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/FM SCF	M P 22	L 16	# i-3
Berger, Catherine				Wienckowski, Nata	ie General M	lotors Company	
Comment Type G	Comment Status D			Z Comment Type	E Comment Status D		EZ
This draft meets all	editorial requirements.			According to th	e SA Editors, the "IMPORTANT N	NOTICE" is not nee	ded and can be deleted.
SuggestedRemedy				SuggestedRemedy Delete lines 16			
Proposed Response PROPOSED ACCE	Response Status W PT.			Proposed Respons PROPOSED A			
CIO SCO	P1	L 28	# <u>i-17</u>	C/ 1 SC 1	.4 P 23	L 45	# i-72
Wienckowski, Natalie	General Moto	rs Company		Mcclellan, Brett	Marvell Se	emiconductor, Inc.	
Comment Type E	Comment Status D			Z Comment Type	E Comment Status D		EZ
Update publication	date for 802.3cg			"IEEE Std 802.	3cg-201x" is now published as "I	EEE Std 802.3cg-20	019"
L30, P35 L3, P53 L	1x) to 2019, also on P11 L1, P23 12, P53 L35, P53 L44, P53 L50, 47, P68 L5, P68 L38, P69 L23, P <i>Response Status</i> W	P55 L8, P58 L1	, P66 L9, P66 L17, P6		Std 802.3cg-201x" to "IEEE Std 8 e Response Status W	02.3cg-2019" in mu	ultiple locations
PROPOSED ACCE	PT.			C/ 1 SC 1	.4.494b P 23	L 46	# i-54
C/O SCO	P1	L 28	# i-18	Zimmerman, Georg	e ADI, APL	Group, Aquantia, B	MW, Cisco, CommScop
Wienckowski. Natalie	General Moto	rs Company		Comment Type	E Comment Status D		EZ
Comment Type E	Comment Status D	oompany		IEEE Std 802.3	cg-201x has been approved as I	EEE Std 802.3cg-2	019
Update publication				SuggestedRemedy			
SuggestedRemedy				0	g-201x to 802.3cg-2019 on P23 L 53,55,58, 66, 67,68, 69, 195 - so	, 0 ,(1 0
Change 20xx (or 20	1x) to 2019, also on P10 L49			Proposed Respons	e Response Status Z		
Proposed Response PROPOSED ACCE	Response Status W PT.			PROPOSED R	EJECT.		
				This comment	was WITHDRAWN by the comme	enter.	

Pa **23** Li **46**

C/ 45	SC 45.2.1	P 32	L 32	# i-83		C/ 45	SC 45.2.1	.194	P 38	L 19	# i-56	
Jonsson,	Ragnar	Aquantia				Zimmerm	an, George		ADI, APL Gro	oup, Aquantia, BM	IW, Cisco, Co	mmScop
Comment	Type ER	Comment Status D			EZ	Comment	Type TR	Comr	nent Status D			Interleav
In Tal	ble 45-3 the Subcla	ause for register 1.2317 shou	ld be 45.2.1.200)		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						
	<i>dRemedy</i> qe "Subclause" for	"Register address" 1.2317 fi	rom "45.2.1.199'	" to "45.2.1.200".								
Proposed	Response POSED ACCEPT.	Response Status W				substituted? The same issue exists in Table 45-155d and 45.2.1.195.1 Fi "reserved" is not correct. what we mean is that those values are not define SuggestedRemedy				5.1 Further -th		
FROF	POSED ACCEPT.											
						Table 2 and 5GBA these stand 45.2. ⁻ and the whate the re	45-155c, and I L=4 are not c ASE-T1 PHYs. values to the ard and may r 1.195.1 stating ne value of L= ever value is re	(2) to add a efined for 2.3 If bits 1.231 link partner, not be support , "The value 4 is not defin acceived from	d" to "undefined" in a new paragraph to 5GBASE-T1 PHYs, 1.12:11 are set to th but the requested in rted by the link part s of $L = 2$ and $L=4$ a led for 5GBASE-T1 the link partner, bu is out of scope of th	45.2.1.194.1 stati and the value of nese values, the F nterleaver depth is ner." Add a new p are not defined for PHYs. Bits 1.231 t if the undefined	ng, "The value L=4 is not defii PHY will comm s out of scope paragraph to r 2.5GBASE-T 2.12:11 will ind values are red	es of L = ined for nunicate of this 1 PHYs, dicate ceived,
						Proposed	Response	Respo	nse Status 🛛 🛛 🛛 🛛 🛛 🖤			
						PROF	POSED ACCE	PT IN PRIN	CIPLE.			
									should be changed t consistent in the s		the identified o	cell, also
						1.231 "The = 4 is value interle partne not de PHYs the ur	1.12:11 in Tal values of L = 2 not defined for s, the PHY will eaver depth is er." Add a new efined for 2.50 b. Bits 1.2312. Indefined value	ble 45-155c, 2 and L = 4 a r 5GBASE-T I communica out of scope v paragraph BASE-T1 PI I2:11 will ind es are receiv	ed" for the values 0 ⁻¹ and (2) to add a ne re not defined for 2 ⁻¹ PHYs. If bits 1.23 te these values to t of this standard an to 45.2.1.195.1 stat HYs, and the value icate whatever valu ed, the requested in rted by the local PH	ew paragraph to 4 .5GBASE-T1 PH 311.12:11 are set he link partner, bu d may not be sup ting, "The values of of L = 4 is not def e is received from nterleaver depth is	5.2.1.194.1 sta f's, and the val- to these under- ut the requester- ported by the live of L = 2 and Live of Comparison inned for 5GBA in the link partner- the link partner-	ating, lue of L fined ed link = 4 are \SE-T1 her, but if

Pa **38** Li **19**

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

C/ 45	SC 45.2.1.1	94.1	P 38	L 51	# i-55	
Zimmerma	n, George	AE	DI, APL Gr	oup, Aquantia, BN	/W, Cisco, Com	mScop
Comment 7	Туре Е	Comment Stat	us D			EZ
Scram		lescribe Reed Solo ct reference is 149				95.1
Suggested	Remedy					
		ce from 149.3.2.2. ² 5.2.1.194.1 and 45			priate link if	
Proposed I	Response	Response Stat	us W			
PROP	OSED ACCEPT					
	OSED ACCEPT SC 45.2.1.1		P 40	L 36	# <u>i-46</u>	
C/ 45	SC 45.2.1.1	95.4	P 40 EE/SELF	L 36	# i-46	
C/ 45 Rannow, R	SC 45.2.1.1	95.4	EE/SELF	L 36	# [i-46	Editoria
Cl 45 Rannow, R Comment	SC 45.2.1.1 R K Type GR	95.4 IE	EE/SELF		# i-46	Editoria
Cl 45 Rannow, R Comment	SC 45.2.1.1 K <i>Type</i> GR the term "both" a	95.4 IE Comment Stat	EE/SELF		# i-46	Editoria
Cl 45 Rannow, R Comment T using t Suggested	SC 45.2.1.1 K <i>Type</i> GR the term "both" a	95.4 IE Comment Stat appears verbose in	EE/SELF		# [<u>-46</u>	Editoria
Cl 45 Rannow, R Comment T using t Suggested	SC 45.2.1.19 R K Type GR the term "both" a Remedy we the work "bot	95.4 IE Comment Stat appears verbose in	EE/SELF <i>fus</i> D nearly 20		# i-46	Editoria

satisfy the commenter. The commenter does not specify which "nearly 20" instances should be deleted. This is used in the front matter 3 times and 21 times in the "new text". A search of 802.3-2018 shows that the word "both" is found 938 times. This is a word commonly used in this specification to indicate that there are two conditions or two actions.

Regarding the specific instance cited in the comment at page 40 line 36, the CRG disagrees with the commenter. The use of 'both' in this instance is not extraneous and clarifies that MultiGBASE-T1 OAM capability requires support by both the local PHY and its link partner.

Cl 45	SC 45.2.1.19	6.4	P41	L 49	# i-57
Comment "Whe	n the transmitter is	<i>Comment Stat</i> s in test mode 2, t	<i>us</i> D bits 1.231	3.1:0 control the	BMW, Cisco, CommSo
signa	I." - what these bit	s do when the tra	nsmitter	s not in test mode	e 2 is not specified
00	dRemedy				
	s: "When the tran				quoted one, to read as its 1.2313.1:0 have no
•	l Response POSED ACCEPT	Response State	us W		
	bject/verb agreeer node 2, the setting				the transmitter is not i
C/ 45	SC 45.2.3.75		P48	<i>L</i> 1	# i-73
Mcclellan	, Brett	Ma	arvell Ser	niconductor, Inc.	
Commen	t Type E	Comment Stat	us D		
Table follow		pear on page 47	following	this text: "Chang	e Table 45-244 as
	<i>dRemedy</i> table as indicated	ł			
•	l Response POSED ACCEPT.	Response Stati	us W		
C/ 45	SC 45.2.9.3		P 53	L 44	# i-58
Zimmerm	an, George	AD	I, APL G	roup, Aquantia, E	MW, Cisco, CommSo
Comment	t Type E	Comment Stat	us D		
Comment	a instruction has h	peen separated fro	om the ta	ble that it is editir	ng.
	ig instruction has t				
Editir	dRemedy				
Editir <i>Suggeste</i>	•	·	15-341		

