from M C,"	/AC," To "Instead	of encoding data	
Change "16th partial PHY frame (bits 675 Proposed Response PROPOSED ACCEF C/ 149 SC 149.4.2 Wienckowski, Natalie Comment Type E Missing spaces	0 to 6845)." ` <i>Response Status</i> W PT. 2.6.2 <i>P</i> 152 General Moto	L 45	# <u>i-40</u>	Change "Instead of er data from the MAC," Proposed Response PROPOSED ACCEP Change "Instead of er received from the MA	Response Status W T IN PRINCIPLE. ncoding received data from M C,"	IAC," To "Instead	of encoding data	
Change "16th partial PHY frame (bits 675 Proposed Response PROPOSED ACCEF CI 149 SC 149.4.2 Nienckowski, Natalie Comment Type E Missing spaces SuggestedRemedy	0 to 6845)." <i>Response Status</i> W PT. 2.6.2 <i>P</i> 152 General Moto <i>Comment Status</i> D	L 45 rs Company	# <u>i-40</u>	Change "Instead of er data from the MAC," Proposed Response PROPOSED ACCEP Change "Instead of er received from the MA C/ 149 SC 149.5.1 Wienckowski, Natalie	Response Status W T IN PRINCIPLE. ncoding received data from M C," P 161 General Mot	IAC," To "Instead	of encoding data	
Change "16th partial PHY frame (bits 675 Proposed Response PROPOSED ACCEF CI 149 SC 149.4.2 Wienckowski, Natalie Comment Type E Missing spaces SuggestedRemedy Add non-breaking sp	0 to 6845)." <i>Response Status</i> W PT. 2.6.2 <i>P</i> 152 General Moto <i>Comment Status</i> D baces around +/- symbol, also o	L 45 rs Company	# <u>i-40</u>	Change "Instead of er data from the MAC," Proposed Response PROPOSED ACCEP Change "Instead of er received from the MA Cl 149 SC 149.5.1 Wienckowski, Natalie Comment Type E	Response Status W T IN PRINCIPLE. ncoding received data from M C," P 161 General Mot	IAC," To "Instead	of encoding data	
Change "16th partial PHY frame (bits 675 Proposed Response PROPOSED ACCEF CI 149 SC 149.4.2 Wienckowski, Natalie Comment Type E Missing spaces SuggestedRemedy	0 to 6845)." ````````````````````````````````````	L 45 rs Company	# <u>i-40</u>	Change "Instead of er data from the MAC," Proposed Response PROPOSED ACCEP Change "Instead of er received from the MA Cl 149 SC 149.5.1 Wienckowski, Natalie Comment Type E poor wording SuggestedRemedy	Response Status W T IN PRINCIPLE. ncoding received data from M C," P 161 General Mot	/AC," To "Instead <i>L</i> 12 tors Company	of encoding data	

P802.3ch D	3.0	D3.0 Physical La	yer Specificat	tions and Managem	ent Parameter	s for 2.5 Gb/	s, 5 Gb/s,	and 10 Gb/s	Auto	
C/ 149 SC	149.5.1	P 161	L 14	# i-44	C/ 45	SC 45.2.1.1	95.4	P 40	L 36	# i-46
Wienckowski, Na	atalie	General Motor	s Company		Rannow, F	к		IEEE/SELF		
<i>Comment Type</i> missing artic	E le	Comment Status D		EZ	Comment using	3 1		<i>nt Status</i> D bose in nearly 20	instances.	Editorial
	,	S-FEC block error rate." To	'calculated in the	RS-FEC block error	Suggested Remo	<i>Remedy</i> /e the work "bot	h"			
rate." Proposed Respo PROPOSED		Response Status W			Proposed PROP	Response OSED REJECT	,	e Status 🛛 W		
C/ 149 SC	149.5.2.2	P 162	L 50	# i-45	does r	ot contain suffic	ient detail so	o that the CRG c	an understand th	hange in the comment e specific changes that
Wienckowski, Na	atalie	General Motor	s Company							arly 20" instances mes in the "new text".
<i>Comment Type</i> missing Oxfo	E ord comma	Comment Status D		EZ	A sear	ch of 802.3-201 only used in this	8 shows tha		is found 938 time	es. This is a word
SuggestedReme	dy				actions	5.				
Change "100 36 dB in 5GE	GBASE-T1, BASE-T1, ai	36 dB in 5GBASE-T1 and 3 nd 35 dB in 2.5G mode"	5 dB in 2.5G mod	de" To "10GBASE-T1,	disagr	ees with the con	nmenter. Th		this instance is r	not extraneous and
Proposed Respo PROPOSED		Response Status W			link pa		SE-IT UAM	capability require	es support by bol	th the local PHY and its
FROFUSED	ACCEPT.				C/ 149A	SC 149A.4		P 197	L 27	# i-47
					Boyer, Ric	n		Aptiv - Signa	l and Power Solu	tions
					Comment	Туре Т	Comme	nt Status D		149A
					*** Co attach		d with the file	e 103045400003	-Figure149A-2_C	Comment_RevA.pdf
					To ma	ke Figure 149A-	2 more desc	criptive.		
					Suggested	Remedy				
					Port 1 match Port 1 conne	both these lines the width of coa of "Coax", Add cts to the shield	are to be co ix line from a ines that sho of connecto	bax. Therefore; 1 as from Port 2; Ao ow that each of th r on the test fixtu	The lines are mad dd that the text to ne Coax shields f re; Show an expl	From the VNA Diff. le to be thicker to each line from Diff. rom Diff. Port 1 oded view that inner a next to this exploded

view. Proposed Response

PROPOSED ACCEPT.

Comment ID i-47

Response Status W

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto



both ends of the cable shield should be directly connected to the signal ground using techniques suitable for RF applications in the frequency range of interest when implementing cable assemblies into vehicles. This is necessary so that the vehicle implementation matches the coupling and screening attenuation test methodology in this Annex.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

It is not necessary to explain why the requirement exists.

