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

| C/00 SC 0 | P 68 | L 10 | # 83 | Cl 45 | SC 45.2.1.19 | 92 | P 34 | L10 | # 1 |
|-------------------------------------|--|----------------|-----------------------|--------------------|------------------------------------|-----------------|----------------|--------------------|---------|
| en Besten, Gerrit | NXP Semicond | uctors | | Wienckov | vski, Natalie | | General Moto | ors | |
| Comment Type T | Comment Status X | | | Comment | 51 | | Status X | | |
| | biece of the channel between the N ted for in link segment IL & RL. All | | | Incon | sistent text - it is | not necessary | to say "writes | ignored" for RO b | its |
| | eference point, which makes a lot of | | | Suggeste | | | | | |
| | cs for IL and RL for the part of the & RL for this module-internal chani d | | | To: V | ge: Value always /alue always 0 | · · · | | | |
| SuggestedRemedy | u. | | | Proposed | Response | Response | Status O | | |
| | | | | | | | | | |
| Proposed Response | Response Status O | | | C/ 45 | SC 45.2.1.19 | 94.1 | P 36 | L 52 | # 29 |
| | | | | Lo, Willia | | | Axonne Inc. | | |
| C/ 44 SC 44.1.3 | P 27 | L 48 | # 6 | Comment Clarify | 51 | | Status X | that is being conf | iaured. |
| Vienckowski, Natalie | General Motors | | | Suggeste | | | | 5 | 5 |
| Comment Type E | Comment Status X | | | Chan | | | | | |
| Missing Abreviation | expansion | | | Reed | -Solomon interlea | ave setting | | | |
| SuggestedRemedy | | | | To: Reed- | -Solomon receive | er interleave s | ettina | | |
| Add MAC = MEDIA | ACCESS CONTROL | | | | Response | Response | 0 | | |
| Proposed Response | Response Status 0 | | | · | · | , | | | |
| C/ 44 SC 44.1.3 | P 27 | L 50 | # 7 | | | | | | |
| Vienckowski, Natalie | General Motors | | | | | | | | |
| Comment Type E Incorrect font | Comment Status X | | | | | | | | |
| SuggestedRemedy Change: AUTO-NEC | GOTIATION IS OPTIONAL to the | same font as t | the rest of the text. | | | | | | |
| Proposed Response | Response Status 0 | | | | | | | | |
| | | | | | | | | | |

C/ 45 SC 45.2.1.194.1

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

| C/ 45 SC 45.2.1.194.2 P37 | L 29 | # 33 | C/ 45 | SC 45.2.1.195.1 | P 38 | L35 | # 31 |
|--|-----------------|---------------|---|--|--|---|------------------------|
| _o, William Axonne I | IC. | | Lo, William | | Axonne Inc. | | |
| Comment Type T Comment Status X The 7 bit user field does not exist. This is a holdover from 1000BASE-T1. Looking at figure 149-10 octet 10 bits 7 to 1 were but 4 of the 7 bits are now used for interleave a | | BASE-T1 | SuggestedRe | at is it the transmitter a | | - | figured. |
| SuggestedRemedy This is the general description what to do and e changes to make the text consistent. 1) Move register 1.2311.12:11 to 1.2311.5:4. S the register move consistent. | | | To: , and con <i>Proposed Re</i> | trols the Reed-Solomo sponse Respo | n transmitter interlea Inse Status O | ave setting of the | e PHY |
| 2) 1.2311.8:6 is the 3-bit user defined field | | | C/ 45 | SC 45.2.1.195.2 | P 38 | L 39 | # <u>3</u> 4 |
| 3) 1.2311.15:9 is Reserved4) Update table 45-155c to match and any othe | titles/headings | | Lo, William | | Axonne Inc. | | |
| 5) Change the 3 reserved bits in Table 149-10 (It should be a single box and not 3 separate b Proposed Response Response Status 0 | | Defined Field | This is a Looking a | user field does not exis holdover from 1000BA at figure 149-10 octet 1 | SE-T1. 0 bits 7 to 1 were nc | | ASE-T1 |
| | | | but 4 of t | he / bits are now used | for interleave and p | ecode. | |
| C/ 45 SC 45.2.1.194.3 P37 | L 35 | # 30 | SuggestedRe | emedy | | | |
| Lo, William Axonne I Comment Type T Comment Status X Clarify that is it the receiver and not the transmi SuggestedRemedy Change: precoder setting requested by To: | IC. | | SuggestedRe This is th changes 1) Move the reg 2) 1.2312 3) 1.2312 | emedy e general description w to make the text consis register 1.2312.12:11 to ister move consistent. 2.8:6 is the 3-bit user de 2.15:9 is Reserved e table 45-155d to mato | what to do and editor stent. o 1.2312.5:4. Searc | has editorial lice h the document link partner | |
| Lo, William Axonne I Comment Type T Comment Status X Clarify that is it the receiver and not the transmi SuggestedRemedy Change: precoder setting requested by To: receiver precoder setting of | IC. | | SuggestedRe This is th changes 1) Move the reg 2) 1.2312 3) 1.2312 4) Update Proposed Re | emedy e general description w to make the text consis register 1.2312.12:11 to ister move consistent. 2.8:6 is the 3-bit user de 2.15:9 is Reserved e table 45-155d to mato sponse Respo | what to do and editor stent. 5 1.2312.5:4. Searc efined field from the ch and any other title onse Status O | has editorial lice h the document link partner s/headings. | to make |
| Lo, William Axonne I Comment Type T Comment Status X Clarify that is it the receiver and not the transmi SuggestedRemedy Change: precoder setting requested by To: receiver precoder setting of | IC. | | SuggestedRe This is th changes 1) Move i the reg 2) 1.2312 3) 1.2312 4) Update Proposed Re C/ 45 Lo, William Comment Ty/ Clarify th SuggestedRe | e general description w to make the text consis register 1.2312.12:11 to ister move consistent. 2.8:6 is the 3-bit user de 2.15:9 is Reserved e table 45-155d to mato sponse Respo SC 45.2.1.195.3 oe T Comm at is it the transmitter a | what to do and editor stent. 5 1.2312.5:4. Searc efined field from the ch and any other title onse Status O P 38 Axonne Inc. ment Status X nd not the receiver t | has editorial lice h the document link partner es/headings. <i>L</i> 45 hat is being con | to make # <u>32</u> |
| Lo, William Axonne I Comment Type T Comment Status X Clarify that is it the receiver and not the transmi SuggestedRemedy Change: precoder setting requested by To: receiver precoder setting of | IC. | | SuggestedRe This is th changes 1) Move 1 the reg 2) 1.2312 3) 1.2312 4) Update Proposed Re CI 45 Lo, William Comment Ty, Clarify th SuggestedRe Insert aft To: | e general description w to make the text consis register 1.2312.12:11 to ister move consistent. 2.8:6 is the 3-bit user de 2.15:9 is Reserved e table 45-155d to mato sponse Respo SC 45.2.1.195.3 De T Comr at is it the transmitter a emedy | what to do and editor stent. 5 1.2312.5:4. Searc efined field from the ch and any other title onse Status O P38 Axonne Inc. ment Status X nd not the receiver t | has editorial lice h the document link partner es/headings. <i>L</i> 45 hat is being con use: | to make # <u>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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 45 SC 45.2.1.195.3 Page 2 of 17 4/8/2019 11:16:21 AM

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| C/ 45 SC 45.2 | 1.197 | P 39 | L 43 | # 72 | C/ 98 | SC 98 | P 56 | L1 | # 44 |
|---|---|---|---|---------------|---|--|--|---|--|
| den Besten, Gerrit | | NXP Semicor | nductors | | LEE, JUH | ю | Hanyang U | niversity and Hyur | ndai Motor Company |
| 0x8000." I'm not a complement" and SuggestedRemedy | offset two's cor ware of a forma "offset binary". | eent Status X mplement notation at called 'offset two From the context i complement" with " | 's complement'. it is clear that the | I know "two's | should increa cause this do | atest asymmetric d be used for lov ase, the data traf a buffer overflo elay time, PHY o | Comment Status X transmission proposals hav v speed transmission. 2. Eve fic should be transmitted on w. 3. There is a delay time v can not cover the traffic com problems can occur. | en if data traffic at ly in a predetermin when sleep mode | low speed have to ned period. This may is switched on. During |
| Proposed Response | Respon | nse Status O | | | Suggeste | dRemedy | | | |
| Cl 45 SC 45.5 Wienckowski, Natalie Comment Type E Editor's note to be when WG ballot re SuggestedRemedy Delete Editor's no Proposed Response | Comm removed prior equested. | P 51 General Moto tent Status X to draft 2.0. Remo | | # 9 | by the is pro Mbps the re the up mode inform freque AN to to a s | e common links l posed, which su) between end d eliability of low-sp plink and downlin e. And power sav nation with the M ency of use to de o set the asymmet | AN is self-configuring to use between end devices. For as pports the lowest common li evices. This can reduce the beed data. In order to add the k directions at a low speed ing in some cases while usin IAC layer, the MAC measure etermine the trigger for the a setric uplink / downlink rate. A mmetric transmission, and the Response Status O | symmetric transmi nk speed (or a sp BER and increase e new AN mode, p in AN for asymme ng AN. Because the sthe queue char symmetric transmis s the queue chan | ission, a new AN mode ecific link rate like 10 e the energy saving and providing either one of etric data transmission he AN can exchange acteristics and hission and instructs the iges, it can be switched |
| | | | | | Cl 104 Wienckov Comment | SC 104.1 wski, Natalie t <i>Type</i> E | P 57 General Mo <i>Comment Status</i> X | L8 | # [2 |

Editor's note that is to be removed for D1.2 that is still in the spec.

