SC 73.1 P 133 P 134 CI 73 L 07 # 385 CI 73 SC 73.2 L 01 # 607 Baumer. Howard Broadcom Booth, Brad Intel Comment Type TR Comment Status X Comment Type TR Comment Status X Incorrect figure. The figure is meant to show the placement of AN relative to the other Having a mandatory function who suse is optional doesn't make sense. Providing parallel detection for legacy devices that don"t support AN implies an 802.3ap phy without AN, a sublayers and the OSI reference model. contradictory statement. Further more there is nothing in the any of the PMA/PMD type SuggestedRemedy definitions that require auto-negotiation. Delete TBI and XSBI. Ensure PHY bracket on the right completely encompasses from the SuggestedRemedy bottom of AN to the top of the PCS. Unshade the PMDs. Divide AN into three blocks and Make AN implementation optional for all PMA/PMD types label each block AN*. Unshade MDI, and place a MDI and MEDIUM under each of the three PHYs. Proposed Response Response Status 0 Proposed Response Response Status 0 SC 73.1 P 133 CI 73 L 36 # 388 CI 73 SC 73.3 P 134 L 44 # 389 Baumer. Howard Broadcom Baumer, Howard Broadcom Comment Type TR Comment Status X Comment Type Comment Status X There is no conflict between Clause 73 auto-negotiation and Clause 37 auto-negotiation. If If the phy types aren"t limited to these then what others are allowed? Any PMA/PMD types a Clause 73 enabled device is connected to a Clause 37 enabled device that wishes to added in the future will modify this sentence to include them, therefore "but not limitied to" transfer information through auto-negotiation the Clause 37 device will not be able to as it is prohibitied from enabling its Clause 37 auto-negotiation. is not needed. SuggestedRemedy SuggestedRemedy Remove ". but are not limited to." Delete this sentence. Proposed Response Response Status 0 Proposed Response Response Status 0 SC 73.4 P 165 Cl 73 P 135 L 01 # 535 Cl 73 SC 73.10.4.6 L 40

Dawe, Piers

254 Joergensen, Thomas Vitesse Semiconducto

Comment Type Comment Status X

The use of Clause 45 electrical interface should be optional, see other comment from me.

SuggestedRemedy

Replace ""Interface used for logical and electrical access" with ""Interface used to access the device registers""

Proposed Response Response Status 0

Comment Status X Comment Type E highest common local ability? SuggestedRemedy Delete 'local'. Proposed Response Response Status 0

Agilent

CI 73

SC 73.4

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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open

CI 73 SC 73.5 P 135 L 08 CI 73 P 137 # 536 SC 73.5.3 L 09 # 391 Dawe. Piers Aailent Baumer. Howard Broadcom Comment Type Т Comment Status X Comment Type Т Comment Status X Need more info (in particular, the signaling rate). T2 will always be met if T1 is met so why not make T2 = 6.4 +/- 0.02%? SuggestedRemedy SuggestedRemedy Cross-reference to 72.5.10.2.2. Make T2 = 6.4 + /- 0.02%Proposed Response Response Status 0 Proposed Response Response Status O Cl 73 SC 73.5.2 P 136 L 01 # 288 Cl 73 SC 73.5.3 P 137 L 11 # 392 McClellan, Brett Solarflare Baumer, Howard Broadcom Comment Type Т Comment Status X Comment Type Т Comment Status X It is not clear exactly what is being referenced in 48.2.4.2. Why is T3 looser than T1? Per T1 T3 will always be met. Can the pseudo-random source be explicitly defined in clause 73? SuggestedRemedy SuggestedRemedy Make T3 = T1Specify the pseudo-random source in this clause. Proposed Response Response Status 0 Proposed Response Response Status 0 CI 73 SC 73.5.3 P 137 L 15 # 393 CI 73 SC 73.5.3 P 137 L 07 # 289 Baumer, Howard Broadcom Solarflare McClellan, Brett Comment Status X Comment Type T Comment Type T Comment Status X T5 will always be met if T1 is met so just make T5 = 339.2 + 1.06%In Table 73-2, it appears that the timing spec for T1 conflicts with T2 and T3. I assume that SuggestedRemedy T1 is supposed to be the average period while T2 and T3 allow for instantaneous litter, but this is not explicity stated. Make T5 = 339.2 + /- 1.06%SuggestedRemedy Proposed Response Response Status 0 Clarify the difference between T1 and T2/T3 timing specs. Proposed Response Response Status 0 P 137 Cl 73 SC 73.5.3 L 17 # 394 Baumer, Howard Broadcom Comment Status X Comment Type T6 will always be met if T1 is met so just make T6 = 12.8 + /- 0.04%SuggestedRemedy Make T6 = 12.8 + /-0.04%Proposed Response Response Status 0