Pa **53** Li **44**

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

C/ 78	SC 78.5	P 61	L 44	# i-84	C/ 104	SC 104.9.4	3 P 70	L 35	# i-86
Jonsson, I	Ragnar	Aquantia			Jonsson,	Ragnar	Aquantia		
Comment	Type TR	Comment Status D		EEE	Comment	Type TR	Comment Status D		PoDL
should implei	d be changed to 12	BASE-T1 Case-4 row and T_ 28. See comment 22 on the graba_3ch_01a_0719.pdf in	initial working g	roup ballot said to	Туре	F. The feature c	lause 97" should be: "Clause overs both Type B and Type F in addition to Clause 97.		
					Suggestee	dRemedy			
	e 2.5GBASE-T1 C	ase-4 row and T_{phy_shrin	ık_tx} column cł	nange the value "120"	For th 149"	e PD20 row and	l Value/Comment colum chan	ge "Caluse 97" t	o "Clause 97 or Clause
to "12	-				Proposed	Response	Response Status W		
,	Response	Response Status W			PROF	OSED ACCEP	T IN PRINCIPLE.		
PROF	POSED ACCEPT.				A	nodated by rear	onse to comment #71 with th	a ralavant nartia	an applied here
C/ 104	SC 104.5.6.4	P 68	L 48	# i-59	ACCO	noualed by resp		e relevant portio	in copied here.
							read: "PD20a Type F PD r		
Comment	an, George <i>Type</i> E	Comment Status D	up, Aquantia, Bi	MW, Cisco, CommScop EZ			ifications shown in Table 104- gh a dc bias coupling network		
Claus	e 97 is in the draft	, but is shown as an external	cross reference	e. It should be an	Claus	e 149, and over	the range of PPD. *PDTF:	M Yes[]"	
active	e cross reference				C/ 104	SC 104.9.4	3 P 70	L 35	# i-85
Suggested	dRemedy				Jonsson,	Pagpar	Aquantia		
Chang	ge external "Claus	e 97" reference to an active	cross reference		Comment	0	Comment Status D		PoDL
,	Response POSED ACCEPT.	Response Status W			Status	s filed for PD20	should be: *PDTB:M *PDTF:N .3bu spec has it correct)	/I. The item (PD2	
					Suggeste	dRemedy			
						e PD20 row and TF:M" to "*PDT	l Status column, change "*PSl F:M".	ETB:M" to "*PD1	ΓΒ:M" and change
					Proposed	Response	Response Status W		
					PROF	OSED ACCEP	T IN PRINCIPLE.		

Accomodated by response to comment #71 with the relevant portion copied here.

Change PD20 row 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 []"

Pa **70** Li **35**

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

PoDL

C/ 104	SC 104.9.4.3	P 70	L 35	# i-71
Zimmermar	n, George	ADI, APL Grou	p, Aquantia, BM'	W, Cisco, CommScop

Comment Type TR Comment Status D Pro-Type B and Type F have separate 'shalls' and Type F should not be added to PICS PD20

and PD22. Additionally this creates confusion as to which return loss needs to be used for which type... Also, the option code should be PDTF in both cases, not PSETF on the first row...

SuggestedRemedy

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 []"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

An additional change is needed.

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

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 []"

C/ 149	SC 149.1	P77	L 17	#	i-94]
Zimmerman	, George	ADI, AF	PL Group, Aquantia	, BMW, Cisco	o, CommScop	

Comment Type T Comment Status D

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.

Pa 77 Li 17 late

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

	_ 0.0 1		anono anta managon
C/ 149 SC 149.1.3	B P 79	L 18	# i-61
Zimmerman, George	ADI, APL	Group, Aquantia, B	MW, Cisco, CommScop
Comment Type E	Comment Status D		EZ
T1, or 10GBASE-T1 frequency domain or	1 OAM information is exchar PHYs out-of-band." - the co does not consume the bit r some improved wording he	oncept of whether th ate for the ethernet	is is out-of-band in the
SuggestedRemedy			
Suggest change "out Gb/s Ethernet data s	t-of-band." to "out-of-band, t tream."	hat is, outside of the	e specified 2.5, 5, or 10
Proposed Response PROPOSED ACCEF	Response Status W		
C/ 149 SC 149.1.3	B.1 P 79	L 41	# i-51
Lo, William			
Comment Type T	Comment Status D		Nomenclature
	sed in several places but it erpretation of the bit ordering		never formally defined.
SuggestedRemedy			
needs to be subscrip the carriage return w proposed Change> I as: <cr> tx_group50></cr>	not show subscripts in the s ted with **. For example A ^t ill show up in the file so a < n line 47 insert the following k65B<65 * i + j> = tx_coded 0> is the ith 64B/65B block	*n* is An with n subs <cr> means carriage g: <cr> tx_group50x *i*<j> <cr> where i =</cr></j></cr></cr>	scripted. I'm not sure if e return.) <begin 65B<3249:0> is defined = 0 to 49 and j = 0 to 64</begin
Proposed Response	Response Status W		
PROPOSED ACCEP	T IN PRINCIPLE.		
	of what to do is hard to unde multiplication is confusing.	erstand and the usa	ge of "*" to indicate

Implement the changes show in wienckowski_3ch_D3p0_comment51.pdf.

C/ 149	SC 149.1.3.1	P 79	L 42	# i-87	
Jonsson, F	Ragnar	Aquantia			
Comment	Туре Е	Comment Status D			ΕZ
Param	eter L is introduce	ed, without reference to the o	definition of L.		
Suggested	IRemedy				
Chang	je "L" to "A numbe	er, L,"			
Proposed	Response	Response Status W			
PROP	OSED ACCEPT.				
C/ 0	SC 0	P 79	L 44	# li-4	
•••••	••••		- • •	<i>π</i> 1-4	
	ski, Natalie	General Moto	rs Company		
Comment	51	Comment Status D			ΕZ
Repla	ce lower case 'x' v	vith a multiplication symbol.			
Suggested	IRemedy				
Make	this change on P7	'9 L44 & P79 L 45.			
Proposed	Response	Response Status W			
	OSED ACCEPT.				
C/ 149	SC 149.1.3.1	P 79	L 44	# i-62	
Zimmerma	in, George	ADI, APL Gro	up, Aquantia, BN	/W, Cisco, CommS	сор
Comment	Туре Е	Comment Status D			ΕZ
"(The	duration of the su	perframe is L x 320/ S ns.)" I	has no need to b	e a parenthetical	
phrase	e - this seems to h	ave been left over from prev	vious wording wh	ere the sentence	
structu	ire was more com	plex. It is now its own stand	I-alone sentence		
Suggested	lRemedy				
Remo	ve the parenthese	es around "The duration of th	e superframe is	L x 320 / S ns."	
Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			

PROPOSED ACCEPT.

Pa **79** Li **44**

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

C/ 149	SC 149.1.3.2	P 80	L 17	# i-63		C/ 149	SC 1	49.3.2.2.1	1	P 99
Zimmerma	an, George	ADI, APL Gro	up, Aquantia, BM	1W, Cisco, CommS	Сор	Zimmerma	an, Georg	ge		ADI, APL O
Comment	Туре Т	Comment Status D			EZ	Comment	Туре	Е	Comment	Status D
		ent characteristics, EMC re				ordere	ed set in	the subcla	use header	should be ca
		link segment characteristics		, , ,		Suggested	Remed	/		
		ements in this document. F not the other things.	urther, this subci	ause is supposed t	.0				dered set" to	, "149.3.2.2. ²
Suggested	0	5				Proposed	Respons	se	Response S	Status W
	•	ninimum link segment chara	acteristics EMC	requirements and	test	•	•	ACCEPT.		
		49.5." with "The electrical pa					OOLD /			
		ons for the transmitter and r			,	C/ 149	SC 1	49.3.2.2.1	4	P 100
Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉				Lo, William	ı			
PROP	OSED ACCEPT.					Comment		т	Comment	Status D
C/ 149	SC 149.2.2.7.1	P 88	L 39	# i-36					fusing as it is 49.3.2.2.17)	
Wienckow	ski, Natalie	General Moto	rs Company						BB (leftmost)	
Comment	,	Comment Status D	ie eenipuity		ΕZ				e first transm	
	51	nt. Sometimes "true" and s	ometimes "TRU	="					ector with MS	,
									e page 102 lii ost element i	
Suggested	rkemeay						,		hings in adeo	

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

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.

L 39 # i-66 Group, Aquantia, BMW, Cisco, CommScop EΖ capitalized 2.11 Ordered set" L 29 # i-52 RS-FEC what constitute the leftmost/LSB element:

er shall follow the notation described in the vectors x and c) is the first bit into the x infers a position and there is no concept B, but which bit of c is considered the ne bit vector <m9, m8, m7, m6, ... m0> is B? 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 <i>P</i> 1	01	L 47	# i-22	
Wienckow	ski, Natalie	Gene	ral Mot	ors Company		
Comment numbe	<i>Type</i> E er on top of "pi" s	<i>Comment Status</i> ymbol is cut off	D			EZ
Suggested Resize	,	ure complete equatic	on is vis	sible.		
'	Response POSED ACCEPT.	Response Status	w			
neral			Pa 1	01	Page	7 of 20

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/gen COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Li 47 1/6/2020 2:58:11 PM SORT ORDER: Page, Line

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

Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommScop Comment Type T Comment Status D E "PHYs with the EEE capability support transition to the LPI mode when the PHY has
"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 requirements of 46.3.1.5." There are no timing requirements for the PHY transitioning in
46.3.1.5. It appears this is meant to reference 46.1.7 which requires the link be operational
for at least one second before transitioning to LPI.
SuggestedRemedy
Change cross reference to 46.3.1.5 to 46.1.7
Proposed Response Response Status W
PROPOSED ACCEPT.
Wienckowski, Natalie General Motors Company
Comment Type E Comment Status D E
Consider rewording to remove "ensure". Remove unnecessary explanatory language.
SuggestedRemedy
Delete: that is used to ensure refresh signals and alert start times are appropriately offset between the link partners
Proposed Response Response Status W
PROPOSED ACCEPT.
- C/ 149 SC 149.3.6.1 P 112 L 3 # [i-6
Wienckowski, Natalie General Motors Company
Comment Type E Comment Status D E
Consider replacing "ensure" per IEEE Mandatory Editorial Coordination comment.
SuggestedRemedy
Delete: To maximize power savings, maintain link integrity, and ensure interoperability,
Proposed Response Response Status W
PROPOSED ACCEPT.
======================================