SuggestedRemedy

Delete Editor's note.

Proposed Response Response Status **0**

C/ 104 SC 104.1

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

| C/ 125 SC 125.1.2 | P 61 | L 8 | # 3 | C/ 125 SC 125.3 | P 65 | L 31 | # 8 |
|--------------------------|--|---------------|-----------------|---|------------------------------|-----------------------|---------------------|
| Wienckowski, Natalie | General Motors | | | Wienckowski, Natalie | General Moto | rs | |
| Comment Type E | Comment Status X | | | Comment Type E | Comment Status X | | |
| Editor's instruction sho | ould only be for text change. | | | The bit time is based on th | e data rate, not the PHY t | type. | |
| SuggestedRemedy | | | | SuggestedRemedy | | | |
| | 125-1 (as modified by IEEE Std GBASE-T1 and 5GBASE-T1. to | | | Remove highlighting from | text in notes a and b below | <i>w</i> table 125-3. | |
| | to be after 125.1.3 text. | be just below | e rigure 125-1. | Proposed Response F | Response Status O | | |
| Proposed Response | Response Status 0 | | | | | | |
| | | | | C/ 149 SC 149.1.3 | P68 | L 4 | # 47 |
| C/ 125 SC 125.1.2 | P62 | L 44 | # 4 | Tu, Mike | Broadcom | | |
| Wienckowski, Natalie | General Motors | | | Comment Type TR | Comment Status X | | |
| Comment Type E | Comment Status X | | | The OAM capability is adv | ertises via InfoField in 149 | 9.4.2.4.5 | |
| Missing Abreviation ex | pansion | | | SuggestedRemedy | | | |
| SuggestedRemedy | | | | Change from: "PHY adve 149.3.8." | ertises its MultiGBASE-T1 | OAM capability | as described in |
| Add PMA = PHYSICA | L MEDIUM ATTACHMENT | | | To: "PHY advertises its N | MultiGBASE-T1 OAM cap | ability as describ | ed in 149.4.2.4.5". |
| Proposed Response | Response Status O | | | Proposed Response F | Response Status O | | |
| C/ 125 SC 125.1.2 | P 62 | L 46 | # 5 | C/ 149 SC 149.1.3 | P 71 | L12 | # 48 |
| Wienckowski, Natalie | General Motors | | | Tu, Mike | Broadcom | | |
| Comment Type E | Comment Status X | | | Comment Type TR | Comment Status X | | |
| Missing Abreviation ex | pansion | | | In Figure 149-2, "pcs_data | _mode" is missing | | |
| SuggestedRemedy | | | | SuggestedRemedy | | | |
| Add XGMII = 10 GIGA | BIT MEDIA INDEPENDENT IN | TERFACE | | In Figure 149-2: | " | | |
| Proposed Response | Response Status O | | | 1. Add an arrowed line for and going into the "PCS_T 2. If proposal in "tu 3ch 0: | RANSMIT" block. | - | |
| | | | | EEE is adopted, then make | | | |

C/ 149 SC 149.1.3

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

| C/ 149 SC 149.1.3.1 | P68 | L 28 | # 28 | C/ 149 SC 149.1.3.3 | P 69 | L 37 | # 45 |
|--|---|------------------|-----------------------|---|---|--|--|
| ₋o, William | Axonne Inc. | | | Kim, Taehyoung | Hanyang Uni | versity and Hyun | dai Motor Company |
| <i>Comment Type</i> T Duration missing the L | Comment Status X term | | | | Comment Status X | | |
| SuggestedRemedy Change 320 ns to L x 3 | 20 ns | | | energy loss. Also, the ref | e PHY repeatedly enters a resh signal in LPI mode or but does not transmit any o | ly maintains a co | onnection between the |
| Proposed Response | Response Status 0 | | | transition problem, part of speed depending on the of after the our proposed OA | f the unused OAM fields ca change of data amount in AM field, PHY can transmi | an be used to adj ouffers. If PHY tra t PAM4 data bloc | ust the transmission ansmit quiet time bloc k with information and |
| C/ 149 SC 149.1.3.3 | P 69 | L 15 | # 61 | transmission. | Therefore we propose OAN | vi transmission io | r various speed |
| Graba, Jim | Broadcom | | | SuggestedRemedy | | | |
| Comment Type TR | Comment Status X | | | | es the D9 bit field of the p | | |
| It isn't clear in this line t line 49-53 the alignmen | that Sleep is aligned with a su it is clear. | per frame. In 14 | l9.3.2.2.21, page 94, | When $D9 = 0$, this defines | Iffer accumulated in the PH s no change in the amount e at the next data transmis | t of data to be tra | nsmitted and the PHY |
| SuggestedRemedy | | | | | amount of data and that the | | |
| | | e Pivia transmit | s the sleep signal | speed at either 5 Gops of | r 2.5 Gbps speed on 10 Gl | pp link based on | |
| starting at the beginning | " with "Following this event th g of the next superframe." <i>Response Status</i> O | | | of D4 and D5. 1. <d4, d5=""> = <0, 0> 10 2. <d4, d5=""> = <0, 1> 5 G 3. <d4, d5=""> = <1, 0> 2.5</d4,></d4,></d4,> | bps Gbps | | |
| starting at the beginning Proposed Response | g of the next superframe." <i>Response Status</i> O | L25 | # <u>60</u> | of D4 and D5. 1. <d4, d5=""> = <0, 0> 10 2. <d4, d5=""> = <0, 0> 10 2. <d4, d5=""> = <0, 1> 5 G 3. <d4, d5=""> = <1, 0> 2.5 In case of 5 Gbps, the lin</d4,></d4,></d4,></d4,> | Bbps | | |
| starting at the beginning Proposed Response Cl 149 SC 149.1.3.3 | g of the next superframe." <i>Response Status</i> O | | | of D4 and D5. 1. <d4, d5=""> = <0, 0> 10 2. <d4, d5=""> = <0, 1> 5 G 3. <d4, d5=""> = <1, 0> 2.5 In case of 5 Gbps, the lin in bit length one PAM4 da transmission.</d4,></d4,></d4,> | Sbps Gbps k mode of PHY will be on ata block. The quiet time is | a time period wi | th no data |
| starting at the beginning Proposed Response Cl 149 SC 149.1.3.3 Graba, Jim Comment Type TR | g of the next superframe." Response Status O P 69 | L 25 | | of D4 and D5. 1. <d4, d5=""> = <0, 0> 10 2. <d4, d5=""> = <0, 1> 5 G 3. <d4, d5=""> = <1, 0> 2.5 In case of 5 Gbps, the lin in bit length one PAM4 da transmission. In case of 2.5 Gbps, the I</d4,></d4,></d4,> | Sbps Gbps k mode of PHY will be on ata block. The quiet time is link mode of PHY will be o a block. And the length and | a time period winn the quiet time o | th no data of 192 (64 x 3) bits, |
| starting at the beginning Proposed Response Cl 149 SC 149.1.3.3 Graba, Jim Comment Type TR Alert isn't low frequency SuggestedRemedy | g of the next superframe." <i>Response Status</i> O <i>P</i> 69 Broadcom <i>Comment Status</i> X y. See 149.4.2.2, page 135, lir | L 25 | | of D4 and D5. 1. $<$ D4, D5> = $<$ 0, 0> 10 2. $<$ D4, D5> = $<$ 0, 1> 5 G 3. $<$ D4, D5> = $<$ 1, 0> 2.5 In case of 5 Gbps, the lin in bit length one PAM4 da transmission. In case of 2.5 Gbps, the I which is equal to one data data blocks are equal for | Sbps Gbps k mode of PHY will be on ata block. The quiet time is link mode of PHY will be o a block. And the length and | a time period winn the quiet time o | th no data of 192 (64 x 3) bits, |
| starting at the beginning Proposed Response Cl 149 SC 149.1.3.3 Graba, Jim Comment Type TR Alert isn't low frequency SuggestedRemedy Replace "low frequency | g of the next superframe." <i>Response Status</i> O <i>P</i> 69 Broadcom <i>Comment Status</i> X y. See 149.4.2.2, page 135, lir | L 25 | | of D4 and D5. 1. $<$ D4, D5> = $<$ 0, 0> 10 2. $<$ D4, D5> = $<$ 0, 1> 5 G 3. $<$ D4, D5> = $<$ 1, 0> 2.5 In case of 5 Gbps, the lin in bit length one PAM4 da transmission. In case of 2.5 Gbps, the I which is equal to one data data blocks are equal for | Sbps Gbps k mode of PHY will be on ata block. The quiet time is link mode of PHY will be o a block. And the length and both cases. | a time period winn the quiet time o | th no data of 192 (64 x 3) bits, |
| starting at the beginning Proposed Response Cl 149 SC 149.1.3.3 Graba, Jim Comment Type TR Alert isn't low frequency SuggestedRemedy Replace "low frequency | g of the next superframe." <i>Response Status</i> O <i>P</i> 69 Broadcom <i>Comment Status</i> X y. See 149.4.2.2, page 135, lir /" with "PN sequence". | L 25 | | of D4 and D5. 1. <d4, d5=""> = <0, 0> 10 2. <d4, d5=""> = <0, 1> 5 G 3. <d4, d5=""> = <1, 0> 2.5 In case of 5 Gbps, the lin in bit length one PAM4 da transmission. In case of 2.5 Gbps, the l which is equal to one data data blocks are equal for Proposed Response</d4,></d4,></d4,> | Sbps Gbps k mode of PHY will be on ata block. The quiet time is link mode of PHY will be of a block. And the length and both cases. <i>Response Status</i> O | a time period wi n the quiet time o d frequency of qu | th no data of 192 (64 x 3) bits, liet time and PAM4 |
| starting at the beginning Proposed Response Cl 149 SC 149.1.3.3 Graba, Jim Comment Type TR Alert isn't low frequency SuggestedRemedy Replace "low frequency | g of the next superframe." <i>Response Status</i> O <i>P</i> 69 Broadcom <i>Comment Status</i> X y. See 149.4.2.2, page 135, lir /" with "PN sequence". | L 25 | | of D4 and D5. 1. <d4, d5=""> = <0, 0> 10 2. <d4, d5=""> = <0, 1> 5 G 3. <d4, d5=""> = <1, 0> 2.5 In case of 5 Gbps, the lin in bit length one PAM4 da transmission. In case of 2.5 Gbps, the I which is equal to one data data blocks are equal for Proposed Response C/ 149 SC 149.2.2</d4,></d4,></d4,> | Sbp's Gbps k mode of PHY will be on ata block. The quiet time is link mode of PHY will be of a block. And the length and both cases. <i>Response Status</i> O <i>P</i> 74 | a time period wi n the quiet time o d frequency of qu | th no data of 192 (64 x 3) bits, liet time and PAM4 |
| starting at the beginning Proposed Response Cl 149 SC 149.1.3.3 Graba, Jim Comment Type TR Alert isn't low frequency SuggestedRemedy Replace "low frequency | g of the next superframe." <i>Response Status</i> O <i>P</i> 69 Broadcom <i>Comment Status</i> X y. See 149.4.2.2, page 135, lir /" with "PN sequence". | L 25 | | of D4 and D5. 1. $<$ D4, D5> = $<$ 0, 0> 10 2. $<$ D4, D5> = $<$ 0, 1> 5 G 3. $<$ D4, D5> = $<$ 1, 0> 2.5 In case of 5 Gbps, the lin in bit length one PAM4 da transmission. In case of 2.5 Gbps, the I which is equal to one data data blocks are equal for Proposed Response C/ 149 SC 149.2.2 Tu, Mike | Sbp's Gbps k mode of PHY will be on ata block. The quiet time is link mode of PHY will be o a block. And the length and both cases. <i>Response Status</i> O <i>P</i> 74 Broadcom <i>Comment Status</i> X | a time period wi n the quiet time o d frequency of qu | th no data of 192 (64 x 3) bits, liet time and PAM4 |
| starting at the beginning Proposed Response Cl 149 SC 149.1.3.3 Graba, Jim Comment Type TR Alert isn't low frequency SuggestedRemedy Replace "low frequency | g of the next superframe." <i>Response Status</i> O <i>P</i> 69 Broadcom <i>Comment Status</i> X y. See 149.4.2.2, page 135, lir /" with "PN sequence". | L 25 | | of D4 and D5. 1. $<$ D4, D5> = $<$ 0, 0> 10 2. $<$ D4, D5> = $<$ 0, 1> 5 G 3. $<$ D4, D5> = $<$ 1, 0> 2.5 In case of 5 Gbps, the lin in bit length one PAM4 da transmission. In case of 2.5 Gbps, the l which is equal to one data data blocks are equal for Proposed Response Cl 149 SC 149.2.2 Tu, Mike Comment Type TR | Sbp's Gbps k mode of PHY will be on ata block. The quiet time is link mode of PHY will be o a block. And the length and both cases. <i>Response Status</i> O <i>P</i> 74 Broadcom <i>Comment Status</i> X | a time period wi n the quiet time o d frequency of qu | th no data of 192 (64 x 3) bits, liet time and PAM4 |
| starting at the beginning Proposed Response Cl 149 SC 149.1.3.3 Graba, Jim Comment Type TR Alert isn't low frequency SuggestedRemedy | g of the next superframe." <i>Response Status</i> O <i>P</i> 69 Broadcom <i>Comment Status</i> X y. See 149.4.2.2, page 135, lir /" with "PN sequence". | L 25 | | of D4 and D5. 1. <d4, d5=""> = <0, 0> 10 4 2. <d4, d5=""> = <0, 1> 5 G 3. <d4, d5=""> = <1, 0> 2.5 In case of 5 Gbps, the lin in bit length one PAM4 data transmission. In case of 2.5 Gbps, the lin which is equal to one data data blocks are equal for Proposed Response Cl 149 SC 149.2.2 Tu, Mike Comment Type TR PMA_PCSDATAMODE s SuggestedRemedy If we make "pcs data models of the second second</d4,></d4,></d4,> | Sbp's Gbps k mode of PHY will be on ata block. The quiet time is link mode of PHY will be o a block. And the length and both cases. <i>Response Status</i> O <i>P</i> 74 Broadcom <i>Comment Status</i> X | t EEE, then inser | th no data of 192 (64 x 3) bits, liet time and PAM4 # <u>49</u> |

