al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 2nd Ta

C/ 149 SC 149.9.1 P97 L21 # 3	C/ 149 SC 149.9.2.2 P98 L6 # 2				
Jones, Chad Cisco	Jones, Chad Cisco				
Comment Type ER Comment Status D Conformance "All equipment subject to this clause may be additionally required to conform to any applicable local, state, or national standards or as agreed to between the customer and supplier." the customer and supplier have no business in an interoperability spec. Delete this text.	Comment Type ER Comment Status D Conformance "Exact test setup and test limit values may be adapted to each specific application, subject to agreement between the customer and the supplier." the customer and supplier have no business in an interoperability spec. Delete this text. Conformance				
SuggestedRemedy change to: "All equipment subject to this clause may be additionally required to conform to any applicable local, state, or national standards." Proposed Response Response Status W	 SuggestedRemedy change to: "Exact test setup and test limit values may be adapted to each specific application." Proposed Response Response Status W PROPOSED ACCEPT. 				
PROPOSED ACCEPT IN PRINCIPLE. Change: All equipment subject to this clause may be additionally required to conform to any applicable local, state, or national standards or as agreed to between the customer and supplier.	C/78SC78.1P30L11#4Wienckowski, NatalieGeneral Motors				
To: All equipment subject to this clause shall conform to all applicable local, state, national, and application-specific standards.	Comment Type T Comment Status D EEE Add Section 78.1.4, Table 78-1 with 2.5GBASE-T1, 5GBASE-T1 and 10GBASE-T1, all referenced to Clause 149. EEE				
C/ 149 SC 149.9.2.2 P97 L 51 # 1 Jones, Chad Cisco Comment Type ER Comment Status D Conformance "In addition, the system may need to comply with more stringent requirements as agreed upon between customer and supplier, for the limitation of electromagnetic interference." the	SuggestedRemedy Insert a row for 2.5GBASE-T1 after 2.5GBASE-T, insert a row for 5GBASE-T1 after 5GBASE-T, and insert a row for 10GBASE-T1 after 10GBASE-T. Proposed Response Response Status W PROPOSED ACCEPT.				
customer and supplier have no business in an interoperability spec. Delete this text. SuggestedRemedy change to: "In addition, the system may need to comply with more stringent requirements	CI 44SC 44.1.3P23L23# 17Wienckowski, NatalieGeneral Motors				
for the limitation of electromagnetic interference."	Comment Type E Comment Status D EZ Renumber figures and change editor instruction EZ EZ				
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change: In addition, the system may need to comply with more stringent requirements as agreed upon between customer and supplier, for the limitation of electromagnetic interference. To: In addition, the system may need to comply with more stringent requirements for the limitation of the system may need to comply with more stringent requirements for the system may need to comply with more stringent requirements for the limitation.	SuggestedRemedy Change editor instruction to: Replace Figure 44-1 with Figure 44-1a and Figure 44-1b as shown below. Renumber Figure 44-1 to 44-1a. Renumber Figure 44-1a to 44-1b.				
limitation of electromagnetic interference.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.				
	Change editor instruction to: Replace Figure 44-1 with Figure 44-1 shown below.				
	Combine current figures into a single figure with two separate drawings in it.				
	Grant editorial license to modify figures and/or keep as two figures to fit on a single page.				
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w					

