| C/ FM | SC FM | P 1 | L 29 | # I-2 | C/ FM | SC FM | P 13 | L 45 | # <mark>I-1</mark> 9 |
|----------------------------|---|---|--------------------|------------------|------------------|----------------------------|---|--------------------|-------------------------|
| Brown, Ma | atthew | Alphawave | | | Marris, Art | thur | Cadence De | esign Systems, In | iC. |
| Comment | Туре Е | Comment Status D | | (bucket1) | Comment | Туре Е | Comment Status D | | (bucket1 |
| | | ents to IEEE Std 802.3-2022 h | | | 802.30 | df will be publis | shed before 802.3cw so refere | nces to 802.3cw | should be removed |
| | | th the former being Amendmer | it 9 and the latte | er Amendment 10. | Suggested | Remedy | | | |
| Suggested | • | | | | Delete | e IEEE Std 802 | .3cw™-202x entry on line 45 | on page 13 | |
| On the list of p | e front page, cha preceding amer | | ment 9" and rem | | | ge 1 change "I cy-202x" | EEE Std 802.3cy-202x, and I | EEE Std 802.3cw | -202x" to "and IEEE Std |
| On pag On pag approp | ge 14, add "Am ge 37 and 41, re priately. | 302.3cw from the list of amend endment 9" at the beginning of emove "as modified by IEEE St | the 802.3df des | | | OSED ACCER | Response Status W PT IN PRINCIPLE. sponse to comment #I-2. | | |
| Impien Proposed I | nent with editor | | | | C/ FM | SC FM | P 13 | L 45 | # <mark>I-21</mark> |
| | OSED ACCEP | Response Status W | | | Huber, Th | omas | Nokia | | |
| | | | | | Comment | Туре Е | Comment Status D | | (bucket1) |
| CI FM | SC FM | P 1 | L 29 | # I-1 | 802.30 | df will be publis | shed before 802.3cw | | |
| Hajduczen | nia, Marek | Charter Comm | nunications | | Suggested | Remedy | | | |
| Comment | Type E | Comment Status D | | (bucket1) | Delete | the text relate | ed to 802.3cw. | | |
| IEEE S | Std 802.3cy-202 | 2x is now approved (2023) | | | Proposed | Response | Response Status W | | |
| Suggested Update | , | ar for IEEE Std 802.3cy to 202 | 3 in the whole d | ocument. | - | | PT IN PRINCIPLE. sponse to comment #I-2. | | |
| Proposed I | Response | Response Status W | | | C/ 0 | SC 0 | P 34 | L 2 | # I-41 |
| PROP | OSED ACCEP | Г. | | | Ran, Adee | Э | Cisco Syste | ms, Inc. | |
| C/ FM | SC FM | P1 | L 30 | # 1-20 | Comment | Туре Е | Comment Status D | | PCS sublaye |
| Huber, The | omas | Nokia | | | | | S syndrome) in new text: 53.9.3, 169.2.3, Figure 171-2, | 172.1.2, 120F.3.2 | 2 |
| Comment | | Comment Status D | | (bucket1) | Suggested | Remedy | | | |
| | • | ned before 802.3cw | | | Chang | ge "PCS Subla | yer" to "PCS" in all instances. | | |
| Suggested | - | | | | Proposed | Response | Response Status W | | |
| to | EE Std 802.3cz | -2023, IEEE Std 802.3cy-202x, -2023, and 802.3cy-202X." | and IEEE Std 8 | 302.3cw-202x." | PCS is as "PC | CS sublayer" is | T. te choice of acronym, but the preferred for clarity and cons ed frequently throughout the l | istency with other | |
| | OSED ACCEP ⁻ | Response Status W I IN PRINCIPLE. ponse to comment #I-2. | | | 100 | | | alle standard. | |

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

C/ 0 SC 0 Page 1 of 34 9/1/2023 4:56:21 PM

| C/ 0 | SC 0 | P 104 | L 12 | # I-45 | C/ 0 | SC | 0 | | P 128 | L 21 | # <u>I</u> -47 |
|-------------|------------------|---|------------------|-----------------------|-----------|----------------------|-------------------------|--------------------------------------|-----------------|---------------------------------------|-------------------------------|
| Ran, Adee | | Cisco Systems | s, Inc. | | Ran, Adee | e | | C | Cisco Systen | ns, Inc. | |
| Comment Ty | rpe T | Comment Status D | | delay values | Comment | Туре | TR | Comment St | atus D | | (bucket1) |
| of similar | r PMDs at the | aint for 800G optical PMDs she same signaling rate with fewe | | | | | | I on the status co CS conventions | | | , denoting logical-OR. It |
| 40.96 ns) |). | | | | Suggested | dRemed | dy | | | | |
| | | / for 800G modules as has bee extra delay of 20.48 ns can be a | | | Add C | lause 2 | 1 to the d | Iraft, and amend | 21.6.2, addi | ng the sentence: | : |
| the same | e total delay of | 87.04 ns (for PMD+PMA). No currently, there is no distinction | te that the dela | y could be added only | | | em2>: OR s is impler | | tion, the req | uirement has to l | be met if either of the |
| This corr | mont offocto | clauses 124, 167, 169, and 17 | 2 | | Proposed | Respor | nse | Response Sta | atus W | | |
| | | ciauses 124, 107, 109, and 17 | э. | | - | | | IN PRINCIPLE. | 04 0 0 L I | | |
| SuggestedRe | - | 8.1 Change "32 768 bit times (6 | | ta or 10.96 ps)" to | | | | | | ng the sentence: uirement has to l | : be met if one or both of |
| | | ause_quanta or 20.48 ns)". | J4 pause_quan | | the ite | ms is ir | nplement th editoria | ed" | | | |
| ln 173.5. | 4, Change the | e values in Table 173-1 to "53 2 | 248", "104", and | d "66.56". | C/ 1 | SC | 1.1.3.2 | | P 31 | L12 | # [<u>-37</u> |
| Change f | the correspone | ding entries in Table 169–4 ac | cordingly. | | Ran, Adee | Э | | (| Cisco Systen | ns, Inc. | |
| Proposed Re | esponse | Response Status W | | | Comment | Туре | ER | Comment St | atus D | | Interfaces |
| The dela | y number sho | IN PRINCIPLE. uld be revisited one more time will be provided for review. | | | | e confor unicatio | | th implementation | on of this inte | erface is not nece | essary to ensure |
| | • | • | | | "Confo | ormanc | e with imp | plementation" do | es not make | sense. The inter | nt is probably |
| CI 0 | SC O | P 108 | L 49 | # I-46 | "confo | rmance | e with the | specification". | | | |
| Ran, Adee | | Cisco Systems | s, Inc. | | Simila | rlv in th | ie next itei | m. 19. | | | |
| Comment Ty | | Comment Status D | | PCS sublayer | Suggested | | | , | | | |
| | | syndrome) in existing text - bu 24.6, 162.4 (twice), 162.9.4, 10 | | | 00 | | | with implementa | tion" to "con | formance with th | e specification", twice. |
| SuggestedRe | | , | | | Proposed | Respor | nse | Response Sta | atus W | | |
| 00 | - | r" to "PCS" in all instances. | | | PROP | , OSED | ACCEPT | IN PRINCIPLE. | | | |
| Proposed Re | | Response Status W | | | Resolv | ve using | g the resp | onse to comme | nt #I-84 and | #I-85. | |
| | SED REJECT. | • | | | | | | | | | |

C/ 1 SC **1.1.3.2**

| C/ 1 | SC 1.1.3.2 | P 31 | L13 | # I-84 |
|----------|-----------------|------------------|-----|---------------|
| Dawe, Pi | ers J G | NVIDIA | | |
| Commen | t Type T | Comment Status D | | Interfaces |

This says about the 800GMII: "While conformance with implementation of this interface is not necessary to ensure communication, it allows flexibility in intermixing PHYs and DTEs at 800 Gb/s speeds. The 800GMII is a logical interconnection intended for use as an intrachip interface. No mechanical connector is specified for use with the 800GMII. The 800GMII is optional." which is much the same as item d, GMII. An exposed 800GMII is much less likely than an exposed GMII. As the current interfaces of choice for "allowing flexibility in intermixing PHYs and DTEs at 800 Gb/s speeds" are AUIs not MIIs, the first sentence quoted is misleading old cruft. 170.1 gives a more convincing reason: "Though the 800GMII is an optional interface. it is used in this standard as a basis for specification".

SuggestedRemedy

Delete the sentence "While conformance with implementation of this interface is not necessary to ensure communication, it allows flexibility in intermixing PHYs and DTEs at 800 Gb/s speeds." or replace it with something like "While conformance with implementation of this interface is not necessary to ensure communication, it is used in this standard as a basis for specification."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

On page 31 lines 13 and 18, delete the sentence "While conformance with implementation of this interface is not necessary to ensure communication, it allows flexibility in intermixing PHYs and DTEs at 800 Gb/s speeds." See also the response to comment #I-85.

| C/ 1 | SC 1.1.3.2 | P 31 | L 13 | # I-38 |
|------------|----------------|--------------------|---------------------------|-------------------|
| Ran, Adee | | Cisco | Systems, Inc. | |
| Comment Ty | rpe ER | Comment Status | D | Interfaces |
| (While c | onformance is | not necessary) "it | allows flexibility in int | ermixing PHYs and |
| DTEs at | 800 Gb/s speed | ls" | | |

it's not the conformance that allows flexibility, it's the fact that it's a common service interface.

SuggestedRemedy

Change "it allows" to "it serves as a common logical interface that allows".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-84 and #I-85.

| C/ 1 | SC 1.1.3.2 | P 31 | L 17 | # I-85 |
|-------------|------------|------------------|-------------|------------|
| Dawe, Piers | JG | NVIDIA | | |
| Comment Ty | pe TR | Comment Status D | | Interfaces |

This text "*The* 800GAUI-n is a physical instantiation of the PMA service interface... While conformance with implementation of *this interface*... *The 800GAUI-n* is intended... For chip-to-chip interfaces and for chip-to-module interfaces, one width of 800GAUI-n is defined: *an eight-lane version* (800GAUI-8) in Annex 120F and Annex 120G. No mechanical connector is specified for use with *the* 800GAUI-n. *The* 800GAUI-n is optional," reads as if there is only one kind of 800GAUI-n, and its specification is spread over two annexes. This is wrong: 800GAUI-n C2M and 800GAUI-n C2C are distinct, not interchangeable, and not intended to interoperate with each other (unlike the original intent for XLAUI). There is not "a version". Also, "the PMA service interface" is inaccurate; there can be more than one PMA service interface per MAC. Note the definition 1.4.184h uses "A" not "The".

SuggestedRemedy

Change the paragraph to: x) 800 Gb/s Attachment Unit Interface (800GAUI-n). An 800GAUI-n is a physical instantiation of a PMA service interface to extend the connection between 800 Gb/s capable PMAs. While conformance with implementation of 800GAUI-n is not necessary to ensure communication, it is recommended, since it allows maximum flexibility in intermixing PHYs and DTEs at 800 Gb/s speeds. 800GAUI-n C2C is intended for use as a chip-to-chip and 800GAUI-n C2M is intended as a chip-to-module interface. One width of 800GAUI-n is defined for chip-to-chip interfaces and one for chip-to-module interfaces: eight-lane 800GAUI-8 C2C in Annex 120F and eight-lane 800GAUI-8 C2M in Annex 120G. No mechanical connector is specified for use with an 800GAUI-n. An 800GAUI-n is optional.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Comments #I-37, #I-38, and #I-84 propose to delete or modify the sentence "While conformance with implementation of this interface is not necessary to ensure communication, it allows flexibility in intermixing PHYs and DTEs at 800 Gb/s speeds." Change the paragraph to:

"An 800GAUI-n is a physical instantiation of the PMA service interface to extend the connection between 800 Gb/s capable PMAs. The 800GAUI-n C2C is intended for use as a chip-to-chip interface and 800GAUI-n C2M as a chip-to-module interface. One width of 800GAUI-n is defined: eight-lane 800GAUI-8 C2C in Annex 120F and 800GAUI-8 C2M in Annex 120G. No mechanical connector is specified for use with an 800GAUI-n. The 800GAUI-n is optional."

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

C/ 1 SC 1.1.3.2

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| C/ 1 | SC 1. | 1.3.2 | P31 | L 20 | # I-39 | C/ 1 | SC 1 | .4.184h | P33 |
|----------|---------------|-------------|--|-------------------|-------------------------|------------------|------------------------|------------------------|---|
| Ran, Ade | ee | | Cisco System | s, Inc. | | Dawe, Pi | ers J G | | NVIDIA |
| Commen | t Type | ſR | Comment Status D | | Interfaces | Comment | t Type | TR | Comment Status D |
| "sinc | e it allows i | maximum | flexibility in intermixing PH | Ys and DTEs a | t 800 Gb/s speeds" | | , | | -n is used for chip-to-chip or c version when in fact, two version |
| | | | uestionable, and this is not ned for lower data rates. | the motivation of | of the 800GAUI-n nor of | | | | rally compatible with each othen text, is unchanged. |
| | motivation of | | s is to enable the usage of | implemented F | PCS/PMA sublayers | Suggeste Chan | | | hment Unit Interface (800GAL |
| 0.0. | | eula. | | | | | 0 | | extend the connection betwe |
| 00 | edRemedy | | | | | | | • | hip or chip-to-module electrica |
| spee | ds" to "sinc | e it allows | naximum flexibility in interm s links over different media m-dependent components" | to be used by t | | | on (800G/ | AUI-8). (S | o-chip interfaces, one width of ee IEEE Std 802.3, Annex 12 nment Unit Interface (800GAU |
| | | | | | | | | | extend the connection betwe |
| • | d Response | | Response Status W | | | | | | hip or chip-to-module electrica |
| - | | - | PRINCIPLE. se to comment #I-84 and # | 1-85 | | | | | p interfaces and one for chip-t |
| | 0 | • | | | | | x 120G.) | | ght-lane 800GAUI-8 C2M. (See |
| C/ 1 | SC 1.4 | 4.109 | P 31 | L 49 | # I-40 | Proposed | , | se | Response Status W |
| Ran, Ade | ee | | Cisco System | s, Inc. | | | | | N PRINCIPLE. |
| Commen | t Type | Ε | Comment Status D | | (bucket1) | - | | | the following: |
| 143, | | | .4 that mention reach (103 4c, 184f, 184g) there is a c | | | 800 G interfa | Šb/s capa aces. For | able PMAs chip-to-m | of the PMA service interface over n lanes, used for chip-to nodule interfaces and for chip- |
| Suggeste | edRemedy | | | | | | | | ight-lane 800GAUI-8 C2C and Annex 120G.)" |
| For c | consistency | , add a co | omma after "in each directio | n". | | | | | , |
| Proposed | d Response | è | Response Status W | | | C/ 1 | SC 1 | .4.184k | P 34 |
| PRO | POSED AC | | | | | Dawe, Pi | ers J G | | NVIDIA |
| | | | | | | Comment | t Type | Е | Comment Status D |
| | | | | | | | | | |

| C/ 1 | SC 1.4.184h | P 33 | L 37 | # I-86 |
|-----------|-------------|------------------|-------------|---------------|
| Dawe, Pie | ers J G | NVIDIA | | |
| Comment | Type TR | Comment Status D | | definitions |

chip-to-module electrical interfaces. It sions are defined, that are specified her. In the proposed change, the first

AUI-n): A physical instantiation of the veen 800 Gb/s capable PMAs over n cal interfaces. For chip-to-module of 800GAUI-n is defined: an eight-lane 20F and Annex 120G.)

UI-n): A physical instantiation of the veen 800 Gb/s capable PMAs over n cal interfaces. One width of 800GAUI-n o-to-module interfaces: eight-lane ee IEEE Std 802.3. Annex 120F and

to extend the connection between to-chip or chip-to-module electrical o-to-chip interfaces, one width of nd 800GAUI-8 C2M. (See IEEE Std

| C/ 1 | SC 1.4.184k | P 34 | L 2 | # I-87 |
|-------------|-------------|-------------|------------|--------|
| Dawe, Piers | JG | NVIDIA | | |

PCS sublayer Tautology: "PCS Sublayer" and "RS sublayer". 1.4.113 200GXS and 1.4.148 400GXS have the same problem.

SuggestedRemedy

Delete Sublayer and sublayer, or spell out PCS and RS in words, or at least change "PCS Sublayer" to "PCS sublayer".

Proposed Response Response Status W

PROPOSED REJECT.

Resolve using the response to comment #I-41.

| C/ 1 | SC 1.4.184k | P 34 | L3 | # 1-42 | C/ 30 | SC 30.5.1.1 | .2 | P 36 | L 45 | # 1-43 |
|---|---|--|------|---|--|--|--|---|---|---|
| Ran, Ade | | Cisco Syster | - | | Ran, Adee | | | isco Syster | | |
| Commen "RS S Suggeste Chan Proposed PRO RS is | t Type E Sublayer" (RAS sy edRemedy age to "Reconciliat d Response POSED ACCEPT s normally spelled | Comment Status D ndrome) ion Sublayer" Response Status W IN PRINCIPLE. out to distinguish it from the | | <i>(bucket1)</i> FEC (RS-FEC) and this | Comment Most e this pr 200GE SR16 Suggested | <i>Type</i> T entries in this lis oject, reach wa BASE-DR4, 200 have reaches in <i>IRemedy</i> | <i>Comment Sta</i> t include reach, bu s added for 400GB | tus D t some dor ASE-DR4, GBASE-SF initions in 1 | n't, although reac but not for other R4.2, 400GBASE 1.4. | -SR8, and 400GBASE- |
| Imple | ves the redundance ement the suggest or's note: Changeo SC 1.4.461 | ed remedy with editorial lice | nse. | # I <u>-88</u> | In the | 400GBASE-SR | 24 item, insert "with 24.2 item, insert "wi | th reach up | p to at least 150 r | m" after "PMD". |
| Suggeste | <i>t Type</i> E ult to parse "carrie edRemedy | NVIDIA <i>Comment Status</i> D d on a physical lane togethe | | <i>(bucket1)</i> on a single physical | Proposed PROP The SI SR MA | Response OSED ACCEP R reach is depe AU types in 30.9 | 5.1.1.2 | tus W | t appropriate to ir | n after PMD . ndicate reach for these ast 500 m" after "PMD". |
| Proposed PRO Chan toget | her" | Response Status W IN PRINCIPLE. PCS lanes can be multiplexe lanes can be multiplexed an | | | Suggested Chang | <i>Type</i> E If will be publish <i>Remedy</i> ge the editing in AX" in 30.5.1.1 | N <i>Comment Sta</i> ned before 802.3cv | r sert the foll r 400GBAS | | # [<u>-22</u> (bucket1) es into "APPROPRIATE |

PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-2.