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| C/ 149 SC 149.2 | 2.2 P75 | L 23 | # 50 | C/ 149 SC | 149.2.2.3.1 | P 76 | L 46 | # 14 |
|--|--|---------------------|-----------------------|----------------------|---|-----------------------|-------------------|-------------------------|
| Гu, Mike | Broadcom | | | Wienckowski, Na | atalie | General Moto | rs | |
| Comment Type TR | Comment Status X | | | Comment Type | E Con | nment Status X | | |
| PMA_PCSDATAN | ODE.indication should be added | 1 | | There is no s | pace between the | number and the text | | |
| SuggestedRemedy | | | | SuggestedRemed | dy | | | |
| In Figure 149-3: | | | | Add a tab in t | the paragraph forr | nat to space the text | over from the nu | mber. |
| | line for "PMA_PCSDATAMODE | indication" from t | he PMA block into the | Proposed Respor | nse Resr | onse Status O | | |
| PCS block. 2. If pcs_data_mo | de is made available for non-EEE | E mode as well, th | en make this a SOLID | | 1000 | | | |
| | ke this a DASHED line. | ,,,, | | | | | | |
| Proposed Response | Response Status O | | | C/ 149 SC | 149.2.2.9 | P 79 | L 22 | # 51 |
| | | | | Tu, Mike | | Broadcom | | |
| | | | | Comment Type | TR Con | nment Status X | | |
| C/ 149 SC 149.2 | 2.2.3.1 P76 | L 35 | # 71 | Insert PMA_F | PCSDATAMODE. | indication before 149 | .2.2.9 | |
| Benyamin, Saied | Aquantia | | | SuggestedRemed | dy | | | |
| Comment Type T | Comment Status X | | | Before 149.2 | .2.9, insert the fol | owing (based on 55.2 | 2.2.11): | |
| 0 | d in VanCouver modified the text | , | | | | | | |
| remove ALERT fro | is sent directly to PMA rather that the primitive | an via tx_symb, a | s such we need to | | MA_PCSDATAM | | te diagrams are | able to transition from |
| SuggestedRemedy | | | | their initialization | tion states. The p | cs data mode variab | le is generated b | |
| , | | wmh) to the follow | uina. | | | the PCS Control fun | ction via the | - |
| | of PMA_UNITDATA.request(tx_s on, the PMA_UNITDATA.request | | | PMA_PCSDA | ATAMODE.indicat | ion primitive. | | |
| the parameter | | , | , | -149.2.2.8a.1 | 1 Semantics of the | e primitive | | |
| | of the symbols to be sent over the | he MDI. The tx_sy | /mb may take on one | -PMA_PCSD | DATAMODE.indica | ation (pcs_data_mode | e) | |
| of the following val {-1, -1/3, +1/3, +1} | | | | 140.2.2.85 | 2 When generated | 4 | | |
| 0 | when zeros are to be transmi | tted in the followi | ng two cases: | | | on generates PMA P | CSDATAMODE.i | ndication messages |
| | 1)when PMA_TXMODE.indica | ation is SEND_Z o | Juring PMA training, | continuously. | | 5 _ | | 5 |
| and | 2)after data mode is reached, | the transmit func | tion is in the | 140.0.0.9-1 | 2 Effect of receipt | | | |
| | LPI transmit mode, and lpi_ | | | | 3 Effect of receipt of this primitive. | the PCS performs its | transmit function | n as described in |
| | | | | | | | | |
| Proposed Response | Response Status O | | | 149.3.2.2. | | | | |