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

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Cl 125 SC 125.1.2 Wienckowski, Natalie	P 33 General Motors	L 8	# <u>1</u> 8		Cl 149 SC 149.1 Wienckowski, Natalie	P 38 General Motor	L 17 s	# 7
<i>Comment Type</i> E Renumber figures and	Comment Status D change editor instruction			EZ	Comment Type E missing comma	Comment Status D		EZ
2018) with Figure 125		below. Inser	t the following text a		SuggestedRemedy Change " The 2.5GB/ T1, 5GBASE-T1, and Proposed Response PROPOSED ACCEP	Response Status W	BASE-T1 PHY	s" to "The 2.5GBASE-
Proposed Response PROPOSED ACCEPT	Response Status W N PRINCIPLE.				Cl 149 SC 149.1 Wienckowski, Natalie	P 38 General Motor	L 19 s	# 8
Change editor instruct 2018) with Figure 125	ion to: Replace Figure 125-1 (as 1 shown below.	s modified by	IEEE Std 802.3cb-		Comment Type E missing comma	Comment Status D		EZ
0	es into a single figure with two se to modify figures and/or keep as	•	0	je.	<i>SuggestedRemedy</i> Change " The 2.5GBA T1, 5GBASE-T1, and	ASE-T1, 5GBASE-T1 and 10GB 10GBASE-T1 PHYs"	BASE-T1 PHY	s" to "The 2.5GBASE-
					, , ,			
Cl 125 SC 125.1.4 Wienckowski, Natalie	P 35 General Motors	L17	# 5		Proposed Response PROPOSED ACCEP	Response Status W		
		L17	# 5	EZ	Proposed Response	Response Status W	L14	# 30
Wienckowski, Natalie Comment Type E missing space SuggestedRemedy	General Motors	L17	# 5	EZ	Proposed Response PROPOSED ACCEP Cl 149 SC 149.1.3 Tu, Mike Comment Type TR	Response Status W P 39	L14	# <u>30</u> EZ
Wienckowski, Natalie Comment Type E missing space SuggestedRemedy	General Motors Comment Status D oding" to "64B/65B encoding". Response Status W	L 17	# <u>5</u>	EZ	Proposed Response PROPOSED ACCEP Cl 149 SC 149.1.3 Tu, Mike Comment Type TR Change "TBD encodir SuggestedRemedy	Response Status W P 39 Broadcom Comment Status D	L14	
Wienckowski, Natalie Comment Type E missing space SuggestedRemedy Change "64B/65Bence Proposed Response	General Motors Comment Status D oding" to "64B/65B encoding". Response Status W	L17 L14	# <u>5</u> # <u>6</u>	EZ	Proposed Response PROPOSED ACCEP Cl 149 SC 149.1.3 Tu, Mike Comment Type TR Change "TBD encodir SuggestedRemedy	Response Status W T. P39 Broadcom Comment Status D ng" to "64B/65B encoding" reg" to "64B/65B encoding" Response Status W	L14	
Wienckowski, Natalie Comment Type E missing space SuggestedRemedy Change "64B/65Bence Proposed Response PROPOSED ACCEPT C/ 149 SC 149.1	General Motors Comment Status D oding" to "64B/65B encoding". Response Status W			EZ	Proposed Response PROPOSED ACCEP Cl 149 SC 149.1.3 Tu, Mike Comment Type TR Change "TBD encodir SuggestedRemedy Change "TBD encodir Proposed Response	Response Status W T. P39 Broadcom Comment Status D ng" to "64B/65B encoding" reg" to "64B/65B encoding" Response Status W	L14	
Wienckowski, Natalie Comment Type E missing space SuggestedRemedy Change "64B/65Bence Proposed Response PROPOSED ACCEPT C/ 149 SC 149.1 Wienckowski, Natalie Comment Type E missing comma SuggestedRemedy	General Motors Comment Status D oding" to "64B/65B encoding". Response Status W P38 General Motors Comment Status D SE-T1, 5GBASE-T1 and 10GBA	L14	# 6	EZ	Proposed Response PROPOSED ACCEP Cl 149 SC 149.1.3 Tu, Mike Comment Type TR Change "TBD encodir SuggestedRemedy Change "TBD encodir Proposed Response	Response Status W T. P39 Broadcom Comment Status D ng" to "64B/65B encoding" reg" to "64B/65B encoding" Response Status W	L14	

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

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C/ 149 Tu, Mike	SC 149.1.3	P 40 Broadcom	L 7	# 31		<i>Cl</i> 149 <i>SC</i> 149.1.3. Wienckowski, Natalie	3 P41 General M	L 31 otors	# 22	
	to-Negotiation	Comment Status D is not used, MASTER and SLA on function as defined in 149.4.		e synchronized by tl	<i>EZ</i> ne	Comment Type T These PHYs use XGM	Comment Status D			EZ
SuggestedRe	medy					SuggestedRemedy Change "GMII" to "XG	MII". Also on line 34.			
•	." to "The MAS ization	and SLAVE are synchronized b TER and SLAVE shall be sync				Proposed Response PROPOSED ACCEPT	Response Status W			
Proposed Res		Response Status W				<i>Cl</i> 149 <i>SC</i> 149.1.4 McClellan, Brett	P 42 Marvell	L11	# 38	
<i>Cl</i> 149 Wienckowski,	SC 149.1.3	P 40 General Motors	L 26	# 9		Comment Type E this is a single pair PH	Comment Status D			EZ
Comment Typ	e E	Comment Status D			EZ	SuggestedRemedy delete "on any pair co	mbination."			
missing s SuggestedRe Change "	medy	ver" to "10GBASE-T1 over"				Proposed Response PROPOSED ACCEPT	Response Status W			
Proposed Res		Response Status W				C/ 149 SC 149.1.4 Tu, Mike	P 42 Broadcom	L 22	# 34	
C/ 149 Wienckowski.	SC 149.1.3.1 Natalie	P 40 General Motors	L 41	# 21		Comment Type TR PAM4 has four transm	Comment Status D nit voltage levels			EZ
Comment Typ	e E	Comment Status D ng: A 10-bit OAM field is next at	nended		EZ	SuggestedRemedy Change "one of ??? P	ower levels" to "one of four	r voltage levels"		
SuggestedRe	medy	ield is next appended" to "Next		AM field is appende	ed"	Proposed Response PROPOSED ACCEPT	Response Status W			
Proposed Res		Response Status W				C/ 149 SC 149.2.1. Wienckowski, Natalie	1.1 P43 General M	L 29 otors	# 27	
						<i>Comment Type</i> E Make DISABLE and E	Comment Status D NABLE statements paralle	sl.		EZ
						<i>SuggestedRemedy</i> Change "Used by the Negotiation function to	Auto-Negotiation to enable enable the PHY."	the PHY." to "Use	d by the Auto-	
						Proposed Response PROPOSED ACCEPT	Response Status W			
		ER/editorial required GR/gen batched A/accepted R/rejected					Topic	EZ	Page 3 of 7 11/5/2018 4	-50-13 DN