C/ 30 SC 30.5.1.1.2

| Ran, Adee Comment Type | | P 251 | L 25 | # I-73 | C/ 45 | SC 45.2.1.6 | F | °41 | L 3 | # <mark>I-18</mark> |
|---|--|---|--|---|---|--|---|--|----------------------------------|--|
| omment Type | | Cisco System | s, Inc. | | Marris, Ar | thur | Ca | dence Desi | ign Systems, Inc | |
| "115 840" | ER | Comment Status D | | numbers (bucket1) | Comment 802.3 | | Comment Statued to be published b | _ | 3cw. | (bucket1 |
| base docum Per the style within tables inconsistenc This comme | ent (e.g., "5 e manual, the c. There is no cy. ent also appli | nconsistent with the format of 7920" for 400 Gb/s). e use of space as a thousan o need to use it in text and e ties to 124.3.1 and 167.3.1, v the text (subject of another | ds separator is quations, espectively where numbers | specified for numbers cially where it creates | on pa = rese and in On pa IEEE | ge 41 delete "(as ge 41 line 24 cha rved" "30.5.1.1.2 aMA ge 37 line 35 cha Std 802.3db-202 | .UType" ange "(as modified | 1 = 400GB, by IEEE St | ASE-ZŔ PMA/Pľ d 802.3cw-202x) | MD" to "0 1 1 1 1 1 1 1 1)" to "(as modified by |
| SuggestedReme | • | | commonly. | | | Response | Response Statu | | | |
| Change "115 | | 5840". | | | - | OSED ACCEPT | IN PRINCIPLE. | ¥I-2. | | |
| Implement s comment). | similarly for t | he numbers of bit time in 12 | 4.3.1 and 167.3 | 3.1 (subject of another | C/ 45 | SC 45.2.1.6 | F | °41 | L 25 | # I-24 |
| See related For this case 31B.3.7 and Change "115 | D ACCEPT II comment #I e the use of the use of t 5 840" to "11 I-45 address | Response Status W N PRINCIPLE. -64. a thousands separator is inc he separator makes the equ 5840" in 31.B.3.7 es the changes requested for | ation difficult to | read. | 802.3 Suggestee | <i>Type</i> T BASE-ZR won't h df <i>IRemedy</i> | Nol Comment Statu nave been defined v ZR PMA/PMD" with | us D when 802.3 "reserved" | | (bucket1) ince 802.3cw is after |
| ¥ 45 SC | \$ 45.2.1.6 | P 41 | L3 | # I-23 | Proposed | Response | Response Statu | s W | | |
| X 45 SC Huber, Thomas | | Р 41 Nokia | L 3 | # <mark>I-23</mark> | PROF | OSED ACCEPT | , IN PRINCIPLE. | | | |
| Huber, Thomas Comment Type The editing i 802.3db-202 | E instruction n 22, and 802. | | 7 was modified | <i>(bucket1)</i> by 802.3ck-2022, | PROF Resol Cl 45 Huber, Th | OSED ACCEPT ve using the resp SC 45.2.1.7 omas | IN PRINCIPLE. Nonse to comment # F Nol | ⊭I-2. 2 42 kia | L16 | # <u>I-25</u> |
| Huber, Thomas Comment Type The editing i 802.3db-202 SuggestedReme Change the | E instruction n 22, and 802.3 edy parenthetica | Nokia Comment Status D eeds to reflect that table 45- | 7 was modified won't have mod | <i>(bucket1)</i> by 802.3ck-2022, dified it. s modified by IEEE Std. | PROF Resol Cl 45 Huber, Th Comment The p | OSED ACCEPT ve using the resp SC 45.2.1.7 omas Type E | IN PRINCIPLE. Nonse to comment # F Nol Comment Statu BASE-KR4 should I | ≠I-2. 2 42 kia µs D | | # <u>I-25</u> (bucket1) tuation mark should be |
| Huber, Thomas Comment Type The editing in 802.3db-202 SuggestedReme Change the 802.3db-202 Proposed Respon PROPOSED | E instruction no 22, and 802.3 edy parenthetica 22, IEEE Std onse D ACCEPT II | Nokia <i>Comment Status</i> D eeds to reflect that table 45- 3cz-2023, and that 802.3cw | 7 was modified won't have mod | <i>(bucket1)</i> by 802.3ck-2022, dified it. s modified by IEEE Std. | PROF Resol Cl 45 Huber, Th Comment The p indica Suggested Chang | OSED ACCEPT ve using the resp SC 45.2.1.7 omas Type E eriod after 400GE ted as text to be dRemedy | IN PRINCIPLE. Jonse to comment # F Nol Comment Statu BASE-KR4 should I inserted | ¥I-2. 2 42 kia Js D De a comm | a, and the punct | (bucket1 |

| TTPE. TR/lectifical required ER/editorial required GR/gene | rai required Thechnical Electional Grgeneral | 0/45 | Fage 0 01 34 |
|--|--|-------------|---------------------|
| COMMENT STATUS: D/dispatched A/accepted R/rejected | RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn | SC 45.2.1.7 | 9/1/2023 4:56:21 PM |
| SORT ORDER: Clause, Subclause, page, line | | | |

| C/ 45 | SC 45.2.1.7 | P 42 | L 21 | # I-26 | C/ 45 SC 45.2.1.60b | P 47 | L1 | # 1-27 |
|---|---|--|-------------------|----------------------------------|--|---|--------------------|------------------------------|
| | | | L Z I | # 1-20 | | | <i>L</i> I | # 1-27 |
| Huber, Tho | | Nokia | | <i>a</i> | Huber, Thomas | Nokia | | <i>a</i> |
| Comment T | | Comment Status D | | (bucket1) | <i><i><i>N</i></i></i> | Comment Status D | | (bucket1) |
| The co | nma and space f | following 400GBASE-CR4 s | hould be indicate | ed as text to be inserted | The editing instruction shou | Id note that 45.2.1.60a | was inserted by 8 | 302.3cz |
| Suggestedl | Remedy | | | | SuggestedRemedy | | | |
| Underli | ne the comma ar | nd space. | | | Change the editing instruction | | 60b after 45.2.1. | 60a (as inserted by |
| Proposed F | esponse | Response Status W | | | IEEE Std. 802.3cz-2023) as | s follows:" | | |
| PROPO | SED ACCEPT. | , | | | Proposed Response Re | esponse Status W | | |
| | | | | | PROPOSED ACCEPT. | | | |
| C/ 45 | SC 45.2.1.7.4 | P 42 | L16 | # I-16 | C/ 45 SC 45.2.3.25.2 | P60 | L 20 | # 1-17 |
| Marris, Arth | | | ign Systems, Inc |). | Marris, Arthur | Cadence De | sign Systems, Inc | |
| Comment 7 | ype E | Comment Status D | | (bucket1) | | Comment Status D | sign Oysterns, int | |
| Replac | e.with, | | | | Comment Type E C Delete editor's note as it is r | | | (bucket1) |
| | | | | | | | | |
| Suggestedl | Remedy | | | | | io longor noodod | | |
| | | R4. 800GBASE-KR8" to "400 | 0GBASE-KR4, 80 | 00GBASE-KR8" | SuggestedRemedy | U U | | |
| Change | = "400GBASE-KR | | 0GBASE-KR4, 80 | 00GBASE-KR8" | | U U | | |
| Proposed F | e "400GBASE-KR Pesponse | R4. 800GBASE-KR8" to "400 Response Status W | OGBASE-KR4, 80 | 00GBASE-KR8" | SuggestedRemedy Delete editor's note as it is r | U U | | |
| Change Proposed F | = "400GBASE-KR | | 0GBASE-KR4, 80 | | SuggestedRemedy Delete editor's note as it is r | no longer needed | | |
| Change Proposed F PROPC | e "400GBASE-KR Pesponse | | DGBASE-KR4, 80 | 00GBASE-KR8" # [<u>I-138</u> | SuggestedRemedy Delete editor's note as it is r Proposed Response Re PROPOSED ACCEPT. | no longer needed | / 20 | # [120 |
| Change Proposed F PROPC | e "400GBASE-KF Response DSED ACCEPT. SC 45.2.1.7.4 | Response Status W | | | SuggestedRemedy Delete editor's note as it is r Proposed Response Re PROPOSED ACCEPT. Cl 45 SC 45.2.3.25.2 | no longer needed esponse Status W | L 20 | # [<mark>-139</mark> |
| Change Proposed F PROPC CI 45 Dudek, Mic | e "400GBASE-KR Pesponse DSED ACCEPT. SC 45.2.1.7.4 hael | Response Status W | | | SuggestedRemedy Delete editor's note as it is r Proposed Response Re PROPOSED ACCEPT. Cl 45 SC 45.2.3.25.2 Dudek, Michael | no longer needed esponse Status W P60 Marvell | L 20 | |
| Change Proposed F PROPC Cl 45 Dudek, Mic Comment 1 | e "400GBASE-KR Pesponse DSED ACCEPT. SC 45.2.1.7.4 hael type E | Response Status W P42 Marvell | L16 | # [<mark>-138</mark> | SuggestedRemedy Delete editor's note as it is r Proposed Response Re PROPOSED ACCEPT. Cl 45 SC 45.2.3.25.2 Dudek, Michael Comment Type E C | no longer needed esponse Status W P60 Marvell Comment Status D | | # [<u>-139</u> (bucket1) |
| Change Proposed F PROPC CI 45 Dudek, Mic Comment 1 *** Con | e "400GBASE-KR Pesponse DSED ACCEPT. SC 45.2.1.7.4 hael type E mment submitted | Response Status W P42 Marvell Comment Status D with the file image.png attac | L16 | # [<u>-138</u> (bucket1) | SuggestedRemedy Delete editor's note as it is r Proposed Response Re PROPOSED ACCEPT. Cl 45 SC 45.2.3.25.2 Dudek, Michael | no longer needed esponse Status W P60 Marvell Comment Status D | | |
| Change Proposed F PROPC CI 45 Dudek, Mic Comment 7 *** Con | e "400GBASE-KR Pesponse DSED ACCEPT. SC 45.2.1.7.4 hael type E mment submitted | Response Status W P42 Marvell Comment Status D | L16 | # [<u>-138</u> (bucket1) | SuggestedRemedy Delete editor's note as it is r Proposed Response Re PROPOSED ACCEPT. Cl 45 SC 45.2.3.25.2 Dudek, Michael Comment Type E C | no longer needed esponse Status W P60 Marvell Comment Status D n the file image.png atta | | |
| Change Proposed F PROPC Cl 45 Dudek, Mic Comment 1 *** Con The sel period | e "400GBASE-KR <i>Pesponse</i> DSED ACCEPT. SC 45.2.1.7.4 hael <i>type</i> E ment submitted paration between | Response Status W P42 Marvell Comment Status D with the file image.png attac | L16 | # [<u>-138</u> (bucket1) | SuggestedRemedy Delete editor's note as it is r Proposed Response Re PROPOSED ACCEPT. Cl 45 SC 45.2.3.25.2 Dudek, Michael Comment Type E Co **** Comment submitted with | no longer needed esponse Status W P60 Marvell Comment Status D n the file image.png atta | | |
| Change Proposed F PROPC CI 45 Dudek, Mic Comment 1 *** Con The sej | e "400GBASE-KR <i>Pesponse</i> DSED ACCEPT. SC 45.2.1.7.4 hael <i>type</i> E ment submitted paration between | Response Status W P42 Marvell Comment Status D with the file image.png attac | L16 | # [<u>-138</u> (bucket1) | SuggestedRemedy Delete editor's note as it is note Proposed Response Re PROPOSED ACCEPT. CI 45 SC 45.2.3.25.2 Dudek, Michael Comment Type E Co *** Comment submitted with The editor's note has served | no longer needed esponse Status W P60 Marvell Comment Status D n the file image.png atta | | |
| Change Proposed F PROPC Cl 45 Dudek, Mic Comment 1 *** Con The se period Suggested | e "400GBASE-KR Pesponse DSED ACCEPT. SC 45.2.1.7.4 hael type E toment submitted paration between Remedy | Response Status W P42 Marvell Comment Status D with the file image.png attac | L16 | # [<u>-138</u> (bucket1) | SuggestedRemedy Delete editor's note as it is r Proposed Response Ra PROPOSED ACCEPT. Cl 45 SC 45.2.3.25.2 Dudek, Michael Comment Type E Co **** Comment submitted with The editor's note has served SuggestedRemedy Delete the note | no longer needed esponse Status W P60 Marvell Comment Status D n the file image.png atta | | |

C/ 45 SC 45.2.3.25.2

| CI 73 | SC 73 | P 90 | L 2 | # 1-28 | C/ 73 | SC 73.7.6 | | P 91 | L 6 | # <mark>1-30</mark> |
|--|--|---|------------------------|---------------------------|--|---|--|---|--|--|
| Huber, Tho | omas | Nokia | | | Huber, Tho | omas | | Nokia | | |
| Comment T | Туре Т | Comment Status D | | (bucket1) | Comment | Туре Е | Comn | nent Status D | | (bucket1 |
| | | ed by 802.3ck-2022) should be | updated to inc | clude 800G MII and 800 | Missing | g a space in t | he editing ins | struction | | |
| Gb/s m | | | | | Suggested | IRemedy | | | | |
| Suggested | | | E: 70.4 | . , | Chang | e "Table73-5" | to "Table 73 | 3-5". | | |
| | | h an editing instruction to repla figure itself, change "or 400GI | | | Proposed I | Response | Respo | nse Status W | | |
| "or 400 |) Gb/s" to "400 | Gb/s, or 800 Gb/s", and add "8 RFACE" to the legend | | | PROP | OSED ACCE | PT. | | | |
| Proposed F | Response | Response Status W | | | C/ 116 | SC 116.1. | 3 | P 95 | L 43 | # I-79 |
| PROPO | OSED ACCEPT | Γ IN PRINCIPLE. | | | Lusted, Ke | ent | | Intel | | |
| Resolv | ve using the res | ponse to comment #I-140. | | | Comment | Туре Т | Comn | nent Status D | | (bucket1 |
| C/ 73 | SC 73.2 | P 90 | LO | # I-140 | | | | ported reach for 20 of the reach of this | | Table 116-1. An be able to differentiate |
| Slavick, Je | eff | Broadcom Inc | | | | | | ble. Note that Tabl | | |
| | | | | | | | | | | |
| | Type TR | Comment Status D | | data rates (bucket1) | | | | | | h up to at least 100 m". |
| Comment 7 Figure | Type TR | Comment Status D include 800GMII or 800Gb/s | | data rates (bucket1) | The rea | ach text is als | | -SR4 that does incl nitions in 1.4.109 (| | |
| Figure | <i>Type</i> TR 73-1 does not i | | | data rates (bucket1) | The read Suggested | ach text is als IRemedy | o in the Defi | nitions in 1.4.109 (| page 31, line 50) | |
| Figure Suggested Remov | <i>Type</i> TR 73-1 does not i <i>Remedy</i> ve the laundry li | nclude 800GMII or 800Gb/s st of data rates below the MDI | | | The read Suggested | ach text is als IRemedy | o in the Defi | nitions in 1.4.109 (| page 31, line 50) | |
| Figure Suggested Remov Change | <i>Type</i> TR 73-1 does not i <i>Remedy</i> ve the laundry li e the laundry lis | include 800GMII or 800Gb/s | e xMII and upd | | The rea Suggested Add "w | ach text is als <i>IRemedy</i> vith a reach up | to in the Defi | nitions in 1.4.109 (| page 31, line 50) | |
| Figure Suggested Remov Change accord | Type TR 73-1 does not i <i>Remedy</i> ve the laundry li e the laundry lis lingly | st of data rates below the MDI st of specific MII rates to just be | e xMII and upd | | The rea Suggested Add "w 1. Proposed F PROPO | ach text is als <i>IRemedy</i> vith a reach up <i>Response</i> OSED ACCEI | o in the Defi o to at least f <i>Respol</i> PT IN PRINC | nitions in 1.4.109 (100 m" to the desc <i>nse Status</i> W CIPLE. | page 31, line 50) | |
| Figure Suggested Remov Change accordi Proposed F | Type TR 73-1 does not i <i>Remedy</i> ve the laundry lis lingly Response | nclude 800GMII or 800Gb/s st of data rates below the MDI | e xMII and upd | | The rea Suggested Add "w 1. Proposed F PROPO | ach text is als <i>IRemedy</i> vith a reach up <i>Response</i> OSED ACCEI | o in the Defi o to at least f <i>Respol</i> PT IN PRINC | nitions in 1.4.109 (100 m" to the desc nse Status W | page 31, line 50) | |
| Figure Suggested Remov Change accord Proposed F PROPO Implem | Type TR 73-1 does not i <i>Remedy</i> ve the laundry lis lingly <i>Response</i> OSED ACCEPT nent the sugges | include 800GMII or 800Gb/s st of data rates below the MDI st of specific MII rates to just be <i>Response Status</i> W Γ IN PRINCIPLE. sted remedy using editorial lice | nse. | | The rea Suggested Add "w 1. Proposed F PROPO | ach text is als <i>IRemedy</i> vith a reach up <i>Response</i> OSED ACCEI | to in the Defi to at least <i>*</i> <i>Respoi</i> PT IN PRINC esponse to co | nitions in 1.4.109 (100 m" to the desc <i>nse Status</i> W CIPLE. | page 31, line 50) | |
| Figure Fuggested Remov Change accord Proposed F PROPO Implem | Type TR 73-1 does not i <i>Remedy</i> ve the laundry lis lingly <i>Response</i> OSED ACCEPT nent the sugges | st of data rates below the MDI st of specific MII rates to just be <i>Response Status</i> W Γ IN PRINCIPLE. | nse. | | The rea Suggested Add "w 1. Proposed I PROPO Resolv | ach text is als /Remedy vith a reach up Response OSED ACCEI /e using the re SC 116.1 . | to in the Defi to at least <i>*</i> <i>Respoi</i> PT IN PRINC esponse to co | nitions in 1.4.109 (100 m" to the desc nse Status W CIPLE. omment #I-44. | page 31, line 50) ription of 200GB/ <i>L</i> 43 | ASE-SR4 in Table 116- |
| Figure Suggested Remov Change accordi Proposed F PROPO Implem In the le | Type TR 73-1 does not i <i>Remedy</i> ve the laundry lis lingly <i>Response</i> OSED ACCEPT nent the sugges | include 800GMII or 800Gb/s st of data rates below the MDI st of specific MII rates to just be <i>Response Status</i> W Γ IN PRINCIPLE. sted remedy using editorial lice | nse. | | The rea Suggested Add "w 1. Proposed H PROPO Resolv C/ 116 | ach text is als <i>Remedy</i> vith a reach up <i>Response</i> OSED ACCEI ve using the re SC 116.1. | to in the Defi to to at least 1 <i>Respon</i> PT IN PRINC esponse to co 3 | nitions in 1.4.109 (100 m" to the desc nse Status W CIPLE. omment #I-44. P 95 | page 31, line 50) ription of 200GB/ <i>L</i> 43 | ASE-SR4 in Table 116- |
| Figure Suggested Remov Changu accord Proposed F PROPO Implem | Type TR 73-1 does not i Remedy ve the laundry lie lingly Response OSED ACCEPT nent the sugges legend have "xM SC 73.6.4 | Include 800GMII or 800Gb/s st of data rates below the MDI at of specific MII rates to just be <i>Response Status</i> W F IN PRINCIPLE. Sted remedy using editorial lice MII = generic Media Independe | nse. nt Interface". | late the legend | The real Suggested Add "w 1. Proposed I PROPU Resolv C/ 116 Ran, Adee Comment 2 200GB | ach text is als <i>Remedy</i> vith a reach up <i>Response</i> OSED ACCEI ve using the re- <i>SC</i> 116.1. <i>SC</i> 116.1. | to in the Defi o to at least <i>Crespon</i> PT IN PRINC esponse to co 3 <i>Comm</i> defined with | nitions in 1.4.109 (100 m" to the desc nse Status W CIPLE. omment #I-44. P95 Cisco System nent Status D | page 31, line 50) ription of 200GB/ <i>L</i> 43 ns, Inc. | ASE-SR4 in Table 116- # <u>I-44</u> |
| Figure Figure Figure Figure Remov Change accordi PROPO Implem In the le Figure Figure PROPO Implem In the le Figure Fi | Type TR 73-1 does not i Remedy ve the laundry lis lingly Response OSED ACCEPT nent the sugges legend have "xM SC 73.6.4 pmas | include 800GMII or 800Gb/s st of data rates below the MDI st of specific MII rates to just be <i>Response Status</i> W F IN PRINCIPLE. sted remedy using editorial lice MII = generic Media Independe P90 | nse. nt Interface". | late the legend | The real Suggested Add "w 1. Proposed I PROPU Resolv C/ 116 Ran, Adee Comment 2 200GB | ach text is als <i>Remedy</i> vith a reach up <i>Response</i> OSED ACCEI ve using the re- <i>SC</i> 116.1.3 <i>Type</i> T | to in the Defi o to at least <i>Crespon</i> PT IN PRINC esponse to co 3 <i>Comm</i> defined with | nitions in 1.4.109 (100 m" to the desc nse Status W CIPLE. omment #I-44. P95 Cisco System nent Status D | page 31, line 50) ription of 200GB/ <i>L</i> 43 ns, Inc. | ASE-SR4 in Table 116- # <u>1-44</u> (bucket |
| Figure Suggested Remov Change accordi Proposed F PROPO Implem In the le C/ 73 Huber, The Comment T | Type TR 73-1 does not i Remedy ve the laundry lis lingly Response OSED ACCEPT nent the sugges legend have "xM SC 73.6.4 omas Type E | include 800GMII or 800Gb/s st of data rates below the MDI st of specific MII rates to just be <i>Response Status</i> W T IN PRINCIPLE. sted remedy using editorial lice MII = generic Media Independe <i>P</i> 90 Nokia | nse. nt Interface". | late the legend # [-29 | The real Suggested Add "w 1. Proposed I PROPU Resolv C/ 116 Ran, Adee Comment 2 200GB | ach text is als <i>Remedy</i> vith a reach up <i>Response</i> OSED ACCEI ve using the re- <i>SC</i> 116.1. <i>SC</i> 116.1. | to in the Defi o to at least <i>Crespon</i> PT IN PRINC esponse to co 3 <i>Comm</i> defined with | nitions in 1.4.109 (100 m" to the desc nse Status W CIPLE. omment #I-44. P95 Cisco System nent Status D | page 31, line 50) ription of 200GB/ <i>L</i> 43 ns, Inc. | ASE-SR4 in Table 116- # <u>I-44</u> (bucket |
| Figure Suggested Remov Change accordi Proposed F PROP(Implem In the le C/ 73 Huber, The Comment T Missing | Type TR 73-1 does not i Remedy ve the laundry lis lingly Response OSED ACCEPT nent the sugges legend have "xM SC 73.6.4 omas Type E g a space in the | include 800GMII or 800Gb/s st of data rates below the MDI st of specific MII rates to just be <i>Response Status</i> W F IN PRINCIPLE. sted remedy using editorial lice MII = generic Media Independe <i>P</i> 90 Nokia <i>Comment Status</i> D | nse. nt Interface". | late the legend # [-29 | The real Suggested Add "w 1. Proposed I PROPU Resolv C/ 116 Ran, Adee Comment 2 200GB | ach text is als <i>Remedy</i> vith a reach up <i>Response</i> OSED ACCEI ve using the re <i>SC</i> 116.1. <i>SC</i> 116.1. <i>Type</i> T BASE-SR4 is c entioned in this | to in the Defi o to at least <i>Crespon</i> PT IN PRINC esponse to co 3 <i>Comm</i> defined with | nitions in 1.4.109 (100 m" to the desc nse Status W CIPLE. omment #I-44. P95 Cisco System nent Status D | page 31, line 50) ription of 200GB/ <i>L</i> 43 ns, Inc. | ASE-SR4 in Table 116- # <u>I-44</u> (bucket |
| Figure Suggestedi Remov Change accordi Proposed F PROPO Implem In the k Cl 73 Huber, Tho Comment T Missing Suggestedi | Type TR 73-1 does not i Remedy ve the laundry lis lingly Response OSED ACCEPT nent the sugges legend have "xM SC 73.6.4 omas Type E g a space in the | include 800GMII or 800Gb/s st of data rates below the MDI st of specific MII rates to just be <i>Response Status</i> W T IN PRINCIPLE. sted remedy using editorial lice MII = generic Media Independe <i>P</i> 90 Nokia <i>Comment Status</i> D e editing instruction | nse. nt Interface". | late the legend # [-29 | The real Suggested Add "w 1. Proposed I PROPO Resolv C/ 116 Ran, Adee Comment 7 200GB not me Suggested | ach text is als <i>Remedy</i> vith a reach up <i>Response</i> OSED ACCEI ve using the re- <i>SC</i> 116.1 .3 <i>SC</i> 116.1 .3 <i>SC</i> 116.1 .4 <i>SC</i> 11 | to in the Defi to at least 1 <i>Respon</i> PT IN PRINC esponse to co 3 <i>Comn</i> defined with a s table. | nitions in 1.4.109 (100 m" to the desc nse Status W CIPLE. omment #I-44. P95 Cisco System nent Status D | page 31, line 50) ription of 200GB/ <i>L</i> 43 ns, Inc. 09), but it is the c | ASE-SR4 in Table 116- # <u>1-44</u> <i>(bucket</i> |
| Figure Suggestedi Remov Change accordi Proposed F PROPO Implem In the k Cl 73 Huber, The Comment T Missing Suggestedi | Type TR 73-1 does not i Remedy ve the laundry lis lingly Response OSED ACCEPT nent the sugges legend have "xM SC 73.6.4 omas Type E g a space in the Remedy e "Table73-4" to | include 800GMII or 800Gb/s st of data rates below the MDI st of specific MII rates to just be <i>Response Status</i> W T IN PRINCIPLE. sted remedy using editorial lice MII = generic Media Independe <i>P</i> 90 Nokia <i>Comment Status</i> D e editing instruction | nse. nt Interface". | late the legend # [-29 | The real Suggested Add "w 1. Proposed I PROPO Resolv C/ 116 Ran, Adee Comment 7 200GB not me Suggested | ach text is als <i>Remedy</i> with a reach up <i>Response</i> OSED ACCEI ye using the re- <i>SC</i> 116.1.3 <i>SC</i> 116.1.4 <i>SC</i> 116.1.4 | to in the Defi to to at least 1 <i>Respon</i> PT IN PRINC esponse to co 3 <i>Comm</i> defined with a s table. up to at least | nitions in 1.4.109 (100 m" to the desc nse Status W CIPLE. omment #I-44. P95 Cisco System nent Status D a reach (see 1.4.10 | page 31, line 50) ription of 200GB/ <i>L</i> 43 ns, Inc. 09), but it is the c | ASE-SR4 in Table 116- # <u>I-44</u> (bucket1 |

