Cl 44 SC 44.1.3 P**23** L23 # 17 Wienckowski. Natalie General Motors ΕZ

Comment Type E Comment Status D Renumber figures and change editor instruction

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.

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.

Cl 44 SC 44.1.3 P**24** / 15 # 19 Wienckowski. Natalie General Motors

Comment Type E Comment Status D PCS 10GBASE-T1 does not hav a LDPC PCS.

SuggestedRemedy

In 10GBASE-T1 stack, change "LDPC PCS" to "64B/65B PCS".

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE Change "LDPC PCS" to "64B/65B RS-FEC PCS".

CI 78 SC 78.1 P30 L11 #

Wienckowski. Natalie General Motors

Comment Type T Comment Status D

Add Section 78.1.4. Table 78-1 with 2.5GBASE-T1. 5GBASE-T1 and 10GBASE-T1. all referenced to Clause 149.

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.

C/ 125 SC 125.1.2 P33 **L8** # 18 Wienckowski. Natalie General Motors

Comment Type E Comment Status D

Renumber figures and change editor instruction

SuggestedRemedy

Change editor instruction to: Replace Figure 125-1 (as modified by IEEE Std 802.3cb-2018) with Figure 125-1a and Figure 125-1b as shown below. Insert the following text at the end of the list after d) of 125.1.2 (as modified by IEEE Std 802.3cb-2018) as follows:

Renumber Figure 125-1 to 125-1a. Renumber Figure 125-1a to 125-1b.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE

Change editor instruction to: Replace Figure 125-1 (as modified by IEEE Std 802.3cb-2018) with Figure 125-1 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.

C/ 125 SC 125.1.4 P**35** L17 Wienckowski, Natalie **General Motors** Comment Type E Comment Status D F7 missing space

SuggestedRemedy

Change "64B/65Bencoding" to "64B/65B encoding".

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 149 SC 149.1 P38 L14 Wienckowski. Natalie General Motors Comment Type E Comment Status D EΖ

missing comma

SuggestedRemedy

Change "The 2.5GBASE-T1, 5GBASE-T1 and 10GBASE-T1 PHYs" to "The 2.5GBASE-T1, 5GBASE-T1, and 10GBASE-T1 PHYs"

Proposed Response Response Status W

PROPOSED ACCEPT

EΖ

Cl 149 SC 149.1 Wienckowski, Natalie	P 38 General Motors	L 17	# 7	Cl 149 SC 149.1.3 P39 L16 # 33 Tu, Mike Broadcom
Comment Type E missing comma	Comment Status D		EZ	Comment Type TR Comment Status D PCS Need to specify the meaning of "50 blocks"
T1, 5GBASE-T1, and 1		ASE-T1 PHYs	" to "The 2.5GBASE-	SuggestedRemedy Change "each group of 50 blocks" to "each group of 50 64B/65B blocks" Proposed Response Response Status W
Proposed Response PROPOSED ACCEPT.	Response Status W			PROPOSED ACCEPT.
Cl 149 SC 149.1 Wienckowski, Natalie	P38 General Motors	L19	# 8	Cl 149 SC 149.1.3 P40 L7 # 31 Tu, Mike Broadcom
Comment Type E missing comma	Comment Status D		EZ	Comment Type TR Comment Status D EZ When Auto-Negotiation is not used, MASTER and SLAVE must be synchronized by the PHY Link Synchronization function as defined in 149.4.2.6.
T1, 5GBASE-T1, and 1 Proposed Response	Response Status W	ASE-T1 PHYs	" to "The 2.5GBASE-	SuggestedRemedy Change "The MASTER and SLAVE are synchronized by a PHY Link Synchronization function" to "The MASTER and SLAVE shall be synchronized by the PHY Link Synchronization function
PROPOSED ACCEPT. Cl 149 SC 149.1.3	P39	L14	# 30	Proposed Response Response Status W PROPOSED ACCEPT.
Tu, Mike Comment Type TR	Broadcom Comment Status D		EZ	CI 149 SC 149.1.3 P40 L26 # 9 Wienckowski, Natalie General Motors
SuggestedRemedy	" to "64B/65B encoding"			Comment Type E Comment Status D EZ missing space
Proposed Response PROPOSED ACCEPT	rg" to "64B/65B encoding" Response Status W □.			SuggestedRemedy Change "10GBASE-T1over" to "10GBASE-T1 over"
				Proposed Response Response Status W PROPOSED ACCEPT.