Pa 112 Li 3

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

SC 149.3.7.1

		-	-				
C/ 149	SC 149.3.6.1	P 11	12	L 3	# i-5		C/ 149
Wienckows	ski, Natalie	Gener	al Motors C	ompany			Wienck
Comment 7	Туре Е	Comment Status	D			EZ	Comme
	ler replacing "maxir						Del
	part of the "commo 5.1, etc. The reasor						Sugges
			grenesh in			the spec.	Del
Suggested	•		in link inter			- la 1114. /	as
	: To maximize pow	-	-	nty, and ens	sure interoper	ability,	Propos
Proposed I	•	Response Status	W				PR
PROP	OSED ACCEPT.						C/ 149
C/ 149	SC 149.3.6.1	P 11	12	L 12	# i-1	9	Wienck
Wienckows	ski, Natalie	Gener	al Motors C	ompany			Comme
Comment 7	Туре Е	Comment Status	D			EZ	LP
Consid	ler rewording to rem	nove "ensures".					Sugges
Suggested	Remedy						Ch
Chang	e: This offset ensur	es that the MASTE	R and SLA	VE ALERT	windows are	offset from	Als
	ther and that the re						Propos
	AVE ALERT windo cycle offset.	ws are onset from	each other	and the rem	esn periods a	ire close	PR
Proposed I	_	Response Status	w				01.440
•	OSED ACCEPT.						C/ 149
							Wienck
C/ 149	SC 149.3.6.3	P 11	3	L 8	# i-7		Comme
Wienckows	ski, Natalie	Gener	al Motors C	ompany			I_B
Comment 7	Туре Е	Comment Status	D			EZ	Sugges
	ler replacing "maxir						Ch
	This is part of the "c 5.3, 126.3.5.3, etc.						ma
the spe			oluggoning	reneon orgin			Propos
Suggested	Remedy						PR
	e: refresh signaling	to maximize powe	er savings.	To: refres	sh signaling.		
Proposed F	Response	Response Status	w		-		
•	OSED ACCEPT.						

Wienckow	ski, Nat	alie	Gene	eral Motors	s Company			
Comment	Туре	т	Comment Status	D			State Di	agram
Delete	the ref	erence to s	state diagram notat	ion as this	s is done in 149	.1.6 for t	he Claus	se.
	"The n		ed in the state diag	ams follov	vs the convention	ons of sta	ate diagr	ams
Proposed	Respor		Response Status	w				
C/ 149	SC	149.3.7.2.1	I P'	13	L 42	#	i-24	
Wienckow	ski, Nat	alie	Gene	eral Motors	s Company			
Comment	Tyne	Е	Comment Status	D				E
	i ype							
LP_BI Suggested Chang Also n	JOCK_F IRemed Je "LP_ nake the	R is not con // BLOCK_R" e same cha	to "LPBLOCK_R" ange on P125 L7.	to be cons		er comme	ent name	es.
LP_BI Suggested Chang Also n Proposed	JOCK_I IRemed ge "LP_ nake the Respor	R is not con // BLOCK_R" e same cha	' to "LPBLOCK_R"	to be cons		er comme	ent name	es.
LP_BI Suggester Chang Also n Proposed PROF	-OCK_I IRemed ge "LP_ nake the Respor	R is not con /y BLOCK_R" e same cha ose	' to "LPBLOCK_R" inge on P125 L7. <i>Response Status</i>	to be cons		er comme	ent name	es.
LP_BI Suggested Chang Also n Proposed PROF CI 149	OCK_I IRemed ge "LP_ nake the Resport OSED	R is not con ly BLOCK_R" e same cha ose ACCEPT. 149.3.7.2.1	' to "LPBLOCK_R" inge on P125 L7. Response Status	to be cons W	sistent with othe			es.
LP_BI Suggested Chang Also n Proposed	CCK_I IRemed Je "LP_ nake the Respor OSED SC	R is not con ly BLOCK_R" e same cha ose ACCEPT. 149.3.7.2.1	' to "LPBLOCK_R" inge on P125 L7. Response Status	to be cons W 113 eral Motors	sistent with othe			es.
LP_BI Suggested Also n Proposed PROF Cl 149 Wienckow Comment	CCK_I IRemec ge "LP_ nake the Respor OSED SE SC ski, Nat	R is not con /y BLOCK_R" a same cha ase ACCEPT. 149.3.7.2.1 alie E	' to "LPBLOCK_R" inge on P125 L7. <i>Response Status</i>	to be cons W 113 Paral Motors	L 48 Company			
LP_BI Suggested Also n Proposed PROF Cl 149 Wienckow Comment I_BLC Suggested Chang	ICCK_I IRemec ge "LP_ nake the Respor OSED Ski, Nat Type ICK_R i IRemec ge "I_BL	R is not con /y BLOCK_R" e same cha se ACCEPT. 149.3.7.2.1 alie E s not consis /y .OCK_R" to	' to "LPBLOCK_R" inge on P125 L7. <i>Response Status</i> P Gene Comment Status	to be cons W 13 eral Motors D mment nar	<i>L</i> 48 Company mes.	#	i-25	E

L 21

P 113

<u>i-32</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 U/unsatisfied Z/withdrawn SORT ORDER: Page, Line