C/ 149 SC 149.2.2.9

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

| C/ 149 SC 149.3.2 | P 81 | L 27 | # 52 | C/ 149 | SC 149.3.2. | 2.21 | P 95 | L 9 | # 46 |
|--|--|-------------------------------------|---|-------------|---------------------|---------------------|-------------------|---------------------------------------|---|
| Γu, Mike | Broadcom | | | Tu, Mike | | | Broadcom | | |
| Comment Type TR | Comment Status X | | | Comment T | ype ER | Comment | Status X | | |
| In Figure 149-4, "pcs_ | _data_mode" is missing | | | | | | | e "SEND_DATA" | state. However |
| SuggestedRemedy | | | | _ | 0 | a better name | for this state. | | |
| In Figure 149-4: | | | | SuggestedF | - | | | | |
| 1. Add an arrowed lin PCS TRANSMIT bloc | e coming in from below the "PI | MA SERVICE IN | TERFACE" into the | | | | y "SEND_DAT | | ata" and "PCS DATA |
| | s made available for non-EEE | mode as well, th | nen make this a SOLID | | ively throughou | | | (IA by 100_E | |
| line. Otherwise make | | , | | Proposed R | Response | Response | Status O | | |
| Proposed Response | Response Status O | | | | | | | | |
| | | | | C/ 149 | SC 149.3.4. | 1 | P 98 | L 35 | # 27 |
| C/ 149 SC 149.3.2. | 2.15 P89 | L 38 | # 15 | Lo, William | | | Axonne Inc. | | |
| Vienckowski, Natalie | General Moto | rs | | Comment T | <i>уре</i> т | Comment | Status X | | |
| Comment Type E Equation is cut off at | Comment Status X | | | | | | | | to partial frames. This other than one on slide |
| SuggestedRemedy Equation 149-1 -> Ur | wrap then shrink wrap equation | on. | | See Lo | _3ch_02_0419 |).pdf for all the j | ustification and | l remedy. | |
| Proposed Response | Response Status O | | | SuggestedF | Remedy | | | | |
| | | | | Implem | ent Lo_3ch_02 | 2_0419.pdf slid | es 3, 5, 7, 9, 10 |), 11, 12, 13 | |
| C/ 149 SC 149.3.2 | 2.18 <i>P</i> 93 | L17 | # 40 | Proposed R | Response | Response | Status O | | |
| Zimmerman, George | CME Consult | ing/ADI, APL Gr | oup, Aquantia, BMW, Ci | | | | | | |
| Comment Type T | Comment Status X | | | C/ 149 | SC 149.3.5. | 1 | P 100 | L 8 | # 64 |
| "For output symbols t | he PMA transmit process shall | l map" - the gray | mapping is described | Benyamin, | Saied | | Aquantia | | - |
| described as a PCS function. A | lso, the selectable precoder ar unction. (149.3.2.2.19, page 93 | 1d PAM4 encodi 3, line 47 and 14 | ng both say PMA when 19.3.2.2.20 page 94 | Comment T | 51 | Comment | | | |
| line 24). | | | | The ser | ntence seems | to be missing s | ome words | | |
| SuggestedRemedy | | | | SuggestedF | Remedy | | | | |
| Change "PMA transm | it" to "PCS transmit" on page 9 | 93, lines 17 and | 47, and page 94 line 24. | Change | | O franciska i kali | | | |
| Proposed Response | Response Status O | | | | | | | inning of any eig wing a refresh P | |
| | | | | To: | | | | - | |
| | | | | | | C frama long a | | | |
| | | | | | | | | | nning of any eighth a refresh PHY frame |
| | | | | | me boundary | | beginning of the | | nning of any eighth a refresh PHY frame |

| Cl | 149 |
|----|-----------|
| SC | 149.3.5.1 |

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| C/ 149 | SC 149.3.5.1 | P 100 | L16 | # 65 | C/ 149 | SC 149.3.6.2 | .2 P102 | L 23 | # 37 |
|--|---|--|-----------------|--------------------------------------|--|--|--|---|--|
| Benyamin, | , Saied | Aquantia | | | McClellan, | Brett | Marvell | | |
| Comment 7 | Type TR | Comment Status X | | | Comment | Туре Т | Comment Status X | | |
| | | o indicate the frame numbers bles to use tx_alert_active | where alert sho | ould start, it is more | PMA_A | ALERTDETECT. | as primitive from the PN indication(alert_detect). | However, | |
| Suggested | lRemedy | | | | - | | indication(alert_detect) | isn't actually a defin | ed PMA primitive. |
| See Pr | resentation Benya | amin_3ch_02_041619 slide 2 | | | Suggested | • | | | |
| Proposed I | Response | Response Status O | | | "149.2 This pr | rimitive is genera | RTDETECT.indication ted by PMA Receive to | | of the receive link at the |
| C/ 149 | SC 149.3.5.1 | P 100 | L 16 | # 66 | receive | e function inform | active is TRUE. The pa ation regarding the dete | ction of the LPI aler | t signal by the PMA |
| 3enyamin, | , Saied | Aquantia | | | implem | | riterion for setting the pa | arameter alert_detec | ct is left to the |
| Comment | Type TR | Comment Status X | | | 149.2.2 | 2.11.1 Semantic | s of the primitive | | |
| Mecha | anism to prevent p | partial refresh is not necessar | y since refresh | is only one frame long. | | | indication (alert_detect) eter can take on one of | two values of the fe | |
| Suggested | IRemedy | | | | | | has been reliably detect | | |
| | | | | | | | | | |
| | | amin_3ch_02_041619 slide 4 _lpi_full_refresh are taken ou | | table 149-4 and 149-5 | 149.2.2 | 2.11.2 When ger | | | |
| where | calculations of tx | | | table 149-4 and 149-5 | 149.2.2 The PM alert_d status. | 2.11.2 When ger MA generates PN letect | nerated //A_ALERTDETECT.inc | | l. o indicate a change in th |
| where Proposed I | calculations of tx <u>.</u> Response | _lpi_full_refresh are taken ou Response Status O | t | | 149.2.2 The PM alert_d status. 149.2.2 | 2.11.2 When ger MA generates PN letect 2.11.3 Effect of r | nerated /A_ALERTDETECT.inc eceipt | ication messages to | o indicate a change in th |
| where Proposed I Cl 149 | calculations of tx Response SC 149.3.6.2 . | _lpi_full_refresh are taken ou Response Status O 2 P102 | t | table 149-4 and 149-5 # <u>16</u> | 149.2.2 The PM alert_d status. 149.2.2 The eff | 2.11.2 When ger MA generates PN letect 2.11.3 Effect of r fect of receipt of | nerated //A_ALERTDETECT.inc eceipt this primitive is specifie | ication messages to | o indicate a change in th |
| where Proposed I Cl 149 Wienckows | calculations of tx Response SC 149.3.6.2 . ski, Natalie | _lpi_full_refresh are taken ou Response Status O 2 P102 General Motor | t | | 149.2.2 The PM alert_d status. 149.2.2 | 2.11.2 When ger MA generates PN letect 2.11.3 Effect of r fect of receipt of | nerated /A_ALERTDETECT.inc eceipt | ication messages to | o indicate a change in th |
| where Proposed F C/ 149 Nienckows | calculations of tx Response SC 149.3.6.2 . ski, Natalie | _lpi_full_refresh are taken ou Response Status O 2 P102 General Motor Comment Status X | t | | 149.2.2 The PM alert_d status. 149.2.2 The eff <i>Proposed I</i> | 2.11.2 When ger MA generates PN letect 2.11.3 Effect of r fect of receipt of <i>Response</i> | erated //A_ALERTDETECT.inc eceipt this primitive is specifie <i>Response Status</i> O | ication messages to d in 149.3.2.3, Figur | o indicate a change in th re 149-17." |
| where Proposed I Cl 149 Nienckows Comment T Missing | calculations of tx Response SC 149.3.6.2. ski, Natalie Type E g period at end of | _lpi_full_refresh are taken ou Response Status O 2 P102 General Motor Comment Status X | t | | 149.2.2 The PM alert_d status. 149.2.2 The eff Proposed F C/ 149 | 2.11.2 When ger MA generates PN letect 2.11.3 Effect of r fect of receipt of Response SC 149.3.6.2 | ereated MA_ALERTDETECT.inc ecceipt this primitive is specifie Response Status O 2 P102 | ication messages to d in 149.3.2.3, Figur <i>L</i> 35 | o indicate a change in th |
| where Proposed I Cl 149 Wienckows Comment 7 Missing Suggested | calculations of tx Response SC 149.3.6.2. ski, Natalie Type E g period at end of | _lpi_full_refresh are taken ou Response Status O 2 P102 General Motor Comment Status X f sentence. | t | | 149.2.2 The PM alert_d status. 149.2.2 The eff <i>Proposed I</i> <i>Cl</i> 149 Benyamin, | 2.11.2 When ger MA generates PN letect 2.11.3 Effect of r fect of receipt of <i>Response</i> SC 149.3.6.2 Saied | ereated MA_ALERTDETECT.inc eceipt this primitive is specifie Response Status O .2 P102 Aquantia | ication messages to d in 149.3.2.3, Figur <i>L</i> 35 | o indicate a change in th re 149-17." |
| where Proposed I 27 149 Vienckows Comment 7 Missing Suggested Add pe | calculations of tx Response SC 149.3.6.2 . ski, Natalie Type E g period at end of <i>IRemedy</i> | _lpi_full_refresh are taken ou Response Status O 2 P102 General Motor Comment Status X f sentence. | t | | 149.2.2 The PM alert_d status. 149.2.2 The eff Proposed I C/ 149 Benyamin, Comment | 2.11.2 When ger MA generates PN letect 2.11.3 Effect of r fect of receipt of <i>Response</i> SC 149.3.6.2 Saied <i>Type</i> TR | nerated MA_ALERTDETECT.inc eccipt this primitive is specifie <i>Response Status</i> O .2 P102 Aquantia <i>Comment Status</i> X | ication messages to d in 149.3.2.3, Figur <i>L</i> 35 | o indicate a change in th re 149-17." # <u>69</u> |
| where Proposed I Cl 149 Wienckows Comment 7 Missing Suggested Add pe | calculations of tx Response SC 149.3.6.2. rski, Natalie Type E g period at end of IRemedy eriod after rx_raw | _lpi_full_refresh are taken ou <i>Response Status</i> O 2 <i>P</i> 102 General Motor <i>Comment Status</i> X f sentence. <71:40> | t | | 149.2.2 The PM alert_d status. 149.2.2 The eff Proposed I CI 149 Benyamin, Comment T Mecha | 2.11.2 When ger MA generates PN letect 2.11.3 Effect of r fect of receipt of <i>Response</i> SC 149.3.6.2 Saied <i>Type</i> TR nism to prevent | nerated MA_ALERTDETECT.inc eccipt this primitive is specifie <i>Response Status</i> O .2 P102 Aquantia <i>Comment Status</i> X | ication messages to d in 149.3.2.3, Figur <i>L</i> 35 | o indicate a change in th re 149-17." |
| where Proposed I Cl 149 Nienckows Comment T Missing Suggested Add pe | calculations of tx Response SC 149.3.6.2. rski, Natalie Type E g period at end of IRemedy eriod after rx_raw | _lpi_full_refresh are taken ou <i>Response Status</i> O 2 <i>P</i> 102 General Motor <i>Comment Status</i> X f sentence. <71:40> | t | | 149.2.2 The PM alert_d status. 149.2.2 The eff Proposed I Cl 149 Benyamin, Comment T Mecha Suggested change The va tx_lpi_i to: | 2.11.2 When ger MA generates PN letect 2.11.3 Effect of r fect of receipt of <i>Response</i> SC 149.3.6.2 Saied <i>Type</i> TR nism to prevent <i>Remedy</i> e lpi_tx_mode fro riable is set to Q initial_quiet)) | nerated MA_ALERTDETECT.inc eccipt this primitive is specifie <i>Response Status</i> O .2 <i>P</i> 102 Aquantia <i>Comment Status</i> X partial refresh is not neo om: UIET when (tx_lpi_qr_a | ication messages to d in 149.3.2.3, Figur <i>L</i> 35 exessary since refrest ctive * (!tx_refresh_ | o indicate a change in the first of the firs |
| where Proposed I Cl 149 Nienckows Comment T Missing Suggested Add pe | calculations of tx Response SC 149.3.6.2. rski, Natalie Type E g period at end of IRemedy eriod after rx_raw | _lpi_full_refresh are taken ou <i>Response Status</i> O 2 <i>P</i> 102 General Motor <i>Comment Status</i> X f sentence. <71:40> | t | | 149.2.2 The PM alert_d status. 149.2.2 The eff Proposed I Cl 149 Benyamin, Comment T Mecha Suggested change The va tx_lpi_i to: | 2.11.2 When ger MA generates PN letect 2.11.3 Effect of r fect of receipt of Response SC 149.3.6.2 Saied Type TR nism to prevent <i>Remedy</i> e Ipi_tx_mode fro riable is set to Q initial_quiet)) | nerated MA_ALERTDETECT.inc eccipt this primitive is specifie <i>Response Status</i> O 2 <i>P</i> 102 Aquantia <i>Comment Status</i> X partial refresh is not neo | ication messages to d in 149.3.2.3, Figur <i>L</i> 35 exessary since refrest ctive * (!tx_refresh_ | o indicate a change in re 149-17." # <u>69</u> h is only one frame lor active + |