C/ 116 SC 116.1.3

| C/ 124 | SC | 124 | | P 115 | L16 | # I-15 | C/ 124 | SC 1 | 24.1.1 | P 103 | L 3 | # <mark>I-75</mark> | |
|---|--|-----|-------------|--------------|------------------|--|--|----------|------------|---|---------------------|-----------------------|--------------------|
| Stassar, F | Peter | | ŀ | luawei Techn | ologies Co., Ltd | | Ran, Adee | | | Cisco Sy | stems, Inc. | | |
| Comment | Туре | TR | Comment Sta | atus D | | optical budget | Comment | Туре | TR | Comment Status D | | | BER |
| This is Comm incom In clar dB, w to orig penal config Becau discre 2/DR8 Suggester In Tat alloca Furthe max F A sup comm | This is a resubmission of comment #12 to D2.0. Comment #12 was rejected, because it was agreed that the proposed remedy was incomplete. In clause 124, Table 124-8, for 400G-DR4 and 800G-DR8, the allocation for penalties is 3.5 dB, whereas for 400G-DR4-2 and 800G-DR8-2 it is 3.8 dB. The difference of 0.3 dB seems to originate from the FR4 spec in Clause 151, which is potentially suffering a higher MPI penalty due to larger individual reflections in an FR4 configuration compared to a DR4/DR8 configuration. Because it was agreed (during the TF phase) to use the same list of requirements for discrete reflectances as shown in in-force Table 124-13, the allocation for penalties for DR4- 2/DR8-2 can be lowered by 0.2 dB from 3.8 to 3.6 dB (assuming 0.1 dB for DGD penalty). <i>IggestedRemedy</i> In Table 124-8, in the columns for 400GBASE-DR4-2 and 800GBASE-DR8-2, change the allocation for penalties from 3.8 dB to 3.6 dB. Furthermore, in Table 124-7 for 400GBASE-DR4-2 and 800GBASE-DR8-2 increase the max Rx sensitivity from −4.5 / −5.9 +TECQ [dbm] to −4.3 / −5.7 +TECQ [dBm]. A supporting presentation with a complete change proposal will be provided for the comment resolution meeting <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE. | | | | | remedy was on for penalties is 3.5 nce of 0.3 dB seems ring a higher MPI pared to a DR4/DR8 quirements for for penalties for DR4- 8 for DGD penalty). DR8-2, change the R8-2 increase the 0 [dBm]. | For the new 800 Gb/s PMDs the requirement in the second paragraph is that frame loss ratio is less than 3.4e-12, as opposed to 1.7e-12 for 400 Gb/s PMDs The second paragraph of 124.1.1 in the base standard, which is not modified by this amendment, states that "If the error statistics are not sufficiently random to meet this requirement, then the BER shall be less than that required to give a frame loss ratio of less than 1.7e-12 for 64-octet frames with minimum interpacket gap". This statement should also address 800 Gb/s PMDs where the maximum FLR is 3.4e-12. SuggestedRemedy Change the second paragraph (currently not in the draft) from: "If the error statistics are not sufficiently random to meet this requirement, then the BER shall be less than that required to give a frame loss ratio of less than 1.7e-12 for 64-octet frames with minimum interpacket gap". "If the error statistics are not sufficiently random to meet this requirement, then the BER shall be less than that required to give a frame loss ratio of less than 1.7e-12 for 64-octet frames with minimum interpacket gap" | | | | | | R tetet -12. |
| | | | | | | | C/ 124 Huber, Tho | SC 1 | 24.2 | Р 103 Nokia | L16 | # <mark>I-31</mark> | |
| | | | | | | | Comment | | Е | Comment Status D | | (bu | ucket1) |
| | | | | | | | | | | ment bewteen subject a | nd verb in the seco | | icket I) |
| | | | | | | | Suggested | | • | | | | |
| | | | | | | | Chang | e "The s | service in | terface for these PMDs a ribed…" or "The service | | | |
| | | | | | | | Proposed I | Respons | se | Response Status W | | | |
| | | | | | | | | | | IN PRINCIPLE. | ara dagaribad" ta " | The convice interface | a for |

C/ 124 SC 124.2

| | P 104 | L13 | # 1-89 | C/ 124 | SC 124.7.1 | P 1 ′ | 10 | L 23 | # 1-82 |
|---|---|--|--|--|---|---|---|--|---|
| Dawe, Piers J G | NVIDIA | | | Maniloff, E | ric | Ciena | Corporatio | on | |
| comment Type TR | Comment Status D | | delay values | Comment | Type TR | Comment Status | D | | TX power |
| The delay for 800GBAS direction should be the 400GBASE-R optical F PMDs contain DSP": b methods for 800GBAS modules! For a typical matter (if we say it doe popular, the interface is part that doesn't contai Also note that a 32:8 o two SerDes back to ba | The value for Average Launch Power, each lane (min) is calculated using an ER value of 10dB for DR4 and DR8, but using infinite extinction ratio for DR4-2 and DR8-2. There is no rationale presented to have different max ER's for different reaches. The specifications should use a single ER for these values. SuggestedRemedy Change the value of Average Launch Power, each lane (min) to -2.2dBm for the 2km reaches. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Slides will be provided. | | | | | | | | |
| uggestedRemedy | other comments on delay. | | | | G discussion. | | | | |
| | nce to 16,384 bit times (32 p | ause quanta or 2 | 20 48 ns) for all | C/ 124 | SC 124.7.1 | P11 | 10 | L 38 | # I-10 |
| 8x100G optical, consis | tent with all 1/2/4x100G optic | al. With another | comment, this gives a | Li, Jing | | YOFC | 2 | | |
| | and one PMA 20.48+92.16 = 18 20.48 + 92.16/2 (maybe) = | | | Comment (TECQ | <i>Type</i> E) (max) | Comment Status | D | | (bucket1) |
| roposed Response | Response Status W | | | SuggestedRemedy (TECQ), each lane (max) | | | | | |
| PROPOSED ACCEPT | IN PRINCIPLE. | | | | | | | | |
| Resolve using the resp | onse to comment #I-45. | | | Proposed I | Response | Response Status | w | | |
| | | | | | | • | | | |
| 7 124 SC 124.7.1 | P 110 | L 23 | # <mark>I-83</mark> | | | T IN PRINCIPLE. | | | |
| | P 110 Ciena Corpor | | # I-83 | Chang | e "Transmitter | eye closure for PAM4 | (TECQ) (m | ax)" to "Trans | smitter eye closure for |
| laniloff, Eric | - | | # [-83 TX power | Chang PAM4 | e "Transmitter (TECQ), each | eye closure for PAM4 lane (max)" | | | |
| Naniloff, Eric Comment Type E Different optical clause | Ciena Corpor Comment Status D s in 802.3 have not maintaine | ration ed consistency in | <i>TX power</i> the ER value used to | Chang | e "Transmitter | eye closure for PAM4 lane (max)" | 17 | ax)" to "Trans | smitter eye closure for # I-94 |
| aniloff, Eric <i>omment Type</i> E Different optical clause calculate the Minimum | Ciena Corpor Comment Status D s in 802.3 have not maintaine Average Launch Power, but | ration ed consistency in unfortunately this | <i>TX power</i> the ER value used to s is not stated and it is | Chang PAM4 | e "Transmitter (TECQ), each SC 124.8.1 | eye closure for PAM4 lane (max)" P1 [•] NVID | 17 IA | | |
| aniloff, Eric <i>comment Type</i> E Different optical clause calculate the Minimum left to the reader to calculate the reader to calculate the reader to calculate the should be a footh | Ciena Corpor Comment Status D s in 802.3 have not maintaine Average Launch Power, but culate this for each Tx Since tote added in the Tx tables to | ed consistency in unfortunately this the different ER | <i>TX power</i> the ER value used to s is not stated and it is s exist in the standard, | Chang PAM4 C/ 124 Dawe, Pier Comment | e "Transmitter (TECQ), each SC 124.8.1 rs J G <i>Type</i> T | eye closure for PAM4 lane (max)" P1 [*] NVID Comment Status | 17 IA D | L8 | # [<mark>-94</mark> (bucket1) |
| laniloff, Eric omment Type E Different optical clause calculate the Minimum left to the reader to call there should be a footh calulate the minimum T | Ciena Corpor Comment Status D s in 802.3 have not maintaine Average Launch Power, but culate this for each Tx Since tote added in the Tx tables to | ed consistency in unfortunately this the different ER | <i>TX power</i> the ER value used to s is not stated and it is s exist in the standard, | Chang PAM4 C/ 124 Dawe, Pier Comment This w | e "Transmitter (TECQ), each SC 124.8.1 rs J G <i>Type</i> T build be better | eye closure for PAM4 lane (max)" P1 [•] NVID | 17 IA D ext or Table | L 8 167-11 "3, 4, | # [<u>I-94</u> <i>(bucket1)</i> , 5, 6, or valid |
| Maniloff, Eric Comment Type E Different optical clause calculate the Minimum left to the reader to calculate the reader to calculate the should be a footric calculate the minimum T SuggestedRemedy Add a footnote to Table | Ciena Corpor Comment Status D s in 802.3 have not maintain Average Launch Power, but culate this for each Tx Since tote added in the Tx tables to Tx Power | ed consistency in unfortunately this the different ER provide the value ower, each lane (| TX power the ER value used to s is not stated and it is ts exist in the standard, e of ER max used to (min) based on the final | Chang PAM4 C/ 124 Dawe, Piel Comment This w 100GB Suggested | e "Transmitter (TECQ), each SC 124.8.1 rs J G <i>Type</i> T build be better ASE-R, 200Gl <i>Remedy</i> | eye closure for PAM4 lane (max)" P1 [•] NVID <i>Comment Status</i> worded like the base te BASE-R, 400GBASE-R | 17 IA D ext or Table R, or 800GE | L 8 167-11 "3, 4, 3ASE-R signa | # [<u>I-94</u> <i>(bucket1)</i> , 5, 6, or valid I". |
| Maniloff, Eric Comment Type E Different optical clause calculate the Minimum left to the reader to calculate the minimum T calculate the minimum T SuggestedRemedy Add a footnote to Table determination of which calculate the Average I | Ciena Corpor Comment Status D s in 802.3 have not maintain Average Launch Power, but culate this for each Tx Since tote added in the Tx tables to Tx Power | ed consistency in unfortunately this e the different ER provide the value ower, each lane (ample "An ER val in)", or if different | TX power the ER value used to s is not stated and it is ts exist in the standard, e of ER max used to (min) based on the final ue of 10dB is used to | Chang PAM4 C/ 124 Dawe, Pier Comment This w 100GB Suggested Chang valid 4 | e "Transmitter (TECQ), each SC 124.8.1 s J G Type T ould be better ASE-R, 200Gl Remedy e "3, 4, 5, 6, or 00GBASE-R o | eye closure for PAM4 (lane (max)" P11 NVID Comment Status worded like the base te BASE-R, 400GBASE-R | 17 IA D ext or Table R, or 800GE gnal or 800 (i.e. put "o | L 8 167-11 "3, 4, 3ASE-R signa GBASE-R sig | # [<u>I-94</u> <i>(bucket1)</i> , 5, 6, or valid I". |
| Maniloff, Eric Comment Type E Different optical clause calculate the Minimum left to the reader to calculate the minimum T calculate the minimum T cuggestedRemedy Add a footnote to Table determination of which calculate the Average I | Ciena Corpor Comment Status D s in 802.3 have not maintaine Average Launch Power, but culate this for each Tx Since tote added in the Tx tables to Tx Power e 124-6 for Average launch p ER values are used. For exa aunch power, each lanea (m | ed consistency in unfortunately this e the different ER provide the value ower, each lane (ample "An ER val in)", or if different | TX power the ER value used to s is not stated and it is ts exist in the standard, e of ER max used to (min) based on the final ue of 10dB is used to | Chang PAM4 C/ 124 Dawe, Pier Comment This w 100GB Suggested Chang valid 4 | e "Transmitter (TECQ), each SC 124.8.1 rs J G Type T ould be better ASE-R, 200Gl Remedy e "3, 4, 5, 6, or D0GBASE-R o g) "signal" and | eye closure for PAM4 (lane (max)" P1 [*] NVID Comment Status worded like the base te BASE-R, 400GBASE-R r valid 400GBASE-R signal" | 17 IA D ext or Table R, or 800GE gnal or 800 (i.e. put "o). | L 8 167-11 "3, 4, 3ASE-R signa GBASE-R sig | # <u>I-94</u> (<i>bucket1</i>) , 5, 6, or valid I ["] . gnal" to "3, 4, 5, 6, or |
| Maniloff, Eric <i>comment Type</i> E Different optical clause calculate the Minimum left to the reader to call there should be a footn calulate the minimum T <i>uggestedRemedy</i> Add a footnote to Table determination of which calculate the Average I for the different reache | Ciena Corpor Comment Status D s in 802.3 have not maintain Average Launch Power, but culate this for each Tx Since tote added in the Tx tables to Tx Power e 124-6 for Average launch p ER values are used. For exa aunch power, each lanea (m s this should be indicated in t Response Status W IN PRINCIPLE. | ed consistency in unfortunately this e the different ER provide the value ower, each lane (ample "An ER val in)", or if different | TX power the ER value used to s is not stated and it is ts exist in the standard, e of ER max used to (min) based on the final ue of 10dB is used to | Chang PAM4 C/ 124 Dawe, Pier Comment This w 100GB Suggested Chang valid 4 existing Proposed I | e "Transmitter (TECQ), each SC 124.8.1 rs J G Type T ould be better ASE-R, 200Gl Remedy e "3, 4, 5, 6, or D0GBASE-R o g) "signal" and | eye closure for PAM4 (lane (max)" P1 [*] NVID Comment Status worded like the base te BASE-R, 400GBASE-R status r valid 400GBASE-R signal" delete the second one Response Status | 17 IA D ext or Table R, or 800GE gnal or 800 (i.e. put "o). | L 8 167-11 "3, 4, 3ASE-R signa GBASE-R sig | # <u>I-94</u> (<i>bucket1</i>) , 5, 6, or valid I ["] . gnal" to "3, 4, 5, 6, or |

| | SC 124.8.1 | | P117 | L 30 | # I-76 | C/ 124 | SC 12 | 4.8.9.2 | P120 | L17 | # I-77 |
|--|---|--|---|--------------------|---|--|---|---|--|---|---|
| Ran, Ade | е | (| Cisco Systems | s, Inc. | | Ran, Adee | 9 | | Cisco Sy | stems, Inc. | |
| omment | Type TR | Comment St | tatus D | | (bucket1) | Comment | Туре | E | Comment Status D | | (bucket1) |
| confo | rmance test sig | subclause referen nal calibration, and installation, envire | nd Stressed rec | ceiver sensitivity |) is 124.9, but that | figure | might mo | ve to ano | ays "Insert new subcla ther place when a new ubclause should be de | revision is created. | Figure 124–4". But that use structure. |
| | | t, these reference is adequate for th | | | part of this draft. If e can simply be | Suggested Chang | - | ruction to | "Insert new subclause | 124.8.9.2 after 124 | l.8.9.1". |
| correc | cted. | · | | | | Proposed Response Response Status W | | | | | |
| Howe | ver. I suspect th | nat other changes | are required (| (for example, 14) |).7.13 includes a | PROP | OSED AG | CCEPT. | | | |
| requir | ement about ov | ershoot and unde | ershoot, which | does not exist ir | 124.8.10, even | | 00.40 | | Diai | 1.00 | // |
| | | | | , | case, then 124.8.10 | C/ 124 | SC 12 | 4.11a | P 124 | L 23 | # 1-95 |
| | should be added to this document and amended. I do not have the expertise to propose a detailed solution. | | | | cperiise to propose a | Dawe, Pie | | | NVIDIA | | |
| uaaesteo | dRemedy | | | | | Comment | | TR | Comment Status D | | TX powe |
| If it is Proposed PROF In Tat | necessary, add <i>Response</i> POSED ACCEP ole 124-10 chan | e of both table iten I 124.8.10 to this c <i>Response Sta</i> T IN PRINCIPLE. ge the related sub Stressed receive | document and tatus W bclause for Str | make any requi | conformance test | those is no c DR4 is higher brough confus from 0 | that can in cost to beins well estan performant into line sion, and l 0.9 dB to 0 | nteropera ng interop ablished b nce PMD e. This pr nave no p | berable. D2.0 commer ut 400GBASE-DR4-2 i is counter-intuitive, the oposed change will imp | 4 and those that sa at 86, D2.1 commen s new, and as havir e draft 400GBASE-I prove paperwork cost t - it reduces the me | y they can't, when there tt 19. As 400GBASE- ng a lower power for the DR4-2 should be sts and reduce easurement guard band |
| 2/ 124 | SC 124.8.5 | .1 | P 118 | L 23 | # I-32 | Suggested | | 4000004 | | | actor than an aqual ta |
| Huber, Th | | | Nokia | | | | | | SE-DR4-2 transmitter a nch power (min) for 40 | | |
| | | Comment St | | | (bucket1) | | | | | | |
| Comment | | 00111110111 01 | | | () | (bucket1) vel; as (bucket1) rel; as (associated with an infinite extinction ratio (associated with an unrealistically high e Similarly for 800GBASE-DR8-2. | | | | | |
| The s | tyle guide indica | ates that there sho .5.1 without also a | | | | | | | | n ratio for the same | |
| The st such, | tyle guide indica | | | | | | rly for 800 | GBASE- | | n ratio for the same | |
| The si such, Suggestee Delete | tyle guide indica inserting 124.8 <i>dRemedy</i> the editing ins | .5.1 without also a | adding a 124.8 124.8.5.1 and t | 3.5.2 is not appro | priate. g. Include the text that | Simila <i>Proposed</i> PROP | rly for 800 Response |)GBASE- ; CCEPT IN | DR8-2. | n ratio for the same | |
| such, Suggestee Delete would | tyle guide indica inserting 124.8 <i>dRemedy</i> the editing ins | .5.1 without also a truction to insert 1 | adding a 124.8 124.8.5.1 and t of the changes | 3.5.2 is not appro | priate. g. Include the text that | Simila Proposed PROP Slides For CF | rly for 800 <i>Response</i> OSED A0 will be pr RG discus | OGBASE- CCEPT IN ovided. ssion. | DR8-2. Response Status W | n ratio for the same | |