Pa **113** Li **48**

C/ 149 SC 149.3.7.2.2	P 114	L 18	#	i-35	C/ 149	SC 1	49.3.7		P 123	L 18	#	# i-64
Wienckowski, Natalie	General Motor	rs Company			Zimmerma	n, Georg	ge		ADI, APL Gro	oup, Aquantia, I	BMW, Cis	sco, CommSco
Comment Type E Com	ment Status D			EZ	Comment	Туре	TR	Comment	Status D			State Diagra
Inconsistency in document. So	metimes "false" and	sometimes "FAL	SE".						ecirculating fur			
SuggestedRemedy									nd continuousl			
Change "false" to "FALSE", also					Other	vise, if tx	_alert_sta	art_next were	e false on entry	, TX_WN would	d enter, s	et tx_coded to
P115 L44, P115 L45, P115 L49 P126 L6, P126 L7, P126 L8, P1									ossibly still in th			
L51, P139 L53, P149 L12, P152									age). Accordin			
P205 L7, P205 L13							g to false		_		,	5
Proposed Response Respo	onse Status 🛛 🛛 🛛 🛛 🛛 🗤				Suggested	Remedy	/					
PROPOSED ACCEPT IN PRIN									exit "C" to add			
Should be "FALSE" only when t	this represents a vari	able value.					ion, and a i_req = F <i>I</i>		onal exit to TX_	WN, re-enterin	g tx_WN	with the
Change "false" to "FALSE" on F					Proposed			Response S	Status M			
L40, P115 L44, P115 L45, P11 P121 L39, P123 L19, P124 L17						•		N PRINCIPLI				
PIZI L39, PIZ3 L19, PIZ4 L17	, P 125 L 15, P 125 L4	23, P 120 LO, P 12	20 L/, PI	20 LO. P 120	11.01							
L35, P126 L43, P138 L19, P138	8 L44, P138 L46, P13	39 L51, P139 L53	3, P149 L	'								
L22, P156 L28, P157 L12, P158	8 L9, P190 L3, P204	'	·	_12, P152	Need	o use st	andard st		conventions of	!tx_lpi_req in th	ne added	conditions.
	8 L9, P190 L3, P204	'	·	_12, P152				ate diagram o	conventions of			
L22, P156 L28, P157 L12, P158	8 L9, [°] P190 L3, P204	'	·	_12, P152	Chang	e the ex	it conditio	ate diagram o		 lpi_req" to the	e existing	condition, and
L22, P156 L28, P157 L12, P158 P206 L6, P206 L30, P206 L41.	8 L9, [°] P190 L3, P204	'	205 L7,	_12, P152	Chang	e the ex addition	it conditio	ate diagram o on to exit "C" f TX_WN, re-e	conventions of to add an " * !tx	 lpi_req" to the	e existing dition !tx_	condition, and
L22, P156 L28, P157 L12, P158 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE	8 L9, P190 L3, P204 E" on P136 L20. P 116	L48, P205 L1, P	205 L7, #	L12, P152 P205 L13,	Chang add ar	e the ex addition SC 1	it conditio nal exit to 49.3.9.2.	ate diagram o on to exit "C" f TX_WN, re-e	conventions of to add an " * !tx entering TX_W <i>P</i> 128	lpi_req" to the N with the cond	e existing dition !tx_ #	condition, and lpi_req # <u>i-67</u>
L22, P156 L28, P157 L12, P158 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE C/ 149 SC 149.3.7.2.4 Zimmerman, George	8 L9, P190 L3, P204 E" on P136 L20. P 116	L48, P205 L1, P	205 L7, #	L12, P152 P205 L13,	Chang add ar C/ 149	e the ex addition SC 1 n, Georg	it conditio nal exit to 49.3.9.2. ge	ate diagram o on to exit "C" f TX_WN, re-e	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro	Lipi_req" to the N with the cond L 37	e existing dition !tx_ #	condition, and lpi_req # <u>i-67</u>
L22, P156 L28, P157 L12, P157 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE C/ 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T Com DECODE (rx_symb<64:0>) - th	8 L9, P190 L3, P204 E" on P136 L20. P 116 ADI, APL Gro ment Status D e text says that the a	L48, P205 L1, P <i>L</i> 46 up, Aquantia, BM rgument is rx_co	205 L7, # 1W, Cisc oded<64:	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb	Chang add ar <i>Cl</i> 149 Zimmerma Comment	e the ex addition SC 1 n, Georg	it conditio nal exit to 49.3.9.2. ge E	ate diagram o on to exit "C" f TX_WN, re-e 1 Comment	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro	L i i i i i i i i i i i i i i i i i i i	e existing dition !tx_ # BMW, Cis	condition, and lpi_req ¥ <u>i-67</u> sco, CommSco
L22, P156 L28, P157 L12, P156 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE C/ 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T Comm DECODE (rx_symb<64:0>) - th is what is passed by the PMA I	8 L9, P190 L3, P204 E" on P136 L20. P 116 ADI, APL Gro ment Status D e text says that the a UNITDATA indication	L48, P205 L1, P L46 up, Aquantia, BM rgument is rx_co , before the desc	205 L7, # 1W, Cisc oded<64: crambler,	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb , blocking and	Chang add ar <i>Cl</i> 149 Zimmerma Comment	se the ex addition SC 1 n, Georg <i>Type</i> frame" -	it conditio nal exit to 49.3.9.2.4 ge E - in most p	ate diagram o on to exit "C" f TX_WN, re-e 1 Comment	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro <i>Status</i> D	L i i i i i i i i i i i i i i i i i i i	e existing dition !tx_ # BMW, Cis	condition, and lpi_req ¥ <u>i-67</u> sco, CommSco
L22, P156 L28, P157 L12, P157 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE C/ 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T Com DECODE (rx_symb<64:0>) - th	8 L9, P190 L3, P204 E" on P136 L20. P 116 ADI, APL Gro ment Status D e text says that the a UNITDATA indication	L48, P205 L1, P L46 up, Aquantia, BM rgument is rx_co , before the desc	205 L7, # 1W, Cisc oded<64: crambler,	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb , blocking and	Chang add ar Cl 149 Zimmerma Comment "super Suggested replac	se the ex addition SC 1 n, Georg Type frame" - Remedy e "super	it conditio nal exit to 49.3.9.2. ² ge E - in most p / frame" w	ate diagram of n to exit "C" f TX_WN, re-of 1 <i>Comment</i> of places, the te	conventions of to add an " * !tx entering TX_W P 128 ADI, APL Gro <i>Status</i> D rrm is "superfra ne" at P128 L3	L I I I I I I I I I I I I I I I I I I I	e existing dition !tx_ # BMW, Cis space.	condition, and lpi_req # <u>li-67</u> sco, CommSco
L22, P156 L28, P157 L12, P158 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE C/ 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T DECODE (rx_symb<64:0>) - th is what is passed by the PMA_U RS-FEC decoder (see 149.3.2.3) according to the description.	8 L9, P190 L3, P204 E" on P136 L20. P 116 ADI, APL Gro ment Status D e text says that the a UNITDATA indication	L48, P205 L1, P L46 up, Aquantia, BM rgument is rx_co , before the desc	205 L7, # 1W, Cisc oded<64: crambler,	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb , blocking and	Chang add ar Cl 149 Zimmerma Comment "super Suggested replac OAM2	se the ex addition SC 1 n, Georg Type frame" - Remedy e "super descript	it conditio hal exit to 49.3.9.2.7 ge E - in most p frame" w tion (P185	ate diagram of TX_WN, re-e Comment blaces, the te ith "superfran 5 L11, L13, L	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro <i>Status</i> D erm is "superfra me" at P128 L3 15)	L I I I I I I I I I I I I I I I I I I I	e existing dition !tx_ # BMW, Cis space.	condition, and lpi_req # <u>li-67</u> sco, CommSco
L22, P156 L28, P157 L12, P157 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE Cl 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T Comm DECODE (rx_symb<64:0>) - th is what is passed by the PMA_U RS-FEC decoder (see 149.3.2.3 according to the description.	8 L9, P190 L3, P204 E" on P136 L20. P116 ADI, APL Gro ment Status D e text says that the a UNITDATA indication 3). rx_coded is what	L48, P205 L1, P L46 up, Aquantia, BM rgument is rx_co , before the desc seems to be nee	205 L7, # 1W, Cisc oded<64: crambler,	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb , blocking and	Chang add ar Cl 149 Zimmerma Comment "super Suggested replac OAM2 Proposed	e the ex addition SC 1 n, Georg Type frame" - Remedy e "super descript Respons	it conditio hal exit to 49.3.9.2.4 ge E - in most p frame" w tion (P185 se	ate diagram of n to exit "C" f TX_WN, re-of 1 <i>Comment</i> of places, the te	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro <i>Status</i> D erm is "superfra me" at P128 L3 15)	L I I I I I I I I I I I I I I I I I I I	e existing dition !tx_ # BMW, Cis space.	condition, and lpi_req # <u>li-67</u> sco, CommSco
L22, P156 L28, P157 L12, P156 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE C/ 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T Comm DECODE (rx_symb<64:0>) - th is what is passed by the PMA_U RS-FEC decoder (see 149.3.2.3 according to the description. SuggestedRemedy Change DECODE (rx_symb<64	8 L9, P190 L3, P204 E" on P136 L20. P116 ADI, APL Gro ment Status D e text says that the a UNITDATA indication 3). rx_coded is what 4:0>) to DECODE(rx_	L48, P205 L1, P L46 up, Aquantia, BM rgument is rx_co , before the desc seems to be nee	205 L7, # 1W, Cisc oded<64: crambler,	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb , blocking and	Chang add ar Cl 149 Zimmerma Comment "super Suggested replac OAM2 Proposed	e the ex addition SC 1 n, Georg Type frame" - Remedy e "super descript Respons	it conditio hal exit to 49.3.9.2.7 ge E - in most p frame" w tion (P185	ate diagram of TX_WN, re-e Comment blaces, the te ith "superfran 5 L11, L13, L	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro <i>Status</i> D erm is "superfra me" at P128 L3 15)	L I I I I I I I I I I I I I I I I I I I	e existing dition !tx_ # BMW, Cis space.	condition, and lpi_req # <u>li-67</u> sco, CommSco
L22, P156 L28, P157 L12, P156 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE C/ 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T Comm DECODE (rx_symb<64:0>) - th is what is passed by the PMA_L RS-FEC decoder (see 149.3.2.3 according to the description. SuggestedRemedy Change DECODE (rx_symb<64 Proposed Response Response	8 L9, P190 L3, P204 E" on P136 L20. P116 ADI, APL Gro ment Status D e text says that the a UNITDATA indication 3). rx_coded is what	L48, P205 L1, P L46 up, Aquantia, BM rgument is rx_co , before the desc seems to be nee	205 L7, # 1W, Cisc oded<64: crambler,	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb , blocking and	Chang add ar Cl 149 Zimmerma Comment "super Suggested replac OAM2 Proposed	e the ex addition SC 1 n, Georg Type frame" - Remedy e "super descript Respons	it conditio hal exit to 49.3.9.2.4 ge E - in most p frame" w tion (P185 se	ate diagram of TX_WN, re-e Comment blaces, the te ith "superfran 5 L11, L13, L	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro <i>Status</i> D erm is "superfra me" at P128 L3 15)	L I I I I I I I I I I I I I I I I I I I	e existing dition !tx_ # BMW, Cis space.	condition, and lpi_req # <u>li-67</u> sco, CommSco
L22, P156 L28, P157 L12, P156 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE Cl 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T Comm DECODE (rx_symb<64:0>) - th is what is passed by the PMA_U RS-FEC decoder (see 149.3.2.3 according to the description. SuggestedRemedy Change DECODE (rx_symb<64	8 L9, P190 L3, P204 E" on P136 L20. P116 ADI, APL Gro ment Status D e text says that the a UNITDATA indication 3). rx_coded is what 4:0>) to DECODE(rx_	L48, P205 L1, P L46 up, Aquantia, BM rgument is rx_co , before the desc seems to be nee	205 L7, # 1W, Cisc oded<64: crambler,	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb , blocking and	Chang add ar Cl 149 Zimmerma Comment "super Suggested replac OAM2 Proposed	e the ex addition SC 1 n, Georg Type frame" - Remedy e "super descript Respons	it conditio hal exit to 49.3.9.2.4 ge E - in most p frame" w tion (P185 se	ate diagram of TX_WN, re-e Comment blaces, the te ith "superfran 5 L11, L13, L	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro <i>Status</i> D erm is "superfra me" at P128 L3 15)	L I I I I I I I I I I I I I I I I I I I	e existing dition !tx_ # BMW, Cis space.	condition, and lpi_req # <u>li-67</u> sco, CommSco
L22, P156 L28, P157 L12, P156 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE C/ 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T Comu DECODE (rx_symb<64:0>) - th is what is passed by the PMA_L RS-FEC decoder (see 149.3.2.3 according to the description. SuggestedRemedy Change DECODE (rx_symb<64 Proposed Response Response	8 L9, P190 L3, P204 E" on P136 L20. P116 ADI, APL Gro ment Status D e text says that the a UNITDATA indication 3). rx_coded is what 4:0>) to DECODE(rx_	L48, P205 L1, P L46 up, Aquantia, BM rgument is rx_co , before the desc seems to be nee	205 L7, # 1W, Cisc oded<64: crambler,	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb , blocking and	Chang add ar Cl 149 Zimmerma Comment "super Suggested replac OAM2 Proposed	e the ex addition SC 1 n, Georg Type frame" - Remedy e "super descript Respons	it conditio hal exit to 49.3.9.2.4 ge E - in most p frame" w tion (P185 se	ate diagram of TX_WN, re-e Comment blaces, the te ith "superfran 5 L11, L13, L	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro <i>Status</i> D erm is "superfra me" at P128 L3 15)	L I I I I I I I I I I I I I I I I I I I	e existing dition !tx_ # BMW, Cis space.	condition, and lpi_req # <u>li-67</u> sco, CommSco
L22, P156 L28, P157 L12, P157 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE C/ 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T Comu DECODE (rx_symb<64:0>) - th is what is passed by the PMA_L RS-FEC decoder (see 149.3.2.3 according to the description. SuggestedRemedy Change DECODE (rx_symb<64 Proposed Response Response	8 L9, P190 L3, P204 E" on P136 L20. P116 ADI, APL Gro ment Status D e text says that the a UNITDATA indication 3). rx_coded is what 4:0>) to DECODE(rx_	L48, P205 L1, P L46 up, Aquantia, BM rgument is rx_co , before the desc seems to be nee	205 L7, # 1W, Cisc oded<64: crambler,	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb , blocking and	Chang add ar Cl 149 Zimmerma Comment "super Suggested replac OAM2 Proposed	e the ex addition SC 1 n, Georg Type frame" - Remedy e "super descript Respons	it conditio hal exit to 49.3.9.2.4 ge E - in most p frame" w tion (P185 se	ate diagram of TX_WN, re-e Comment blaces, the te ith "superfran 5 L11, L13, L	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro <i>Status</i> D erm is "superfra me" at P128 L3 15)	L I I I I I I I I I I I I I I I I I I I	e existing dition !tx_ # BMW, Cis space.	condition, and lpi_req # <u>li-67</u> sco, CommSco
L22, P156 L28, P157 L12, P156 P206 L6, P206 L30, P206 L41. Also, change "False" to "FALSE C/ 149 SC 149.3.7.2.4 Zimmerman, George Comment Type T Comm DECODE (rx_symb<64:0>) - th is what is passed by the PMA_L RS-FEC decoder (see 149.3.2.3 according to the description. SuggestedRemedy Change DECODE (rx_symb<64 Proposed Response Response	8 L9, P190 L3, P204 E" on P136 L20. P116 ADI, APL Gro ment Status D e text says that the a UNITDATA indication 3). rx_coded is what 4:0>) to DECODE(rx_	L48, P205 L1, P L46 up, Aquantia, BM rgument is rx_co , before the desc seems to be nee	205 L7, # 1W, Cisc oded<64: crambler,	_12, P152 P205 L13, i-65 o, CommScop <i>EZ</i> 0>. rx_symb , blocking and	Chang add ar Cl 149 Zimmerma Comment "super Suggested replac OAM2 Proposed	e the ex addition SC 1 n, Georg Type frame" - Remedy e "super descript Respons	it conditio hal exit to 49.3.9.2.4 ge E - in most p frame" w tion (P185 se	ate diagram of TX_WN, re-e Comment blaces, the te ith "superfran 5 L11, L13, L	conventions of to add an " * !tx entering TX_W <i>P</i> 128 ADI, APL Gro <i>Status</i> D erm is "superfra me" at P128 L3 15)	L I I I I I I I I I I I I I I I I I I I	e existing dition !tx_ # BMW, Cis space.	condition, and lpi_req # <u>li-67</u> sco, CommSco