C/ 149 SC 149.3.6.2.2

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| C/ 149 SC 149.3.6.2.2 P102 L37 # 53 | Cl 149 SC 149.3.7.1 P106 L23 # 56 |
|--|--|
| Fu, Mike Broadcom | Tu, Mike Broadcom |
| Comment Type TR Comment Status X pcs_data_mode already defined in 149.4.4.1 | Comment Type TR Comment Status X Make sure "pcs_status" is only set to TRUE after entering data mode. |
| SuggestedRemedy Delete line 37 to line 41. | SuggestedRemedy Change the second sentence to: "It is only true if pcs_data_mode is true, block_lock is |
| Proposed Response Response Status O | true, and hi_rfer is false." |
| | Proposed Response Response Status O |
| C/ 149 SC 149.3.6.2.2 P103 L8 # 67 | C/ 149 SC 149.3.7.2 P113 L2 # 70 |
| Benyamin, Saied Aquantia | Benyamin, Saied Aquantia $Aquantia$ |
| Comment Type TR Comment Status X | Commont Type TP Commont Status Y |
| Mechanism to prevent partial refresh is not necessary since refresh is only one frame lo | ng. Mechanism to prevent partial refresh is not necessary since refresh is only one frame lon |
| SuggestedRemedy | SuggestedRemedy |
| Take out definition of tx_lpi_full_refresh | See Benyamin_3ch_02_041619 slide 6 for changes to EEE state machine figure 149-18 |
| Proposed Response Response Status O | Proposed Response Response Status O |
| | Response Status |
| C/ 149 SC 149.3.6.2.2 P103 L10 # 68 | C/ 149 SC 149.3.8.2.5 P117 L5 # 10 |
| Benyamin, Saied Aquantia | Wienckowski, Natalie General Motors |
| Comment Type TR Comment Status X | |
| Mechanism to prevent partial refresh is not necessary since refresh is only one frame lo | ng. Editor's note to be removed prior to draft 1.3. |
| SuggestedRemedy | SuggestedRemedy |
| Take out definition of tx_lpi_initial_quiet | Delete Editor's note. |
| Proposed Response Response Status O | Proposed Response Response Status O |
| | |
| C/ 149 SC 149.3.6.2.3 P103 L30 # 17 | |
| Vienckowski, Natalie General Motors | |
| Comment Type E Comment Status X Missing period at end of sentence. | |
| SuggestedRemedy | |
| Add period after rfer timer done = TRUE | |
| | |

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: Clause, Subclause, page, line

C/ 149 SC 149.3.8.2.5 Page 9 of 17 4/8/2019 11:16:21 AM

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| / 149 SC 149 | .3.8.2.5 <i>P</i> 117 | L 6 | # 38 | C/ 149 | SC 149.3.8. | 4.3 | P 126 | L16 | # 20 |
|---|---|---|--|-------------|------------------------------------|-------------------|-----------------|------------------|---------------------------|
| lcClellan, Brett | Marvell | | | Wienckow | ski, Natalie | | General Motor | ſS | |
| omment Type T | Comment Status X | | | Comment | Туре Т | Comment | Status X | | |
| Commenters are | e removed in draft 1.3: The OAM requested to provide text and edit | ts necessary to cl | eanly remove this | | all REC associa ome is in 149B. | ated content to ? | 149B. Currently | , some of the d | efinition is in 149.3.8.4 |
| | ribe the local fault mechanism for added in Clause 97 (1000BASE | | | Suggestea | lRemedy | | | | |
| | he link partner receiver is having | | | See w | ienckowski_3ch | _02_0419. | | | |
| Also the mechani Local Fault signal | However this function may not be sm of exiting LPI is not described s toward the Reconciliation Subla | l. An XGMII based ayer in a low SNR | d PHY could generate condition. The RS | Proposed | Response | Response S | Status O | | |
| | sending Remote Faults to the lin and start sending Idle until the fau | | | C/ 149 | SC 149.3.8. | 4.6 | P 133 | L 1 | # 19 |
| | s that the data link is interrupted in | n the path from th | e link partner to the | Wienckow | ski, Natalie | | General Motor | ſS | |
| local device. | o the current mechanism of exitin | a I PI based on th | e OAM SNR indication | Comment | Туре Т | Comment | Status X | | |
| but clarify how the | | 9 | | Correc | t Clear REC sta | ate diagram. It | will continuous | y loop as drawn | in D1.2. |
| uggestedRemedy | | | | Suggestea | IRemedy | | | | |
| on page 69 line 4 | | a una della a live la una universi | un implication that I DI in | See w | ienckowski_3ch | n_01_0419. | | | |
| insufficient to mai To: "When the PH | he PHY Health status received from ntain PHY SNR, the PHY may tend IY Health status received from that ntain PHY SNR, the PHY shall te | mporarily exit LPI e link partner indi | mode and send idles." cates that LPI is | Proposed | Response | Response S | Status O | | |
| by replacing an L | PI symbol group received at the λ | | | C/ 149 | SC 149.3.8. | 4.6 | P 133 | L 9 | # 35 |
| 1 0 | indicates insufficient SNR." | | | Lo, Willian | n | | Axonne Inc. | | |
| roposed Response | Response Status O | | | Comment | Type TR | Comment | Status X | | |
| | | | | | | | | e speed and is r | not paced. |
| / 149 SC 149 | .3.8.3 P120 | L 53 | # 18 | | | | op once per RS | | |
| /ienckowski, Natalie | General Mot | tors | | | d is false. | | p morementing | 01100 | |
| omment Type E | Comment Status X | | | Suggestea | IRemedy | | | | |
| Reorder reference | es to be in numerical order. | | | Chang | e all 3 instance | s of UCT to RX | _FRAME | | |
| | | | | Proposed | Response | Response S | Status O | | |
| uggestedRemedy | | | | | | | | | |
| uggestedRemedy | to Figure 149-23 and Figure 149- | -22. | | | | · | | | |