C/ 124 SC 124.11a

| C/ 124 | SC 124.12.4.4 | P 128 | L 21 | # I-96 | C/ 124 | SC 1 | 24.12.4.6 | P129 | L14 | # <u>I-33</u> |
|-----------------------------------|--|---|-------------------|-------------------------|-----------------|----------------------|-----------------------------|--|-------------------|-------------------------|
| Dawe, Piers | JG | NVIDIA | | | Huber, Th | omas | | Nokia | | |
| Comment Ty | pe ER | Comment Status D | | (bucket1) | Comment | Туре | E | Comment Status D | | (bucket1) |
| This use useful. | of + is used in s | several clauses in this draft. | It is not define | d in 21.6.2, but it is | | | y : in the S | tatus | | |
| SuggestedRe | emedv | | | | Suggested | , | / | | | |
| In 21.6.2 | , add: <item1>+</item1> | <item2>: OR-predicate contemported contemported</item2> | dition, the requi | rement has to be met if | ``` | - | *INS:M" to INS:M" | | | |
| Proposed Re | esponse | Response Status W | | | Proposed | Respons | se | Response Status W | | |
| | SED ACCEPT II using the respo | N PRINCIPLE. nse to comment #I-47. | | | PROP | OSED A | CCEPT. | · | | |
| C/ 124 | SC 124.12.4.4 | P128 | L 21 | # I-143 | C/ 162 | SC 1 | 62.1 | P130 | L 20 | # I-48 |
| Slavick, Jeff | 00 124.12.4.4 | Broadcom Inc | | π -143 | Ran, Adee |) | | Cisco System | is, Inc. | |
| , | | Comment Status D | | (huslastd) | Comment | Туре | ER | Comment Status D | | test points (bucket1) |
| Comment Ty PICS dor | <i>pe</i> TR n't have a defini | | | (bucket1) | | | provides inf nted syster | ormation on parameters wi n" | th test points th | nat may not be testable |
| SuggestedRe For OM9 columng | ,OM10,OM11,C | 0M12 change the + to a :M a | nd then add a l | N/A[] in the Support | | | | appropriate for test points; i be testable, because the to | | |
| Proposed Re | | Desmanas Clature IN | | | Suggested | Remedy | / | | | |
| PROPOS | SED ACCEPT II | Response Status W N PRINCIPLE. nse to comment #I-47. | | | "Anne impler | x 162A p nented s | | ence to formation on parameters th ce the test points they are | | |
| C/ 124 | SC 124.12.4.6 | P 128 | L10 | # I-144 | | ssible". | | | | |
| Slavick, Jeff | | Broadcom Inc | : | | Proposed | ' | | Response Status W | | |
| Comment Ty | pe TR | Comment Status D | | (bucket1) | PROP | OSED A | CCEPT. | | | |
| PICS dor | n't have a defini | tion for + | | | | | | | | |
| SuggestedRe | emedy | | | | | | | | | |
| Change (| OC10 Status to | e "INS*DR4:M INS*DR42:M be "INS*DR8:M INS*DR82: OC4, OC6, OC7, OC8, OC9 | M" | | | | | | | |
| Proposed Re PROPOS | esponse SED ACCEPT II | Response Status W N PRINCIPLE. | | | | | | | | |

Resolve using the response to comment #I-47.

C/ 162 SC 162.1

| C/ 162 SC 162.1 | P130 | L 20 | # I-97 | C/ 162 | SC 162.8.1 | P137 | L 8 | # I-98 | |
|--|---|---|---|--|--|---|---|---|--------------------------|
| Dawe, Piers J G | NVIDIA | | | Dawe, Pie | rs J G | NVIDIA | | | |
| omment Type E | Comment Status D | | test points (bucket1) | Comment | Type TR | Comment Status D | | gr | round |
| used to indicate a c is permitted to)." Th guide 10.1.2 That a SuggestedRemedy Change "information implemented system | n on parameters with test points n" to "parameters associated wi mented system", aligning with 1 <i>Response Status</i> W PT IN PRINCIPLE. | n the limits of th sing word "asso that may not be th test points wh | ne standard (may equals iciated". Also, see style e testable in an nich might not be | referer The PN the PM the lan ground If this s telling provide shield the ME lane, n It is no and 32 | Aces." It is not of MDs are connect IDs are connect es in a PMD are reference for the sentence means the implemente ed, e.g. through in Fig 162-2 are 01 plug connector ot by PMD. t clear what "gru- 6 (both deprect ot appear in 16 | ted to each other, and that def e connected together to a "gro | o say that: ines a "ground i und reference", each other, it is a, e.g. through r clear whether S are connected i ssembly" but s o "ground") mea a 802.3ck, repro | reference"; or not necessarily the not clear whether it is nains earth, or that it ignal shield and/or L to ground contacts in ignal shields are by ans. It appears in 23 oduced here. The te | t is .ink 1 3.5 |
| | | | | Suggested | | | | | |
| | | | | use "co When | ommon" rather this is clear, a | quired of 800GBASE-CR8 PH\ than "ground" or ground refere maintenance item for 100GBA ld be appropriate. | nce". | | |
| | | | | Proposed I | Response | Response Status W | | | |
| | | | | Chang accura "The P Also, a | cy or clarity of t MDs on both er s noted in the s | ound to common in the followir | ground referen would apply als | ces." so to 100GBASE-CR | :1, |
| | | | | C/ 167 | SC 167.1 | P156 | L13 | # 1-4 | |
| | | | | Brown, Ma | tthew | Alphawave | | | |
| | | | | Comment | Туре Е | Comment Status D | | (buc | ket1) |
| | | | | It is "80 | 00GBASE-R PO | CS" and "800GBASE-R PMA" | | | |
| | | | | Suggested | Remedy | | | | |
| | | | | | | GBASE-R" to "800GBASE-R F GBAE-R" tp "800GBAE-R PM | | | |
| | | | | Proposed I | Response | Response Status W | | | |
| | | | | Chang | e "PCS for 800 | T IN PRINCIPLE. GBASE-R" to "800GBASE-R F GBASE-R" to "800GBASE-R F | | | |
| OMMENT STATUS: D | uired ER/editorial required GR/ /dispatched A/accepted R/reje | • • | | 0 | U/unsatisfied | C/ 16 Z/withdrawn SC 16 | | Page 13 of 9/1/2023 4: | |

SORT ORDER: Clause, Subclause, page, line

| C/ 167 SC | 67.7.1 | P163 | L 26 | # I-11 | C/ 167 | SC 167.7.2 | P16 | 64 L 28 | # I-14 |
|--|---|--|-------------------|-----------------------------|--|---|--|---|---|
| _i, Jing | | YOFC | | | Li, Jing | | YOFC |) | |
| Comment Type 4.4 4.4 | E | Comment Status D | | (bucket1) | Comment Stress | | Comment Status sitivity (OMAouter)c (m | - | (bucket |
| SuggestedReme | edy | | | | Suggested | IRemedy | | | |
| 4.4 | | | | | Stress | ed receiver sen | sitivity, each lane (OM | Aouter)c (max) | |
| Proposed Respo | onse | Response Status W | | | Proposed I | Response | Response Status | w | |
| PROPOSED | | | | | PROP | OSED ACCEPT | | | |
| is summariz | ed in comm | two column even though it's ent I-15 in the 802.3db Draft j/3/db/comments/P802d3db_ | 3.0 final comme | ent report here: | C/ 167 | SC 167.11.4 | | | # <mark>I-145</mark> |
| pdf | - | | • – | / | Slavick, Je | | | lcom Inc | |
| The respons "TDECQ is r | | ed nere: sing different fiber emulation | filters for VR an | d SR. TDECQ (max) is | Comment | <i>Type</i> TR don't have a def | Comment Status | D | (bucket |
| specified in | separate col | lumns for VR and SR to note | this difference | | | | | | |
| | | umerical limit for TDECQ(ma sion, relating to this same tal | | 802.3db task force, | Suggested Chang | - | 5a, OC16, OC17 | | |
| | | be merged as proposed. | - | | | | 19 to be "INS*VR8:M | INS*SR8:M" | |
| 2/167 SC | 67.7.1 | P 163 | L 30 | # I-12 | Proposed I | Response | Response Status | w | |
| i, Jing | | YOFC | | | - | | IN PRINCIPLE. | 47 | |
| Comment Type | Е | Comment Status D | | (bucket1) | Resolv | e using the resp | oonse to comment #I-4 | 47. | |
| onnine rypo | - | | | (| | | | | |
| Overshoot/u | | | | (,) | C/ 169 | SC 169.2.1 | P17 | 78 L3 | # <u>1</u> -49 |
| Overshoot/u | Indershoot (I | | | (, | C/ 169 Ran, Adee | | | 78 L3 Systems, Inc. | # <u>1-49</u> |
| Overshoot/u SuggestedReme | ındershoot (ı ədy | | | | Ran, Adee Comment | e Type TR | Cisco Comment Status | Systems, Inc. | (bucket |
| Overshoot/u SuggestedReme Transmitter | indershoot (i edy overshoot a onse | max) | | | Ran, Adee <i>Comment</i> The titl | <i>Type</i> TR le of this subcla ce (MII)" and the | Cisco <i>Comment Status</i> use is "Reconciliation | Systems, Inc. D Sublayer (RS) and | (bucket |
| Overshoot/u suggestedReme Transmitter Proposed Respo PROPOSEL | indershoot (i edy overshoot a onse | max) nd undershoot (max) | L26 | # [-13 | Ran, Adee Comment The titl Interfar Clause But MI | e <i>Type</i> TR le of this subcla ce (MII)" and the e 170". I is defined in 1. | Cisco <i>Comment Status</i> use is "Reconciliation e text includes "The M | Systems, Inc. D Sublayer (RS) and edia Independent In 22) only with refere | <i>(bucket</i> Media Independent hterface (MII) specified in |
| Overshoot/u uggestedReme Transmitter roposed Respo PROPOSEE / 167 SC i, Jing | indershoot (i edy overshoot a onse D ACCEPT. | max) nd undershoot (max) <i>Response Status</i> W P164 | L26 | | Ran, Adee Comment The titl Interfar Clause But MI (which | e <i>Type</i> TR le of this subcla ce (MII)" and the e 170". I is defined in 1. defines the MA | Cisco Comment Status use is "Reconciliation e text includes "The M 4.393 (as of 802.3-20) | Systems, Inc. D Sublayer (RS) and edia Independent In 22) only with refere s a generic term. | <i>(bucket</i>) Media Independent hterface (MII) specified in nce to clause 22. Annex 4A |
| Overshoot/u SuggestedReme Transmitter Proposed Respo PROPOSEL Cl 167 SC Li, Jing Comment Type | indershoot (i edy overshoot a onse D ACCEPT. C 167.7.2 E | max) nd undershoot (max) <i>Response Status</i> W <i>P</i> 164 YOFC | L26 | # [<u>l-13</u> | Ran, Adee Comment The titl Interfac Clause But MI (which For 80 | e <i>Type</i> TR le of this subcla ce (MII)" and the e 170". I is defined in 1. defines the MA 0G, the term 80 | Cisco Comment Status use is "Reconciliation e text includes "The M 4.393 (as of 802.3-20 C) does not use MII as | Systems, Inc. D Sublayer (RS) and edia Independent In 22) only with refere s a generic term. | <i>(bucket</i>) Media Independent hterface (MII) specified in nce to clause 22. Annex 4A |
| Overshoot/u SuggestedReme Transmitter Proposed Respo PROPOSEE Cl 167 SC Li, Jing Comment Type Receiver se SuggestedReme | edy overshoot a onse D ACCEPT. C 167.7.2 E nsitivity (OM edy | max) nd undershoot (max) <i>Response Status</i> W <i>P</i> 164 YOFC <i>Comment Status</i> D | L26 | # [<u>l-13</u> | Ran, Adee Comment The titl Interfac Clause But MI (which For 80 Suggested Chang | e <i>Type</i> TR le of this subcla ce (MII)" and the e 170". I is defined in 1. defines the MA 0G, the term 80 <i>IRemedy</i> | Cisco Comment Status use is "Reconciliation e text includes "The M 4.393 (as of 802.3-20 C) does not use MII as | Systems, Inc. D Sublayer (RS) and edia Independent In 22) only with refere s a generic term. 184i) should be use | <i>(bucket</i> Media Independent nterface (MII) specified in nce to clause 22. Annex 4A ed. |
| Overshoot/u SuggestedReme Transmitter Proposed Respo PROPOSEE C/ 167 SC .i, Jing Comment Type Receiver se SuggestedReme | indershoot (i edy overshoot a onse D ACCEPT. C 167.7.2 E nsitivity (OM edy nsitivity, eac | max) nd undershoot (max) <i>Response Status</i> W <i>P</i> 164 YOFC <i>Comment Status</i> D IAouter) (max) | L 26 | # [<u>l-13</u> | Ran, Adee Comment The titl Interfac Clause But MI (which For 80 Suggested Chang Interfac | e <i>Type</i> TR le of this subcla ce (MII)" and the e 170". I is defined in 1. defines the MA 0G, the term 80 <i>IRemedy</i> le the title to "Re ce (800GMII)". | Cisco Comment Status use is "Reconciliation e text includes "The M 4.393 (as of 802.3-20 C) does not use MII as 0GMII (defined in 1.4. | Systems, Inc. D Sublayer (RS) and edia Independent In 22) only with refere s a generic term. 184i) should be use | <i>(bucket</i> Media Independent nterface (MII) specified in nce to clause 22. Annex 4A ed. |
| Overshoot/u SuggestedReme Transmitter Proposed Respo PROPOSEL C/ 167 SC i, Jing Comment Type Receiver se SuggestedReme Receiver se Proposed Respo PROPOSEL | edy overshoot a onse D ACCEPT. C 167.7.2 E nsitivity (OM edy nsitivity, eac onse D ACCEPT I | max) nd undershoot (max) <i>Response Status</i> W <i>P</i> 164 YOFC <i>Comment Status</i> D IAouter) (max) ch lane (OMAouter) (max) | - | # [<u>-13</u> (bucket1) | Ran, Adee Comment The titl Interfac Clause But MI (which For 80 Suggested Chang Interfac | e <i>Type</i> TR le of this subcla ce (MII)" and the trian trian the subcla of, the term 80 <i>IRemedy</i> le the title to "Re ce (800GMII)". the the subclause | Cisco Comment Status use is "Reconciliation e text includes "The M 4.393 (as of 802.3-20 C) does not use MII as 0GMII (defined in 1.4. | Systems, Inc. D Sublayer (RS) and edia Independent In 22) only with refere s a generic term. 184i) should be use (RS) and 800 Gb/s | <i>(bucket</i> Media Independent hterface (MII) specified in nce to clause 22. Annex 4A |

| TYPE: TR/technical required ER/editorial required GR/gene | ral required T/technical E/editorial G/general | C/ 169 | Page 14 of 34 |
|---|--|------------|---------------------|
| COMMENT STATUS: D/dispatched A/accepted R/rejected | RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn | SC 169.2.1 | 9/1/2023 4:56:21 PM |
| SORT ORDER: Clause, Subclause, page, line | | | |

| - | | | | | - | | | | |
|--|---|--|---|--|--|---|--|---|---|
| C/ 169 | SC 169.2.6 | P 178 | L 53 | # 1-50 | C/ 169 | SC 1 | 69.3.3 | P 182 | L 4 |
| Ran, Adee | | Cisco System | s, Inc. | | Dawe, Pie | ers J G | | NVIDIA | |
| Comment | Type ER | Comment Status D | | (bucket1) | Comment | Туре | TR | Comment Status D | |
| Gb/s c The se Suggesteo Chang and th 73." Proposed I PROP To be Chang the 80 | opper PHY (800 entence is incorr <i>Remedy</i> e to "Auto-Nego e 800 Gb/s copp Response OSED ACCEPT consistent with v e: "Auto-Negotia 0 Gb/s copper P | sed by the 800 Gb/s backplan IGBASE-CR8) is specified in (ect as written (800GBASE-CF tiation is used by the 800 Gb/ ber PHY (800GBASE-CR8). A <i>Response Status</i> W IN PRINCIPLE. wording in other similar clause ation is used by the 800 Gb/s HY (800GBASE-CR8) is spec used by the 800 Gb/s backpla | Clause 73." R8 is not specifi s backplane Ph uto-Negotiation es implement th backplane PHY cified in Clause | ASE-KR8) and the 800 ed in Clause 73). IY (800GBASE-KR8) is specified in Clause e following (800GBASE-KR8) and 73." | includ of the "each one; c possit and a comin to be combi For El This p Claus PMD_ PMD_ | e some I service p of the rx r take or bly implyi ssociated g to spec careful w ning eler POC, 100 rimitive c e 101 PM UNITDA UNITDA | PCB. With primitive, _symbol he of four ng that th d A to D, a cs related here we a ments of t 0.2.1.2, Pl defines th MA. The TA.indica TA.indica | imited a PAM2 signal and the h PAM4, the PMA does Grassays that: parameters can either take values: zero, one, two, or the PMD makes the decision as well as analog equalisati to 802.3df soon, this may be assume the A to D and DSF the delay budget. MD_UNITDATA.indication, the transfer of I/Q value pair semantics of the service pri- stion (I_value, Q_value, ChN ation is a continuous stream and Q value are encoded as | ay mapping too. 11 one of two values: . nree", s (therefore contair on). With DSP an- need to change or to P functions are whe says: data from the Claus mitive are lum). The data conv of I/Q value pairs a |
| | | GBASE-CR8) is specified in (| | | indica | tes the a | pplicable | channel. Semantics of the primitive, s | 0 |
| C/ 169 | SC 169.2.6 | P 178 | L 54 | # 1-34 | The P | MD_UNI | TDATA.ir | ndication primitive conveys | four *analog* signa |
| Huber, The | omas | Nokia | | | | | • | but EPoC and 3cw are rea | |
| Comment | Туре Е | Comment Status D | | (bucket1) | | | , | vork when more sophisticate A to D in different places. | ad signal processing |
| One of | the two instanc | es of 'is' in the second senter | ce was presum | ably intended to be 'as'. | | | • | A to D in unerent places. | |
| Suggested | Remedy | | | | Suggester | , | | | |
| Revise Clause | the sentence to 73 auto-negotia | o use the structure of the anal ation is used by the 800 Gb/s 'HY (800GBASE-CR8). | | | "PMD mean | sublaye | r". EPoC MA in an | ecisions" model will put too 's "PMD contains the D to A AUI (which obviously can c n to a PMA next to the PMD | A" model seems un- ontain an A to D) m |
| Proposed | • | Response Status W | | | | | | nalog EQ" model seems the n may be needed to set the | |

PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-50.

| | 0/109 30 | 109.3.3 | F 102 | L4 | # 1-90 |
|---|-----------------|---------|------------------|----|--------|
| | Dawe, Piers J G | | NVIDIA | | |
|) | Comment Type | TR | Comment Status D | | PMD SI |

recovery, and might 16.3.3.2.1, Semantics

zero or

ins any DSP equaliser nd soft decision be clarified. We need en dividing up or

use 100 PMD to the

nveved bv and received OFDM gers. ChNum

als, representing... lescribing the ng techniques are

in an unrecognisable n-intuitive, and it would must have a very ID may provide E/O Addressing this question may be needed to set the delay limits of the sublayers. Add an exception here, that unlike in 116.3.3.2.1, IS_UNITDATA_i.indication(rx_symbol) conveys an analog signal representing a PAM4 signal, possibly with noise and distortion. See other comments on delay.