Pa **128** Li **37**

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

C/ 149 SC 149.3.9.2.1 P 129 L 4 # <u>i-26</u>	C/ 149 SC 149.3.9.2.13 P 132 L 38 # i-30	
Wienckowski, Natalie General Motors Company	Wienckowski, Natalie General Motors Company	
Comment Type E Comment Status D EZ	Comment Type E Comment Status D	EZ
The use of "0s" is not consistent with other 802.3 Clauses.	typo, unnecessary "the"	
SuggestedRemedy Change "0s" to "0's". Also make the same change on P129 L 27 and P185 L20.	SuggestedRemedy Change "when the EEE is implemented" To "when EEE is implemented".	
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.	
C/ 149 SC 149.3.9.2.7 P 130 L 19 # [-8	C/ 149 SC 149.3.9.2.16 P 133 L 13 # 1-88	
Wienckowski, Natalie General Motors Company	Jonsson, Ragnar Aquantia	
Comment Type E Comment Status D EZ		ΕZ
Consider replacing "ensure" per IEEE Mandatory Editorial Coordination comment. Note:	Simple typo "toggling" not "togging"	
This is the same wording as 97.3.8.2.7.	SuggestedRemedy	
SuggestedRemedy		
Change: The toggle bit is used to ensure proper OAM message synchronization between	Change "togging" to "toggling"	
the PHY and the link partner. To: The toggle bit lets the management entity determine	Proposed Response Response Status W	
which OAM message is being referred to.	PROPOSED ACCEPT.	
Proposed Response Response Status W	C/ 149 SC 149.3.9.2.17 P 133 L 31 # i-31	
PROPOSED ACCEPT.		
	Wienckowski, Natalie General Motors Company	
C/ 149 SC 149.3.9.2.12 P 131 L 14 # [-68	Comment Type E Comment Status D	EZ
Zimmerman, George ADI, APL Group, Aquantia, BMW, Cisco, CommScop	type, missing space after period	
Comment Type E Comment Status D E2	SuggestedRemedy	
"These 32 bits are set by the PHY to convey its status in the mr_tx_message[95:64] to the	Add space after "is occurring concurrently and bi-directionally."	
receiver (link partner)." - why is (link partner) in parentheses? I think what is meant is "to the link partner." Of course it's conveyed to a receiver. When you're transmitting a	Proposed Response Response Status W	
message, where else would it go?	PROPOSED ACCEPT.	
SuggestedRemedy		
change "to the receiver (link partner)" to "to the link partner."		
Proposed Response Response Status W		

PROPOSED ACCEPT.

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

Pa **133** Li **31**

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

C/ 149	SC 149.3.9.3	P 135	L 27	# i-93		C/ 149	SC 149.4.2.3	P 144
Tu, Mike						Wienckows	ki, Natalie	General
	egister bit mappings	Comment Status D s for OAM status messages ne 30 and line 34 on page		with the definition	late	Comment 7 missing	article	Comment Status D
Suggested	0					Suggestedl		·
In Tab "mr_tv "mr_tv	ble 149-9, the last c (_message[87:80]" (_message[95:88]")	olumn: 1. On line 27, chan . 2. On line 29, change fror . 3. On line 36, change fror .0]". 4. On line 39, change	n "mr_tx_messag n "mr_rx_messag	e[87:80]" to e[95:88]" to		Proposed F	•	air" To "over the receiv Response Status W
	x_lp_message[95:8					C/ 149	SC 149.4.2.4	P 145
•	Response POSED ACCEPT.	Response Status W				Wienckows Comment 1	ype E	General Comment Status D
C/ 149	SC 149.3.9.3	P 135	L 32	# <u>i</u> -92				diagram, not a description
Tu, Mike <i>Comment</i>	Туре Т	Comment Status D			late		e "PHY Control s	hall comply with the sta hall comply with the sta
The v	ariable "mr_rx_mes	sage" does not exist. Its na	me should be "m	r_rx_lp_message".		Proposed F		Response Status W
Suggested	dRemedy					PROPO	DSED ACCEPT.	
	n Table 149-9, on lir x lp message".	ne 32, 34, 37, and 39, repla	ce "mr_rx_messa	ge" by		C/ 149	SC 149.4.2.4	P 145
_	Response	Response Status W				Wienckows		General
PROF	POSED ACCEPT.					Comment 1	,	Comment Status D
C/ 149	SC 149.3.9.4.1	P 136	L 9	# i-33		Redund	dant text	
Wienckow	vski, Natalie	General Moto	rs Company			Suggestedl	Remedy	
Comment	Туре Т	Comment Status D		State Diag	rams		e "16th partial PH ame (bits 6750 to	IY frame (bits 6750 to 6 0 6845)."
		tate diagram notation as th	is is done in 149.	1.6 for the Clause.		Proposed F	Response	Response Status W
	,	d in the state diagrams follo	ows the convention	ns of state diagram	าร	PROPO	OSED ACCEPT.	
Proposed	Response	Response Status W						
•								

PROPOSED ACCEPT.

Wienckowski, Natalie Comment Type E missing article	General Mot	ors Company			
		ors company			
	Comment Status D				EZ
SuggestedRemedy Change "over receive	pair" To "over the receive p	air".			
Proposed Response PROPOSED ACCEPT	Response Status W				
C/ 149 SC 149.4.2.4	P 145	L 21	#	i-38	
Wienckowski, Natalie	General Mot	ors Company			
Comment Type E	Comment Status D				ΕZ
The Figure is the state	diagram, not a description of	of a state diagram.			
SuggestedRemedy					
0	shall comply with the state d shall comply with the state d	0	0	n Figure 1	49-
Proposed Response	Response Status W				
PROPOSED ACCEPT					
C/ 149 SC 149.4.2.4	P 145	L 26	#	i-39	
Wienckowski, Natalie	General Mot	ors Company			
Comment Type E Redundant text	Comment Status D				EZ
SuggestedRemedy	HY frame (bits 6750 to 6845				

6845) of the PHY frame." To "16th partial

Pa 145 Li **26**

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

C/ 149 SC 149.4.2.4	P 145	L 32	# i-13		C/ 149	SC 1	149.4.2.6.1	1	P 151	L 43	# <mark>i-81</mark>	
Vienckowski, Natalie	General Moto	rs Company			Mcclellan,	Brett			Marvell Semio	conductor, Inc.		
Comment Type E Comme	ent Status D			EZ	Comment	Туре	Е	Comment	t Status D		State Di	agrams
Consider replacing "ensure" per Il this requirement exists. SuggestedRemedy	EEE recommendat	tion. It is not re	equired to explain	ו why	149.4.	2.6.4 lao	, cks descrip	ption of the s	state diagram co	onventions.	2.6.2, 149.4.2.6.3 nowever the text s	
Change: Infofield shall be transm	itted at least 256 ti	mos with oach o	hango to octoto '	7 10	those	convent	ions apply	only to thos	se subclauses.			
to ensure detection at link partner					Suggestea	Remedy	V					
with each change to octets 7-10.										clauses as need	ed.	
Proposed Response Response	se Status 🛛 🛛 🛛 🖤							ram convent	state diagrams			
PROPOSED ACCEPT.										igrams, including	the associated	
C/ 149 SC 149.4.2.4.6	P 148	L3	# i-9				,	variables, fu state diagrar	,	rs, and message	s. Should there b	e a
			<i>"</i> 1-5			,		e diagram pi				
Wienckowski, Natalie Comment Type E Comme	General Moto ent Status D	rs Company		EZ	The no	tation u	sed in the	e state diagra	ams follows the	conventions of 2	1.5. "	
Consider replacing "guarantees" Note: This wording is the same a	per IEEE Mandator	ry Editorial Coord	lination commen		Proposed PROP		se REJECT.	Response	Status W			
SuggestedRemedy					This te	xt is not	t needed a	as this is dor	ne in 149 1 6 for	the Clause The	e conventions are	ŕ
Change: This value of DataSwPF	C24 guarantees th	nat the switch fro	m PAM2 to PAM	14						49.3.9.4.1 (Comr		
occurs on a PHY frame boundary 16 the switch from PAM2 to PAM				ple of	C/ 149	SC 1	149.4.2.6.2	2	P 152	L 45	# i-40	
Proposed Response Response	se Status 🛛 🛛 🛛 🖤				Wienckow	ski, Nata	alie		General Moto	ors Company		
PROPOSED ACCEPT.					<i>Comment</i> Missin	<i>Type</i> g space	E s	Comment	t Status D			EZ
					Suggestea	Remed	v					
						, connou j	,					

Proposed Response Response Status W

PROPOSED ACCEPT.