ADD the following sentence at the end of paragraph that starts on page 198 line 6. "In addition, both ends of the cable shield should be directly connected to the signal ground using techniques suitable for RF applications in the frequency range of interest when implementing cable assemblies into vehicles."

P 172

L 52

CI	149	SC 149.7.2.1	
Ο,	140	00 140.1.2.1	

Kumada, Taketo

Comment Type T Comment Status D

Link Segment

i-49

Equation 149-25 draws this required line based on the measurement results when all the cables configured around are composed of STP cables in the 4 around 1 measurement. Therefore, I think it is necessary to include a comment that clearly states that all the cables that are configured around are STP cables. This is because it is assumed that it is difficult to satisfy this requirement when the surrounding cables are composed of cables such as J-UTP cable and UTP cable.

SuggestedRemedy

After Equation 149-25, please add as follows. However, this equation is for the case where the surrounding cables are composed of STP cables.

Proposed Response Response Status W

PROPOSED REJECT.

The CRG disagrees with the commenter. This equation defines what is required for the PHYs to operate properly. This applies to all link segments. While it is likely that only shielded cables can meet this requirement, specifying that this requirement only applies to shielded cables would have the unintended side effect of allowing a violation of this equation's limits if unshielded cables were used.

SuggestedRemedy

After Equation 149-26, please add as follows. However, this equation is for the case where the surrounding cables are composed of STP cables.

Proposed Response Response Status W

PROPOSED REJECT.

The CRG disagrees with the commenter. This equation defines what is required for the PHYs to operate properly. This applies to all link segments. While it is likely that only shielded cables can meet this requirement, specifying that this requirement only applies to shielded cables would have the unintended side effect of allowing a violation of this equation's limits if unshielded cables were used.

C/ 149	SC 149.1.3.1	P 79	L 41	#	i-51
Lo, William					

Comment Type T Comment Status D

Nomenclature

tx_group50x65B is used in several places but it loosely defined and never formally defined. There can be misinterpretation of the bit ordering.

SuggestedRemedy

(Editorial Note. I cannot show subscripts in the spreadsheet so I will enclose anything that needs to be subscripted with **. For example A*n* is An with n subscripted. I'm not sure if the carriage return will show up in the file so a <cr> means carriage return.) <Begin proposed Change> In line 47 insert the following: <cr> tx_group50x65B<3249:0> is defined as: <cr> tx_group50x65B<65 * i + j> = tx_coded*i*<j> <cr> where i = 0 to 49 and j = 0 to 64 and tx_coded*i*<64:0> is the ith 64B/65B block where tx_coded*0*<64:0> is the first one transmitted.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The text description of what to do is hard to understand and the usage of "*" to indicate both subscripts and multiplication is confusing.

Implement the changes show in wienckowski_3ch_D3p0_comment51.pdf.

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

Comment ID i-51

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D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto



The following text is confusing as it is not clear what constitute the leftmost/LSB element: "For both x and c (see 149.3.2.2.17) the encoder shall follow the notation described in 149.3.2.2.3 where the LSB (leftmost element of the vectors x and c) is the first bit into the RS-FEC encoder and the first transmitted bit." x infers a position and there is no concept of MSB or LSB. c is a vector with MSB and LSB, but which bit of c is considered the MSB/LSB? For example page 102 line 6 m is the bit vector <m9, m8, m7, m6, ... m0> is m0 the LSB, or the leftmost element m9 the LSB? This text is not really necessary since 149.3.2.2.17 describes things in adequate detail.

SuggestedRemedy

My preference is to delete "For both x and c (see 149.3.2.2.17) the encoder shall follow the notation described in 149.3.2.2.3 where the LSB (leftmost element of the vectors x and c) is the first bit into the RS-FEC encoder and the first transmitted bit." since 149.3.2.2.17 adequately describes this. But if we want to leave the text alone I'm ok.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Delete "For both x and c (see 149.3.2.2.17) the encoder shall follow the notation described in 149.3.2.2.3 where the LSB (leftmost element of the vectors x and c) is the first bit into the RS-FEC encoder and the first transmitted bit."

C/ 149	SC 149.3.2.2.17	P 102	L7	# i-53

Lo, William

Comment Type T Comment Status D

RS-FEC

The transmitted order of the codeword symbol can be made more explicit. Page 102 line 30 state bit 0 is transmitted first. From Page 102 line 6 m*i,0* can be inferred as bit 0 but this is not explicitly stated. Page 100 line 29 adds to the confusion that states the leftmost element is the LSB and we have m*i,9* being the leftmost element.

SuggestedRemedy

Add the following for more clarity. Page 102 line 7 after the end of "finite field." add: "m*i,0* is the first bit transmitted." Add the following to make things complete. Copy first sentence in page 102 line 6 to page 102 line 22 except replace "message" with "parity" and "m", with "p", add: "p*i,0* is the first bit transmitted."

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 1	SC 1.4.494b	P 2:	3	L 46	# i-5	4
Zimmerman,	George	ADI, A	APL Group,	Aquantia, B	MW, Cisco, C	CommScop
Comment Typ	be E	Comment Status	D			EZ

IEEE Std 802.3cg-201x has been approved as IEEE Std 802.3cg-2019

SuggestedRemedy

change 802.3cg-201x to 802.3cg-2019 on P23 L45, and globally (several instances - pages 26, 33, 34, 35, 53, 55, 58, 66, 67, 68, 69, 195 - some more than 1 per page)

Proposed Response Response Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

C/ 45	SC	45.2.1.194	4.1	P 38	L 51	# i-55	
Zimmerman,	Geo	rge		ADI, APL Gro	oup, Aquantia, BN	MW, Cisco, CommSc	юр
Comment Ty	pe	Е	Comme	ent Status D			ΕZ
149.3.2.2	2.18 0	doesn't de	scribe Ree	ed Solomon interle	eaving, it describe	es the PCS	

Scrambler. The correct reference is 149.3.2.2.15. The same issue exists in 45.2.1.195.1 page 39 line 38.