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

CI 73 SC 73.5.3 Page 2 of 6 10/19/2005 1:16:19 PM

CI 73 P 138 L 45 # 18 CI 73 P 135 L 47 SC 73.6.2 SC 73.7.6 # 538 King, Jain Dawe. Piers Aailent Comment Type Ε Comment Status X Comment Type Т Comment Status X open In the UK there is an alternative meaning to the word 'nonce' that may raise a few Can't parse 'Clause 73 Auto-Neg(management function shall use MMD7) function.' Should eyebrows when this standard is read (see spell out 'negotiation' http://www.missingimages.com/thesweeney/dictionary.html). It is unlikely, though, that SuggestedRemedy there will be much chance of confusion, given the target audience. On a more serious note, this term is not defined in section 1. Proposed Response Response Status 0 SuggestedRemedy Consider an alternative term, and/or add a definition to section 1 Cl 73 SC 73.7.6 P 135 L 47 # 537 Proposed Response Response Status 0 Dawe, Piers Agilent Comment Type Т Comment Status X CI 73 SC 73.7.1 P 141 # 399 L 01 You can't put a 'shall' in one of these NOTEs, they are informative. Baumer, Howard Broadcom SuggestedRemedy Comment Type Comment Status X TR If you mean it, make it into regular text. Is this a recommendation or should this be a "shall"? Proposed Response Response Status 0 SuggestedRemedy If this is a requirement then change "should" to "shall" Cl 73 SC 73.8 P 145 L 04 # 253 Proposed Response Response Status 0 Joergensen, Thomas Vitesse Semiconducto Comment Type T Comment Status X Cl 73 SC 73.7.1 P 141 L 03 # 400 The electrical part of the Clause 45 MDIO management interface should be optional. As it is written here it requires the electrical interface to be present (there is a ""shall""). Baumer. Howard Broadcom SuggestedRemedy Comment Status X Comment Type TR Change the sentence to read: ""The clause 45 Management Data Input/Output (MDIO) Is this a recommendation or should this be a "shall"? interface shall be used to access the device registers for Auto-Negotiation and other SuggestedRemedy Management purposes."" and add: ""The MDIO electrical interface is optional. Where no physical embodiment of the If this is a requirement then change "should" to "shall" MDIO exists, provision of an equivalent mechanism to access the registers is Proposed Response Response Status 0 recommended."" Proposed Response Response Status O

CI 73

SC 73.8

CI 73 SC 73.8 P 145 L 04 CI 73 P 150 # 539 SC 73.9.1 L 38 # 403 Dawe. Piers Aailent Baumer. Howard Broadcom Comment Type TR Comment Status X Comment Type Т Comment Status X You can't say 'The clause 45 Management Data Input/Output (MDIO) interface shall be The transmitted nonce from the link partner is highly unlikely to match the transmitted used ...' because per 45.1, 'The MDIO electrical interface is optional.'. nonce of the local device. Section 73.6.2 discusses an echoed nonce field that is intended to match the transmitted nonce field. SuggestedRemedy SuggestedRemedy Change to 'may be used', 'may conveniently be used', 'is recommended' or similar. Change "à the transmitted nonce received à" to "à the echoed nonce received à" Proposed Response Response Status 0 Proposed Response Response Status 0 Cl 73 SC 73.8 P 145 L 46 # 541 CI 73 SC 73.9.2 P 153 # 404 L 15 Dawe, Piers Agilent Baumer. Howard Broadcom Comment Type Comment Status X Comment Type Comment Status X Variable name, last row of table 73-6, seems wrong. The data_det_min_timer has a range of 1.4ns but the data_detect_max_timer only has a SuggestedRemedy range of 0.8ns. Making these ranges the same, 1.4ns, allows for implementations using the KX baud time. SuggestedRemedy Proposed Response Response Status 0 Make the data_detect_max_timer range 3.4-4.8ns as in table 73-7. Proposed Response Response Status 0 SC 73.8.1 P 145 L 18 # 402 Cl 73 Baumer, Howard Broadcom Comment Status X Cl 73 SC 73.9.2 P 154 L 43 # 59 Comment Type T Wrong register reference Claseman, George Micrel Semiconductor SuggestedRemedy Comment Type Т Comment Status X Change "6.16.15:0" to "7.16.15:0" Value = 0 is not stated. This would seem to be included in the not done condition. Proposed Response Response Status 0 SuggestedRemedy Proposed Response Response Status 0 CI 73 SC 73.8.1 P 145 L 19 # 37 Marris, Arthur Comment Status X Comment Type Т The MMD should be 7 rather than 6. SuggestedRemedy Change 6.16.15:0 to 7.16.15:0

