CI 78 SC 78.6.3 P270 L6 # 1
Diab, Wael Broadcom Corporation

Comment Type TR Comment Status D

When we structured the PICs on the last draft we did that after closing the comment on having a PICs for AN. There needs to be a PICs for AN, however, it should match the way we did the other requirements like timing, where it is against the appropriate cluases with the normative text for each PHY. Note that in some cases this does exist like in C40 so its worthwhile to make it consistant throughout.

SuggestedRemedy

- Remove the PICs entry for AN from C78
- Adjust the text around the PICs to only reflect DLL requirements
- Remove the corresponding shall from 78.3
- In approproate clauses like 28C, 28D, 73A, 24, 40, 55, 73 and/or other appropriate clauses.
- In 78.3 point to the appropriate clauses from the step above
- Check that this is not consistant for all PHY types (e.g. right now there is a PICs in 78.3 and 40 AN15 that would affect 1000BASE-T for instance. Should really be in one place)

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Specific changes in 28C, 28D, 73A, 24, 40, 55, 73 and/or other appropriate clauses.

Cl 24 SC 24.4.1.4.3 P49 L47 # 2

Anslow, Peter Ciena Corporation

Comment Type ER Comment Status D

On page 49, line 47 (diff document) there is a reference to 25.4a.2 (link does not work) but 25.4a.2 does not exist in the draft.

)n page 50, line 14 there is a reference to 25.4a.1 (link does not work) but 25.4a.1 does not exist in the draft.

On page 53, line 47 is "Insert 25.4a at the end of 25.4 as shown below:". However, below this is subclause 25.5, followed by 25.50.1 etc. with no other editing instructions. These subclause numbers should presumably all be 25.4a.xxx

The clause numbering below this is also wrong. e.g. the PICS for clause 25 is 25.5 not 25.6

SuggestedRemedy

Correct clause numbering currently shown as 25.5 and 25.50 to 25.4a.

Change "Insert 25.4a at the end of 25.4 as shown below:" to "Insert 25.4a after 25.4 as shown below:"

Make sure links in 24.4.1.4.3 and 24.4.1.5.3 remain correct and work properly.

Also correct the clause numbering for the PICS section to 25.5 as per the editing instructions there.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

P.55, L.47, Change "Insert 25.4a at the end of 25.4 as shown below:" to "Insert 25.4a after 25.4 as shown below:"

P.56, L.1, Change Subclause number 25.5 to 25.4a

Change all subsequent Subclause number from 25.50.xx to 25.4a.xx

P.61. L.1. Change Subclause number 25.6 to 25.5

Change all subsequent Subclause number from 25.6.xx to 25.5.xx

P.61, L.12, Change the reference of Subclause number in item LPI from 25.5 to 25.4a

Cl 49 SC 49.2.13.2.2 P171 L53 # 3

Anslow, Peter Ciena Corporation

Comment Type E Comment Status D

The editing instruction says "Insert new variables into 49.2.13.2.2, ..." but the heading beneth this is "49.2.9.2.2 Variables"