SuggestedRemedy

Change cross reference from 149.3.2.2.18 to 149.3.2.2.15 (or appropriate link if renumbered) in both 45.2.1.194.1 and 45.2.1.195.1

Proposed Response Response Status W

PROPOSED ACCEPT.

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

Comment ID i-55

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Interleave

C/ 45	SC 45.2.1.194	P 38	L 19	# i-56

Zimmerman, George Comment Type TR

ADI, APL Group, Aguantia, BMW, Cisco, CommScop Comment Status D

Table 45-155c, bits 1.2311.12:11 description indicates that values L=2 is Reserved for 2.5GBASE-T1, and L=4 is reserved for 2.5GBASE-T1 and 5GBASE-T1, but the specification does not appear to say what happens if the control register is set to those values - what will L be in those cases - will those values be requested, or will something be substituted? The same issue exists in Table 45-155d and 45.2.1.195.1 Further -the term "reserved" is not correct. what we mean is that those values are not defined.

SugaestedRemedv

Suggest: (1) changing "Reserved" to "undefined" in the description of bits 1.2311.12:11 in Table 45-155c, and (2) to add a new paragraph to 45.2.1.194.1 stating, "The values of L = 2 and L=4 are not defined for 2.5GBASE-T1 PHYs, and the value of L=4 is not defined for 5GBASE-T1 PHYs. If bits 1.2311.12:11 are set to these values, the PHY will communicate these values to the link partner, but the requested interleaver depth is out of scope of this standard and may not be supported by the link partner." Add a new paragraph to 45.2.1.195.1 stating. "The values of L = 2 and L=4 are not defined for 2.5GBASE-T1 PHYs. and the value of L=4 is not defined for 5GBASE-T1 PHYs. Bits 1.2312.12:11 will indicate whatever value is received from the link partner, but if the undefined values are received, the requested interleaver depth is out of scope of this standard and may not be supported by the local PHY."

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE

Not all instances of "Reserved" should be changed to "undefined" in the identified cell, also the spacing around the "=" is not consistent in the suggestion.

Change "Reserved" to "undefined" for the values 01 and 10 in the description of bits 1.2311.12:11 in Table 45-155c, and (2) to add a new paragraph to 45.2.1.194.1 stating, "The values of L = 2 and L = 4 are not defined for 2.5GBASE-T1 PHYs, and the value of L = 4 is not defined for 5GBASE-T1 PHYs. If bits 1.2311.12:11 are set to these undefined values, the PHY will communicate these values to the link partner, but the requested interleaver depth is out of scope of this standard and may not be supported by the link partner." Add a new paragraph to 45.2.1.195.1 stating, "The values of L = 2 and L = 4 are not defined for 2.5GBASE-T1 PHYs, and the value of L = 4 is not defined for 5GBASE-T1 PHYs. Bits 1,2312,12:11 will indicate whatever value is received from the link partner, but if the undefined values are received, the requested interleaver depth is out of scope of this standard and may not be supported by the local PHY."

C/ 45	SC 4	5.2.1.196.4	P4	1	L 49	# i-57
Zimmerman,	Georg	le	ADI, A	APL Group,	Aquantia,	BMW, Cisco, CommScop
Comment Ty	/pe	TR	Comment Status	D		EZ
			,			pattern of the jitter test
signal."	- what	these bits d	o when the transn	nitter is not	in test mod	le 2 is not specified

SuggestedRemedy

Suggest to add a new second sentence immediately following the guoted one, to read as follows: "When the transmitter is not in test mode 2, the setting of bits 1,2313,1:0 have no effect."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

fix subject/verb agreeement in proposal: Add the sentence "When the transmitter is not in test mode 2. the setting of bits 1.2313.1:0 has no effect."

C/ 45	SC 45.2.9.3	P 53	L 44	# i-58
Zimmerma	an, George	ADI, APL Gro	oup, Aquantia, BN	/W, Cisco, CommScop
Comment	Туре Е	Comment Status D		EZ
Editin	g instruction has b	een separated from the tab	e that it is editing].
Suggested	dRemedy			
Make	editing instruction	stay with Table 45-341		
Proposed	Response	Response Status W		
PROF	POSED ACCEPT.			
C/ 104	SC 104.5.6.4	P 68	L 48	# <u>i-59</u>
Zimmorm	on Coorgo		un Aquantia PA	MM Ciaco CommScon

Zimmerman, Georg	е	ADI, APL Group, Aquantia, BMW, Cisco, Com	nmScop
Comment Type	E	Comment Status D	EZ

Clause 97 is in the draft, but is shown as an external cross reference. It should be an active cross reference

SuggestedRemedy

Change external "Clause 97" reference to an active cross reference

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 149C S	SC 149C.5	P 212	L 6	#	i-60	CI 1
Zimmerman, G	George	ADI, APL Gro	up, Aquantia, BN	/W, Cisco	, CommScop	Zim
Comment Type	е т	Comment Status D			MDI	Con

In multiport designs, there is confusion as to whether port-to-port crosstalk in the MDI or on the board are goverend by the "coupling between link segments" (alien crosstalk) specified in the main clause. They are not. MDI to MDI coupling or trace to trace coupling are in addition. In general, they should be less than or equal to the alien crosstalk specification.