C/ 149 SC 149.1.3.1 P40 L41 # 21 C/ 149 SC 149.1.3.4 P41 L50 # 24 Wienckowski. Natalie General Motors Wienckowski. Natalie General Motors ΕZ Comment Type E Comment Status D Comment Type T Comment Status D Synchronization Change awkward wording: A 10-bit OAM field is next appended Change to 6.25 us, sum of send s timer and sigdet wait timer. SuggestedRemedy SuggestedRemedy Change "A 10-bit OAM field is next appended" to "Next, a 10-bit OAM field is appended". Change "MASTER repeats by sending a synchronization sequence every 5 µs." to "MASTER repeats by sending a synchronization sequence every 6.25 µs." Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT PROPOSED ACCEPT. C/ 149 SC 149.1.3.3 P**41** # 22 L31 C/ 149 SC 149.1.3.4 P41 L51 Wienckowski, Natalie General Motors Wienckowski, Natalie General Motors Comment Type T Comment Status D ΕZ Synchronization Comment Type T Comment Status D These PHYs use XGMII Change 1 us to 1.25 us per send s timer SuggestedRemedy SuggestedRemedy Change "GMII" to "XGMII". Also on line 34. Change "it responds with a synchronization sequence for 1 µs" to "it responds with a Proposed Response Response Status W synchronization sequence for 1.25 µs". PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. C/ 149 SC 149.1.3.4 P41 L49 Wienckowski. Natalie General Motors C/ 149 SC 149.1.3.4 P**41** L52 Comment Status D Comment Type T Synchronization Wienckowski. Natalie **General Motors** Change 1 us to 1.25 us per send s timer Comment Type T Comment Status D Synchronization SuggestedRemedy Change to 5 us per sigdet wait timer. Change "the MASTER PHY sends a synchronization sequence for 1 µs." to "the MASTER SuggestedRemedy PHY sends a synchronization sequence for 1.25 µs." Change "after the SLAVE response for 4 µs" to "after the SLAVE response for 5 µs". Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT PROPOSED ACCEPT

C/ 149 SC 149.1.3.4 P56 L40 # 37 C/ 149 SC 149.2.1.1.1 P43 L29 # 27 Tu. Mike Broadcom Wienckowski. Natalie General Motors ΕZ Comment Type TR Comment Status D PCS Comment Type E Comment Status D There should be 1800 rx PAM4 symbols per RS FEC frame. The figure is showing 1801 Make DISABLE and ENABLE statements parallel. rx PAM4 symbols. SuggestedRemedy SuggestedRemedy Change "Used by the Auto-Negotiation to enable the PHY." to "Used by the Auto-Option 1: Change "rx PAM4n (PMA)" to "rx PAM4n+1 (PMA)" Negotiation function to enable the PHY." Option 2: Change "rx PAM4n+1800 (PMA)" to "rx PAM4n+1799 (PMA)" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. See Comment #41 C/ 149 SC 149.2.2.4.2 P47 L17 # 10 Wienckowski, Natalie General Motors C/ 149 SC 149.1.4 P42 L11 # 38 Comment Type E EΖ McClellan, Brett Comment Status D Marvell missing comma Comment Type E Comment Status D ΕZ SuggestedRemedy this is a single pair PHY Change "for 5GBASE-T1 and 5625 MHz for" to "for 5GBASE-T1, and 5625 MHz for" SuggestedRemedy Proposed Response delete "on any pair combination." Response Status W PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. C/ 149 SC 149.2.2.8.1 P49 **L3** # 28 Wienckowski, Natalie General Motors C/ 149 SC 149.1.4 P**42** L22 # 34 Comment Type E Comment Status D EΖ Tu. Mike Broadcom Missing periods EΖ Comment Type TR Comment Status D PAM4 has four transmit voltage levels SuggestedRemedy Add periods at the end of the OK and NOT OK statements. SuggestedRemedy Change "one of ??? Power levels" to "one of four voltage levels" Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT

PROPOSED ACCEPT.

C/ 149 SC 149.3.2.2 P53 L3 # 39 C/ 149 SC 149.3.2.2 P53 L32 # 35 McClellan, Brett Marvell Tu. Mike Broadcom Comment Type E Comment Status D PCS Comment Type TR Comment Status D PAM2 levels figure references should be clause 149 instead of 136 The PAM2 transmit levels have not yet been determined. SuggestedRemedy SuggestedRemedy change "136" to "149" in multiple locations An agreement by the task force is reugired. Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT IN PRINCIPLE PROPOSED ACCEPT IN PRINCIPLE Update the references, which are currently highlighted in yellow, to the appropriate That is why there are currently highlighted in yellow. See Comment #29. references when the Figures are provided and added to the document. C/ 149 SC 149.3.2.2 P**54 L1** # 36 C/ 149 SC 149.3.2.2 P53 1 24 # 43 Tu, Mike Broadcom McClellan, Brett Marvell Comment Type TR Comment Status D Interleaving PCS Comment Type T Comment Status D The interleaving depths have not yet been determined. symbol period scales with 1/S not with S SuggestedRemedy SuggestedRemedy An agreement by the task force is reuqired. Change "x S" to "/ S" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. That is why there are currently highlighted in yellow. C/ 149 SC 149.3.2.2.3 P**54** L33 C/ 149 SC 149.3.2.2 P53 L32 # 29 Wienckowski. Natalie **General Motors** Wienckowski, Natalie General Motors Comment Type E Comment Status D F7 Comment Type T Comment Status D PAM2 levels missing comma accept highlighted text for PAM 2 levels SugaestedRemedy SuggestedRemedy Change "/O/, /S/ and /T/" to "/O/, /S/, and /T/". 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 Response Response Status W PROPOSED ACCEPT.