C/ 149 SC 149.3.8.4.6 Page 10 of 17 4/8/2019 11:16:21 AM

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| C/ 149 SC 149.4.2 | 2 P134 | L19 | # 54 | C/ 149 SC 149. | 4.2.4.6 | P 138 | L 52 | # 11 |
|---|---|---|--|--|---|---|--|--|
| Γu, Mike | Broadco | om | | Wienckowski, Natalie | | General Moto | ors | |
| Comment Type TR In Figure 149-26, "po | Comment Status X cs_data_mode" is missing | - | | Comment Type E Editor's note to be | | <i>ment Status</i> X or to draft 1.3. | | |
| uggestedRemedy In Figure 149-26: | | | | SuggestedRemedy Delete Editor's no | e. | | | |
| SERVICE INTERFA | ICE. | | going up toward the PMA II, then make this a SOLID | Proposed Response | Respo | onse Status O | | |
| roposed Response | Response Status |) | | C/ 149 SC 149. | 4.2.6 | P 141 | L 29 | # 62 |
| | | | | Benyamin, Saied | | Aquantia | | |
| | | | | Comment Type TF | Com | ment Status X | | |
| 149 SC 149.4.2 | | | # 63 | | | | | when alert starts. This |
| enyamin, Saied | Aquanti | | | can add a random known value at th | | | propose that we r | eset the sequence to |
| omment Type TR | Comment Status X unt (PFC24) rolls over afte | | | SuggestedRemedy | o dait of alore | | | |
| Driv trames per QR C | cvcle, we have to make su | ire that the PFC24 | rolls over at a multiple of | Change from: | | | | |
| this count. uggestedRemedy Add the following par The PFC24 count mu cycle. | ragraph: ust roll over to 0 after the | count of 16776959 | rolls over at a multiple of to align with EEE QR | The PN sequence into the TRANSM to: The PN sequence upon entering into transmission of fir | T_DISABLE s generator shi the TRANSM st symbol of a | state (see Figure 14 ift registers shall be IIT_DISABLE state i lert sequence. The | 9–31). reset to a value (see Figure 149- receiver may no | of S[7:0]=0000001 -31) or on the |
| this count. uggestedRemedy Add the following par The PFC24 count mu cycle. | ragraph: | count of 16776959 | | The PN sequence into the TRANSM to: The PN sequence upon entering into transmission of fir | T_DISABLE s generator shi the TRANSM st symbol of a quence betwe | state (see Figure 14 ift registers shall be IIT_DISABLE state (| 9–31). reset to a value (see Figure 149- receiver may no | of S[7:0]=0000001 -31) or on the |
| this count. uggestedRemedy Add the following pai The PFC24 count mi cycle. roposed Response | ragraph: iust roll over to 0 after the <i>Response Status</i> C | count of 16776959 | | The PN sequence into the TRANSM to: The PN sequence upon entering into transmission of fir continuous PN se Proposed Response | T_DISABLE s generator shi the TRANSM st symbol of a quence betwe <i>Respo</i> | state (see Figure 14 ift registers shall be IIT_DISABLE state (lert sequence. The en separate periods onse Status O | 9–31). reset to a value (see Figure 149- receiver may no s of SEND_S. | of S[7:0]=0000001 -31) or on the t necessarily receive a |
| this count. uggestedRemedy Add the following part The PFC24 count mark cycle. roposed Response 1 149 SC 149.4.2 | aragraph: isust roll over to 0 after the <i>Response Status</i> C 2.4.6 <i>P</i> 138 | count of 16776959) <i>L</i> 51 | to align with EEE QR | The PN sequence into the TRANSM to: The PN sequence upon entering into transmission of fir continuous PN se Proposed Response | T_DISABLE s generator shi the TRANSM st symbol of a quence betwe <i>Respo</i> | state (see Figure 14 ft registers shall be IIT_DISABLE state of lert sequence. The en separate periods onse Status O P147 | 9–31). reset to a value (see Figure 149- receiver may no | |
| this count. uggestedRemedy Add the following pai The PFC24 count mi cycle. Proposed Response | aragraph: isust roll over to 0 after the <i>Response Status</i> C 2.4.6 <i>P</i> 138 | count of 16776959) <i>L</i> 51 onsulting/ADI, APL | to align with EEE QR # <u>39</u> | The PN sequence into the TRANSM to: The PN sequence upon entering into transmission of fir continuous PN se <i>Proposed Response</i> <i>Cl</i> 149 <i>SC</i> 149 . Tu, Mike | T_DISABLE s generator shi the TRANSM st symbol of a quence betwe <i>Respo</i> 4.4.1 | state (see Figure 14 ft registers shall be IIT_DISABLE state (lert sequence. The en separate periods onse Status O P147 Broadcom | 9–31). reset to a value (see Figure 149- receiver may no s of SEND_S. | of S[7:0]=0000001 -31) or on the t necessarily receive a |
| this count. uggestedRemedy Add the following part The PFC24 count mic cycle. roposed Response 1 149 SC 149.4.2 immerman, George comment Type T Editor's note flags ne Confusion comes fro synchronization mac | aragraph: Just roll over to 0 after the Response Status C 2.4.6 P138 CME Co Comment Status X eed for consistent usage com the way the input to the chine, and the definition of | count of 16776959 <i>L</i> 51 onsulting/ADI, APL of send_s. In most e PMA transmit cor sync_tx_mode, wh | to align with EEE QR # <u>39</u> Group, Aquantia, BMW, Ci cases send_s is a signal. nes from the link nich appears that it should | The PN sequence into the TRANSM to: The PN sequence upon entering into transmission of fir continuous PN se <i>Proposed Response</i> <i>CI</i> 149 SC 149. Tu, Mike <i>Comment Type</i> TF | T_DISABLE s generator shi the TRANSM st symbol of a quence betwe <i>Respo</i> 4.4.1 | state (see Figure 14) ft registers shall be IIT_DISABLE state (lert sequence. The en separate periods onse Status O P147 Broadcom ment Status X | 9–31). reset to a value (see Figure 149- receiver may noi s of SEND_S. | of S[7:0]=0000001 -31) or on the t necessarily receive |
| this count. uggestedRemedy Add the following pain The PFC24 count mic cycle. roposed Response 149 SC 149.4.2 mmerman, George comment Type T Editor's note flags ner Confusion comes from synchronization mac be using the message | aragraph: uust roll over to 0 after the <i>Response Status</i> C 2.4.6 <i>P</i> 138 CME Co <i>Comment Status</i> X eed for consistent usage of om the way the input to the | count of 16776959 <i>L</i> 51 onsulting/ADI, APL of send_s. In most e PMA transmit cor sync_tx_mode, wh | to align with EEE QR # <u>39</u> Group, Aquantia, BMW, Ci cases send_s is a signal. nes from the link nich appears that it should | The PN sequence into the TRANSM to: The PN sequence upon entering into transmission of fir continuous PN se <i>Proposed Response</i> <i>Cl</i> 149 <i>SC</i> 149. Tu, Mike <i>Comment Type</i> TR Make "pcs_data_t | T_DISABLE s generator shi the TRANSM st symbol of a quence betwe <i>Respo</i> 4.4.1 | state (see Figure 14) ft registers shall be IIT_DISABLE state (lert sequence. The en separate periods onse Status O P147 Broadcom ment Status X | 9–31). reset to a value (see Figure 149- receiver may noi s of SEND_S. | of S[7:0]=0000001 -31) or on the t necessarily receive # <u>55</u> |
| this count. uggestedRemedy Add the following pail The PFC24 count mic cycle. roposed Response 149 SC 149.4.2 immerman, George comment Type T Editor's note flags ne Confusion comes from synchronization macc be using the message uggestedRemedy | Aragraph: Just roll over to 0 after the Response Status C 2.4.6 P138 CME CA Comment Status X eed for consistent usage of com the way the input to the chine, and the definition of ge sync_tx_symb (which is | count of 16776959 <i>L</i> 51 ponsulting/ADI, APL of send_s. In most e PMA transmit cor sync_tx_mode, wh s not set anywhere) | to align with EEE QR # <u>39</u> Group, Aquantia, BMW, Ci cases send_s is a signal. nes from the link nich appears that it should | The PN sequence into the TRANSM to: The PN sequence upon entering into transmission of fir continuous PN se <i>Proposed Response</i> <i>CI</i> 149 <i>SC</i> 149 . Tu, Mike <i>Comment Type</i> TF Make "pcs_data_r for the motivation. <i>SuggestedRemedy</i> 1. Delete line 20. | T_DISABLE s generator shi the TRANSM st symbol of a quence betwe <i>Respo</i> 4.4.1 4.4.1 | state (see Figure 14 ift registers shall be IIT_DISABLE state of lert sequence. The en separate periods onse Status O P147 Broadcom ment Status X le even without option | 9–31). reset to a value (see Figure 149- receiver may no s of SEND_S. <i>L</i> 20 onal EEE. See "f | of S[7:0]=0000001 -31) or on the t necessarily receive # <u>55</u> tu_3ch_02_0419.pdf" |
| this count. uggestedRemedy Add the following pair The PFC24 count mic cycle. roposed Response 1 149 SC 149.4.2 immerman, George comment Type T Editor's note flags ne Confusion comes from synchronization macc be using the message uggestedRemedy | aragraph: Just roll over to 0 after the Response Status C 2.4.6 P138 CME Co Comment Status X eed for consistent usage com the way the input to the chine, and the definition of | count of 16776959 <i>L</i> 51 onsulting/ADI, APL of send_s. In most e PMA transmit cor sync_tx_mode, wh s not set anywhere) odf | to align with EEE QR # <u>39</u> Group, Aquantia, BMW, Ci cases send_s is a signal. nes from the link nich appears that it should | The PN sequence into the TRANSM to: The PN sequence upon entering into transmission of fir continuous PN se <i>Proposed Response</i> <i>Cl</i> 149 <i>SC</i> 149 . Tu, Mike <i>Comment Type</i> TF Make "pcs_data_r for the motivation. <i>SuggestedRemedy</i> 1. Delete line 20. 2. Delete the last | T_DISABLE s generator shi the TRANSM st symbol of a quence betwe <i>Respo</i> 4.4.1 4.4.1 5 6 6 7 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | state (see Figure 14 ift registers shall be IIT_DISABLE state of lert sequence. The en separate periods onse Status O P147 Broadcom ment Status X le even without option | 9–31). reset to a value (see Figure 149- receiver may no s of SEND_S. <i>L</i> 20 onal EEE. See "f | of S[7:0]=0000001 -31) or on the t necessarily receive # <u>55</u> tu_3ch_02_0419.pdf" |