SuggestedRemedy

Change clause number in heading to 49.2.13.2.2

Proposed Response Response Status W

D3.1 of 802.3az

C/ 51 SC 51.1 # 4 Cl 55 P 231 P191 14 SC 55.4.5.1 / 41 Ciena Corporation Ciena Corporation Anslow. Peter Anslow. Peter Comment Type Ε Comment Status D Comment Type Ε Comment Status D The editing instruction says "Insert the following row into table 51.7.3:", but table 51.7.3 2/9, 2/5 and 2/6, 2/4 on line 45 aren't in the same format as powers of two in the does not exist. transition count paragraph above. SuggestedRemedy SuggestedRemedy Change "Insert the following row into table 51.7.3:" to "Insert the following row at the end of change to using superscript for the power the table in 51.10.3: Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 71 SC 71.3 P 259 L44 Cl 55 SC 55.2.2.11 P 201 / 10 Anslow, Peter Ciena Corporation Anslow. Peter Ciena Corporation Comment Type Comment Status D Comment Type E Comment Status D On page 259 line 44 diff document (or page 237 line 37 in clean document) we have "PCS There is no editing instruction regarding 55.2.2.11 or 55.2.2.12 requirements for Auto-Negotiation (AN) service interface" clause 71.7 or 71.3 in the two docs respectively, but there are no editing instructions for clause 71.3 SuggestedRemedy Also, the numbering above this in the diff document is 71.6 instead of 71.2. However the On page 200 change "Insert 55.2.2.9 and 55.2.2.10 after section 55.2.2.8 as shown below:" clen version is ok. to "Insert 55.2.2.9. 55.2.2.10. 55.2.2.11 and 55.2.2.12 after section 55.2.2.8 as shown SuggestedRemedy below: Either make changes to 71.3 "PCS requirements for Auto-Negotiation (AN) service Proposed Response Response Status W interface" or remove this text. PROPOSED ACCEPT IN PRINCIPLE. Proposed Response

The change is correct but the page number is 1921

Cl 55 SC 55.3.2.2.21 P 206 L 26 Anslow. Peter Ciena Corporation

Comment Type Comment Status D Ε

"7.36us" should have a space between the number and its unit and the greek letter mu rather than u

SuggestedRemedy

change "7.36us" to have a space between the number and its unit (use ctrl space to make it non-breaking) and the greek letter mu rather than u

Proposed Response Response Status W PROPOSED ACCEPT.

SuggestedRemedy Change editing instruction to "Change 72.6.4 as follows:"

a follows:" butb there are 4 paragraps of changed text.

Response Status W

Comment Status D

P266

Ciena Corporation

The editing instruction says "Change the text in the 1st paragraph of section 72.6.4 to read

L12

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

PROPOSED ACCEPT.

Will delete section 71.3

SC 72.6.4

CI 72

Anslow. Peter

Comment Type

Cl 74 SC 74 P272 Cl 74 P276 1 22 / 1 # 10 SC 74.5.1.4 # 13 Ciena Corporation Ciena Corporation Anslow. Peter Anslow. Peter Comment Type Ε Comment Status D Comment Type Ε Comment Status D 802.3ba changed the title of clause 74 and also the title of 74.4.1 Subclauses 74.5.1.4 through 74.5.1.7 have been added with the insert instruction, so none of the text should be shown in underline font. However some is and some isn't underlined. SuggestedRemedy SuggestedRemedy Change the title of 74 to "Forward Error Correction (FEC) sublayer for BASE-R PHYs" and Remove the underline from subclauses 74.5.1.4 through 74.5.1.7 the title of 74.4.1.to "Functional block diagram for 10GBASE-R PHYs" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. CI 74 SC 74.4.1 P 272 L5 # 11 CI 74 SC 74.10.2.3 P 278 L 27 Ciena Corporation Ciena Corporation Anslow. Peter Anslow, Peter Comment Type Comment Status D Comment Type Comment Status D The editing instruction says "Change Figure 74--2 as shown below using the title from The editing instruction is "Change 74.10.2.3 as shown below:" but only one of the three 802.3ba D2.3:", but 802.3ba is now approved. Also, 802.3ba changed the title of Figure 74functions is shown. 2 to "Functional block diagram for 10GBASE-R PHYs" SuggestedRemedy SuggestedRemedv Show the two unmodified functions in normal font. Change editing instruction to "In 74.4.1 as modified by IEEE Std 802.3ba, replace Figure Proposed Response Response Status W 74--2 as shown below:" Also, change the title of Figure 74-2 to "Functional block diagram PROPOSED REJECT. for 10GBASE-R PHYs" Proposed Response Response Status W Several versions back the decision was to show only the changes. PROPOSED ACCEPT. CI 74 SC 74.11 P279 L 1 # 15 CI 74 SC 74.5.1 P 276 L 18 # 12 Anslow, Peter Ciena Corporation Anslow, Peter Ciena Corporation Comment Type Comment Status D Ε Comment Type Ε Comment Status D 802.3ba changed the title of clause 74.11 The text starting "If the optional Energy Efficient Ethernet (EEE) capability is supported ..." SuggestedRemedy has been added, but is not shown in underline font. Also, the font size (9 pt) is wrong. In the title of 74.11 change "sublaver for 10GBASE-R PHYs" to "sublaver for BASE-R SuggestedRemedy PHYs" Show the inserted text in underline and the correct size. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT.