SuggestedRemedy

Insert 149.C.5 after 149C.4.3, entitled: Coupling between ports on multiport designs, with text: "When multiple MultiGBASE-T1 PHYs are implemented on the same board, care should be taken to avoid coupling between ports. The coupling between adjacent ports on a multiport MDI connector or between adjacent traces is recommended to be approximately the same level, but no greater, than that specified for power sum alien near end crosstalk specified in Equation 149-25." Additionally, add a second paragraph to 149.7.2, page 172 line 42, to read "For implementations with multiple MultiGBASE-T1 ports on the same MDI connector assembly, coupling between ports on the MDI connector is not considered to be part of the PSANEXT and PSAFEXT specification. For further information, see 149.C.5."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

At the end of the proposal "specification" should be "specifications" and remove specific types of crosstalk and replace with alien crosstalk.

Insert 149.C.5 after 149C.4.3, entitled: Coupling between ports on multiport designs, with text: "When multiple MultiGBASE-T1 PHYs are implemented on the same board, care should be taken to avoid coupling between ports. The coupling between adjacent ports on a multiport MDI connector or between adjacent traces is recommended to be approximately the same level, but no greater, than that specified for power sum alien near end crosstalk specified in Equation 149-25." Additionally, add a second paragraph to 149.7.2, page 172 line 42, to read "For implementations with multiple MultiGBASE-T1 ports on the same MDI connector assembly, coupling between ports on the MDI connector is not considered to be part of the alien crosstalk specifications. For further information, see 149.C.5."

C/ 149	SC	149.1.3	P 79	L 1	8	# <u>i-61</u>
Zimmer	man, Geo	orge	ADI, A	PL Group, Aqua	untia, BMV	N, Cisco, CommS
T1, freq	e MultiGE or 10GB/ uency do	ASE-T1 PH omain or do	Comment Status AM information is exc IYs out-of-band." - the es not consume the b me improved wording	changed betwee concept of whe bit rate for the et	ether this i hernet pa	is out-of-band in th
Sug			-band." to "out-of-ban am."	d, that is, outsic	e of the s	pecified 2.5, 5, or
	ed Respo DPOSED	nse ACCEPT.	Response Status	W		
C/ 149	SC	149.1.3.1	P 79	L4	4	# i-62
Zimmer	man, Geo	orge	ADI, A	PL Group, Aqua	untia, BMV	N, Cisco, CommS
	e duratio		<i>Comment Status</i> perframe is L x 320/ S nave been left over fro	- S ns.)" has no ne		
			plex. It is now its ow			
Sugges	edReme	dy				
Rer	nove the	parenthese	es around "The durati	on of the superf	rame is L	x 320 / S ns."
,	ed Respo DPOSED	nse ACCEPT.	Response Status	w		
C/ 149	SC	149.1.3.2	P 80	L 1	7	# i-63
Zimmer	man, Geo	orge	ADI, A	PL Group, Aqua	intia, BMV	N, Cisco, CommS
	e minimu		Comment Status nent characteristics, I	- EMC requireme		
spe	cified in 1	149.5." - the	e link segment charac	teristics are spe	cified in 1	49.7, not 149.5, a

SuggestedRemedy

Suggest replacing "The minimum link segment characteristics, EMC requirements, and test modes are specified in 149.5." with "The electrical parameters of the PMA, i.e., test modes, and electrical specifications for the transmitter and receiver, are specified in 149.5."

Proposed Response Response Status W

PROPOSED ACCEPT.

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

Comment ID i-63

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D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149	SC 149.3.7	P 123	L 18	# i-64
Zimmerma	n, George	ADI, APL	Group, Aquantia, Bl	MW, Cisco, CommScop
Comment 7	Type TR	Comment Status D		State Diagrams
tx_lpi_: tx_aler Otherw IBLOC being e FALSE	active is false be t_start_next. Sf vise, if tx_alert_s K_T and exit wi exited due to a le	I may need a recirculating efore exiting, and continuo ate diagrams only evaluat start_next were false on er th tx_lpi_req possibly still i ow SNR message). Accor LL and TRUE in SEND_SL e.	usly re-evaluate the e the condition on e ntry, TX_WN would n the true state (for ding to Figure 149-	e condition entry to a state. enter, set tx_coded to example, if LPI is 20, tx_lpi_active is set
Suggested				
Sugge	st: change the e	xit condition to exit "C" to a add an additional exit to T FALSE		
Proposed F	Response	Response Status W		
PROP	OSED ACCEPT	IN PRINCIPLE.		
Chang	e the exit condit	state diagram conventions ion to exit "C" to add an " o TX_WN, re-entering TX_	* !tx_lpi_req" to the	existing condition, and
C/ 149	SC 149.3.7.2	2.4 <i>P</i> 116	L 46	# i-65
Zimmerma	n, George	ADI, APL	Group, Aquantia, Bl	WW, Cisco, CommScop
Comment 1	Type T	Comment Status D		EZ
is what RS-FE	t is passed by th	4:0>) - the text says that th e PMA_UNITDATA indica 149.3.2.3). rx_coded is w iption.	tion, before the des	crambler, blocking and
Suggested	•			
	•	symb<64:0>) to DECODE	(rx_coded<64:0>)	

C/ 149	SC 149.3.2.2.	I1 P9	9	L 39	# i-66
Zimmermaı	n, George	ADI, A	APL G	roup, Aquantia, BMW	, Cisco, CommSco
Comment 7	Гуре Е	Comment Status	D		
ordered	d set in the subcla	ause header should	be cap	bitalized	
Suggested	Remedy				
Change	e "149.3.2.2.11 oi	rdered set" to "149.3	3.2.2.1	1 Ordered set"	
Proposed F	Response	Response Status	w		
PROP	OSED ACCEPT.				
C/ 149	SC 149.3.9.2.	I P1	28	L 37	# <u>i-67</u>
Zimmerma	n, George	ADI, A	APL G	roup, Aquantia, BMW	, Cisco, CommSco
Comment 7	Гуре Е	Comment Status	D		
"super	frame" - in most p	places, the term is "	superfi	ame" without a space	э.
Suggested	Remedy				
	e "super frame" w description (P185		P128 L	37, L46, L51, L53; P [.]	129 L7, and PICS
Proposed F	Response	Response Status	w		
PROP	OSED ACCEPT.				
C/ 149	SC 149.3.9.2.	12 P1	31	L 14	# <u>i-68</u>
Zimmermai	n, George	ADI, A	APL G	roup, Aquantia, BMW	, Cisco, CommSco
Comment T	Гуре Е	Comment Status	D		
receive the link	er (link partner)."	- why is (link partne rse it's conveyed to	r) in pa	atus in the mr_tx_mes irentheses? I think w siver. When you're tra	hat is meant is "to
Suggestedi change	•	(link partner)" to "to	the linl	< partner."	
Proposed F	Response	Response Status	w		

PROPOSED ACCEPT.