Proposed Response Response Status W

PROPOSED REJECT.

For commonality with 100 Gb/s per lane interfaces for 100 Gb/s, 200 Gb/s, and 400 Gb/s Ethernet the PMD service interface should remain as currently defined. The proposed changes might be worth considering for in a later project, e.g., 802.3dj, for higher signaling rate interfaces.

C/ 169 SC 169.3.3 Page 15 of 34 9/1/2023 4:56:21 PM

1.00

| C/ 169 | SC 169.4 | P 182 | L11 | # I-99 | C/ 169 | SC 169.4 |
|--|--|--|--|---|---|--|
| Dawe, Pie | rs J G | NVIDIA | | | Dawe, Pie | ers J G |
| Comment | Туре Т | Comment Status D | | delay wording | Comment | Туре т |
| device m long repeat bits or PAUS now. | es." looks like it v g, the largest no ers. At 800G, a n the line, 200,00 E implementatio | operation of the MAC Control was copied from 24.6 (for 100 minal reach was 2 km (1000 k MAC bit is 0.25 mm long and 00 ns). So the medium can d ons to tolerate such long links. ge, the NOTE is copied from e | BASE-X) when bits on the line) a d we expect 40 k ominate, and or . And, no-one ta | a MAC bit was about 2 and there were am in P802.3dj (1.6e8 e should not expect all | packa modul the sa sublay sublay while t | d of "colocated", ge" and "The def e, or other simila me concept, as i rers are the respo rers is accessible he base docume |
| Suggested | | | Suggested | | | |
| Updat MAC (| e and simplify th Control PAUSE | is text, e.g. "The delay limits operation (Clause 31, Annex 3 medium interconnecting two F | 31B). | | which for all | ge the criterion to might be a PCB, of the sublayers word "colocated" |
| Proposed | Paananaa | Response Status W | | | Proposed | Response OSED ACCEPT |
| The in The de alloca specif the me Add th | troduction as wr elays specified f tion for the medi led for optical Pl edium between he following sent | IN PRINCIPLE. itten is relevant and should no or the backplane (KR8) and c um (14 ns or ~3 m) between MDs (VR8, SR8, DR8, DR8-2) Physical Layers. ence after Table 169-4. interconnecting two optical P | opper cable (CF Physical Layers) include only 2 | 8) PMDs include However, for delays m (~10 ns) allocation for | termin purpos 163.9. Chang constr To: "T | se of the word "co ology for this situ se. See example: 3.1, 120F.3.1, 12 je: "The delay for aints for all of the he delay for a se f constraints for t |
| C/ 169 | SC 169.4 | P 182 | L13 | # I-51 | | |
| Ran, Adee | e | Cisco System | ns, Inc. | | | |
| Comment | Туре Е | Comment Status D | | (bucket1) | | |
| 800 G | | mes as specified in 1.4 and pa suggests that 31B.2 includes not. | | | | |
| The reused. | ferences to 1.4 | and 31B.2 are parenthetic, sc | corresponding | punctuation should be | | |
| Suggested | Remedy | | | | | |
| | je to "in bit time: igabit Ethernet" | s (as specified in 1.4) and pau | ise_quanta (as s | specified in 31B.2) for | | |
| Proposed | Response | Response Status W | | | | |
| PROP | OSED ACCEPT | IN PRINCIPLE. | | | | |

Implemented the suggested remedy with editorial license.

| C/ 169 SC 169.4 | P182 | L16 | # I-100 |
|-----------------|------------------|-----|---------------|
| Dawe, Piers J G | NVIDIA | | |
| Comment Type T | Comment Status D | | delay wording |

, Clause 45 uses terminology like "instantiated within the same efinition of the term package is vendor specific and could be a chip, lar entity." We should use language consistent with Clause 45 if it is it appears to be. I suppose the key here could be whether the ponsibilities of different parties or whether the interface between the le for measurement. Also, this uses the spelling "colocated" (twice) nent uses "co-located" (twice in 55B). Spelling should be consistent.

to say that the delay for the sublayers within a single implementation, B, package, chip or module, is constrained by the sum of constraints within it.

" is kept, reconcile the spelling with the base document.

Response Status W

T IN PRINCIPLE.

colocated" was (incorrectly) intended to make use of established tuation. Instead, the term "in/within the same package" is used for this es in 802.3ck-2022 120.1.4, 135.1.4, 162.9.4, 162.9.5.1, 163.9.2, 120G.3.1 and 802.3-2022 45.2 (many instances).

or a set of colocated sublayers may be constrained by the sum of he colocated sublavers."

set of sublayers within the same package may be constrained by the the set of sublayers."

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

C/ 169 SC 169.4 Page 16 of 34 9/1/2023 4:56:21 PM

delay wording

| C/ 169 | SC 169.4 | P182 | L18 | # I-52 |
|--------|----------|------|-----|---------------|
|--------|----------|------|-----|---------------|

Ran, Adee

an, Adee

Cisco Systems, Inc.

Comment Type TR Comment Status D

The text says that bit time and pause quanta are "for 800 Gigabit Ethernet".

The title of Table 169-4 has "800GBASE", and footnotes a and b start with "For 800GBASE-R".

Although 800GBASE-R is currently the only defined PHY family, it may not be so in the future; bit time and pause quanta are independent of the PHY type, so the footnotes should not be restricted to one PHY family.

Note that the addition of such footnotes started in Clause 80 in which there were two data rates, so it was required. It isn't required in clauses that define a single data rate, such as Clause 105. If it is anticipated that Clause 169 also introduces 1.6 Terabit Ethernet, then the distinction will be required; otherwise, the data rate can be removed from the footnotes.

The table title should be consistent with the text.

SuggestedRemedy

In the table title, change "800GBASE" to "800 Gigabit Ethernet".

In footnotes a and b, either change "For 800GBASE-R" to "For 800 Gigabit Ethernet", or delete these words.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Clause 169 is specific to 800 Gigabit Ethernet or 800GBASE Physical Layer implementations, so the qualifier "(800GBASE)" in the table title is not necessary. The bit times and pause_quanta, are relevant to any 800GBASE Physical Layer implementation, so the related footnotes should not be specific to 800GBASE-R. However, it is help to be unambiguous that these numbers are specific to 800GBASE in general. In Table 169-4 title delete "(800GBASE)".

In Table 169-4 footnotes 1 and 2, change "800GBASE-R" to "800GBASE".

| C/ 169 SC 16 | 9.4 <i>P</i> 1 | 82 L28 | # I-91 |
|-----------------|------------------|--------|--------------|
| Dawe, Piers J G | NVIE | DIA | |
| Comment Type | R Comment Status | D | delay values |

The delay allowance for an 8:8 PMA is too low, and the allowance for an optical PMD is out of step with other optical PMDs. (The allowance for CR or KR PMD+AN may be wrong too, but it doesn't matter much as they are always combined with PMAs.) See dawe 3df 01a 2307 Module and PMA delay limits, and other comments on delay

SuggestedRemedy

Change "800GBASE-R PMA" to "32:8 or 8:32 800GBASE-R PMA". Add a row "8:8 800GBASE-R PMA, 73,728 BT, 144 PQ, 92.16 ns (exactly twice that for the 32:8 or 8:32 PMA). Revert the VR8, SR8, DR8 and DR8-2 PMD allowances to 16,384 BT, 32 PQ, 20.48 ns.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #I-45.

| C/ 169 | SC 169.4 | P 182 | L 28 | # I-101 |
|-----------|----------|------------------|-------------|---------------|
| Dawe, Pie | ers J G | NVIDIA | | |
| Comment | Type TR | Comment Status D | | delay wording |

It is not clear here whether e.g. a pair of IOs forming an AUI is one PMA sublayer or two. 173.5.4 says "up to four instances of the 800GBASE-R PMA within a Physical Layer", but the relation between instance and sublayer is not given there. 120.5.4, Delay constraints, says "...up to four PMA stages in a PHY (sum of transmit and receive delays at one end of the link) but it's still ambiguous. In 173.5.4, Delay constraints, "...up to four instances of the 800GBASE-R PMA", and the numbers for the PMA in Table 173-1 (not this table 169-4) apply to an instance not a sublayer.

In 173.5.3.5 we have "group of PMAs" which is not explicitly defined: maybe it means any stack of nothing but PMA-things between PMD and PCS, which could be OK for this project but may need more careful definition if an inner FEC is put between or within PMA-things.

SuggestedRemedy

Consolidate the terminology (don't use "sublayer" and instance" for the same thing), and explicitly state somewhere whether a pair of IOs forming an AUI is one PMA sublayer or two. Add cross-references as appropriate, e.g. from the AUI annexes. Write something like "Each instance of a PMA" in the Notes column. Change the heading of the left column to "Sublayer or instance" if appropriate.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "Table 169–4 contains the values of maximum sublayer delay" To "Table 169–4 contains the values of maximum delay for each instance of a sublayer" Implement with editorial license.

C/ 169 SC 169.4 Page 17 of 34 9/1/2023 4:56:21 PM

| C/ 169 S | SC 169.4 | P 182 | L 28 | # I-137 | C/ 169 | SC | 169.6 | P 185 | L 51 | # I-102 |
|--|----------------------------------|--|--|----------------------|--|----------------------|--|---|---|--|
| Maki, Jeffery | | Juniper Netwo | orks, Inc. | | Dawe, Pier | rs J G | | NVIDIA | | |
| Comment Typ | be TR | Comment Status D | | delay values | Comment 7 | Гуре | TR | Comment Status D | | FEC degrade |
| is 87.04 n implemen | ns (the optica ntations where | elay + 800GBASE-DR8 PMD E I module Delay) and is too sma e values are measured to be a | all in relation to is high as 106 n | prevalent | | non-no | | rade functionality is identical ntroduction, it contains no def | | |
| | | rting values as high as 109 ns | to 129 ns. | | Suggested | Remed | dy | | | |
| SuggestedRei | - | | | | | | | C degrade functionality is iden | | |
| Increase t | the allowed s | um to 200 pause_quanta or 12 | 28 ns. | | | | | abit Ethernet in 116.6." to "Op abit Ethernet and 400 Gigabit | | |
| | ED ACCEPT | Response Status W IN PRINCIPLE. ponse to comment #I-45. | | | R PCS (see 11 118.2." | , it is d 19.2.6. | lefined in 2). For the second se | 172.2.5.3 (see 119.2.5.3), 17 ne 800GMII Extender, see 17 | 2.2.5.3 (see 119 1.2, 118.2.1, 17 ⁻ | 9.2.5.3) and 172.2.6 1.3, 118.2.2, 171.6, and |
| C/ 169 S | SC 169.5 | P185 | L 34 | # I-93 | | | | nd sentence "For the 200GB/ 19.2.5.3, and 119.2.6.2. For | | |
| Dawe, Piers J | JG | NVIDIA | | | | | , | , 118.2.2, and 118.2." | | |
| Comment Typ | be TR | Comment Status D | | skew variation | Proposed F | Respor | nse | Response Status W | | |
| D2.0 comment 96: As discussed, the Skew Variation limits were based on a digital clock rate that is slow by modern standards, and they were heavily sandbagged. It is important to | | | | | PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-3. | | | | | |
| decisions | made long a | so that the future 200G/lane-ba go for technology that doesn't out Skew Variation needs more | apply in this ca | | C/ 170 | | 170.1 | P187 | L 7 | # 1-53 |
| SuggestedRei | | | e investigation. | | Ran, Adee Comment 7 | | TR | Cisco Systen Comment Status D | is, inc. | (bucket1 |
| Continue t | the investiga | tion into Skew Variation, revise ome of the padding. | e the numbers a | ccording to relevant | "This c | lause | defines th | he characteristics of the Reco between Ethernet media acc | , | ver (RS) and the Media |
| | ED REJECT | Response Status W | atail ta implama | at | | | | to 800 Gb/s PHYs. The capit fied for 10M/100M Ethernet ir | | |
| The sugge | ested remed | y does not provide sufficient de | etali to impleme | п. | Suggested | Remed | dy | | | |
| | | | | | the 800 |) Gb/s | Media In | e defines the characteristics of dependent stween Ethernet media acces | | |
| | | | | | Proposed F | Respor | nse | Response Status W | | |
| | | | | | Change the 800 | e to "T) Gb/s | his claus Media In | IN PRINCIPLE. e defines the characteristics of dependent Interface (800GMI s 800 Gb/s PHYs". | | |

C/ 170 SC 170.1

| C/ 170 SC 170.1 | P 187 | L 37 | # I-54 | C/ 170 | SC 170.4.4.1 | P191 | L19 | # 1-35 |
|---|---|---------------------|--------------------------|---------------------|----------------------|--|--------------------|-----------------------|
| Ran, Adee | Cisco System | ns, Inc. | | Huber, The | omas | Nokia | | |
| Comment Type TR | Comment Status D | | (bucket1) | Comment | Туре Е | Comment Status D | | (bucket1) |
| and "800GMII". | I-1 has "RS" and "MII", but the | e labels in the fig | ure are "Reconciliation" | any mo | ore sense there; i | . This seems to be copied f the intent was to align with G4 rather than G1 and G3. | | |
| SuggestedRemedy | | | | | | | | |
| | elationship of the Reconciliations Interconnection (OSI) reference | | | Suggested Rather | • | he presumed typo from clau | use 117, change | G3 to G2 |
| Proposed Response | Deserves Status W | | | Proposed I | Response | Response Status W | | |
| PROPOSED ACCEPT | Response Status W | | | PROP | OSED ACCEPT. | | | |
| | P188 | 10 | # [. cc | C/ 170 | SC 170.4.4.2 | P191 | L 29 | # I-56 |
| | | L 9 | # I-55 | Ran, Adee | | Cisco Syster | ns, Inc. | |
| Ran, Adee | Cisco System | ns, Inc. | | Comment | Туре т | Comment Status D | | (bucket1) |
| Comment Type T "The following are the | Comment Status D major concepts of the 800GM | /11:" | (bucket1) | PICS i | tems PL2 through | PL13 refer to 170.1.7 but t | here is no corres | ponding text there. |
| But the list discusses | both the 800GMII and the RS | | | | xt in 170.1.7 refer | s back to 81.1.7 for these fued in the PICS. | unctions, with an | exception for EEE and |
| SuggestedRemedy | | | | Hoving | dotailed DICS it | ems when the text is just a r | roforonoo io not h | oloful The EEE/LDI |
| Change "800GMII" to | "800GMII and RS". | | | | ion should be not | | elerence is not n | |
| Proposed Response | Response Status W | | | | | | | |
| PROPOSED ACCEPT | Г. | | | | | where multiple items refer to has an exception for EEE/L | | 170.4.4.4 and |
| C/ 170 SC 170.1.2 | P188 | L 29 | # I-103 | Suggested | Remedy | | | |
| Dawe, Piers J G | NVIDIA | | | | | 9 with a single item "Primit | ives mapped as | specified in 81.1.7 |
| Comment Type T | Comment Status D | | MII | except | for EEE and LPI | ', 170.1.7, MII:M. | | |
| This says "This logica | l interface [the 800GMII] is us | ed to provide me | edia independence so | Apply : | similarly in other t | ables including the exception | on where appropr | riate. |
| | a access controller may be us | | | Proposed I | Response | Response Status W | | |
| | lence; the common PCS and I s controller to be used with dif | | | PROP | OSED REJECT. | | | |
| used. This is unlikely. | . The real reason has already Il interface, it is used in this sta | been stated in | 170.1: "Though the | | | rect and unambiguous as w ccuracy or clarity of the draf | | sed changes do not |
| SuggestedRemedy | | | | | | | | |
| As it is not inaccurate | and not needed, delete the se | entence | | | | | | |
| Proposed Response | Response Status W | | | | | | | |
| The intent and presen | s been repeated in each xMII ce of the sentence is importants to be identical for any PHY | nt as it highlights | s the common 800GMII | | | | | |
| | | | | | | | | |

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

C/ 170 SC 170.4.4.2 Page 19 of 34 9/1/2023 4:56:21 PM

| C/ 171 | SC 171.1.1 | P195 | L 39 | # I-104 | C/ 171 | SC 1 |
|-----------------|--|--|------------------|-----------------------|--|----------------------------|
| Dawe, Pie | ers J G | NVIDIA | | | Ran, Adee | |
| Comment | Туре Е | Comment Status D | | (bucket1) | Comment 7 | Гуре |
| might but wi | be that an 800G> th modification(s) | es all functions in the 800GB (S uses them, or that its func . I see the word in 118.1.1; it are not quite identical. | tions are based, | more or less, on them | The PH The PC directio which is | CS specton, after s +/- 50 |
| Suggested | dRemedy | | | | 172.2.5 | 5.10) idl |
| Chang | ge "leverages all f | unctions in" to "has the same | e functions as". | | For the | PHY 8 |
| Proposed | Response | Response Status W | | | and ad | ds them |
| PROF | OSED ACCEPT. | | | | Since t | he idle |
| C/ 171 | SC 171.2 | P195 | L 46 | # I-105 | 800GX | S has n |
| Dawe, Pie | ers J G | NVIDIA | | | The pro | blem is |
| Comment | | Comment Status D | | FEC degrade | AMs, th nomina | 0 |
| there's | s no difference be | ed that FEC degrade is option stween the DTE 800GXS and 200G and 400G XS) seems t | the 800GBASE-I | R PCS. FEC degrade | 800GX be une synchro | S. It me xpected |

signalling in 118.2.1 (200G and 400G XS) seems to apply, but it's not an exception, and 118.2 is referenced 171.6. We need 172.2.5.3, Reed-Solomon decoder, with the two flows. More references could be useful, somewhere, as the information seems to be scattered between 118, 119, 171 and 172. I wonder if tx_am_sf should get a mention somewhere.

SuggestedRemedy

Delete "with the exception that the FEC degrade signaling is defined in 118.2.1"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Implement the suggested remedy with editorial license. See also comment #I-3.

| C/ 171 S | C 171.3 | P195 | L 8 | # I-78 |
|--------------|---------|------------------|------------|----------|
| Ran, Adee | | Cisco System | ns, Inc. | |
| Comment Type | TR | Comment Status D | | MII rate |

The PHY 800GXS is specified identically to the PCS with inverted transmit and receive. The PCS specification includes insertion and deletion of alignment markers. In the transmit direction, after AM insertion the signaling rate is governed by the AUI frequency range, which is +/- 50 ppm. In the receive direction the idles are removed, and _optionally_ (per 172.2.5.10) idles are inserted to compensate.

For the PHY 800GXS, the directions are reversed: it removes AMs in the transmit direction and adds them in the receive direction.

Since the idle insertion in the receive direction by the PCS is optional, and the PHY 800GXS has no exception, the PHY 800GXS is allowed not to insert idles.