Cl 46 SC 46.3.2.4 P142 L52 # 16
Turner, Edward J Gnodal Ltd

Comment Type T Comment Status D

There's no PICS entry for the shall in "The PHY shall restart RX_CLK so that at least one positive transition occurs before it deaserts LPI."

SuggestedRemedy

Add PICS entry.

Proposed Response Status W

PROPOSED REJECT.

The "shall" at this point refers to the PHY that is attached to this sublayer, therefore the PICS entry would be inappropriate. This is similar to numerous other examples in RS clauses.

Cl 55 SC 55.4.5.1 P218 L34 # 17

Turner, Edward J Gnodal Ltd

Comment Type E Comment Status D

Use '2 superscript 9' rather than '2^9'.

Also apply to '2^5' and '2^6' and '2^4' on line 38.

SuggestedRemedy

As per comment.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 70 SC 70.2.1 P231 L48 # 18

Turner, Edward J Gnodal Ltd

Comment Type E Comment Status D

Too much deletion has led to '.. may go into w power mode ..'

SuggestedRemedy

Change to '.. may go into low power mode ..'

Proposed Response Status W

PROPOSED ACCEPT.

Cl 72 SC 72.7.1.4 P244 L31

Bennett, Michael Lawrence Berkeley Na

Comment Type T Comment Status D

Submitted on behalf of Iain Robertson

This sub-clause discusses output amplitude requirements during LPI but makes no mention of common mode requirements. It should stipulate the amount by which the common mode can deviate from the non-LPI value.

SuggestedRemedy

Add a sentence, plus a spec in table 72-6. Suggested wording:

"During LPI, the common mode shall be maintained to within +/- TBDmV of the pre-LPI value"

Suggested spec in table 7-6:

"Common mode voltage deviation (max) during LPI: TBDmV"

Need discussion on the TBD value. For reference, PCI-E specs this as 100mV.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Need to supply TBD mV. To be voted on by Task Force.

Cl 36 SC 36.2.5.2.2 P88 L48 # 20

Healey, Adam LSI Corporation

Comment Type TR Comment Status D

The transition from RX_WAKE_DONE to LPI_K in the PCS Receive state diagram (Figure 36-7c, the second one) should be UCT (unconditional transition) and not SUDI. SUDI will cause to PCS Receive state diagram to be out of synchronization.

SuggestedRemedy

Change the transition condition from SUDI to UCT.

Proposed Response Response Status W

Cl 49 SC 49.2.13.2.5 P175 L52 # 21

Healey, Adam LSI Corporation

Comment Type TR Comment Status D

The definition of one_us_timer needs reference the parameter T_1U defined in Table 49-3 (which really should be replacing Table 49-2) in order to establish the bounds on the timer terminal count.

SuggestedRemedy

Change the definition of one_us_timer to: "This timer is used to count approximately 1 microsecond intervals. The timer terminal count is set to T1U. When the timer reaches terminal count it will set the one_us_timer_done = TRUE."

Proposed Response Status W
PROPOSED ACCEPT

Cl 74 SC 74.7.4.8 P277 L47 # 22

Healey, Adam LSI Corporation

Comment Type T Comment Status D

I believe the actual requirement here is that the hold-off timer not expire before 13.7 microseconds have passed. It could be longer since the FEC would set signal_ok to TRUE after detecting two scrambled blocks.