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

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<i>Cl</i> 149 <i>SC</i> 149.2.2.4 .2 Wienckowski, Natalie	2 P47 General Motors	L17	# <u>1</u> 0		C/ 149 SC 149.3.2.2.16 P62 L14 Tu, Mike Broadcom	# <u>3</u> 2
Comment Type E missing comma	Comment Status D			EZ	Comment Type TR Comment Status D Input should be m325, m324, .	E
SuggestedRemedy Change "for 5GBASE-T	1 and 5625 MHz for" to "for 5G	BASE-T1, ar	nd 5625 MHz for"		SuggestedRemedy Change "m355" to "m325". Use subscript for "325".	
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response Response Status W PROPOSED ACCEPT.	
C/ 149 SC 149.2.2.8. Wienckowski, Natalie	1 P49 General Motors	L 3	# 28		C/149SC149.3.3P66L 39Wienckowski, NatalieGeneral Motors	# 13
Comment Type E Missing periods	Comment Status D			EZ	Comment Type E Comment Status D missing comma	E
	of the OK and NOT_OK statem	ents.			SuggestedRemedy Change "the local transmitter, the channel and remote receiver." to "th the channel, and remote receiver.".	e local transmitter,
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response Response Status W PROPOSED ACCEPT.	
Cl 149 SC 149.3.2.2. Wienckowski, Natalie	3 P54 General Motors	L 33	# <u>1</u> 1		C/ 149 SC 149.5.5.1 P91 L1 Wienckowski, Natalie General Motors	# 20
Comment Type E missing comma	Comment Status D			ΕZ	Comment Type E Comment Status D Carryover of comment #24 from D0p5.	E
SuggestedRemedy Change "/O/, /S/ and /T/	" to "/O/, /S/, and /T/".				SuggestedRemedy Redraw Figure 149-20 in FM.	
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response Response Status W PROPOSED ACCEPT.	
C/ 149 SC 149.3.2.2. Wienckowski, Natalie	General Motors	L 46	# 12		Cl 149 SC 149.7 P93 L 52 Wienckowski, Natalie General Motors	# 14
Comment Type E missing comma	Comment Status D			EZ	Comment Type E Comment Status D missing comma	E
SuggestedRemedy Change "2.5, 5 and 10"	to "2.5, 5, and 10".				SuggestedRemedy	
Proposed Response PROPOSED ACCEPT.	Response Status W				Change "2.5 Gb/s, 5 Gb/s and 10 Gb/s" to "2.5 Gb/s, 5 Gb/s, and 10 G Proposed Response Response Status W PROPOSED ACCEPT.	Gb/s".

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
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 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
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C/149ASC149A.1P102L12#15Wienckowski, NatalieGeneral Motors	C/ 149 SC 149.3.2.2 P 53 L 32 # 29 Wienckowski, Natalie General Motors General Motors P<
Comment Type E Comment Status D EZ missing comma	Comment Type T Comment Status D PAM2 level accept highlighted text for PAM 2 levels
SuggestedRemedy Change " 2.5GBASE-T1, 5GBASE-T1 and 10GBASE-T1" to "2.5GBASE-T1, 5GBASE-T1, and 10GBASE-T1"	SuggestedRemedy Remove yellow highlighting on "2/3, 2/3} to keep the transmit power in the training mode close to the transmit power in normal mode."
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
CI 149ASC 149A.1P102L32#16Wienckowski, NatalieGeneral Motors	C/ 149 SC 149.3.2.2 P 53 L 32 # <u>35</u> Tu, Mike Broadcom
Comment Type E Comment Status D EZ missing comma	Comment Type TR Comment Status D PAM2 level The PAM2 transmit levels have not yet been determined. PAM2 level PAM2 level
SuggestedRemedy Change "cable, PCB connectors and inline connectors" to "cable, PCB connectors, and inline connectors".	SuggestedRemedy An agreement by the task force is reuqired.
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. That is why there are currently highlighted in yellow. See Comment #29.
C/ 149 SC 149.3.2.2 P 54 L 1 # 36 Tu, Mike Broadcom Broad	C/44SC44.1.3P24L15#19Wienckowski, NatalieGeneral Motors
Comment Type TR Comment Status D Interleaving The interleaving depths have not yet been determined. Interleaving Interleaving	Comment TypeEComment StatusDPC10GBASE-T1 does not hav a LDPC PCS.
SuggestedRemedy An agreement by the task force is reuqired.	SuggestedRemedy In 10GBASE-T1 stack, change "LDPC PCS" to "64B/65B PCS".
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. That is why there are currently highlighted in yellow.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change "LDPC PCS" to "64B/65B RS-FEC PCS".