The problem is that if the PHY 800GXS does not insert idles to compensate for removal of AMs, the signaling rate at the 800GMII below the PHY 800GXS will be lower than the nominal 800 Gb/s by 49 ppm, and will be different from that of the 800GMII above the DTE 800GXS. It means that the 800GMII Extender changes the rate of the 800GMII. This would be unexpected and architecturally unclean: for example, if stations are connected with synchronous clocking, the frequency difference would accumulate.

Additionally, unless the PCS (below the 800GXS) artificially increases the signaling rate back, this offset consumes 49 out of the 50 ppm that the PMD is allowed to have. This is undesirable.

To prevent the problems above it should be required that a PHY 800GXS inserts idles to compensate for AM removal in the transmit direction. Similarly, an 800GBASE-R PCS that has a PHY 800GXS as its client should be required to insert idles to compensate for AM removal in the receive direction. In both cases, functionally equivalent implementations should be allowed.

SuggestedRemedy

In 171.3, add another item to the list of exceptions:

"A PHY 800GXS is required to maintain the original data rate at the 800GMII despite the deletion of alignment markers in the transmit direction. This is done by Insertion of idle control characters or functionally equivalent behavior".

In 172.2.5.10, add the following paragraph:

"If the client of the PCS is a PHY 800GXS, the PCS is required to maintain the original data rate at the 800GMII despite the deletion of alignment markers in the receive direction. This is done by insertion of idle control characters or functionally equivalent behavior".

Proposed Response Response Status W

PROPOSED REJECT. For task force discussion. [Editor's note: CC: 171, 172]

| TYPE: TR/technical required ER/editorial required GR/gener | al required T/technical E/editorial G/general | C/ 171 |
|--|--|----------|
| COMMENT STATUS: D/dispatched A/accepted R/rejected | RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn | SC 171.3 |
| SORT ORDER: Clause, Subclause, page, line | | |

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| C/ 171 SC 171.3 | P 196 | L 8 | # I-106 | C/ 171 | SC 171.3.3 | P 198 | L 36 | # I-5 |
|---|--|---|--|-------------------------------------|--|--|--|--|
| Dawe, Piers J G | NVIDIA | | | Brown, M | atthew | Alphawave | | |
| Comment Type T | Comment Status D | | FEC degrade | Comment | Type E | Comment Status D | | (bucket1) |
| there's no difference b *signalling* in 118.2.2 118.2 is referenced 17 flows. More reference | eed that FEC degrade is optic between the DTE 800GXS and (200G and 400G XS) seems 71.6. We need 172.2.5.3, Ree es could be useful, somewhere 8, 119, 171 and 172. I wonde | I the 800GBASE to apply, but it's ed-Solomon dec e, as the informa | E-R PCS. FEC degrade not an exception, and oder, with the two ation seems to be | <i>Suggestee</i> Chang To "80 | dRemedy ge "Media Indepo 00GMII" | fined previously in the claus | | spell it out here. |
| somewhere. | | | 0 | | Response | Response Status W | | |
| SuggestedRemedy | | | | PROF | OSED ACCEPT | • | | |
| Delete the line " FEC | C degrade signaling is defined | in 118.2.2." | | C/ 171 | SC 171.6 | P 12 | L 12 | # I-3 |
| Proposed Response | Response Status W | | | Brown, M | atthew | Alphawave | | |
| PROPOSED ACCEP | | | | Comment | Type E | Comment Status D | | FEC degrade |
| Implement the sugges See also comment #I- C/ 171 SC 171.3.2 | sted remedy with editorial licer -3. | L 18 | # [-57 | PCS t of ser | to snoop signals iding signals usi | ade (local and remote) as c in the other sublayer rather ng the inter-sublayer service | than using the mo interface. This m | ore conventical method akes it hard to trace the |
| _ | | - | π [-57 | | ling between sub ame to the PHY 2 | layers and to abstract that s | signaling so that d | ifferent PCS types looks |
| Ran, Adee | Cisco System | is, inc. | (buoleat1) | | | | | |
| Comment Type E | Comment Status D | a designated D | (bucket1) | Suggestee | - | ada aignaling hatusan auhl | over ouch that it | |
| this draft, e.g. Figures Annex 173A | existing standard the PMAs and the PMAs an | 171–3, Figure | 173–2, and all figures in | on the | | ade signaling between suble erface rather than signals w be provided. | | |
| | f clauses 171 and 173 the PM , and in the PICS (173.7.3) the | | | PROF | Response POSED ACCEPT ng review of the | Response Status W IN PRINCIPLE. consensus presentation. | | |
| Consistency is prefera | able. | | | C/ 172 | SC 172.1.2 | P 206 | L12 | # <mark>I-58</mark> |
| SuggestedRemedy | | | | Ran, Ade | е | Cisco Syste | ems, Inc. | |
| In clauses 171 and 17 | ' 3: | | | Comment | Туре Т | Comment Status D | | (bucket1) |
| | | | | | | ationship of 800GBASE-R to | o other standards | - but the text is specific |
| | of "32:8 PMA" to "PMA(32:8)" of "8:32 PMA" to "PMA(8:32)" | | | to the | PCS. | | | |
| 5 | of "8:8 PMA" to "PMA(8:8)". | | | Suggestee | | | | |
| | | | | Chang | ge the title to "Re | elationship of the 800GBASI | E-R PCS to other | standards". |
| Add the missing parer | ntheses in the PICS. | | | Proposed | Response | Response Status W | | |
| Also, change bare ins (e.g. some instances | tances of "8:8", "32:8", "8:32" in 173.2 and 173.3). | to "PCS(8:8)" ef | c., where appropriate | PROF | POSED ACCEPT | | | |
| Proposed Response | Response Status W | | | | | | | |
| PROPOSED ACCEP For task force discuss | - | | | | | | | |
| | ed ER/editorial required GR/ ispatched A/accepted R/reje | | | | d U/unsatisfied | C/ · Z/withdrawn SC · | 172 172.1.2 | Page 21 of 34 9/1/2023 4:56:22 |

SORT ORDER: Clause, Subclause, page, line

e 21 of 34 023 4:56:22 PM

| Dawe, Piers J G <i>Comment Type</i> TR There is an informative An examples. <i>SuggestedRemedy</i> As the Clause 172 PCS is markers and the block dist flow method, there are new won't catch. So, please pr beginning of 172 and 169. 14. Please prepare a plain-tex | subtly different to Clause tribution and synchronised w opportunities for ambigu repare a similar annex for | 119, with partly alignment mark | different alignment |
|---|---|---|---|
| There is an informative An examples. SuggestedRemedy As the Clause 172 PCS is markers and the block dist flow method, there are new won't catch. So, please pr beginning of 172 and 169. 14. Please prepare a plain-tex | nex 119A, 200GBASE-R a subtly different to Clause tribution and synchronised w opportunities for ambigu repare a similar annex for | 119, with partly alignment mark | -R PCS FEC codeword |
| examples. SuggestedRemedy As the Clause 172 PCS is markers and the block dist flow method, there are new won't catch. So, please pri beginning of 172 and 169. 14. Please prepare a plain-tex | subtly different to Clause tribution and synchronised w opportunities for ambigu repare a similar annex for | 119, with partly alignment mark | different alignment |
| As the Clause 172 PCS is markers and the block dist flow method, there are new won't catch. So, please pu beginning of 172 and 169. 14. Please prepare a plain-tex | tribution and synchronised w opportunities for ambigu repare a similar annex for | l alignment mark | |
| markers and the block disi flow method, there are new won't catch. So, please pr beginning of 172 and 169. 14. Please prepare a plain-tex | tribution and synchronised w opportunities for ambigu repare a similar annex for | l alignment mark | |
| flow method, there are new won't catch. So, please pl beginning of 172 and 169. 14. Please prepare a plain-tex | w opportunities for ambigu | • | or aroune of the two |
| beginning of 172 and 169. 14. Please prepare a plain-tex | | | erstanding that 119A |
| Please prepare a plain-tex | | | |
| | t file with the large tables f | for convenient re | eading into a program. |
| and post it on the project v | veb site for review with fut | | 3 1 1 1 3 1 |
| Proposed Response | Response Status W | | |
| PROPOSED REJECT. | d would be an improvemen | at to the draft. U | lowover a contribution |
| | | | |
| C/ 172 SC 172.2.4.1 | P 211 | L10 | # I-61 |
| Ran, Adee | Cisco System | is, Inc. | |
| Comment Type E | Comment Status D | | (bucket1) |
| The subclause title "Encoo "encoder". | de" does not match the sul | bordinate subcla | ause titles which use |
| | 1. 170.0.1.0 | | |
| Also, "Encode" is also use | d in 172.2.4.8, a more spe | ecific term would | l better de used here. |
| Similarly in 172.2.5.9, "De | code". | | |
| SuggestedRemedy | | | |
| | | | |
| Proposed Response | Response Status W | | |
| change title of 172.2.4.1 to | 64B/66B encoder" | | |
| | | | |
| | | | Page 22 of 34 9/1/2023 4:56:22 |
| | providing a complete proprequired. Cl 172 SC 172.2.4.1 Ran, Adee Comment Type E The subclause title "Encoor" "encoder". Also, "Encode" is also use Similarly in 172.2.5.9, "De SuggestedRemedy Change the title of 172.2.4 Change the title of 172.2.5 Proposed Response P PROPOSED ACCEPT IN change title of 172.2.5.9 to | providing a complete proposal including values for the required. CI 172 SC 172.2.4.1 P211 Ran, Adee Cisco System Comment Type E Comment Status D The subclause title "Encode" does not match the su "encoder". Also, "Encode" is also used in 172.2.4.8, a more spectime of the title of 172.2.4.1 to "66-bit block decode Similarly in 172.2.5.9, "Decode". SuggestedRemedy Change the title of 172.2.4.1 to "66-bit block decode Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. change title of 172.2.5.9 to "64B/66B encoder" change title of 172.2.5.9 to "64B/66B decoder" | Cl 172 SC 172.2.4.1 P211 L10 Ran, Adee Cisco Systems, Inc. Comment Type E Comment Status D The subclause title "Encode" does not match the subordinate subcla" encoder". Also, "Encode" is also used in 172.2.4.8, a more specific term would Similarly in 172.2.5.9, "Decode". SuggestedRemedy Change the title of 172.2.4.1 to "66-bit block encoder". Change the title of 172.2.5.9 to "66-bit block decoder". Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. change title of 172.2.5.9 to "64B/66B encoder" change title of 172.2.5.9 to "64B/66B decoder" |

9/1/2023 4:56:22 PM

| C/ 172 SC 172.2.4.1 P211 L11 # 1-108 | C/ 172 SC 172.2.4.5 P212 L19 # 1-110 |
|---|--|
| Dawe, Piers J G NVIDIA | Dawe, Piers J G NVIDIA |
| Comment Type E Comment Status D (| ucket1) Comment Type TR Comment Status D scramb |
| Mixed parts of speech: Encode, State-diagram encoder, Stateless encoder, Rate ma Block distribution, 64B/66B to 256B/257B transcoder and so on | understand the importance of this. The consequence of getting it wrong is much more that |
| SuggestedRemedy | the bad spectrum or correlation issues we have seen elsewhere. |
| Change the odd one out: change Encode to Encoder. Similarly in the title of 172.2.5 change Decode to Decoder. | 9, SuggestedRemedy Change should to shall or is. |
| Proposed Response Response Status W | Add a sentence: This is because before the link can carry traffic, the 66-bit blocks in the |
| PROPOSED ACCEPT IN PRINCIPLE. | two flows have the same content |
| Resolve using the response to comment #I-61. | Proposed Response Response Status W |
| C/ 172 SC 172.2.4.1.1 P211 L19 # [-109 | PROPOSED ACCEPT IN PRINCIPLE. The comment proposes to make initializing the scrambler to two different states mandator |
| Dawe, Piers J G NVIDIA | while comment #I-62 proposes to add a note explaining the consequences of the scramble |
| Comment Type E Comment Status D Encoder | being initialized in the same state. |
| "state-diagram decoder" (a tool to understand state diagrams) is something I would | |
| have. Would a "state-diagram encoder" turn a state diagram into code? That would | be C/ 172 SC 172.2.4.5 P212 L19 # [<u>-62</u> |
| useful. If the alternative encoder needs to know the previous block as well as the or encoding, calling it "stateless" is borderline; if it were, we would call the first one "sta | |
| So these names are not ideal. They could be seen as "original" and FEC-enabled". | Comment Type T Comment Status D scramb |
| uggestedRemedy | The recommendation to "set to different states" deserves further explanation. |
| Change to "Method A", "Method B" as we did for the 10G eye mask, unless someon | has a SuggestedRemedy |
| | |
| better suggestion. | Add the following paragraph at the end of 172.2.4.5: |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. | Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane muxing, this can create atypical sequences on the PMA output". |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane muxing, this can create atypical sequences on the PMA output". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane muxing, this can create atypical sequences on the PMA output". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-110. |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane muxing, this can create atypical sequences on the PMA output". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-110. L35 # I-111 |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane muxing, this can create atypical sequences on the PMA output". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-110. Cl 172 SC 172.2.4.6 P212 L35 # I-111 Dawe, Piers J G NVIDIA |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane muxing, this can create atypical sequences on the PMA output". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-110. Cl 172 SC 172.2.4.6 P212 L35 # [-111 Dawe, Piers J G NVIDIA Comment Type E Comment Status D alignment markers (bucket In "and finally a unique pad per PCS lane", "finally" is unfortunate or incorrect, as the UF |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane muxing, this can create atypical sequences on the PMA output". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-110. Cl 172 SC 172.2.4.6 P212 L35 # [-111 Dawe, Piers J G NVIDIA Comment Type E Comment Status D alignment markers (bucket In "and finally a unique pad per PCS lane", "finally" is unfortunate or incorrect, as the UP don't come last. As it is only rhetorical, it can be left out. SuggestedRemedy Delete "finally" |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: ity of Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane muxing, this can create atypical sequences on the PMA output". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-110. Cl 172 SC 172.2.4.6 P212 L35 # [-111 Dawe, Piers J G NVIDIA Comment Type E Comment Status D alignment markers (bucket In "and finally a unique pad per PCS lane", "finally" is unfortunate or incorrect, as the UP don't come last. As it is only rhetorical, it can be left out. SuggestedRemedy SuggestedRemedy |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane muxing, this can create atypical sequences on the PMA output". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-110. Cl 172 SC 172.2.4.6 P212 L35 # [-111 Dawe, Piers J G NVIDIA Comment Type E Comment Status D alignment markers (bucket In "and finally a unique pad per PCS lane", "finally" is unfortunate or incorrect, as the UP don't come last. As it is only rhetorical, it can be left out. SuggestedRemedy Delete "finally" Proposed Response Response Status W |
| better suggestion. Proposed Response Response Status W PROPOSED REJECT. The proposed changes would not result in an obvious improvement to the overall cla | Add the following paragraph at the end of 172.2.4.5: Add the following paragraph at the end of 172.2.4.5: NOTEif the two scramblers have the same state and the same input (e.g., encoded remote fault signal), their outputs will be identical. With specific choices of PMA lane muxing, this can create atypical sequences on the PMA output". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-110. Cl 172 SC 172.2.4.6 P212 L35 # [-111] Dawe, Piers J G NVIDIA Comment Type E Comment Status D alignment markers (bucke In "and finally a unique pad per PCS lane", "finally" is unfortunate or incorrect, as the UP don't come last. As it is only rhetorical, it can be left out. SuggestedRemedy Delete "finally" Proposed Response Response Status W PROPOSED ACCEPT. Cl 172 Page 23 of 34 |

| C/ 172 | SC 172.2.4.6 | P 212 | L 36 | # I-112 |
|------------|---------------|------------------|-------------|-------------------|
| Dawe, Pier | s J G | NVIDIA | | |
| Comment 7 | Гуре т | Comment Status D | | alignment markers |

119.2.6 says what to do with the common marker and unique marker portion of the alignment block but doesn't mention the unique pads. As they have so many different values, it is fair to assume they have some purpose. The reader can't know if there is a defect in the spec, or he overlooked something.

More detail: 172.2.4.6, Alignment marker mapping and insertion, incorporates 119.2.4.4, Alignment marker mapping and insertion, with exceptions. 119.2.4.4 is part of 119.2.4, Transmit. It says "The unique pad (UP0 to UP2) within the alignment markers and the PRBS9 pad at the end of the alignment maker group are ignored on receive."

172.2.5, Receive function > 172.2.5.1, Alignment lock and deskew, points to 119.2.5, Receive function. 119.2.5.1, Alignment lock and deskew, uninformatively says "It obtains lock to the alignment markers as specified by the alignment marker lock state diagram shown in Figure 119-12." 119.2.6.2.2, Variables, refers back to 119.2.4.4. I did not find anything more about the unique pads in the standard. But see anslow_03_0416_logic.

SuggestedRemedy

Please add a few words here explaining why the unique pads are present, such as "The unique pads are remnants of the BIP fields used in the Clause 82 PCS where some PHY types did not use RS-FEC. They are ignored on receive."

Please add a sentence in 172.2.5.1: "Within the alignment block, the common marker (CM) portions are used for synchronising, the unique markers (UM) for identifying PCS lanes, and the unique pads (UP) are ignored."

Proposed Response Response Status W

PROPOSED REJECT.

Subclause 172.2.4.6 specifies alignment markers according 119.2.4.4 with some listed exceptions.

Specifications in 802.3 do not typically provide detailed rationale for each of choices made in the specifications. Instead, it provides all of the necessary detail to allow a designer to implement a compliant solution.

The specifications of the alignment markers including the unique pads (UPn) are currently defined with sufficent clarity and accuracy.

The rationale for the unique pad structure is the result of a series of discussions and decisions over several projects. Including this rationale would not improve the technical accuracy and clarity of the standard.

| C/ 172 | SC 172.2.4.6 | P 212 | L 38 | # I-113 |
|-------------|--------------|------------------|-------------|-------------------|
| Dawe, Piers | JG | NVIDIA | | |
| Comment T | ype E | Comment Status D | | alignment markers |

D2.0 comment 105 (accepted in principle): Add an informative NOTE saying what is common among these lanes, what is the same for the two flows, *and what is the same in 400G*.

SuggestedRemedy

To address the last point, please add something that gives the information in shrikhande_3df_01a_221004 slide 13:

CM0-CM5 and UP0-UP2 are unchanged from 400GbE CL119

UM0/UM3 for Flow lanes 0-15 are inverted from 400GbE

UM1/UM2/UM4/UM5 for Flow lanes 16-31 are inverted from 400GbE

e.g.:

NOTE--CM0 to CM5 and UP0 to UP2 are the same as for 400GBASE-R (see Table 119–2). UM1, UM2, UM4, UM5 for flow 0, and UM0 and UM3 for flow 1, are the same as for 400GBASE-R. Other unique markers are bit-wise inversions of the ones in the other flow.

Proposed Response Response Status W

PROPOSED REJECT.

The 802.3 standard does not typically provide rationale for specifications or provide comparisons with other rates or physical layer implementations. This requested changes are not necessary to ensure a interoperable interface for 800 Gb/s Ethernet. The proposed changes do not improve the clarity or accuracy of the draft.

| C/ 172 | SC 172.2.4.6 | P 213 | L 8 | # <mark>I-114</mark> |
|-------------|--------------|------------------|------------|----------------------|
| Dawe, Piers | JG | NVIDIA | | |
| Comment Ty | vpe E | Comment Status D | | (bucket1) |

In the text above, CM0 to CM5, UM0, UP0 and so on are in regular text while in the tables, the numbers are subscripts. This should be made consistent. In spite of their use in clauses 82 and 119, the subscripts are inconvenient and not necessary.

SuggestedRemedy

Change the subscripts to regular text in these two figures

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Implement suggested remedy with editorial license.