C/ 149 SC 149.3.2.2. McClellan, Brett	.4 P55 Marvell	L31	# 42	Cl 149 SC 149.3.2.2.13 P59 L46 # 40 Marvell	
Comment Type E indexes usually start at	Comment Status D zero		PCS	Comment Type E Comment Status D PC figure references should be clause 149 instead of 136	cs
SuggestedRemedy change indexes from 1 through 1800 to 0 through 1799				SuggestedRemedy change "136" to "149" in multiple locations	
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Should Page 56, Line 33 also be changed?				Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Update the references, which are currently highlighted in yellow, to the appropriate references when the Figures are provided and added to the document.	
Cl 149 SC 149.3.2.2. McClellan, Brett	Marvell	L 40	# 41	Cl 149 SC 149.3.2.2.16 P62 L14 # 32 Tu. Mike Broadcom	<u> </u>
Comment Type E Comment Status D PCS a block has 1800 symbols SuggestedRemedy change "n+1800" to "n+1799" Proposed Response Response Status W PROPOSED ACCEPT.				,	ΕZ
				SuggestedRemedy Change "m355" to "m325". Use subscript for "325".	
				Proposed Response Response Status W PROPOSED ACCEPT.	
Cl 149 SC 149.3.2.2. Wienckowski, Natalie	.6 P57 General Motors	L 46	# [12	Cl 149 SC 149.3.3 P66 L39 # 13	
Comment Type E missing comma SuggestedRemedy	Comment Status D		EZ	Wienckowski, Natalie General Motors Comment Type E Comment Status D missing comma	EΖ
Change "2.5, 5 and 10" to "2.5, 5, and 10". Proposed Response Response W				SuggestedRemedy Change "the local transmitter, the channel and remote receiver." to "the local transmitter,	
PROPOSED ACCEPT.	Nosponse Status 14			the channel, and remote receiver.". Proposed Response Response Status W PROPOSED ACCEPT.	

C/ 149 SC 149.5.5.1 P**91 L1** # 20 Wienckowski. Natalie General Motors Comment Type E Comment Status D EΖ Carryover of comment #24 from D0p5. SuggestedRemedy Redraw Figure 149-20 in FM. Proposed Response Response Status W PROPOSED ACCEPT SC 149.7 C/ 149 P93 L52 # Wienckowski, Natalie General Motors Comment Type E Comment Status D ΕZ missing comma SuggestedRemedy Change "2.5 Gb/s, 5 Gb/s and 10 Gb/s" to "2.5 Gb/s, 5 Gb/s, and 10 Gb/s". Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149 SC 149 9 1 P97 1 21

Cl 149 SC 149.9.1 P97 L21 # 3______ 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.

SugaestedRemedy

change to: "All equipment subject to this clause may be additionally required to conform to any applicable local, state, or national standards."

Proposed Response Status **W**

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.

To: All equipment subject to this clause shall conform to all applicable local, state, national, and application-specific standards.

s, Chad Cisc

Comment Type ER Comment Status D Conformance
"In addition, the system may need to comply with more stringent requirements as agreed

"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 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 for the limitation of electromagnetic interference."

Proposed 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 electromagnetic interference.

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.

SuggestedRemedy

change to: "Exact test setup and test limit values may be adapted to each specific application."

Proposed Response Response Status W
PROPOSED ACCEPT.

 CI 149A
 SC 149A.1
 P102
 L12
 # 15

 Wienckowski, Natalie
 General Motors

Comment Type **E** Comment Status **D** missing comma

SuggestedRemedy

Change " 2.5GBASE-T1, 5GBASE-T1 and 10GBASE-T1" to "2.5GBASE-T1, 5GBASE-T1, and 10GBASE-T1"

Proposed Response Status **W**

PROPOSED ACCEPT.

F7

P802.3 D0p6 al Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet 2nd Ta

Cl 149A SC 149A.1 P102 L32 # 16
Wienckowski, Natalie General Motors

Comment Type E Comment Status D EZ
missing comma

SuggestedRemedy

Change "cable, PCB connectors and inline connectors" to "cable, PCB connectors, and inline connectors".

Proposed Response Response Status W PROPOSED ACCEPT.