Response Status 0

Proposed Response

Cl 73

CI 73 P 155 SC 73.9.4.1 L 08 # 99

Healey, Adam

Comment Type TR Comment Status X

The technology dependent interface defines PMA_LINK.indication and PMA_LINK.request primitives. Unfortunately, these primitives are not defined in the clause 36 (1000BASE-X), clause 48 (10GBASE-X), or clause 51 (10GBASE-R/W) PMAs. This interface definition is broken and the auto-negotation function is rendered unusable since it has no means to check the status of, or enable/disable the different port types.

SuggestedRemedv

1. The technology dependent interface needs to be re-defined in terms of existing services primitives (PCS, PMA, or PMD)...

-or-

2. The PMA LINK.indication or PMA LINK.request primitives need to be added to the clause 36, 48, and 51 PMAs, and the behavior of these PMAs with respect to those primitives must be defined.

Option #1 is preferred if it proves to be feasible. Otherwise, major work will have to be done to amend (or perhaps create backplane specific versions of) the PMA sublayers.

Proposed Response Response Status 0

P 155 CI 73 SC 73.9.4.1.1 L 20 # 405

Baumer, Howard Broadcom

Comment Status X Comment Type

PMA CARRIER.indication and PMA UNITDATA.indication are undefinded

SuggestedRemedy

Either define these or delete "READY, the PMA_CARRIER.indication and PMA UNITDATA.indication primitives are undefined"

Proposed Response Response Status 0 CI 73 SC 73.9.4.2.1 P 155

L 42

406

Baumer. Howard Broadcom

Comment Type Т Comment Status X

SCAN FOR CARRIER mode is undefined

SuggestedRemedy

Either define SCAN_FOR_CARRIER mode of delte this value and its description

Proposed Response Response Status O

L 13 # 407 C/ 73 SC 73.9.4.2.3 P 156

Baumer, Howard Broadcom

Comment Status X link integrity test function is not defined for any of the PMAs KX, KX4, KR.

SuggestedRemedy

Comment Type

Define the link integrity test function

Т

Proposed Response Response Status 0

Cl 73 SC 73.9.5 P 157 L 40 # 55

Claseman, George Micrel Semiconductor

Comment Type T Comment Status X

There is no definition of interval timer done. Perhaps this should be interval timer=done.

SuggestedRemedy

Proposed Response Response Status 0

P 158 1 Cl 73 SC 73.9.5 # 58

Micrel Semiconductor Claseman, George

Comment Status X Comment Type

Multipel lines: There is no definition of clock detect max timer done / not done. Perhaps this should be clock detect max timer=done /!done.

SuggestedRemedy

Response Status 0 Proposed Response

CI 73 SC 73.9.5 P 158 L # 57 CI 73 P 159 **SC Figure 73-10** L 38 Claseman, George Micrel Semiconductor Joergensen, Thomas Vitesse Semiconducto Comment Type T Comment Status X Comment Type T Comment Status X Multipel lines: There is no definition of clock_detect_min_timer_done / _not_done. Perhaps Signal an_good is not defined, has to be replaced by an_link_good. this should be clock detect min timer=done / !done. SuggestedRemedy SuggestedRemedy Replace an_good with an_link_good. ? Proposed Response Response Status O Proposed Response Response Status 0 Cl 73 P 159 L 44 **SC Figure 73-10** Cl 73 SC 73.9.5 P 158 L # 56 Baumer, Howard Broadcom Claseman, George Micrel Semiconductor Comment Type Ε Comment Status X Comment Type T Comment Status X ability match wordability match is not defined nor is it used anywhere. Multipel lines: There is no definition of page_test_max_timer_done / _not_done. Perhaps SuggestedRemedy this should be page_test_max_timer=done / !done. Either define ability match wordability match or delete it or if it is actually ability match SuggestedRemedy then replace it with ability_match ? Proposed Response Response Status 0 Proposed Response Response Status O SC 73.9.5 P 158 L CI 73 # 38 Micrel Semiconductor Claseman, George Comment Type T Comment Status X Multipel lines: There is no definition of page_test_min_timer_done / _not_done. Perhaps this should be page_test_min_timer=done / !done. SuggestedRemedy

Response Status 0

252

408

open

Proposed Response