C/ 172 SC 172.2.4.6

| C/ 172 | SC 172.2.4.6 | P 213 | L10 | # I-115 | C/ 172 | SC 172.2 | .4.10 | P 216 | L11 | # <mark>I-116</mark> |
|---------------------------|--|---|-------------------|------------------------------|-----------------------------|-------------------------------|---|---|------------------------------------|--|
| Dawe, Pie | ers J G | NVIDIA | | | Dawe, Pie | ers J G | | NVIDIA | | |
| Comment | Туре Е | Comment Status D | | AM table | Comment | Туре Е | Com | ment Status D | | (bucket) |
| These | | with the file alignmentMark ent markers could be put o .org/downloads/ | | | 256B/ work! | 257B transco | | : "The portion of the ided." Which figure? | | "64B/66B to be excluded, it won't |
| | Remedy | | | | Suggested | - | | | | |
| Pleas conve lane r | e publish a plain-te nient reading into a umber column. Ta | ext file with the alignment m a program. One table for a ab delimited, 0x format, as eview with future drafts. | l 32 rows x 15 c | olumns, no header or | Figure 256B/ | 6-bit block di | ach flow dire der" is not u | ctly, and the portion | | 56B/257B transcoder of above the "64B/66B to |
| roposed | Response | Response Status W | | | | POSED ACC | • | | | |
| PROF | OSED ACCEPT I | N PRINCIPLE. | | | | | | dy with editorial lice | nse. | |
| | | ne commenter is provided h /3/df/comments/D3p0/I-115 | | erTable.txt | C/ 172 | SC 172.2 | .4.11 | P 216 | L 43 | # I-117 |
| | | rencing the text file, using t | he reference to t | he SSRPQ file in IEEE | Dawe, Pie | ers J G | | NVIDIA | | |
| | | 1.2.3 as a template. hed the text file will be posted | ed on the IEEE v | veb site and the URL | Comment | Туре Е | Com | ment Status D | | (bucket |
| updat | | | | | "is acc | cessible thro | ugh the regis | ter": which register? | | |
| / 172 | SC 172.2.4.6 | P 213 | L 32 | # 1-63 | Suggested | dRemedy | | | | |
| Ran, Ade | 9 | Cisco Systen | ns. Inc. | | is acc | essible throu | gh the BASE | -R PCS test-pattern | control register | 3.42.3 |
| comment | | Comment Status D | -, - | AM octet order | Proposed | Response | Resp | onse Status 🛛 🛛 🛛 🛛 🛛 🖉 | | |
| Table The tr Simila | 172-2 Footnote a | states "Each octet is transn octets should also be state | | B". | The re "If a C the re | gister as sho | t is as follow IO is implem wn in Table | nented, then the tx_te 172-5." | _ | le is accessible through rmation for the variable |
| Insert tables | | nitted from CM0 to UM5. " a | it the beginning | of the footnote, in both | tx_tes registe | t_mode. No er/bit is alrea | urther inform dy provided i | nation is required. Si n the table, the addr | nce the mapping ess need not be | of the variable to a repeated in 172.2.4.11. |
| | Response | Response Status W | | | C/ 172 | SC 172.2 | | P 216 | L 44 | # I-118 |
| | OSED REJECT. | sertion is fully described in | 172 2 4 6 which | references 110.2.4.4 | Dawe, Pie | ers J G | | NVIDIA | | |
| | g this extra bit of ir | nformation to the note unde | | | Comment Table | Type E | Com | ment Status D | | (bucket |
| | | | | | Suggested | dRemedy | | | | |
| | | | | | This is | s not a hotlin | κ. | | | |
| | | | | | Proposed | Response | Resp | onse Status W | | |
| | | | | | | POSED ACC | | ICIPLE. ive cross-reference. | | |
| | | | | | | | | | | |
| PE: TR | /technical required | ER/editorial required GR/ | general required | I T/technical E/editorial G/ | general | | | C/ 17 | 72 | Page 25 of 34 |

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 172.2.4.11 9/1/2023 4:56:22 PM SORT ORDER: Clause, Subclause, page, line

| C/ 172 | SC 172.2.4.11 | P 216 | L 53 | # I-142 | C/ 172 | SC 172.2.5.2 | P 217 | L 3 | # I-120 |
|------------------|-------------------------------|---|-----------------------|-----------------------|-----------------------------|----------------------------------|--|---------------------|-----------------------------------|
| Slavick, Jo | eff | Broadcom | nc | | Dawe, Pie | rs J G | NVIDIA | | |
| Comment | Type TR | Comment Status D | | (bucket1) | Comment | Туре Т | Comment Status D | | PCS lanes wording |
| differe | ent than the require | out the explicit amount of s ement for an 800G system | kew the PCS mus 1. | t tolerate which is | origina | ally transmitted." | eived on different lanes of t They aren't usually receive Ismitted, that's loopback. I | d on the service i | nterface from which |
| | new exception: | riation requirements are a | notified in Table 1 | co E and Table 1co c | | | on. Also, the PCS transmit | | |
| | Response | riation requirements are s | | 09-5 and Table 109-0. | Suggested | Remedy | | | |
| , PROP | , POSED ACCEPT | Response Status W IN PRINCIPLE. onse to comment #I-119. | | | | to that at the PMA | d at a PCS with the PCS la A service interface below th | | |
| C/ 172 | SC 172.2.5.1 | P 216 | L 54 | # I-119 | Proposed | Response | Response Status W | | |
| Dawe, Pie | ers J G | NVIDIA | | | - | OSED ACCEPT | - | ana af tha ann is | |
| Comment | Type TR | Comment Status D | | (bucket1) | | ere originally trar | an be received on different insmitted." | anes of the servic | ce interface from which |
| There | is a new exception | n for the alignment lock a | nd deskew process | 6 | To: "T | he PCS lanes mig | ght be received in any orde | r on the PMA ser | vice interface lanes." |
| Suggested | dRemedy | | | | C/ 172 | SC 172.2.5.2 | P 217 | L10 | # I-121 |
| | | receive function shall sup | port a maximum S | kew of 152 ns between | Dawe, Pie | rs J G | NVIDIA | | |
| PCS la (Edito | | ame, this should be tolerat | e.) | | Comment | Туре Т | Comment Status D | | (bucket1 |
| Proposed | Response | Response Status W | , | | | riginal stream of t | wo FEC codewords" - there | e are many codew | vords, but two FEC |
| | OSED ACCEPT new exception: | IN PRINCIPLE. | | | Suggested | Remedy | | | |
| "The r | maximum Skew is | changed from 180 ns to 1 | 52 ns" | | Chang | e to: the original | two streams of FEC codew | rords | |
| | | | | | Proposed PROP | Response OSED ACCEPT. | Response Status W | | |
| | | | | | C/ 172 | SC 172.2.5.9 | P 217 | L 49 | # I-122 |
| | | | | | Dawe, Pie | ers J G | NVIDIA | | |
| | | | | | Comment The re 172.2. | eceive PCS shall | Comment Status D use the decoding method d | efined in either 17 | <i>(bucket1)</i> 72.2.5.9.1 or |
| | | | | | Suggested | lRemedv | | | |
| | | | | | | | | | |
| | | | | | | ceive PCS shall (72.2.5.9.2. | use one of the two decodin | g methods that ar | re defined in 172.2.5.9.1 |
| | | | | | | 72.2.5.9.2. | use one of the two decodin Response Status W | g methods that ar | e defined in 172.2.5.9.1 |

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| 172 | SC 172.2.6.2 | 4 P 220 | L 9 | # I-80 | Cl 172 | SC 172.5 | | P 223 | L 50 | # I-64 |
|--|--|---|------------------|-------------------|---|---|--|---|---|---|
| psasnick, E | ugene | Broadcom Inc. | | | Ran, Adee | | | Cisco Systen | ns, Inc. | |
| omment Typ | be TR | Comment Status D | | counters | Comment 7 | Type ER | Comment S | tatus D | | numbers (bucket1) |
| | | the counters for 800GBASE-F GBASE-R PCS. | R PCS use the | same values as | "640 00 | 00" | | | | |
| count the | appropriate n | is used in Figure 119-12 "Alig umber of FEC codewords betv Gb/s and 8192 for 400Gb/s as | veen alignment | markers. This | within t | ables. There i | is no need to use i | t in text and i | t adds no clarity. | specified for numbers |
| | | ng between alignment markers | • | | | rd and should | | | | |
| | | shrikhande_3df_01a_221004. | | | Suggested | Remedy | | | | |
| uggestedRe | emedv | | | | Change | e "640 000" to | o "640000". | | | |
| | he wording in | 172.2.6.2.4 | | | Proposed F | Response | Response St | atus W | | |
| to: "The cour with the fo amp_cou | nters are the s ollowing excep unter | | 19.2.6.2.4 for t | ne 400GBASE-R PCS | Note th 167.3.1 The gu excepti cases r The pro | idance from th ons, e.g., wh noted in the co | other similar instan he publication editu here the readability omment and in this ge is not consistent | ors is that tho is compromi s response al | ousands separate sed. Readability bove. | 68" in 124.3.1 and or is required with some r is not an issue for the |
| | | ounts the interval of 16,384 FE ad sequences for the 800GBA | | ontaining normal | C/ 172 | SC 172.7.4 | 4 | P 226 | L 22 | # <u>1</u> -65 |
| roposed Res | sponse | Response Status W | | | Ran, Adee | | | Cisco Systen | ns, Inc. | |
| | | IN PRINCIPLE. | | | Comment 7 | Гуре Е | Comment Si | tatus D | | (bucket1) |
| | nt the suggestent nt with editoria | ed remedy except use "16 384 I license. | " instead of "16 | 5,384". | | | fer to subclauses i to clause 119. | n 172 for feat | tures that are not | t explicitly specified |
| | | | | | Suggested | Remedy | | | | |
| | | | | | 119, cc | | ing these items wit | 0 | | refers back to clause the sucblause in clause |
| | | | | | Proposed F | Response | Response St | atus W | | |
| | | | | | To be or rather t | consistent, it is han Clause 1 e items togeth | 19. However, it do | to point to the | necessary or pra | auses in Clause 172 actical to collapse ical clarity or accuracy |

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

SC 172.7.4

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| C/ 173 | SC 1 | 73.1.3 | P 231 | L13 | # I-123 | C/ 173 | 30 1 | 173.4.1 | r | ^{>} 234 | L35 | # I-66 |
|---------------------|---|------------|---|---------------------|----------------------|--------------------|-----------|--------------------------|---|---------------------|-------------------|---|
| Dawe, Pie | rs J G | | NVIDIA | | | Ran, Adee | | | Cis | co System | s, Inc. | |
| Comment | Туре | Е | Comment Status D | | squelch (bucket1) | Comment | Гуре | т | Comment State | us D | | test patterns |
| in the | overviev | v and in 1 | le behaviour, the optional so 73.2 PMA service interface cognise it. | | | | | | in Figure 173-3 a | | - | nt places. bols and then driven by |
| useu s Suggested | | | ognise it. | | | | | | . It should go into | | | |
| Opti | onally ir | dicate st | functions, add a row: atus by disabling (squelchin 8, add sentences "The 8:32 | | | | e/CDR". | | erates on a bit stro | eam, so sh | ould take the ou | tput of "PAM4 |
| 173.5. | 8.2). "T | he 8:8 Pl | client by disabling (squelch MA optionally provides signa a lane or lanes (see 173.5.8) | al status informati | | | | ding to "S /CDR box | | nation from | the CDR. It sho | uld be taken from the |
| Proposed | Respon | se | Response Status W | | | Similar | ly in Fig | gure 173-4 | 4 and Figure 173- | 5. | | |
| - | | | IN PRINCIPLE. | | | Suggested | Remedy | V | | | | |
| | | | out disable (squelch) is one | | | Modifie | ed figure | es will be | supplied | | | |
| | | | | iggested in this hi | gii-lever Summary of | Proposed I | Respons | se | Response Statu | ıs W | | |
| (173.2 In 173 | status information". Providing the extra detail as suggested in this high-level "Summary of functions" in 171.1.3 is not warranted. However, providing the additional sentences to the service interface defination sections (173.2 and 173.3) would be an improvement to the draft. In 173.2 page 233 line 7 add the following sentence to end of the third parapgraph: "The 8:32 and 8:8 PMAs may optionally priovide signal status information to the PMA | | | | | Some | updates | s to the dia | IN PRINCIPLE. agram are warran to address this. | ted. | | |
| client | by disal | oling (squ | elching) one or more of the | PAM4 symbol st | eams sent to the PMA | C/ 173 | SC 1 | 173.4.1 | ŀ | ^{>} 234 | L 35 | # I <u>-141</u> |
| | | | TA_0:7.indication), see 173 32 add the following new pa | | .8.3. | Slavick, Je | ff | | Bro | badcom Inc | ; | |
| | | | sublayer below the PMA is | | 8:8 PMA may | Comment | Гуре | т | Comment State | us D | | test patterns |
| | | | I status information by disal sent to the sublayer below (| | | The do | tted arro | ows in Fig | gure 173-3, Figure | 173-4 and | l Figure 173-5 ai | ren't accurately placed. |
| 173.5. | , | streams | sent to the sublayer below (| PINIA.15_UINITDA | TA_0.7.1equest), see | Suggested | Remedy | V | | | | |
| Impler | nent wit | h editoria | l license. | | | Shift th encode | e and sig | d arrow(s) gnal drive | | U | | go into the PAM4 the PAM4 decode and |
| | | | | | | CDR b Shift th | | d arrow(s) |) going to the SIL | to come fro | om the PAM4 de | code and CDR box |
| | | | | | | Proposed I | Respons | se | Response Statu | ıs W | | |
| | | | | | | | | | IN PRINCIPLE. | #I-66. | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

C/ 173 SC 173.4.1

| C/ 173 | SC 173.4.3 | P 237 | L 46 | # I-124 |
|-----------|---------------|------------------|-------------|-------------------------|
| Dawe, Pie | rs J G | NVIDIA | | |
| Comment | Туре т | Comment Status D | | delay wording (bucket1) |

While an 8:8 PMA is clear and understandable, it seems that at this speed, with PAM4 and equalisation, implementations are typically back-to-back SerDes. This solves the problem of specifying its maximum delay appropriately.

SuggestedRemedy

If the group sees this as an improvement saying that an 8:8 PMA is specified by assuming that it is back-to back 8:32 and 32:8 PMAs, addressing any conflict between this and 173.5.2.3 restricted bit muxing.

Proposed Response Response Status W

PROPOSED REJECT.

The 8:8 PMA is distinctly different from a back-to-back 8:32 PMA and 32:8 PMA. For instance, there is an explicit rule that groups of PCS lanes on each physical lane remain together through the PMA. The latency concern can more easily be addressed, if necessary, by increasing the specified value for the 8:8 PMA.

| C/ 173 S | C 173.5.2.1 | P 238 | L 20 | # I-125 |
|---------------|-------------|------------------|-------------|-----------|
| Dawe, Piers J | G | NVIDIA | | |
| Comment Type | e E | Comment Status D | | (bucket1) |

"the function": what or which function? Compare lines 31, 39, 46

SuggestedRemedy

Add words such as "bit-level multiplexing" at least here, the first time, and preferably in 173.5.2.2. e.g. "8:32 bit-level multiplexing" would be better. Also at line 31, but maybe that can be "this function".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

In 173.5.2.1

- add the following new paragraph before the first paragraph, "The 32:8 PMA provides bitlevel multiplexing in both the transmit and receive directions."

- change "In the transmit direction, the function is performed" to "In the transmit direction, the bit-level multiplexing function is performed"

- change "In the receive direction, the function is performed" to "In the receive direction, the bit-level multiplexing function is performed"

In 173.5.2.2:

- add the following new paragraph before the first paragraph, "The 8:32 PMA provides bit-level multiplexing in both the transmit and receive directions. "

- change "In the transmit direction, the function is performed" to "In the transmit direction, the bit-level multiplexing function is performed"

- change "In the receive direction, the function is performed" to "In the receive direction, the bit-level multiplexing function is performed"

In 173.5.2.3:

- add the following new paragraph before the first paragraph, "The 8:8 PMA provides bitlevel multiplexing in both the transmit and receive directions."

- change "In the transmit direction, the function is performed" to "In the transmit direction, the bit-level multiplexing function is performed"

- change "In the receive direction, the function is performed" to "In the receive direction, the bit-level multiplexing function is performed"

Implement with editorial license.

C/ 173 SC 173.5.2.1 Page 29 of 34 9/1/2023 4:56:22 PM

| Cl 173 S Ran, Adee Comment Typ | SC 173.5.2.1 | P 238 Cisco System | L 23 | # I-67 | C/ 173 | ~~~ | | | 1.00 | |
|---|------------------------------|--|--|---------------------------------------|-------------------------------|------------------------------|--|--|--|--|
| , | | Cieco Svetom | | | 0/ 1/3 | 30 | 173.5.2.1 | P 238 | L 28 | # <mark>1-68</mark> |
| Comment Typ | | CISCO SYSTEM | s, Inc. | | Ran, Adee | 9 | | Cisco System | is, Inc. | |
| | be E | Comment Status D | | (bucket1) | Comment | Туре | т | Comment Status D | | muxing rules |
| "referencir | ng the functior | nal block diagram shown in | does not soun | d right. | | | | ultiplexed in temporal order v anes from PMA client lanes | | om PMA client lanes i = |
| This appe | ars in 173.5.2. | .1, 173.5.2.2, and 173.5.2.3, | two instances e | ach. | | | | | | |
| SuggestedRei | medy | | | | The cla | arity ai | nd accuracy | of this sentence can be imp | proved. | |
| instances. | | e functional block diagram sh | nown in" to "as s | hown in", in all 6 | Suggested Chang "The fo | je to | - | ultiplexed in temporal order s | such that two bit | s received from two of |
| Proposed Res PROPOSI | sponse ED ACCEPT. | Response Status W | | | the PM | /A clie | | h i=0 to 15 are followed by t | | |
| C/ 173 S | SC 173.5.2.1 | P 238 | L 28 | # I-126 | Proposed I | Respo | nse | Response Status W | | |
| Dawe, Piers J | IG | NVIDIA | | | - | | | N PRINCIPLE. | | |
| Comment Typ | e TR | Comment Status D | | muxing rules | Resolv | /e usin | g the respo | onse to comment #I-126. | | |
| 51 | | ollowed by two lanes from | ." isn't right. Lar | 0 | C/ 173 | SC | 173.5.2.3 | P 239 | L 22 | # I-127 |
| | | ut cannot follow. | 5 | , , , , , , , , , , , , , , , , , , , | Dawe, Pie | rs J G | | NVIDIA | | |
| SuggestedRei | medy | | | | Comment | Туре | TR | Comment Status D | | muxing rules |
| lanes from PMA clien | | s are multiplexed in tempora anes i = 0 to 15 followed by o to 31. | | | may no of the wordin | ot be s Gray n ig cont | wapped. E napping. "e rary to hous | pping of each bit pair": discu its within pairs may, but this except for possible" reads lik se style, but if the receiver ca | needs more ca e an anti-recom an cope with the | reful definition because mendation in unusual |
| Proposed Res | sponse | Response Status W | | | no poir | nt reco | mmending | the "identical" method over | it. | |
| PROPOSI | ED ACCEPT I | N PRINCIPLE. | | | Suggested | lReme | dy | | | |
| lanes i = 0 To: "Bits f | to 15 followed to the four P | Ls are multiplexed in tempor d by two lanes from PMA clie PCSLs are multiplexed in tem ent lanes i = 0 to 15 followed | ent lanes i = 16 t poral order with | o 31." one bit from each of | "The 4 the Gra | PCSL ay ma | oped PAM4 | on an input lane shall be ma symbol sequence on the ou sequence on the input lane, | utput lane is ider | ntical to the Gray |

PMA client lanes i = 16 to 31."

Implement similar changes in 173.5.2.2 and elsewhere if appropriate. Implement with editorial license.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #I-81.

C/ 173 SC 173.5.2.3

the result equivalent to undoing the Gray mapping function (see 173.5.7.1), swapping the

bits in each pair of bits {A, B} to {B, A}, and Gray mapping to PAM4."