SuggestedRemedy

Change the first sentence to: "When rx_lpi_active is TRUE and rx_mode is set to DATA, start a hold-off timer whose duration is greater than or equal to 13.7 microseconds and enable. . .". Also change item b (page 278, line 7) to: "Expiration of the hold-off timer."

Proposed Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.76a P120 L50 # 23

Barrass, Hugh Cisco Systems, Inc.

Comment Type TR Comment Status D

The resolution to comment #359 draft 3.0 was missed. This must be implemented to make sense of the changes to Clause 55.

SuggestedRemedy

Define a new register bit:

1.147.1 : Fast retrain signal type : 1 = send IDLE during fast retrain, 0 = send local fault during fast retrain

Insert 45.2.1.76a.2 Fast retrain signal type (1.147.1)

For PHYs that support fast retrain, this bit maps to pi_fr_sigtype as defined in 55.4.5.1. When Fast retrain signal type is set to one, the PMA sends IDLE characters on the receive path during fast retrain. When Fast retrain signal type is set to zero, the PMA sends local fault on the receive path during fast retrain.

Proposed Response Response Status W

PROPOSED ACCEPT.

Accept the proposed response except that the subclause number will be 45.2.1.76a.5 (if comments #95 and #79 are accepted).

Cl 79 SC 79.3.a P271 L28 # 24

Barrass, Hugh Cisco Systems, Inc.

Comment Type E Comment Status D

Duplicated period at the end of the line

SuggestedRemedy

delete it..

Proposed Response Response Status W

Cl 78 SC 78.3 P 258 L 50 # 25 Brown, Matthew Applied Micro (AMCC)

Comment Type TR Comment Status D Draft 3.0 Comment #174 was not implemented.

SuggestedRemedy

Implement Draft 3.0 Comment #174.

Proposed Response Response Status W PROPOSED ACCEPT.

Response to Comment #174 on D3.0 is shown below: ACCEPT IN PRINCIPLE.

Change the paragraph starting on line 47 of 78.3 to read:

"During the link establishment process, both link partners indicate their EEE capabilities. EEE is supported only if during auto-negotiation both the local device and link partner advertise the EEE capability for the resolved PHY type. If EEE is not supported, all EEE functionality is disabled and the LPI client shall not assert LPI."

All EEE PHY clauses need to add a reference to 78.3 where EEE support is first mentioned.

CI 55 SC 55.1.4 P191 **L**5 # 26 Brown, Matthew Applied Micro (AMCC)

Comment Type ER Comment Status D

Figure 55-4. PMA FR ACTIVE primitive is not required for EEE nor for normal operation.

SuggestedRemedy

Re-draw dashed rectangle to include only EEE signals. Employ another means to differentiate FR signals from normal and EEE signals. Add a note to indicate the signals relevant to FR.

Proposed Response Response Status W PROPOSED ACCEPT.

Cl 55 P191 SC 55.2.2.3.1 L 51

Brown. Matthew Applied Micro (AMCC)

Comment Type Ε Comment Status D

New sentence is not indicates.

SugaestedRemedy

Add underline to sentence "For EEE. ... during LPI."

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 55 SC 55.2.2.3.1 P192 **L**5

Brown, Matthew Applied Micro (AMCC)

Comment Type Ε Comment Status D

Clean up list.

SuggestedRemedy

Create list starting each item i and ii on new line. Alternately, but less favored, change "training ii)" "training and ii)".

Proposed Response Response Status W

PROPOSED REJECT.

It is not clear that the remedy is an improvement.

CI 55 SC 55.2.2.9.1 P192 L 28 # 29

Brown, Matthew Applied Micro (AMCC)

Comment Type TR Comment Status D

When is alert detect, set to NOT DETECTED? Though the event DETECTED is obvious, it is not clear when alert detect would be set to NOT DETECTED. In fact, all of the definitions talk about the DETECTED event and the state machine really only requires the DETECTED event. Fixing this is somewhat complicated by the composite nature of the variable definition in 55.3.5.22.