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

| CI | 149 | |
|----|-----------|--|
| SC | 149.4.4.1 | |

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

| C/ 149 | SC 149.4.5 | P149 | L 6 | # 57 | C/ 149 SC 149.5.1 |
|---|---|---|-------------|--------------------------|--|
| Tu, Mike | | Broadcom | | | Farjadrad, Ramin |
| | HY Control state | Comment Status X diagram and the Link Monitor sta the link is interrupted after enter | | | Comment Type TR Modify Test mode 2 to |
| | sely report the lin | k status=OK for 100msec while | | | SuggestedRemedy Test mode 2 is for tran |
| Suggested | lRemedy | | | | mode. When test mode {+1} symbols followed |
| Adopt | the changes as p | proposed in ""tu_3ch_02_0419.p | df" | | continuous pattern of J |
| Proposed | Response | Response Status O | | | measurement (DJ), an measurement (EOJ) w |
| | | | | | Proposed Response |
| C/ 149 | SC 149.4.5. | P150 | L18 | # 58 | |
| Tu, Mike | | Broadcom | | | C/ 149 SC 149.5.1 |
| Comment | Type TR | Comment Status X | | | den Besten, Gerrit |
| will fals been le S <i>uggested</i> | sely report the lin ost. <i>IRemedy</i> | the link is interrupted after enter k status=OK for 100msec while | the data c | | Comment Type T Clock jitter specificatio is strongly recommend not via a divided patter important to meet perfe |
| Adopt | the changes as p | proposed in ""tu_3ch_02_0419.p | df" | | SuggestedRemedy |
| Proposed | Response | Response Status O | | | Propose to change tes using a togging {+1} {- This is technically a div |
| C/ 149 | SC 149.5.1 | P151 | L 39 | # 36 | taken into account for |
| Lo, Willian | n | Axonne Inc. | | | |
| Comment | Туре Т | Comment Status X | | | Proposed Response |
| | oid the possibility clarifying stateme | of TX_TCLK_175 being interpre ent. | ted as divi | de by 32 for all speeds, | |
| Suggested | lRemedy | | | | |
| the syr | | is equal to 5625 MHz divided by ivided by 32, 16, and 8 for 10GB vely. | | GBASE-T1, and | |
| Proposed I | Response | Response Status O | | | |
| | | - | | | |

| 001111011 | t Type | TR | Comment Status X | | |
|--|--|---|---|---|---|
| Modif | y Test m | node 2 to i | nclude total DJ and EOJ | spec | |
| Suggeste | dRemed | ly | | | |
| mode {+1} s contir meas | e. When the symbols in the symbols i | test mode followed b attern of JF t (DJ), and | smitter jitter testing on ME 2 is enabled, the PHY sh by 16*S {–1} symbols for F P03A (as specified in Clau I JP03B (as specified in C th the transmitted symbol | nall transmit a conti Random jitter meas use 94.2.9.1) for De Clause 94.2.9.2) for | nuous pattern of 16* urement (RJ), a eterministic jitter even-odd jitter |
| Proposed | | · / | Response Status 0 | | |
| | | | | | |
| | | 149.5.1 | P 151 | L 41 | # 84 |
| C/ 149 | SC | 149.5.1 | F 151 | L 4 I | # 04 |
| C/ 149 den Beste | | | | conductors | # 04 |
| | en, Gerri | | | | # 04 |
| den Beste Comment Clock is stro not vi | en, Gerri t <i>Type</i> c jitter sp ongly rec a a divid | t T ecification commenda | NXP Semi Comment Status X as are currently defined or able to measure jitter at s o or separate test clock as | conductors n a divided clocks. I peed directly from t | For higher data rates he transmit path and |
| den Beste Comment Clock is stro not vi | en, Gerri t <i>Type</i> c jitter spo ongly rec a a divid rtant to m | t T ecification commenda ed patterr neet perfo | NXP Semi Comment Status X as are currently defined or able to measure jitter at s o or separate test clock as | conductors n a divided clocks. I peed directly from t | For higher data rates he transmit path and |

P**151**

Aquantia

L**40**

22

Propose to change test mode 2 for measuring master transmit jitter on MDI at full speed, using a togging $\{+1\}$ $\{-1\}$ symbol pattern.

This is technically a divide-by-two clock where both rising and falling zero crossings are taken into account for measurements.

roposed Response Response Status **0**

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

| | 2.1 P153 | L 38 | # 77 | C/ 149 | SC 149.5. | 2.4 | P 154 | L 24 | # 73 |
|---|---|---|--|---|------------------------------|--|--|--------------------|---|
| len Besten, Gerrit | NXP Semico | onductors | | den Bester | , Gerrit | | NXP Semicor | nductors | |
| Comment Type T | Comment Status X | | | Comment 7 | <i>уре</i> т | Comme | ent Status X | | |
| Current the droop re negative droop shal after the zero crossi This spec is current symbols at 10Gbps which increases the number of symbols equivalent for all rat | last F2 that he to shift <i>Suggestedi</i> | F was -0.5 to prefered to k the nominal Remedy e range into - | 2.5dBm, with eep a +/-2dB bower level 0.5 to 2.5dBm | support from mult range instead of a | iple silicon suppl | / proposal during the iers. Mike indicated , but nobody intended | | | |
| SuggestedRemedy | | | | FTOPOSEU | response | Respon | se Status O | | |
| Propose to scale the by 4/S ns to 16/S ns | e droop measurement period w s (12/S ns period). Alternatively value 24 symbol periods after tl | nt period can be | C/ 149 | SC 149.5. | 2.4 | P154 | L 24 | # 59 | |
| | r a zero-crossing (72 symbol pe | | ind a linal value 90 | Tu, Mike | | | Broadcom | | |
| Proposed Response | Response Status O | | | | | nit power sho | ent Status X uld be reduce to -2 | 2 dBm, in order to | o account for potential |
| C/ 149 SC 149.5. | 2.3 P154 | L17 | # 85 | Suggestedl | Remedy | | | | |
| den Besten, Gerrit | NXP Semico | onductors | | | | | shall be in the ran | | 2 dBm" |
| Comment Type T | Comment Status X | | | | • | | n the range of -2 dl | Bm to 2 dBm" | |
| | ndwidth of the measurement de | | | Proposed F | kesponse | Respon | se Status O | | |
| | n a divide-by-32 clock, that wou e limiting in that case. Note that | | | C/ 149 | SC 149.5. | 2.4 | P154 | L 30 | # 86 |
| SuggestedRemedy | | | | den Bester | , Gerrit | | NXP Semicor | nductors | |
| | st mode 2 to a symbol rate tog | | ern and measure jitter | Comment 7 | ⁻ уре т | Comme | ent Status X | | |
| with a bandwidth of Proposed Response | the measurement device of at <i>Response Status</i> O | least Fmax. | | Transm modific | it PSD mask ations to the | . There have | been interactive di decision on this to | scussion on this | nodifications to the with some ed to the next meeting |
| | | L 21 | # 21 | Suggestedl | Remedy | | | | |
| C/ 149 SC 149.5. | 2.3 P154 | | 11 Z I | _ | | ronomit DOD | mask according to | the attached pre | esentation |
| | 2.3 P154 Aquantia | | | Propos | e to change t | | | F | soomation. |
| Farjadrad, Ramin Comment Type TR | | | | Propos Proposed F | - | | se Status O | | |
| Farjadrad, Ramin Comment Type TR Modify transmit timit SuggestedRemedy | Aquantia Comment Status X | ude EOJ and DJ s | pec | | - | | - | | |

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: Clause, Subclause, page, line

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|--------------|----------------------|
| SC 149.5.2.4 | 4/8/2019 11:16:22 AM |

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

| C/ 149 SC 149.5.2.4 | P 173 | L 48 | # 23 | C/ 149 SC 149.7.1.1 | P 177 | L 29 | # 25 |
|---|---|-----------------------|--------------|--|--|--|--|
| Kumada, Taketo | Yazaki Corpo | oration | | Kumada, Taketo | Yazaki Corpor | ation | |
| Comment Type TR The coefficient of Freque should be defined. | Comment Status X ency which is "S" | | | Like the above | nent Status X | | |
| SuggestedRemedy The definition of "S" is th | e below. | | | SuggestedRemedy Like the above Proposed Response Respo | nse Status O | | |
| S = 0.25 for 2.5GBASE- S = 0.5 for 5GBASE-T1 S = 1 for 10GBASE-T | | | | C/ 149 SC 149.7.1.3 | P159 | 1.22 | # 81 |
| | | | | den Besten. Gerrit | NXP Semicon | | # 01 |
| It is like the BROADCON Tile :Transmitter PS | | | | , - | ment Status X | uuciors | |
| Speaker :Kadir Dinc, Toı Date :November 201 Proposed Response | | | | For 100bps operation the worst internal losses, driver level toler magnitude at Nyquist can be >4 previously presented RL data, th are the issues towards 5.5GHz (| ance, and termination 0x the received the s ne main reasons for t (which are eliminated | n impedance rar ignal magnitude he fairly loose li I now as Fmax is | nge, makes that echo e. Scanning through nk segment RL specs s always 4GHz or less) |
| C/ 149 SC 149.5.2.4 Kumada, Taketo | P 174 Yazaki Corpo | L 1 pration | # 24 | and the inclusion of a 'first conn profiles (DiBiaso_3ch_01_0518. tighten the link segment return lu unnecessarilly burden the transo | pdf) pass with much oss spec for 10Gbps | margin. I think v | ve should consider to |
| Comment Type TR Like the above | Comment Status X | | | SuggestedRemedy | | | |
| SuggestedRemedy Like the above | | | | Propose to add an extra limit cu N=-1 for IL>24dB (brings first corner to 960MHz a | • = | B) | |
| Proposed Response | Response Status O | | | Note that this situation does not | occurs for cables <1 | 2m. | |
| | | | | Proposed Response Respo | nse Status O | | |
| C/ 149 SC 149.5.3.2 | P156 | L 9 | # <u>1</u> 2 | | | | |
| Wienckowski, Natalie | General Moto | ors | | | | | |
| Comment Type E Editor's note to be remove | Comment Status X ved prior to draft 1.3. | | | | | | |
| SuggestedRemedy Delete Editor's note. | | | | | | | |
| Proposed Response | Response Status O | | | | | | |