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| W 173 SC 173.5.2.3 P239 L22 # [-81 | C/ 173 SC 173.5.3.2 P239 L44 | # 1-70 |
|---|---|--|
| Cisco Systems, Inc. | Ran, Adee Cisco Systems, Inc. | |
| Comment Type T Comment Status D m | ing rules Comment Type T Comment Status D | (bucket1 |
| The allowed swapping of bit pairs may seem ambiguous to some readers. It can b rephrased to be complete and reduce the risk of misunderstanding. | "the PMA service interface that receives data in the transmit direct maximum amount of Skew Variation" | tion shall tolerate the |
| Alternatively, the option of swapping bits can be removed from the draft; whether i allowed or not in the standard would not matter in practice. If that solution is chose words "except for possible swapping of each bit pair" should be removed. | | see also 173.5.3.4 where |
| | SuggestedRemedy | |
| uggestedRemedy Change from | Delete "service interface". | |
| "such that the Gray mapped PAM4 symbol sequence on the output lane is identical Gray mapped PAM4 symbol sequence on the input lane, except for possible swap each bit pair (see 173.5.7.1)" | | |
| to | C/ 173 SC 173.5.3.3 P239 L53 | # I-128 |
| "such that the Gray mapped PAM4 symbol sequence on the output lane is either i | | |
| to the Gray mapped PAM4 symbol sequence on the input lane, or is the result of s the order of each pair of bits {A, B} to {B, A} in the Gray mapping function (see 173 | apping | skew wording |
| | In these subclauses, skew is generated, produced or delivered. It | is not clear what these |
| roposed Response Response Status W | in these substations, show is generated, produced of delivered. It | |
| PROPOSED ACCEPT IN PRINCIPI E. | terms mean. I believe that all Skew limits are cumulative (unlike for | or delay) which has a |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. | or delay) which has a |
| PROPOSED ACCEPT IN PRINCIPLE. | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy | |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. 7 173 SC 173.5.3.1 P238 L39 # 1-69 | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. | |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. 173 SC 173.5.3.1 P238 L39 # [-69] can, Adee Cisco Systems, Inc. | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here and are. Proposed Response Response Status W | |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. # 1-69 7 173 SC 173.5.3.1 P238 L39 # 1-69 can, Adee Cisco Systems, Inc. * comment Type E Comment Status D sket | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here at are. Proposed Response Response Status W wording PROPOSED ACCEPT IN PRINCIPLE. Vertice in the terms mean. Vertice in the terms mean. | |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. 7 173 SC 173.5.3.1 P238 L39 # [-69] tan, Adee Cisco Systems, Inc. comment Type E Comment Status D ske "shall produce" here, "shall generate" in 173.5.3.3, "shall deliver" in 173.5.3.5 th | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here at are. Proposed Response Response Status W wording PROPOSED ACCEPT IN PRINCIPLE. Vertice in the terms mean. Vertice in the terms mean. | |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. 7 T73 SC 173.5.3.1 P238 L39 # [-69] tan, Adee Cisco Systems, Inc. comment Type E Comment Status D ske "shall produce" here, "shall generate" in 173.5.3.3, "shall deliver" in 173.5.3.5 th all three has "skew generation". | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here at are. Proposed Response Response Status W wording PROPOSED ACCEPT IN PRINCIPLE. Vertice in the terms mean. Vertice in the terms mean. | |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. 7 173 SC 173.5.3.1 P238 L39 # [-69] tan, Adee Cisco Systems, Inc. comment Type E Comment Status D ske "shall produce" here, "shall generate" in 173.5.3.3, "shall deliver" in 173.5.3.5 th | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here at are. Proposed Response Response Status W wording PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-69. | nd what the differences |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. 7 173 SC 173.5.3.1 P238 L39 # [-69] tan, Adee Cisco Systems, Inc. comment Type E Comment Status D skee "shall produce" here, "shall generate" in 173.5.3.3, "shall deliver" in 173.5.3.5 the all three has "skew generation". | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here at are. Wording title of Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-69. C/ 173 SC 173.5.4 P240 L35 | nd what the differences |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. 21 173 SC 173.5.3.1 P238 L39 # [-69] 2an, Adee Cisco Systems, Inc. comment Type E Comment Status D skee "shall produce" here, "shall generate" in 173.5.3.5, "shall deliver" in 173.5.3.5 the all three has "skew generation". In fact, the skew numbers stated are cumulative. | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here and are. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-69. Cl 173 SC 173.5.4 P240 L35 Dawe, Piers J G NVIDIA Comment Type T Comment Status D It would avoid misinterpretation if the words to the effect of delay is | nd what the differences # [<u>-130</u> (bucket1 s the sum of transmit and |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. 21 173 SC 173.5.3.1 P238 L39 # [-69] Ran, Adee Cisco Systems, Inc. Comment Type E Comment Status D ske "shall produce" here, "shall generate" in 173.5.3.3, "shall deliver" in 173.5.3.5 th all three has "skew generation". In fact, the skew numbers stated are cumulative. Since the skew at any point is not necessarily generated at that point, the proper | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here and are. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-69. C/ 173 SC 173.5.4 P240 L35 Dawe, Piers J G NVIDIA Comment Type T Comment Status D It would avoid misinterpretation if the words to the effect of delay is receive delays, were reinstated. 169.4 says it, but it is not referen | nd what the differences # <u>I-130</u> (bucket1 s the sum of transmit and ced here for definitions |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. 7 173 SC 173.5.3.1 P238 L39 # 1-69 tan, Adee Cisco Systems, Inc. comment Type E Comment Status D ske "shall produce" here, "shall generate" in 173.5.3.3, "shall deliver" in 173.5.3.5 th all three has "skew generation". In fact, the skew numbers stated are cumulative. Since the skew at any point is not necessarily generated at that point, the proper requirement seems to be "shall have". | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here and are. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-69. Cl 173 SC 173.5.4 P240 L35 Dawe, Piers J G NVIDIA Comment Type T Comment Status D It would avoid misinterpretation if the words to the effect of delay is | nd what the differences # <u>I-130</u> (bucket1 s the sum of transmit and ced here for definitions between this table and |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. 7 173 SC 173.5.3.1 P238 L39 # [-69] Ran, Adee Cisco Systems, Inc. comment Type E Comment Status D ske "shall produce" here, "shall generate" in 173.5.3.3, "shall deliver" in 173.5.3.5 th all three has "skew generation". In fact, the skew numbers stated are cumulative. Since the skew at any point is not necessarily generated at that point, the proper requirement seems to be "shall have". suggestedRemedy | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here and are. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-69. C/ 173 SC 173.5.4 P240 L35 Dawe, Piers J G NVIDIA Comment Type T Comment Status D It would avoid misinterpretation if the words to the effect of delay is receive delays, were reinstated. 169.4 says it, but it is not referen and it is borderline non-normative "Should there be a discrepancy | nd what the differences # <u>I-130</u> (bucket1 s the sum of transmit and ced here for definitions between this table and |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. A 173 SC 173.5.3.1 P238 L39 # [-69] Ran, Adee Cisco Systems, Inc. Comment Type E Comment Status D ske "shall produce" here, "shall generate" in 173.5.3.3, "shall deliver" in 173.5.3.5 the all three has "skew generation". In fact, the skew numbers stated are cumulative. Since the skew at any point is not necessarily generated at that point, the proper requirement seems to be "shall have". fuggestedRemedy Change all three "shall" statements in the comment to "shall have". W PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here at are. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-69. C/ 173 SC 173.5.4 P240 L35 Dawe, Piers J G NVIDIA Comment Type T Comment Status D It would avoid misinterpretation if the words to the effect of delay is receive delays, were reinstated. 169.4 says it, but it is not referen and it is borderline non-normative "Should there be a discrepancy the delay requirements of the relevant sublayer clause, the sublay | nd what the differences # [-130 (bucket1 s the sum of transmit and ced here for definitions between this table and rer clause prevails." |
| PROPOSED ACCEPT IN PRINCIPLE. Some changes to the wording would be an improvement to the draft. Appropriate changes will be provided in a supporting presentation. A 173 SC 173.5.3.1 P238 L39 # [-69] Ran, Adee Cisco Systems, Inc. Comment Type E Comment Status D ske "shall produce" here, "shall generate" in 173.5.3.3, "shall deliver" in 173.5.3.5 the all three has "skew generation". In fact, the skew numbers stated are cumulative. Since the skew at any point is not necessarily generated at that point, the proper requirement seems to be "shall have". State medy Change all three "shall" statements in the comment to "shall have". W PROPOSED ACCEPT IN PRINCIPLE. W | terms mean. I believe that all Skew limits are cumulative (unlike for bearing on what the terms mean. SuggestedRemedy Write down what generated, produced and delivered mean here at are. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-69. Cl Cl 173 SC 173.5.4 P240 L35 Dawe, Piers J G NVIDIA Comment Type T Comment Status D It would avoid misinterpretation if the words to the effect of delay is receive delays, were reinstated. 169.4 says it, but it is not referen and it is borderline non-normative "Should there be a discrepancy the delay requirements of the relevant sublayer clause, the sublay SuggestedRemedy Insert words: The maximum delay (sum of transmit and receive delay | nd what the differences # [-130 (bucket1 s the sum of transmit and ced here for definitions between this table and rer clause prevails." |

| TYPE: TR/technical required ER/editorial required GR/gene | eral required T/technical E/editorial G/general | C/ 173 | Page 31 of 34 |
|---|--|------------|---------------------|
| COMMENT STATUS: D/dispatched A/accepted R/rejected | RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn | SC 173.5.4 | 9/1/2023 4:56:22 PM |
| SORT ORDER: Clause, Subclause, page, line | | | |

| - | | | | | | | | | | | |
|----------------------------------|------------|--|---------------------|-----------------------|---------------------------------------|---|--|--|--------------------------------|-------------------------------------|---|
| C/ 173 SC 1 | 73.5.4 | P 240 | L 35 | # I-129 | C/ 173 | SC 1 | 73.5.6 | P | 241 | L 8 | # [-71 |
| Dawe, Piers J G | | NVIDIA | | | Ran, Adee | • | | Cisc | o Syster | ns, Inc. | |
| Comment Type | т | Comment Status D | | (bucket1) | Comment | Туре | Е | Comment Status | 5 D | | (bucket |
| within a Physic 800GMII Exter | | which is composed of an 80 | 0GBASE-R PH | Y and an optional | | | | terface between the the PMA represent | | | A, or between the PMA interface," |
| SuggestedRemedy | | | | | This se | entence | is unnec | essarily complex ar | d the pu | nctuation is inco | prrect. |
| within a Physic 800GMII Exter | | which is composed of an 80 | 0GBASE-R PH | Y and, optionally, an | Suggested | | | <i>y</i> | | | |
| Proposed Respons PROPOSED A | | Response Status W | | | | | | nterface between th the PMA, is physic | | | A, or between the PMA |
| FROFUSEDP | CCEFT. | | | | Proposed I | Respon | se | Response Status | w | | |
| C/ 173 SC 1 | 73.5.5 | P 240 | L 51 | # I-36 | - | | | IN PRINCIPLE. | | | |
| Huber, Thomas | | Nokia | | | | | | | | | d the PMA, or between stantiated interface, the |
| Comment Type | E | Comment Status D | | (bucket1) | PMA p | rovides | electrica | I signal drivers for the | nat interf | ace." | |
| The variable n | should be | e italicized in the first line | | | | | | there is a physically | instantia | ated interface the | PMA provides |
| SuggestedRemedy | / | | | | electric | ai signa | al drivers. | • | | | |
| | | t lanes" in italics | | | C/ 173 | SC 1 | 73.5.8.1 | P | 242 | L 3 | # I-72 |
| Proposed Respons | se | Response Status W | | | Ran, Adee |) | | Cisc | o Syster | ns, Inc. | |
| PROPOSED A | | | | | Comment | Туре | т | Comment Status | 5 D | | (bucket |
| | | | | | | | | data is being sent or | | | |
| C/ 173 SC 1 | 73.5.5 | P 241 | L 2 | # I-131 | | | |):31.indication)" is u ased on data being | | | the other two PMAs se |
| Dawe, Piers J G | | NVIDIA | | | | nai stat | | ased on data being | | | |
| Comment Type | т | Comment Status D | | (bucket1) | | | | | | | ing received by the |
| If an output lar | ne's clock | is derived from its correspor | nding input, it's r | not independent. | | | | e to lack of a link pa ot being transmitted | | | |
| SuggestedRemedy | / | | | | | | | me indication is not | | |). Opconying in the |
| | | le, changing "independent" | to "separate" or | "its own" would be | Suggested | Remed | V | | | | |
| enough to corr | | | | | Delete | the sec | ond item | in the list. | | | |
| Proposed Respons | | Response Status W | | | | | | | | | |
| PROPOSED A | | | | · · · | | | 0 | e list to regular para | | kt as in the other | two subclauses. |
| | | ne could use an independer ne could use a separate cloo | | | Proposed I | Respon | se | Response Status | w | | |
| | oupuria | | | | Chang "The S (inst:IS PMD:IS | e the SIGNAL SIGNAL S_UNITI S_SIGN | IGNAL_C _OK para DATA_0: IAL.indica | 7.indication) and the | when dat SIGNA to OK, it | a is being receiv L_OK parameter | red on all 8 input lanes r of the immediately below the |

C/ 173 SC 173.5.8.1

| CI 173 S | SC 173.5.8.2 | P 242 | L13 | # I-132 | C/ 173 | SC 173.6.4 | P 240 | L 46 | # I-92 | | |
|---|------------------------------------|--|-----------------|-------------------|--|---|--|----------------|-----------------------------|--|--|
| Dawe, Piers J | G | NVIDIA | | | Dawe, Pie | rs J G | NVIDIA | | | | |
| Comment Type | e T | Comment Status D | | (bucket1) | Comment | Type TR | Comment Status D | | delay values | | |
| parameter | is set to OK w | ngineering this: "In the *tran /hen data is being *received somewhere. Ingress and e | * I believe the | at less confusing | PCS, > | S or PMD, but it | on per PMA-instance may be is tight for a standalone PMA aged with an exposed 32x250 | (e.g. "on-boai | d retimer"). It is unlikely | | |
| SuggestedRen | nedy | | | | Suggested | Remedy | | | | | |
| Change "when data is being received on all 8 input lanes (PMA:IS_UNITDATA_0:7.request)." to "when data is presented to this PMA sublayer by the | | | | | Double the allowance for the 8:8 PMA only, from 36,864 BT, 72 PQ, 46.08 ns to 73,728 BT, 144 PQ, 92.16 ns. No need to change the delay allocation for 32:8 and 8:32 PMA. | | | | | | |
| PMA sublayer above on all 8 transmit lanes (PMA:IS_UNITDATA_0:7.request)". Similarly in 173.5.8.3 8:8, line 23, change "when data is not being received on all 8 input lanes (PMA:IS_UNITDATA_0:7.request)." to "when data is not being presented to this PMA sublayer by the PMA sublayer above on all 8 input lanes | | | | | | Proposed Response Response Status W | | | | | |
| | | | | | | PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #I-45. | | | | | |
| · – | JNITDATA_0:7 | • / | | | C/ 173 | SC 173.7.3 | P 246 | L12 | # I-146 | | |
| Proposed Resp | | Response Status W | | | Slavick, Je | eff | Broadcom Inc | | | | |
| PROPOSED REJECT. The direction of tranmission and the relevant interfaces are clear and unambiguous. The meaning of the word "received" here is clear given the context. The proposed changes are | | | | | | Type TR | Comment Status D | | (bucket1) | | |
| | | | | | | PICS don't have a definition for + | | | | | |
| not an imp | rovement to tr | ne technical clarity or accura | cy of the text. | | Suggested | Remedy | | | | | |
| C/ 173 SC 173.5.8.3 P242 L18 # I-133 Dawe, Piers J G NVIDIA NVIDIA <t< td=""><td colspan="5">Change C2CA and C2MA to be "P832:O/2 P88:O/2" Change C2CB, C2MB,PMDE, PMDO to be "P328:O/3 P88:O/3"</td></t<> | | | | | Change C2CA and C2MA to be "P832:O/2 P88:O/2" Change C2CB, C2MB,PMDE, PMDO to be "P328:O/3 P88:O/3" | | | | | | |
| Comment Type | | Comment Status D | | squelch (bucket1) | Proposed I | Response | Response Status W | | | | |
| Please nar | me this feature | e by its familiar name so rea but its name is well establis | | This is a kind of | - | OSED ACCEPT | IN PRINCIPLE. onse to comment #I-47. | | | | |
| SuggestedRen | nedy | | | - | | | | | | | |
| | ig (squelching) ce) in next sub | one or more output lanes clause | | | | | | | | | |
| Proposed Resp | ponse | Response Status W | | | | | | | | | |
| | ED ACCEPT IN | | | | | | | | | | |
| Implement | the suggestee | d remedy with editorial licen | se. | | | | | | | | |
| C/ 173 S | SC 173.5.8.3 | P 242 | L19 | # I-134 | | | | | | | |
| Dawe, Piers J | G | NVIDIA | | | | | | | | | |
| Comment Type Two dumb | | Comment Status D ces, and two more at line 29 |). | (bucket1) | | | | | | | |
| SuggestedRen Make them | - | | | | | | | | | | |
| Proposed Resp PROPOSE | ponse ED ACCEPT. | Response Status W | | | | | | | | | |

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

C/ 173 SC 173.7.3

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| Cl 173 | SC 173.7.3 | P 246 | L 32 | # I-135 | C/ 173 | SC 173.7.7 | P 248 | L 37 | # I-136 | | |
|--|---------------------------------------|--|---|--|--|--|--|------------------|----------------|--|---|
| Dawe, Pie | rs J G | NVIDIA | | | Dawe, Pie | rs J G | NVIDIA | | | | |
| Comment | Туре Е | Comment Status D | | (bucket1) | Comment | Туре Е | Comment Status D | | (bucket1) | | |
| The op option | • | ects how a PMA is used, so | it should appea | r in the PICS major | having | separate PCS f | ities aren't in the major optio or "PMA local loopback" and | | | | |
| Suggestea | lRemedy | | | | | g else depends | on "LBL". | | | | |
| Add two major options, for the receive (ingress) direction and for the transmit (ingress) direction, conditionally optional according to PMA type. | | | | | SuggestedRemedy Move the loopback abilities to the major options, as in 120.7.3, or combine the two pairs | | | | | | |
| Proposed Response Response Status W | | | | | | Proposed Response Response Status W | | | | | |
| The so not ma not ap the wo | ajor functions, but propriate to move | s are provided in PICS items rather one of many minor fea these to the "major functions hould be added and the subc | atures that are s" table. Howev lause reference | specified. It is therefore er, for SS1 and SS2 es are incorrect. And | Remo For LE in the | 1 and LB2 | *LBR rows from the table. | | | | |
| | | sing for the general signal st e descriptions change "disat | | | C/ 173 | SC 173.7.8 | P 248 | L 54 | # I-149 | | |
| | | ause change to 173.5.8.2 and | | | Slavick, Je | eff | Broadcom In | с | | | |
| | nent with editorial | I status for each PMA type p license. | er 173.5.8.1, 1 | 73.5.8.2, 173.5.8.3 | Comment | Type TR | Comment Status D | | (bucket1) | | |
| · | SC 173.7.4 | P 246 | L 42 | # 1-147 | PICS | don't have a defi | nition for + | | | | |
| C/ 173 | - | - | L4 Z | # [-147 | Suggested | IRemedy | | | | | |
| Slavick, Je | | Broadcom Inc | | (1 | Change + to a :M in P1 and + to a :0 in P4 | | | | | | |
| Comment Type TR Comment Status D (bucket1) PICS don't have a definition for + | | | | | Proposed Response Response Status W | | | | | | |
| | | | | | PROP | OSED ACCEPT | IN PRINCIPLE. | | | | |
| Suggested | | S2, S3, S7, S8, S9 | | | Resolv | ve using the resp | onse to comment #I-47. | | | | |
| - | | | | | C/ 173A | SC 173A | P 283 | L 8 | # I-74 | | |
| Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. | | | | Ran, Adee | • | Cisco Syster | ns, Inc. | | | | |
| | | nse to comment #I-47. | | | Comment | Туре Е | Comment Status D | | (bucket1) | | |
| C/ 173 | SC 173.7.6 | P 248 | L 6 | # I-148 | This annex is titled "800 Gb/s PMA sublayer partitioning examples", but it's about f layer partitioning examples, not PMA sublayer partitioning. The PMA is not partition | | | | | | |
| Slavick, Je | eff | Broadcom Inc | | | Suggested | lRemedy | | | | | |
| Comment | 51 | Comment Status D | | (bucket1) | Chang | e Annex title to ' | 800 Gb/s Physical layer part | itioning example | es". | | |
| PICS | don't have a definit | tion for + | | | Proposed | Response | Response Status W | | | | |
| Suggested | | | | | - | OSED REJECT. | | | | | |
| Change + to a :O in T1, T2, T3, T4, T5, T6 Proposed Response Response Status W | | | | | | This annex, like similar ones used for other Ethernet rates, demonstrates variations of a physical layer implementation with differents sets of physical instantiations of the PMA service interface (800GAUI-n) and the resulting MMD address to be assigned to each of | | | | | |
| | | | | | | | | | | | - |
| | technical required | ER/editorial required CP/a | eneral require | d T/technical E/editorial G/g | neneral | | C/ 17 | 72 A | Page 34 of 34 | | |
| | | etabad A /assertad D/reise | | | | | | | 1 age 34 01 34 | | |

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

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SC 173A