SuggestedRemedy

Re-define alert detect to have single value DETECTED sent when alert signal is detected. otherwise parameter value is undefined.

Proposed Response Response Status W

PROPOSED REJECT.

There are only two values that alert detect can be set to. If, as the comment states, it is clear when the first value is used, then it should be equally clear when the second value is

Whether the second value is not detected, false, or undefined is moot since it is not used/detected elsewhere.

Cl 55 SC 55.2.2.10.1 P193 14 # 30 Brown, Matthew Applied Micro (AMCC) Comment Type Ε Comment Status D Not clear what rx lpi active is. SuggestedRemedy Change end of sentence to: "change in the rx lpi active variable as determined by the receive state diagram in Figure 55-16." Proposed Response Response Status W PROPOSED ACCEPT. CI 55 SC 55.2.2.11.1 P193 L19 Brown, Matthew Applied Micro (AMCC) Comment Type Comment Type Ε Comment Status D Not clear what pcs data mode parameter is. SuggestedRemedy Add sentence... "The pcs_data_mode parameter reflects the value of the pcs_data_mode variable as specified in 55.3.5.2.2." Proposed Response Response Status W PROPOSED REJECT. The text states clearly that the variable is set by the PMA PHY control state machine. This change is unnecessary. CI 55 P193 L42 SC 55.2.2.12 Brown, Matthew Applied Micro (AMCC)

Comment Type Е Comment Status D

Not clear what fr active parameter is.

SuggestedRemedy

Add sentence ... "The fr_active parameter reflects the value of the fr_active variable specified in 55.3.5.2.2."

Proposed Response Response Status W PROPOSED REJECT.

The text states clearly that the variable is set by the PMA PHY control state machine. This change is unnecessary.

Cl 55 P194 SC 55.3.2 L10 # 33

Brown. Matthew Applied Micro (AMCC)

Comment Type Ε Comment Status D

Figure 55-5 is part of 55.3.2 and so should be placed appropriately.

SugaestedRemedy

Add heading 55.3.2 after 55.3 and move diagram to occur after 55.3.2.

Proposed Response Response Status W PROPOSED ACCEPT.

ER

CI 55 SC 55.3.2 P194 L 26 Brown, Matthew Applied Micro (AMCC)

Figure 55-5. fr active parameter is not required for EEE nor for normal operation.

Comment Status D

SuggestedRemedy

Re-draw dashed rectangle to include only EEE signals. Employ another means to differentiate FR signals from normal and EEE signals. Add a note to indicate the signals relevant to FR.

Proposed Response Response Status W PROPOSED ACCEPT.

Cl 55 SC 55.3.2.2 P194 L42

Brown, Matthew Applied Micro (AMCC)

Comment Type ER Comment Status D

Figure 55-15 does not include states for EEE only and Figure 55-15a does not include dashed rectangles.

SuggestedRemedy

Restate as follows: State transitions within dashed rectangles in Figure 55-15 and all states and transitions in Figure 55.15a shall be supported by PHvs with the EEE capability. PHYs without the EEE capability do not support these transitions.

Proposed Response Response Status W

PROPOSED REJECT.

It is not clear what is incorrect in the current labeling.

Figure 55-15 notes that transitions inside dashed rectangles are required for EEE operation. Figure 55-15a notes that the entire diagram is required for EEE operation.

The suggested remedy does not improve the diagrams.

Proposed Response

PROPOSED REJECT.

This change does not seem necessary.