C/ 149 SC 149.7.1.3

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

| C/ 149 SC 149.7.1 | I.4 P160 | L 36 | # 79 | C/ 149 | SC 149.7.1.5 | 6 P | 161 | L 28 | # 80 |
|--|--|---|--|---|--|--|---|--|---|
| len Besten, Gerrit | NXP Semicor | nductors | | den Beste | n, Gerrit | NXI | ^o Semicono | ductors | |
| mueller_3ch_02a_05 states that "With exis few mV (4mV or less seems based on N 6dB/octave slope. W this 4mV safeguarde cables showed that r template. The differe mV. I think we shoul to coupling attenuation that the coupling attenuation | Comment Status X attenuation spec,originating fro 518.pdf might be insufficient to e sting cables and connectors an s) is achievable in a BCI test wit Note that the suggested templat thich BCI level is assumed achi- ed by the coupling attenuation te- result? Note that these cables a ential signal magnitude at Nyqui- d ensure that the injected interfe- on) should be at least 6dB below enuation spec needs to be tighte attenuation curves the corner ca- t be sufficient. | ensure signal in introduced diffe h 200mA interfe- ces in that ppt de evably by these emplate or is thi- re apparently be st can be about ering differentia w the signal levy ened. Looking a | rential noise level of a ering current." which on't seem to have a transceivers? And is s just these actual etter then the specified the same level of a few l signal component (due el. Therefore it seems t the more recently | make not be the de solutio highes <i>Suggesteo</i> Insert For mu | um specified fre sense for a singl desirable to imp sign. In order to n could be to rea t supported rate <i>Remedy</i> after first senten ulti-speed transc ements up to Fm | e-speed transceive licitly mandate the circumvent that and quire that the link se | g attenuati r. However, need for fre I not oversp gment sha on: upported ra | , for multi-speed equency-scaling becify channels ill meet the requ | uirements of the |
| uggestedRemedy | | | | C/ 149 | SC 149.7.2 | Р | 161 | L 41 | # 41 |
| 750 MHz> 1000 M 70 dB for f<1000 MH 70-20*log(f/1000) fo | łz | | | | est methodologie 149A relates to | <i>Comment Statu</i> es are specified in A | s X Annex 149A | and Annex 97 | oup, Aquantia, BMW, C B." upling between link |
| Proposed Response | Response Status O | | | Suggested delete | <i>Remedy</i> "Annex 149A ar | id" on P161 L41 | | | |
| C/ 149 SC 149.7.1 | I.4 <i>P</i> 160 | L 42 | # 78 | Proposed | Response | Response Statu | s O | | |
| en Besten, Gerrit | NXP Semicor | | # 10 | | | · | | | |
| comment Type T | Comment Status X | | | | | | | | |
| make perfect sense not be desirable to m design. In order to ci | requency for coupling attenuation for a single-speed transceiver. In the need for frequency- rcumvent that and not overspect that the link segment shall meet at port. | For multi-speed scaling anti-alia cify channels ge | transceivers, it might using filters in the nerally, a good solution | | | | | | |
| SuggestedRemedy | | | | | | | | | |
| buggesteurterneuy | | | ng attenuation | | | | | | |
| Insert after line 42: For multi-speed trans | sceivers the link segment shall hest supported rate on the MDI. | | | | | | | | |

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: Clause, Subclause, page, line

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

| C/ 149 | SC 149.7.2.1 | P 161 | L 7 | # 43 | C/ 149 | SC 149.8. | 2.1 | P 163 | L 20 | # 74 |
|--|---|--|---|--|---|--|---|--|---|---|
| Zimmerma | an, George | CME Consult | ng/ADI, APL Gi | roup, Aquantia, BMW, Ci | den Beste | en, Gerrit | | NXP Semico | nductors | |
| Comment T | Туре т Со | mment Status X | | | Comment | Туре Т | Comm | nent Status X | | |
| PSANEXT and PSAFEXT need to be set. Levels based both on phy analysis and 10 dB margin from cabling measurements in mueller_3ch_05_0319.pdf are proposed. Models for PSANEXT and PSAFEXT are based on clause 113, the closest model for PSANEXT and PSAFEXT in IEEE STd 802.3, which go out to 2 GHz. Measurement limits of 75 dB loss are incorporated to allow for repeatable measurements | | | | There is currently only one MDI return loss template for all speeds. I think we should differentiate requirements for different speeds to allow looser spec for 2.5Gbps and 5Gbp The easiest way to achieve this is by scaling all frequency values by S except for the 1MH lower bound. | | | | | | |
| PHY n | rement limits of 75 dB oise impacts are to be rman_3ch_02_0419 al | presented in and sede | rat_3ch_01_04 | 19.pdf, and | Suggeste Chan | ge: | | | | |
| Suggested | Remedy | | | | 10> 500 | - 10S > 500S | | | | |
| "PSAN | equation 149-25 (PSAN IEXTloss(f) >= min (75 e f is the frequency in N | , 80-15log10(f/100) dB, | | | 3000 | > 3000S > Fmax | | | | |
| Replac 20log1 | ce equation 149-26 (PS 0(f/100)) dB, 1<=f<=F iready has f is the frequ | AACRF loss), with "PS Max (149-26)" | AACR-F loss (1 | F) >= min(75, 86- | | | | | , the maximum a | applicable frequency for |
| Proposed I | Response Res | ponse Status O | | | Proposed | Response | Respor | nse Status O | | |
| C/ 149 | SC 149.7.2.1 | P161 | L 51 | # 42 | C/ 149 | SC 149.8. | 2.1 | P163 | L 20 | # 76 |
| Zimmerma | an, George | CME Consult | ng/ADI, APL Gi | roup, Aquantia, BMW, Ci | den Beste | en, Gerrit | | NXP Semico | nductors | |
| Comment 1 | Type E Co | mment Status X | | | Comment | Type T | Comm | nent Status X | | |
| the sub clause one for PSANE (NOTE | bclause for PSAACR-F 97 which need to be re r PSAACR-F, where the EXT, and entitled as for | . There are also refere emoved, and there sho ere is currently only on r PSAACR-F. DES NOT ASSIGN TH | nces to the "typ uld be 2 figures e figure - refere | , one for PSANEXT and | return theref loss a propo Suggeste | loss which ge ore doesn't wo nd MDI return se to relax the dRemedy | ts twice atter rsen the RL/ loss are not MDI return lo | nuated by insertion IL ratio. I think the well balanced for a oss and if possible | loss. This return currently specific cost optimal sol tighten the link s | ed link segment return lution. I would like to segment return loss. |
| Suggested | Remedy | | | | | | | e into 10-10*log(f/3 je into 10-20*log(f/3 | | |
| |), changing the referen | | | n Figure 149-45." (P 162 7 (equation 149-25) to | Proposed | Response | Respor | nse Status O | , | |
| Chang "PSAN | e title of Figure 149-45 IEXT loss calculated us end of the (new) PSAA | sing Equation 149-25" | - | | | | | | | |

149-46." and insert new figure "PSAACR-F loss loss calculated using Equation 149-26" (figure will be autonumbered) Delete all references to "type A" (currently 2 occurences on page 162)

Proposed Response Response Status 0

> C/ 149 SC 149.8.2.1

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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: Clause, Subclause, page, line

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

| C/ 149 SC 149.8.2.1 | P163 | L 20 | # 82 | C/ 149 | SC 149.10 | P166 | L11 | # 26 |
|---|--|-------------------|-------------------------|------------------------|---|--|-----|------|
| den Besten, Gerrit | NXP Semicon | | | Lo, William | | Axonne Inc. | 2 | # 20 |
| Comment Type T I would like to make ex | Comment Status X plicit that the low-frequency ro tends at 20dB downto 1MHz. | | o enable PoDL, and that | Comment Ty Adding c | <i>pe</i> TR delay constrair blies to clause | | | |
| SuggestedRemedy | | | | SuggestedR | emedy | | | |
| Split the low-frequency with PoDL: 20-20*log(f/ without PoDL: 20dB | | | | Remove | | _0419.pdf slides 2, 3, 4 per se hts in the relevant sections in n 149.10 | | |
| Proposed Response | Response Status O | | | Proposed Re | esponse | Response Status O | | |
| | P163 | L 23 | # 75 | | | | | |
| den Besten, Gerrit | NXP Semicono | ductors | | | | | | |
| Comment Type T | Comment Status X | | | | | | | |
| | ntinous at 500: 20dB versus 1 | 9.78dB. | | | | | | |
| SuggestedRemedy Implicitly fixed by propo | sal to relax MDI return loss a | bit. See next ite | em. | | | | | |
| Proposed Response | Response Status O | | | | | | | |
| C/ 149 SC 149.10 | P165 | L 41 | # 13 | | | | | |
| Wienckowski, Natalie | General Motor | s | | | | | | |
| Comment Type E Editor's note to be rem when WG ballot reques | Comment Status X oved prior to draft 2.0. Removited. | ve now so it isn | 't a change in D1.4 | | | | | |
| SuggestedRemedy | | | | | | | | |
| Delete Editor's note. | | | | | | | | |

C/ 149 SC 149.10