Pa **152** Li **45**

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

C/ 149 SC	C 149.4.4	P 155	L 43	# i-82	C/ 149 SC 149.5.1	P 161	L 12	# i-42	
/Icclellan, Brett		Marvell Semico	onductor, Inc.		Wienckowski, Natalie	General Motor	rs Company		
Comment Type	Е	Comment Status D		State Diagrams	Comment Type E	Comment Status D			EZ
		ion including subclauses 149. diagram conventions.	.4.4.1, 149.4.4.2	, and 149.4.5 lacks	missing article				
		ons are stated in 149.3.7.1 an	nd 149.3.9.4.1, h	owever the text states	SuggestedRemedy				
those conve	entions apply	y only to those subclauses.				ncoding received data from MA	C," To "Instead	l of encoding rece	eived
uggestedRem	edy				data from the MAC,"				
		and renumber remaining subc	lauses as neede	ed.	Proposed Response	Response Status W			
		ons and state diagrams n conventions			PROPOSED ACCEP	T IN PRINCIPLE.			
The body of definitions of	f this subclar of constants,	use is comprised of state diag variables, functions, counters			Change "Instead of e received from the MA	ncoding received data from MA \C,"	C," To "Instead	l of encoding data	а
		state diagram and te diagram prevails.			C/ 149 SC 149.5.1	P 161	L 12	# i-43	Ţ
		e state diagrams follows the c	onventions of 21	.5. "	Wienckowski. Natalie	General Motor	rs Company		
Juan a a a d Daan	0000	Desmanas Clatus M			1		is company		ΕZ
roposea Resp	Unse	Response Status 🛛 🛛 🛛 🖉			Comment Type F	Comment Status D			/
PROPOSEI PROPOSEI		Response Status W			Comment Type E poor wording	Comment Status D			EZ
This text is	D REJECT.	as this is done in 149.1.6 for t 9.3.7.1 (Comment 32) and 14			poor wording SuggestedRemedy	Comment Status D	e".		EZ
PROPOSEI This text is being remov	D REJECT. not needed ved from 14	as this is done in 149.1.6 for t 9.3.7.1 (Comment 32) and 14	9.3.9.4.1 (Comn	nent 33).	poor wording <i>SuggestedRemedy</i> Change "In the recei		5".		EZ
PROPOSEI This text is being remov	D REJECT. not needed ved from 14 C 149.5.1	as this is done in 149.1.6 for t 9.3.7.1 (Comment 32) and 14 P 160	9.3.9.4.1 (Comn <i>L</i> 8		poor wording SuggestedRemedy	ve side" To "On the receive side Response Status W	9".		EL
PROPOSEI This text is being remov	D REJECT. not needed a ved from 149 C 149.5.1 latalie	as this is done in 149.1.6 for t 9.3.7.1 (Comment 32) and 14 <i>P</i> 160 General Motor	9.3.9.4.1 (Comn <i>L</i> 8	nent 33). # [i-41	poor wording SuggestedRemedy Change "In the recei Proposed Response PROPOSED ACCEF	ve side" To "On the receive side <i>Response Status</i> W T.			E2.
PROPOSEI This text is i being remov C/ 149 SC Vienckowski, N Comment Type	D REJECT. not needed ved from 14 C 149.5.1 latalie E	as this is done in 149.1.6 for t 9.3.7.1 (Comment 32) and 14 P 160	9.3.9.4.1 (Comn <i>L</i> 8	nent 33).	poor wording SuggestedRemedy Change "In the recei Proposed Response	ve side" To "On the receive side <i>Response Status</i> W 'T.	5". L 14	# <u>i-44</u>	E2
PROPOSEI This text is being remov Cl 149 SC Nienckowski, N Comment Type Redundant	D REJECT. not needed ved from 14 C 149.5.1 latalie E word	as this is done in 149.1.6 for t 9.3.7.1 (Comment 32) and 14 <i>P</i> 160 General Motor	9.3.9.4.1 (Comn <i>L</i> 8	nent 33). # [i-41	poor wording SuggestedRemedy Change "In the recei Proposed Response PROPOSED ACCEF Cl 149 SC 149.5.1 Wienckowski, Natalie	ve side" To "On the receive side <i>Response Status</i> W T.	L 14	# [i-44	E2
PROPOSEI This text is being remov Cl 149 SC Nienckowski, N Comment Type Redundant SuggestedRemov	D REJECT. not needed ved from 14 C 149.5.1 latalie E word edy	as this is done in 149.1.6 for t 9.3.7.1 (Comment 32) and 14 <i>P</i> 160 General Motor <i>Comment Status</i> D	9.3.9.4.1 (Comn <i>L</i> 8	nent 33). # [i-41	poor wording SuggestedRemedy Change "In the recei Proposed Response PROPOSED ACCEF Cl 149 SC 149.5.1	ve side" To "On the receive side Response Status W T. P 161	L 14	# [<u>i-44</u>	
PROPOSEI This text is being remov Cl 149 SC Wienckowski, N Comment Type Redundant SuggestedRemov	D REJECT. not needed ved from 14 C 149.5.1 latalie E word	as this is done in 149.1.6 for t 9.3.7.1 (Comment 32) and 14 <i>P</i> 160 General Motor <i>Comment Status</i> D	9.3.9.4.1 (Comn <i>L</i> 8	nent 33). # [i-41	poor wording SuggestedRemedy Change "In the recei Proposed Response PROPOSED ACCEF Cl 149 SC 149.5.1 Wienckowski, Natalie	ve side" To "On the receive side <i>Response Status</i> W 'T. <i>P</i> 161 General Motor	L 14	# [<u>i-44</u>	EZ
PROPOSEI This text is i being remov C/ 149 SC Vienckowski, N Comment Type Redundant SuggestedRemov Change "BE	D REJECT. not needed a ved from 143 C 149.5.1 latalie E word edy ER testing" t	as this is done in 149.1.6 for t 9.3.7.1 (Comment 32) and 14 <i>P</i> 160 General Motor <i>Comment Status</i> D	9.3.9.4.1 (Comn <i>L</i> 8	nent 33). # [i-41	poor wording SuggestedRemedy Change "In the recei Proposed Response PROPOSED ACCEF Cl 149 SC 149.5.1 Wienckowski, Natalie Comment Type E	ve side" To "On the receive side <i>Response Status</i> W 'T. <i>P</i> 161 General Motor	L 14	# [<u>i-44</u>	
PROPOSEI This text is being remov Cl 149 SC Wienckowski, N Comment Type Redundant SuggestedRemov	D REJECT. not needed ved from 14 C 149.5.1 latalie E word edy ER testing" to onse	as this is done in 149.1.6 for t 9.3.7.1 (Comment 32) and 14 <i>P</i> 160 General Motor <i>Comment Status</i> D o "BER".	9.3.9.4.1 (Comn <i>L</i> 8	nent 33). # [i-41	poor wording SuggestedRemedy Change "In the recei Proposed Response PROPOSED ACCEF Cl 149 SC 149.5.1 Wienckowski, Natalie Comment Type E missing article SuggestedRemedy	ve side" To "On the receive side <i>Response Status</i> W 'T. <i>P</i> 161 General Motor	L 14 rs Company		EZ

Pa **161** Li **14**

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

C/ 149 SC 149.5.2.	2 P 162	L 50	# i-45		C/ 149	SC 1	149.7.2.1	P 172	L 52	# i-49	
Wienckowski, Natalie	General Moto	rs Company			Kumada, ⁻	Faketo					
Comment Type E	Comment Status D			EZ	Comment	Туре	т	Comment Status D		Link	Segment
0	a 1, 36 dB in 5GBASE-T1 and 3 and 35 dB in 2.5G mode" <i>Response Status</i> W	5 dB in 2.5G mod	de" To "10GBA	SE-T1,	cables There that a to sati	s configu fore, I th re config sfy this r	ired aroun ink it is ne jured arou	this required line based on d are composed of STP ca cessary to include a comm nd are STP cables. This is nt when the surrounding ca le.	bles in the 4 arou ent that clearly st because it is ass	and 1 measurer tates that all the umed that it is o	nent. e cables difficult
PROPOSED ACCEP1	,				Suggested	Remed	v				
C/ 149 SC 149.7.2	Р 172	L 40	# i-10		After I	Equation	149-25, p	please add as follows. Howe are composed of STP cable		n is for the cas	e where
Wienckowski. Natalie	General Motor				Proposed		0	Response Status W			
Comment Type E	Comment Status D	is company		EZ	•		REJECT.				
Consider replacing "er as 97.6.3, 113.7.3, 12 SuggestedRemedy Change: To ensure th segments is limited, p	e total alien NEXT loss and al	ien FEXT loss co stalk (PSANEXT)	oupled between loss and powe	link r sum	PHYs shield shield	to opera ed cable ed cable	ate properl es can mee es would h	n the commenter. This equ y. This applies to all link se et this requirement, specifyi ave the unintended side eff elded cables were used.	egments. While i ng that this requi	t is likely that o rement only ap	nly plies to
	osstalk ratio far-end (PSAACR lk (PSANEXT) loss and power				C/ 149	SC 1	149.7.2.2	P 173	L 42	# i-12	·
	R-F) are specified to limit the to			an	Wienckow <i>Comment</i>	,	alie E	General Moto	ors Company		EZ
Proposed Response PROPOSED ACCEPT	Response Status W					21	_	ure" per IEEE recommenda	ition.		
	•				Suggestee	Remed	У				
C/ 149 SC 149.7.2.	I <i>P</i> 172	L 48	# i-11		•	,		total alien FEXT coupled in ratio far-end ACRF is speci	0	· ·	

 Wienckowski, Natalie
 General Motors Company

 Comment Type
 E
 Comment Status
 D
 EZ

Consider replacing "ensure" per IEEE Mandatory Editorial Coordination comment.