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C/ 149 SC 149.1.3 Tu, Mike	P 39 Broadcom	L16	# <u>33</u>		C/ 149 SC 149.3.2.2.4 P 55 L 31 # 42 McClellan, Brett Marvell	
Comment Type TR Need to specify the me	Comment Status D aning of "50 blocks"			PCS	Comment Type E Comment Status D indexes usually start at zero	PCS
SuggestedRemedy Change "each group of	50 blocks" to "each group of	50 64B/65B blo	ocks"		SuggestedRemedy change indexes from 1 through 1800 to 0 through 1799	
Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Should Page 56, Line 33 also be changed?	
Cl 149 SC 149.3.2.2 McClellan, Brett	P 53 Marvell	L 3	# 39		C/ 149 SC 149.1.3.4 P56 L40 # 37 Tu. Mike Broadcom	
Comment Type E figure references should	<i>Comment Status</i> D be clause 149 instead of 13	6		PCS	Comment Type TR Comment Status D There should be 1800 rx PAM4 symbols per RS FEC frame. The figure is showing 1801	PCS
SuggestedRemedy change "136" to "149" in	n multiple locations				rx_PAM4 symbols. SuggestedRemedy	ļ
Proposed Response PROPOSED ACCEPT	Response Status W				Option 1: Change "rx_PAM4n (PMA)" to "rx_PAM4n+1 (PMA)" Option 2: Change "rx_PAM4n+1800 (PMA)" to "rx_PAM4n+1799 (PMA)"	
	which are currently highlighte gures are provided and added				Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
C/ 149 SC 149.3.2.2	P 53	L 24	# 43		See Comment #41	
McClellan, Brett	Marvell				C/ 149 SC 149.3.2.2.4 P56 L40 # 41	
Comment Type T symbol period scales w	Comment Status D			PCS	McClellan, Brett Marvell	
SuggestedRemedy					Comment Type E Comment Status D a block has 1800 symbols	PCS
Change "x S" to "/ S"					SuggestedRemedy	
Proposed Response	Response Status W				change "n+1800" to "n+1799"	
PROPOSED ACCEPT.					Proposed Response Response Status W PROPOSED ACCEPT.	

Topic PCS

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C/ 149 SC 149.3.2.2 McClellan, Brett	.13 P59 Marvell	L 46	# <u>4</u> 0	C/ 149 SC 149.1.3.4 Wienckowski, Natalie	P 41 General Motors	L 51 s	# 25
Comment Type E figure references shou	Comment Status D Id be clause 149 instead of 136		PCS	Comment Type T Change 1 us to 1.25 us	Comment Status D per send_s_timer		Synchronizatio
	Response Status W			synchronization sequence Proposed Response PROPOSED ACCEPT.	n a synchronization sequence e for 1.25 μs". Response Status W P 41		·
C/ 149 SC 149.1.3.4 Wienckowski. Natalie	P 41 General Motors	L 49	# 23	Cl 149 SC 149.1.3.4 Wienckowski, Natalie	P 41 General Motors	L 52 s	# 26
0	PHY sends a synchronization s ization sequence for 1.25 μs." <i>Response Status</i> W	equence for ⁻	Synchronization	Comment Type T Change to 5 us per sigde SuggestedRemedy Change "after the SLAVI Proposed Response PROPOSED ACCEPT.	Comment Status D et_wait_timer. E response for 4 µs" to "after Response Status W	r the SLAVE re	Synchronizatio sponse for 5 μs".
C/ 149 SC 149.1.3.4 Wienckowski, Natalie	P 41 General Motors	L 50	# 24				
<i>Comment Type</i> T Change to 6.25 us, sur	Comment Status D n of send_s_timer and sigdet_w	ait_timer.	Synchronization				
	eats by sending a synchronization seque						
Proposed Response PROPOSED ACCEPT	Response Status W						