PROPOSED ACCEPT.

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149	SC 149.3.2.	2.22 P 105	L 16	# i-69	C/ 104			
Zimmerma	in, George	ADI, APL Gr	oup, Aquantia, Bl	MW, Cisco, CommScop	Zimmermai			
Comment	Туре Т	Comment Status D		E	Z Comment			
compli quite c statem	iant PHYs to tra correct - EEE is	SE-T1, 5GBASE-T1, or 10GI nsition to an LPI mode of ope independent on each directic e expanded - particularly beca on.	eration when link on, link utilization	utilization is low." isn't is not. therefore, the	Type B and PI which 1 row Suggested			
Suggested	Remedy				Change			
chang	•	ization is low." to "when link ເ	utilization is low ir	n either direction of	104.9.4 item Pl			
Proposed	Response	Response Status W			(uncha			
PROP	OSED ACCEP	Г.			PD ripp 104-7 f			
					– networ			
C/ 149	SC 149.3.2.	3 <i>P</i> 107	L 9	# i-70	*PDTF			
Zimmerma	in, George	ADI, APL Gr	oup, Aquantia, Bl	MW, Cisco, CommScop	104.5 +/- 1%			
Comment	Туре Т	Comment Status D		E				
"PHYs with the EEE capability support transition to the LPI mode when the PHY has successfully completed training and pcs_data_mode is TRUE and subject to the timing								
46.3.1	.5. It appears th	1.5." There are no timing req is is meant to reference 46.1			An add			
		d before transitioning to LPI.			Before			
Suggested Chang	•	ce to 46.3.1.5 to 46.1.7			Lines (Clause			
Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			Also, m			

SC 104.9.4.3 P70 L 35 # i-71 an, George ADI, APL Group, Aguantia, BMW, Cisco, CommScop Type TR Comment Status D PoDL

B and Type F have separate 'shalls' and Type F should not be added to PICS PD20 D22. Additionally this creates confusion as to which return loss needs to be used for type... Also, the option code should be PDTF in both cases, not PSETF on the first

lRemedv

e editing instruction from "Change item PD20 and item PD22 in the table in 4.3 as follows (unchanged rows not shown):" to "Insert new PICS item PD20a after 2D20, and new PICS item PD22a after item PD22 in the table in 104.9.4.3 as follows anged rows not shown):" - change PICS items in rows to read: "PD20a | Type F ple and transients | 104.5.6.4 | In accordance with specifications shown in Table for all operating voltages in the range of VPD sourced through a dc bias coupling rk with MDI return loss as specified by Clause 149, and over the range of PPD. M | Yes []" and "PD22a | Type F PD measured ripple voltage post-processing 5.6.4 | With transfer function H2(f) specified in Equation (104-3) where $f_2 = 10 \text{ MHz}$ | *PDTF:M | Yes []"

Response Response Status W OSED ACCEPT IN PRINCIPLE.

ditional change is needed.

e 104.9.4.3 add "104.9.4 PICS proforma tables for Clause 104, Power over Data (PoDL) of Single Balanced Twisted-Pair Ethernet" title for the subclause above this 2

Also, make the change requestesd by the commenter: Change editing instruction from "Change item PD20 and item PD22 in the table in 104.9.4.3 as follows (unchanged rows not shown):" to "Insert new PICS item PD20a after item PD20, and new PICS item PD22a after item PD22 in the table in 104.9.4.3 as follows (unchanged rows not shown):" change PICS items in rows to read: "PD20a | Type F PD ripple and transients | 104.5.6.4 | In accordance with specifications shown in Table 104-7 for all operating voltages in the range of VPD sourced through a dc bias coupling network with MDI return loss as specified by Clause 149, and over the range of PPD. | *PDTF:M | Yes []" and "PD22a | Type F PD measured ripple voltage post-processing | 104.5.6.4 | With transfer function H2(f) specified in Equation (104-3) where f2 = 10 MHz + 1%*PDTF:M | Yes []"