SuggestedRemedy

Change: In order to limit the alien crosstalk at the near end of a link segment, the differential pair-to-pair near-end crosstalk (NEXT) loss between the disturbed link segment and the disturbing link segment is specified to meet the bit error ratio objective. To: The differential pair-to-pair near-end crosstalk (NEXT) loss between the disturbed link segment and the disturbing link segment is specified to meet the bit error ratio objective by limiting the alien crosstalk at the near end of a link segment.

Proposed Response R	esponse Status	w
---------------------	----------------	---

PROPOSED ACCEPT.

Change: To ensure the total alien FEXT coupled into a link segment, multiple disturber attenuation to crosstalk ratio far-end ACRF is specified as the power sum of the individual alien ACRF disturbers. To: Multiple disturber attenuation to crosstalk ratio far-end ACRF is specified as the power sum of the individual alien ACRF disturbers to limit the total alien FEXT coupled into a link segment.

Proposed Response Response Status W

PROPOSED ACCEPT.

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

Pa **173** Li **42** Page 15 of 20 1/6/2020 2:58:12 PM

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	.7.2.2	P 173	L 47	# i-50		C/ 149	SC 149.8.2.2	P 175	L 45	# i-2
Kumada, Taketo						Mueller. Th			v	
Comment Type T	Commer	nt Status D		Link Se	egment	Comment		Comment Status D		
Equation 149-26 cables configured Therefore, I think that are configure to satisfy this requ UTP cable and U	around are comp it is necessary to d around are STF uirement when the	bosed of STP cab include a comme cables. This is b	les in the 4 arour ent that clearly sta because it is assu	nd 1 measuremer ates that all the ca umed that it is diffi	nt. ables ïcult	require there is be to le <i>Suggested</i>	ments for a prop not enough ex ave this questic Remedy	use 149.8.2.2 was to provid ber shield termination of the berience / data for a solid d in to the implementer for no bolause 149.8.2.2 from the	e linksegment to th escription of this te w.	e MDI. As for today, est. Suggestion would
SuggestedRemedy						00			stanuaru uue to a	
After Equation 14 the surrounding c				n is for the case w	/here	Proposed F PROP	esponse SED ACCEPT	Response Status W		
Proposed Response PROPOSED REJ	,	e Status W				C/ 149	SC 149.9.1	P 176	L 5	# i-27
						Wienckows	ki, Natalie	General Mo	tors Company	
The CRG disagre PHYs to operate shielded cables c	properly. This ap	plies to all link se	gments. While it	is likely that only	,	Comment T There i	<i>ype</i> T s an untestable	Comment Status D shall.		Environm
shielded cables w	ould have the uni	ntended side effe			35 10	Suggested				
equation's limits i	f unshielded cable	es were used.						eublact to this clause shall	conform to IEC 62	368_1 (or IEC 60060_1
equation's limits i		P 175	L 45	# i-21		(for IT	and motor vehic	subject to this clause shall le applications) and to ISO given application). Also de	26262 (for motor \	ehicle applications
C/ 149 SC 149				# i-21		(for IT	and motor vehic required by the	le applications) and to ISO	26262 (for motor \	ehicle applications
· · · · · · · · · · · · · · · · · · ·	.8.2.2 Commer	P 175		# <u>i-21</u>	EZ	(for IT only, if <i>Proposed I</i>	and motor vehic required by the	le applications) and to ISO given application). Also de <i>Response Status</i> W	26262 (for motor \	368-1 (or IEC 60950-1 rehicle applications
Cl 149 SC 149 Wienckowski, Natalie Comment Type E Empty Subclause	.8.2.2 Commer	P 175 General Moto		# [i-21	EZ	(for IT only, if <i>Proposed I</i>	and motor vehic required by the Response	le applications) and to ISO given application). Also de <i>Response Status</i> W	26262 (for motor \	# i-28
C/ 149 SC 149 Wienckowski, Natalie Comment Type E	. 8.2.2 Commer	P 175 General Moto		# [<u>i-21</u>	EZ	(for IT only, if <i>Proposed I</i> PROP	and motor vehic required by the Response DSED ACCEPT SC 149.9.1	le applications) and to ISO given application). Also de <i>Response Status</i> W P 176	26262 (for motor v lete PICS ES1.	ehicle applications
Cl 149 SC 149 Wienckowski, Natalie Comment Type E Empty Subclause SuggestedRemedy Delete subclause Proposed Response	.8.2.2 Commer Response	P 175 General Moto		# [<u>i-21</u>	EZ	(for IT only, if <i>Proposed I</i> PROP CI 149 Wienckows <i>Comment</i>	and motor vehic required by the Response DSED ACCEPT SC 149.9.1 ki, Natalie	le applications) and to ISO given application). Also de <i>Response Status</i> W P 176 General Mo <i>Comment Status</i> D	26262 (for motor v lete PICS ES1.	ehicle applications
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Cl 149 SC 149 Wienckowski, Natalie Comment Type E Empty Subclause SuggestedRemedy Delete subclause Proposed Response PROPOSED ACC	. 8.2.2 Commer Response CEPT.	P 175 General Moto nt Status D		# [<u>i-21</u> # [<u>i-79</u>	EZ	(for IT only, if Proposed I PROP CI 149 Wienckows Comment There Suggested Chang	and motor vehic required by the Sesponse OSED ACCEPT SC 149.9.1 ki, Natalie Type T is an untestable Remedy a "All equipment	le applications) and to ISO given application). Also de <i>Response Status</i> W P 176 General Mo <i>Comment Status</i> D shall.	26262 (for motor v lete PICS ES1. <i>L</i> 7 tors Company	# <u>i-28</u> <i>Environm</i>
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Cl 149 SC 149 Wienckowski, Natalie Comment Type E Empty Subclause SuggestedRemedy Delete subclause Proposed Response PROPOSED ACC Cl 149 SC 149 Mcclellan, Brett	.8.2.2 Commer Response CEPT. .8.2.2 R Commer 49.8.2.2 MDI coup	P 175 General Moto at Status D e Status W P 175 Marvell Semio at Status D oling attenuation'	<i>L</i> 45 conductor, Inc.	# [i-79	EZ	(for IT only, if Proposed I PROPO CI 149 Wienckows Comment T There Suggested Chang nationa expect standa Proposed I	and motor vehic required by the Response DSED ACCEPT SC 149.9.1 ki, Natalie Type T is an untestable Remedy a "All equipment I, and application ed to conform to ds." Also dele Response	le applications) and to ISO given application). Also de <i>Response Status</i> W P176 General Mo <i>Comment Status</i> D shall. subject to this clause shall on-specific standards." To ' all applicable local, state, to the PICS ES2. <i>Response Status</i> W	26262 (for motor v lete PICS ES1. <i>L</i> 7 tors Company conform to all app All equipment sub	# <u>i-28</u> <i>Environm</i>
Cl 149 SC 149 Wienckowski, Natalie Comment Type E Empty Subclause SuggestedRemedy Delete subclause Proposed Response PROPOSED ACC Cl 149 SC 149 Mcclellan, Brett Comment Type TI The subclause '14	.8.2.2 Commer Response CEPT. .8.2.2 R Commer 49.8.2.2 MDI coup ent. It should be re	P 175 General Moto at Status D e Status W P 175 Marvell Semio at Status D oling attenuation'	<i>L</i> 45 conductor, Inc.	# [i-79	EZ	(for IT only, if Proposed I PROPO CI 149 Wienckows Comment T There Suggested Chang nationa expect standa Proposed I	And motor vehic required by the Response OSED ACCEPT SC 149.9.1 ki, Natalie Type T is an untestable Remedy a "All equipment I, and application and to conform to do s." Also dele	le applications) and to ISO given application). Also de <i>Response Status</i> W P176 General Mo <i>Comment Status</i> D shall. subject to this clause shall on-specific standards." To ' all applicable local, state, to the PICS ES2. <i>Response Status</i> W	26262 (for motor v lete PICS ES1. <i>L</i> 7 tors Company conform to all app All equipment sub	# <u>i-28</u> <i>Environm</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 U/unsatisfied Z/withdrawn SORT ORDER: Page, Line

Pa	176	
Li	7	

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

C/ 149 SC 149.9.2 P176 L18 # i-29		C/ 149 SC	149.11.4.3	3.4	P 187	L 26	# i	-14
Wienckowski, Natalie General Motors Company		Wienckowski, Na	talie		General Moto	ors Company		
Comment Type T Comment Status D Envir	onment	Comment Type	Е	Comment	Status D			E
There is an untestable shall which applies to the final instalation, not the PHY defined	by	Update PICS	to match r	requirement te	ext.			
this draft.		SuggestedRemed	dy					
SuggestedRemedy		Delete: to en	sure detec	tion at link pa	rtner			
Delete: In automotive applications, all cabling shall be routed in such a way as to pro- maximum protection by the motor vehicle sheet metal and structural components, follo SAE J1292, ISO 14229, and ISO 15764. Also delete PICS ES3.		Proposed Respor PROPOSED		Response S	Status W			
Proposed Response Response Status W								
PROPOSED ACCEPT.		C/ 149A SC	149A.3		P 196	L 32	# i	-15
		Wienckowski, Na	talie		General Moto	ors Company		
C/ 149 SC 149.9.2.1 P 176 L 33 # [-80		Comment Type	E	Comment				E
Mcclellan, Brett Marvell Semiconductor, Inc.		Consider repl	lacing "ens	sures" per IEE	E Mandatory E	Editorial Coordir	nation comm	ent.
Comment Type ER Comment Status D	EZ	SuggestedRemed	dy					
ISO 167540-5 is a typo copied from Clause 96, ISO 16750-5 is the correct reference						ble are matched		
						to measure coup		
SuggestedRemedy		ottonuction						
		attenuation.						
Change "ISO 167540-5" to "ISO 16750-5"			enuation, tl			ould be matche		
Change "ISO 167540-5" to "ISO 16750-5" Proposed Response Response Status W		screening atte	enuation, tl J.		s and cable sh			
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Proposed Response Response Status W PROPOSED ACCEPT.		screening att and shielding <i>Proposed Respor</i> PROPOSED	enuation, tl J. nse	he connectors	s and cable sh		d in terms of	
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TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	Pa 197	Page 17 of 20
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 27	1/6/2020 2:58:12 PM
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D000 2-6 D2 0