P802.3ch D3.0	D3.0 Physical La	iyer Specificat	ions and Manag	ement	Parameter	s for 2.5 (Gb/s,	5 Gb/s, and 10 Gb/s A	Auto		
C/ 1 SC 1.4	P 23	L 45	# i-72		C/ 149B	SC 149E	.2	P 202	L 32	# i-75	
Mcclellan, Brett	Marvell Semic	conductor, Inc.			Mcclellan, E	Brett		Marvell Semic	onductor, Inc.		
SuggestedRemedy	Comment Status D -201x" is now published as "IEEE 802.3cg-201x" to "IEEE Std 802.3 Response Status W EPT.	-		ΕΖ	and a c definitio indicate complia Making organiz	ymbol 11 b ompliant de on(http://ww ed that this s ant to this in these venc	ts 7:0 a evice mi w.ieee8 symbol formativ lor defir ving the	ned bits allows them to be o ese bits as zero for later use	he proposal for vienckowski_3cl however it cann defined by OEM	e used for any purpo this h_01b_1118.pdf) ot be used by a dev s or other	vice
C/ 45 SC 45.2.3	3.75 P 48	L 1	# i-73		Sugaested		ง รเลเนะ	s structure.			
Mcclellan, Brett Comment Type E Table 45-244 shoul follows:" SuggestedRemedy	Comment Status D Id appear on page 47 following th	conductor, Inc. nis text: "Change ⁻	Table 45-244 as	EZ	specific page 2 "149B.3 Vendor	: field <7:0> 03 line 49 ir 3.7 Vendor-	" isert ne specific ld <7:0;	Symbol 11 bits D7 to D0 from w subclause 149B.3.7 and field > is indicated in OAM<11><	renumber rema	iining subclauses:	
move table as indic	cated				Proposed F	esponse		Response Status 🛛 🛛 🛛 🛛 🛛 🖉			
Proposed Response	Response Status W				PROPO	SED ACC	EPT.				
PROPOSED ACCE	EPT.				C/ 149B	SC 149E	.3	P 203	L 5	# i-76	
C/ 149B SC 149B	.4.1 P 204	L 33	# i-74		Mcclellan, E	Brett		Marvell Semic	onductor, Inc.		
Mcclellan, Brett	Marvell Semic	conductor, Inc.			Comment 1	ype TR		Comment Status D			OAM
Comment Type E missing definition for SuggestedRemedy page204 line 33 ad its value is to be ind Proposed Response PROPOSED ACCE	d text: "The notation ++ after a co cremented." <i>Response Status</i> W	Comment Status D ++ operator ext: "The notation ++ after a counter or integer variable indi- mented." Response Status W			implem manag These update For the Degrad Polarity Suggested/ page 2 this sta	entor to dec ement entity bits are not d in register se bits: Pov edLinkSeg Inversion is Remedy 03 on lines	tide, bu y at the placed s 1.231 verSupp nent we a station 9, 18, 2 r a mini	on for which these defined on the theorem of the indication of the indication link partner has an opportu- into latched indicators at the 8 and 1.2319 as they arrive olyWarning, PHY TempWar e should recommend a min c condition throughout the l 26, and 35 add the following imum of 100 milliseconds to	ator bits be set inity to detect th ie link partner, b e. rning, No MACM imum indication link, and therefo g sentence: "It is	=1 to ensure the ese status bits? out are continuously lessagesWarning, time. ore not an issue	t
					Proposed F PROPO	esponse SED ACC		Response Status W			

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149B SC 149B.2 P 202 L 29 # i-77	C/ 149 SC 149.8.2.2 P 175 L 45 # i-79
Mcclellan, Brett Marvell Semiconductor, Inc.	Mcclellan, Brett Marvell Semiconductor, Inc.
Comment Type ER Comment Status D EZ	Comment Type TR Comment Status D EZ
"PHY TempWarning" for D5 doesn't match the bit name in 149B.3.3, "Internal temperature warning"	The subclause '149.8.2.2 MDI coupling attenuation' has no content and there has been no proposal for content. It should be removed.
SuggestedRemedy	SuggestedRemedy
change "PHY TempWarning" to "Internal temperature warning"	delete subclause 149.8.2.2
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
C/ 149B SC 149B.4.2.1 P 206 L 12 # i-78	C/ 149 SC 149.9.2.1 P 176 L 33 # 1-80
Mcclellan, Brett Marvell Semiconductor, Inc.	Mcclellan, Brett Marvell Semiconductor, Inc.
Comment Type T Comment Status D OAM	Comment Type ER Comment Status D EZ
rf_valid and RX_FRAME are used without definition in Figure 149B-2	ISO 167540-5 is a typo copied from Clause 96, ISO 16750-5 is the correct reference
SuggestedRemedy	SuggestedRemedy
page 205 line 16 insert new variable definition	Change "ISO 167540-5" to "ISO 16750-5"
" rf_valid Defined in 149.3.7.2.2"	Proposed Response Response Status W
page 205 line 23 insert new subclause	PROPOSED ACCEPT.
"149B.4.2.2 Counters RX_FRAME	C/ 149 SC 149.4.2.6.1 P 151 L 43 # 1-81
Defined in 149.3.7.2.6 "	Mcclellan, Brett Marvell Semiconductor, Inc.
Proposed Response Response Status W	Comment Type E Comment Status D State Diagrams
PROPOSED ACCEPT IN PRINCIPLE.	This state diagram section including subclauses 149.4.2.6.1, 149.4.2.6.2, 149.4.2.6.3 and
The subclause 149B.4.2.2 already exists. RX_FRAME is not a Counter but a message.	149.4.2.6.4 lacks description of the state diagram conventions. State diagram conventions are stated in 149.3.7.1 and 149.3.9.4.1, however the text states
P205 L16 insert new variable definition, with appropriate formatting, " rf_valid -> Defined in	those conventions apply only to those subclauses.
149.3.7.2.2"	SuggestedRemedy
P205 L 23 insert new subclause, with appropriate formatting, "149B.4.2.3 Messages -> RX_FRAME -> Defined in 149.3.7.2.6 "	Insert new subclauses and renumber remaining subclauses as needed. "149.4.2.6.1 Detailed functions and state diagrams 149.4.2.6.1.1 State diagram conventions
	The body of this subclause is comprised of state diagrams, including the associated definitions of constants, variables, functions, counters, and messages. Should there be a discrepancy between a state diagram and descriptive text, the state diagram prevails.
	The notation used in the state diagrams follows the conventions of 21.5. "
	Proposed Response Response Status W
	PROPOSED REJECT.
	This text is not needed as this is done in 149.1.6 for the Clause. The conventions are being removed from 149.3.7.1 (Comment 32) and 149.3.9.4.1 (Comment 33).

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

Comment ID i-81

Page 17 of 21 1/6/2020 3:00:30 PM

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

.							_			
/ 149	SC 149.4.4	P 155	L 43	# i-82	CI 78	SC 7	78.5	P 61	L 44	# i-84
Acclellan, E	Brett	Marvell Semic	conductor, Inc.		Jonsson, R	agnar		Aquantia		
Comment 7	Гуре Е	Comment Status D		State Diagrams	Comment T		TR	Comment Status D		EE
descrip State d	tion of the state	tion including subclauses 149 diagram conventions. ions are stated in 149.3.7.1 a ly only to those subclauses.		-	should	be cha ent the	nged to 12	BASE-T1 Case-4 row and T_ 28. See comment 22 on the graba_3ch_01a_0719.pdf ir	nitial working gr	oup ballot said to
Suggested	Remedy				Suggested	Remed	У			
"149.4.	4 Detailed func	and renumber remaining sub tions and state diagrams	clauses as neede	ed.	For the to "128		ASE-T1 C	Case-4 row and T_{phy_shrin	k_tx} column ch	ange the value "120"
The bo definitio	ons of constants	m conventions ause is comprised of state dia s, variables, functions, counte a state diagram and			Proposed R PROPC		se ACCEPT.	Response Status W		
descrip	tive text, the sta	ate diagram prevails.			C/ 104	SC 1	104.9.4.3	P70	L 35	# i-85
The no	tation used in th	ne state diagrams follows the	conventions of 21	1.5. "	Jonsson, R	agnar		Aquantia		
Proposed F	Response	Response Status W			Comment T	Type	TR	Comment Status D		Pol
	DSED REJECT	as this is done in 149.1.6 for	the Clause The					ould be: *PDTB:M *PDTF:M bu spec has it correct)	. The item (PD2	0) is referred to PD
		49.3.7.1 (Comment 32) and 14			Suggested	Remed	У			
C/ 45	SC 45.2.1	P 32	L 32	# i-83			row and S o "*PDTF:I	Status column, change "*PSE M".	TB:M" to "*PDT	B:M" and change
Jonsson, R	agnar	Aquantia			Proposed F	Respon	se	Response Status W		
Comment 7	Type ER	Comment Status D		EZ	PROPO	DSED A	ACCEPT I	N PRINCIPLE.		
In Table	e 45-3 the Subo	lause for register 1.2317 sho	uld be 45.2.1.200		Accom	odatod	by respor	nse to comment #71 with the	rolovant partio	a conied here
Suggested	Remedy				Accom	oualeu	by respor		relevant portion	r copied here.
Change	e "Subclause" f	or "Register address" 1.2317 f	from "45.2.1.199"	to "45.2.1.200".	0			ad: "PD20a Type F PD ri		
Proposed F	Response DSED ACCEPT	Response Status W			of VPD	source	ed through	cations shown in Table 104-7 a dc bias coupling network le range of PPD. *PDTF:N	with MDI return	0 0 0

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

			· ·					
C/ 104	SC 104.9.4.3	P 70	L 35	# i-86	C/ 149 SC 149.11.4.2.2	P 182	L 1	# i-89
lonsson, R	Ragnar	Aquantia			Jonsson, Ragnar	Aquantia		
Type F should	ue/Comment "Clau The feature cove be mentioned in a	Comment Status D se 97" should be: "Clause 9 ers both Type B and Type F addition to Clause 97.			Comment Type ER Section title should be "PO SuggestedRemedy Change "PCS Transmit" to		nsmit"	E
Suggested					-	Response Status W		
For the 149"	e PD20 row and Va	alue/Comment colum chang	e "Caluse 97" to	o "Clause 97 or Clause	PROPOSED ACCEPT.			
	OSED ACCEPT IN				C/ 149C SC 149C.3 Jonsson, Ragnar	<i>P</i> 208 Aquantia	L 46	# [i-90
Chang accord of VPD	e PD20 row to rea lance with specific o sourced through	se to comment #71 with the d: "PD20a Type F PD ri ations shown in Table 104-7 a dc bias coupling network e range of PPD. *PDTF:N	pple and transie 7 for all operatin with MDI return	nts 104.5.6.4 In g voltages in the range	Comment Type E The equation references b SuggestedRemedy Remove footnotes a, b, c,		Table 149C-1 ar	Mi e incorrect
C/ 149	SC 149.1.3.1	P 79	L 42	# i-87	Proposed Response PROPOSED ACCEPT IN	Response Status W PRINCIPLE.		
Jonsson, R	Ragnar	Aquantia			-			
C <i>omment</i> ∶ Param		Comment Status D d, without reference to the c	lefinition of L.	EZ	Remove the references to the footnotes below the ta		ing row of Table	149C-1 and remove
Suggested Chang	<i>Remedy</i> le "L" to "A number	r, L,"						
Proposed I PROP	Response OSED ACCEPT.	Response Status W						
C/ 149	SC 149.3.9.2.1	6 P 133	L 13	# i-88				
Jonsson, R	•	Aquantia						
Comment : Simple	<i>Type</i> E typo "toggling" no	Comment Status D ot "togging"		EZ				
<i>Suggested</i> Chang	<i>Remedy</i> e "togging" to "tog	alina"						
Proposed I		Response Status W						