D2 0 Dhysical L aifiaatia + D for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Auto ate

P802.3	3ch D3.0	D3.0 Physical L	ayer Specifica	tions and Managem	ent Parameters fo
C/ 149A	SC 149A.4	P 198	L 10	# i-48	C/ 149A S
Boyer, Rich	h	Aptiv - Signa	I and Power Solu	tions	Wienckowski, N
Comment	Туре Т	Comment Status D		149A	Comment Type
		ge to the shield connection o ding of implementing into veh		h ends to assist user	missing pe
Suggested					SuggestedRem Add "." at e
both ei technic	nds of the cable ques suitable for	entences at the end of paragr shield should be directly cor RF applications in the frequ semblies into vehicles. This	nected to the signeric to the signeric term of the signeric term of the second	nal ground using erest when	Proposed Resp PROPOSE
	nentation match	es the coupling and screenin			C/ 149B S
Proposed I		Response Status W			Mcclellan, Brett
PROP	OSED ACCEPT	IN PRINCIPLE.			Comment Type
					"PHY Temp warning"
It is no	t necessary to e	explain why the requirement e	exists.		SuggestedRem
		tence at the end of paragrap			change "Pl
		the cable shield should be di ble for RF applications in the			Proposed Resp
		semblies into vehicles. "	inequency range	of interest when	PROPOSE
C/ 149A	SC 149A.4	P 198	L 24	# <u>i-</u> 91	C/ 149B S
Thompson	, Geoffrey	Independent	Consultant		Mcclellan, Brett
Comment	Type TR	Comment Status D		149A	Comment Type
conditi	ons for link segr	ely deal with specifying a uni nents in an automotive envir ractice used in that environm	onment. Text sho		OAM Symbol and a comp definition(h
Suggested	Remedy				indicated th
cable s		t before the existing text on F d ground connection to the co ably.			compliant t Making the organizatio free to defi
Proposed I	Response	Response Status W			SuggestedRem
PROP	OSED ACCEPT	IN PRINCIPLE.			page202 lir
lt is no	t clear what a "h	ard ground" connection mea	ins.		specific fiel page 203 li
Add th	e text as defined	d in comment #48.			"149B.3.7 \ Vendor-spe
		ntence at the end of the parag			vendor defi
		the cable shield should be di			Proposed Resp
using t	echniques sulta	ble for RF applications in the	inequency range	or interest when	DDODOSE

using techniques suitable for RF applications in the frequency range of interest when implementing cable assemblies into vehicles. "

C/ 149A	SC	149A.4	P 1	98	L 27	#	i-16	
Wienckows Comment 7 missing	уре	Е	Gene Comment Status		lotors Company			EZ
Suggested Add "."		<i>dy</i> d of paragr	aph.					
Proposed F PROPC	•	nse ACCEPT.	Response Status	w				
C/ 149B	SC	149B.2	P 2	02	L 29	#	i-77	
Mcclellan, E	Brett		Marv	ell Se	miconductor, Inc.			
Comment 7 "PHY T warning	empV	ER Varning" fo	<i>Comment Status</i> r D5 doesn't match t	-	t name in 149B.3.3, "	Internal	temper	EZ ature
Suggestedl change		•	rning" to "Internal te	nper	ature warning"			
Proposed F PROPC	•	nse ACCEPT.	Response Status	w				
C/ 149B	SC	149B.2	P 2	02	L 32	#	i-75	l
Mcclellan, E	Brett		Marv	ell Se	miconductor, Inc.			
Comment 7	уре	TR	Comment Status	D				OAM
and a c definitio indicate complia Making organiz	omplia on(http ed that ant to t these ations	ant device o://www.iee t this symb this informa e vendor de s. Leaving t	must set these bits e802.org/3/ch/publi ol is reserved for fut ative annex. efined bits allows the	to ze c/nov ure u em to	eans they cannot be ro. The proposal for the 18/wienckowski_3ch se, however it cannot be defined by OEMs r use isn't necessary	nis _01b_1´ t be use or othei	118.pdf d by a d	Jevice
Suggested	Remed	dy						
specific page 2 "149B.3 Vendor	field 03 line 3.7 Ve -speci	<7:0>" e 49 insert ndor-speci	new subclause 1498 fic field :0> is indicated in O	3.3.7) from individual rese and renumber remair 11><7:0> and may be	ning sub	clauses	S :

sponse Response Status W PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 202	Page 18 of 20
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 32	1/6/2020 2:58:12 PM
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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/ 149B SC 149B.3	P 203	L 5	# i-76	C/ 149B	SC 14	49B.4.1	P 204	L 33	# i-74	
Mcclellan, Brett	Marvell Semice	onductor, Inc.		Mcclellan,	Brett		Marvell Semi	conductor, Inc.		
Comment Type TR	Comment Status D		OAM	Comment	Туре	E	Comment Status D			ΕZ
	uration for which these defined			missin	g definitio	on for ++	operator			
	e, but how long should the indic t the link partner has an opportu			Suggested	Remedy					
These bits are not pla	aced into latched indicators at th 1.2318 and 1.2319 as they arrive	e link partner, l			04 line 33 ie is to be		t: "The notation ++ after a c ented."	ounter or integer	variable indicates	that
	SupplyWarning, PHY TempWar			Proposed I	Response	е	Response Status W			
	nt we should recommend a min static condition throughout the l			PROP	OSED A	CCEPT.				
SuggestedRemedy				C/ 149B	SC 14	49B.4.2.1	P 206	L 12	# i-78	
	18, 26, and 35 add the following minimum of 100 milliseconds to			Mcclellan,	Brett		Marvell Semi	conductor, Inc.		
management entity."		ensure recept	ion by the link partner	Comment	Туре	т	Comment Status D			OAM
Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			rf_valio	and RX	_FRAME	are used without definition	in Figure 149B-2	2	
PROPOSED ACCEF	Т.			Suggested	Remedy					
C/ 149B SC 149B.4	.1 <i>P</i> 204	L 33	# i-34	page 2 " rf_va		6 insert r	new variable definition			
Wienckowski, Natalie	General Motor	s Company			d in 149.3					
Comment Type T	Comment Status D		State Diagrams		4.2.2 Co		new subclause			
Need to add reference	e to state diagram notation exte	nsions as done	e in 149.1.6.	RX_FF	RAME					
SuggestedRemedy				Define	d in 149.:	3.7.2.6 "				
Change "The notatio	n used in the state diagrams foll	ows the conver	ntions of state diagrams	Proposed I	•		Response Status W			
	" To "The notation used in the			PROP	OSED AG	CCEPT I	N PRINCIPLE.			
conventions of state 145.2.5.2."	diagrams as described in 21.5, a	along with the e	extensions described in	The su	ıbclause	149B.4.2	2.2 already exists. RX_FRA	ME is not a Cour	nter but a message) .
Proposed Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉			P205 L	_16 inser	t new var	riable definition, with approp	riate formatting.	" rf_valid -> Define	d in
PROPOSED ACCEP	T.			149.3.			·····			
Should be "FALSE" of	only when this represents a varia	able value.					bclause, with appropriate fo > RX_FRAME -> Defined in			
	ALSE" on P114 L18, P114 L31,					0	-			

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

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.

Pa 206 Li 12

Page 19 of 20 1/6/2020 2:58:12 PM

ΕZ

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

C/ 149C SC 149C.3	3 P 208	L 46	# <u>i-90</u>		C/ 149C	SC 149C.5	P 212	L 6	# i-60	
Jonsson, Ragnar	Aquantia				Zimmermar	n, George	ADI, APL Gro	oup, Aquantia, Bl	MW, Cisco, CommS	Зсор
Comment Type E	Comment Status D			MDI	Comment 7	Гуре Т	Comment Status D			MDI
The equation referer	nces b, c, and d, in footnotes to	Table 149C-1 a	re incorrect				nere is confusion as to whethe			
SuggestedRemedy							d by the "coupling between lir			
Remove footnotes a	, b, c, and d,						ney are not. MDI to MDI coup ney should be less than or equ	•		
Proposed Response	Response Status W				Suggested	0	,			
PROPOSED ACCER	,						9C.4.3, entitled: Coupling bet	tween ports on m	nultiport designs, wi	th
							lultiGBASE-T1 PHYs are impl	•		
	ces to the footnotes in the head	ing row of Table	149C-1 and remove	•			bid coupling between ports. T			
the footnotes below	the table.						ctor or between adjacent trace greater, than that specified for			
							49-25." Additionally, add a s			
							plementations with multiple N			
							oupling between ports on the and PSAFEXT specification.			
					•		•		fiation, see 149.0.0).
					Proposed F	•	Response Status W			
					PROPO	USED ACCEPT	IN PRINCIPLE.			
					At the e	end of the propo	osal "specification" should be	"specifications"	and remove specific	С
					types o	of crosstalk and	replace with alien crosstalk.			
					Insert 1	149 C 5 after 14	9C.4.3, entitled: Coupling bet	ween ports on m	ultinort designs wi	ith
							lultiGBASE-T1 PHYs are impl			
					should	he taken to avo	oid coupling between ports T	he coupling betw	veen adjacent norts	on

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."

Pa **212** Li **6**