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

D3.0 Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto

C/ 149A	SC 149A.4	P 198	L 24	# i-91		C/ 149	SC 14	49.3.9.3		P 135	L 27	# i-93	
Thompson, G	eoffrey	Independer	t Consultant			Tu, Mike							
Comment Typ	be TR	Comment Status D			149A	Comment 7	Гуре	т	Comment S	Status D			
Text does not adequately deal with specifying a uniform test condition for qualifying the test conditions for link segments in an automotive environment. Text should be added to reflect the shield grounding practice used in that environment.						given ir	n Figure	149-25 (I	is for OAM sta line 30 and lin			nt with the definit	on
SuggestedRe	• • •					Suggestedl	-		kumana (n line 07 she			
Insert the cable sha	following text	before the existing text or ground connection to the oly.				"mr_tx_ "mr_tx_ "mr_rx_	_messag _messag _lp_mes	je[87:80]' je[95:88]' sage[87:8	". 2. On line 2 ". 3. On line 3 80]". 4. On li	29, change fro 36, change fro	om "mr_tx_mess om "mr_rx_mess		
Proposed Res	sponse	Response Status 🛛 🛛 🛛 🛛 🛛 🖉						sage[95:8	-				
PROPOS	ED ACCEPT	IN PRINCIPLE.				Proposed F	Respons	е	Response S	Status W			
								OOFDT					
It is not cl	lear what a "ha	ard ground" connection me	ans.			PROPO	OSED A	CCEPT.					
		Ū	ans.			PROPO	OSED A	CCEPT.					
Add the te ADD the	ext as defined following sent	in comment #48. ence at the end of the par	agraph that starts c			PROPO	OSED A	CCEPT.					
Add the te ADD the addition, I using tech implemen	ext as defined following sent both ends of tl hniques suitab nting cable ass	in comment #48. ence at the end of the par he cable shield should be le for RF applications in the emblies into vehicles. "	agraph that starts c lirectly connected t e frequency range	to the signal groun of interest when		PROPO	OSED A	CCEPT.					
Add the te ADD the addition, I using tech implemen	ext as defined following sent both ends of tl hniques suitab	in comment #48. ence at the end of the par ne cable shield should be le for RF applications in th	agraph that starts c lirectly connected t	to the signal grou		PROP	OSED A	CCEPT.					
Add the te ADD the addition, I using teck implemen C/ 149 Tu, Mike	ext as defined following sent both ends of th hniques suitab nting cable ass SC 149.3.9.3	in comment #48. ence at the end of the par ne cable shield should be le for RF applications in the emblies into vehicles.	agraph that starts c lirectly connected t e frequency range	to the signal groun of interest when	nd	PROPO	OSED A	CCEPT.					
Add the te ADD the addition, I using tech implemen C/ 149 Tu, Mike Comment Typ	ext as defined following sent both ends of th hniques suitab titing cable ass SC 149.3.9.3 De T	in comment #48. ence at the end of the par he cable shield should be le for RF applications in the emblies into vehicles. "	agraph that starts o lirectly connected t e frequency range <i>L</i> 32	o the signal groun of interest when # [i-92	nd 	PROPO	OSED A	CCEPT.					
Add the te ADD the addition, I using tech implement C/ 149 Tu, Mike Comment Typ The varia	following sent both ends of th hniques suitab nting cable ass SC 149.3.9.3 De T ble "mr_rx_me	in comment #48. ence at the end of the par ne cable shield should be le for RF applications in the emblies into vehicles. " P 135 Comment Status D	agraph that starts o lirectly connected t e frequency range <i>L</i> 32	o the signal groun of interest when # [i-92	nd 	PROP	OSED A	CCEPT.					
Add the te ADD the addition, I using tect implemen Cl 149 Tu, Mike Comment Typ The varia SuggestedRe Within Ta	ext as defined following sent both ends of th hniques suitab hting cable ass SC 149.3.9.3 SC 149.3.9.3 De T ble "mr_rx_me emedy	in comment #48. ence at the end of the par ne cable shield should be le for RF applications in the emblies into vehicles. " P 135 Comment Status D	agraph that starts o lirectly connected t e frequency range <i>L</i> 32 name should be "m	o the signal groun of interest when # [<u>i-92</u> nr_rx_lp_message	nd 	PROPO	OSED A	CCEPT.					

C/ 149	SC 149.1	P77	L 17	# i-94	
Zimmerman,	George	ADI, APL Gro	oup, Aquantia, BN	IW, Cisco, CommSo	сор
Comment Ty	vpe T	Comment Status D			late

The overview and the draft indicate that clause 149 operates over a single balanced pair of conductors. As in other standards, this may include either cabling or a backplane link segment. However, in several portions of the link segment specification, the requirements are written so that ONLY a separate cabling link segment can be used. this is in conflict with the overview and purpose. A slight adjustment to the wording, and a conditional on the PICS will make it clear that requirements such as coupling attenuation and shielding attenuation are only intended to apply to cabling link segments.

SuggestedRemedy

page 167 line 10 : At 149.7, change the last sentence of the first paragraph from "The term link segment used in this clause refers to a single shielded balanced pair of conductors operating in full duplex. " to "The term link segment used in this clause refers to a single balanced pair of conductors (cable or backplane) operating in full duplex. ": Page 171 line 31: at 149.7.1.4, change the first sentence from "when tested using the IEC 62153-4-7 triaxial tube in tube method as specified in Annex 149A, the MultiGBASE-T1 link segment shall meet the coupling attenuation values " to "when tested using the IEC 62153-4-7 triaxial tube in tube method as specified in Annex 149A, where shielded balanced pair cabling is used, the MultiGBASE-T1 link segment shall meet the coupling attenuation values" ; Page 172 line 27: Change the first sentence of 149.7.1.5 for "The minimum screening attenuation..." to read "Where shielded balanced pair cabling is used, the minimum screening attenuation..."; Page 174 line 36: Change the first sentence of 149.8.1 from "The mechanical interface to the shielded balanced cabling " to "Where shielded balanced pair cabling is used, the mechanical interface to the shielded balanced cabling"; Page 179 line 10, 149.11.3, insert row for *INS after row for *EEE, reading "*INS | Installation / cabling | 149.7 | Items marked with INS include installation practices and cabling specifications applicable when the link segment is balanced pair cabling, and not applicable to backplane link segments | O | Yes []<cr> No []"; on page 193 line 12, Change status of row for LSC5 to "M:INS"

Proposed Response Response Status W

PROPOSED ACCEPT.