Response Status W

Cl 55 P194 L48 # 36 Cl 55 P199 L 27 SC 55.3.2.2 SC 55.3.4a.1 # 39 Brown, Matthew Applied Micro (AMCC) Brown. Matthew Applied Micro (AMCC) Comment Type ER Comment Status D Comment Type Ε Comment Status D Be clear about what is meant by "normal mode of operation". Make sure that active is associated with pair, not pair and refresh active. SuggestedRemedy SugaestedRemedy Change start of sentence to: "After reaching the normal mode of operation Change "active pair" to "active-pair". (pcs data mode = TRUE), ..." Proposed Response Response Status W Proposed Response Response Status W PROPOSED REJECT. PROPOSED REJECT. It's not clear what problem this is fixing. The Clause 55 base text defines a training mode of operation and a normal mode of operation. This description reuses those terms. CI 55 SC 55.3.4a.3 P199 L36 # 40 Brown, Matthew Applied Micro (AMCC) Cl 55 SC 55.3.2.2.21 P196 L30 # 37 Comment Type TR Comment Status D Brown, Matthew Applied Micro (AMCC) Relevant to initial or subsequent normal retrain. Comment Type ER Comment Status D SuggestedRemedy Two variables cause transition to TX NORMAL state. Change "used for initial training" to "used for normal training". Alternately, "used for initial SuggestedRemedy training or normal retraining". Change start of sentence to: "When PCS Reset is asserted or pcs data mode is not Proposed Response Response Status W asserted ...". PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. "used for normal training" Cl 55 SC 55.3.4a.3 P200 L 50 # 41 CI 55 SC 55.3.2.3 P197 L 44 # 38 Brown, Matthew Applied Micro (AMCC) Brown, Matthew Applied Micro (AMCC) Comment Type Comment Type Comment Status D Ε Comment Status D ER Sentence fragement. Sentence almost sounds like LPI is triggered by completion of training. Also, successful training is indicated by pcs_data_mode. SuggestedRemedy SuggestedRemedy Remove fragment or correct. Change end of sentence to: "after the PHY has successfully completed training as Proposed Response Response Status W indicated by pcs_data_mode equals TRUE.' PROPOSED ACCEPT IN PRINCIPLE.

This should be a subclause title 55.3.5

Proposed Response

PROPOSED ACCEPT.

Cl 55 P 201 # 42 SC 55.3.5.2.2 L 29 Brown, Matthew Applied Micro (AMCC) Comment Type E Comment Status D LPI is indicated by LPI client and RS not MAC SuggestedRemedy Change "MAC indicates" to "LPI client indicates". Proposed Response Response Status W PROPOSED ACCEPT. # 43 CI 55 SC 55.3.5.2.2 P 201 L 44 Brown, Matthew Applied Micro (AMCC) Comment Type E Comment Status D Convention in this Clause is to use receiver not RX. SuggestedRemedy Replace "RX" with "receiver". Proposed Response Response Status W PROPOSED ACCEPT. CI 55 SC 55.3.5.2.2 P 201 L 49 Applied Micro (AMCC) Brown, Matthew Comment Type Comment Status D Т Grammar. SuggestedRemedy Replace comma at end of sentence with period.

Response Status W

Cl 55 SC 55.3.5.2.2 P201 L34 # 45

Brown, Matthew Applied Micro (AMCC)

Comment Type TR Comment Status D

Introduction of pcs_data_mode variable in state diagrams permits us to reduce alert_detect to simply indicated detection of the alert signal.

SuggestedRemedy

Reduce definition to include only detection of alert signal.

Proposed Response Status W

PROPOSED REJECT.

The commentor should prepare a more detailed remedy.

Comment Type TR Comment Status D

The portion of the definition relating to detection of alert signal is not really clear. It is clear that alert_detect is set TRUE when the alert signal is detected. The definition of the alert detection function on page 216 only specifies when alert_detect is set. It is not clear when (or if) the alert_detect variable is ever set to FALSE. This variable is more of an event, than a state. What is the right unambiguous way to specify this.

SuggestedRemedy

Provide a mechanism or description that explains how the alert_detect variable is set to FALSE after being set TRUE. One way to resolve this is as follows. (a) In Figure 55-16, add "alert_detect = FALSE" in states "RX_INIT" and "RX_W". Define alert_detect as being set to TRUE by ALERT detect process.

Proposed Response Response Status W PROPOSED REJECT.

See #29. The description is clear.

PROPOSED ACCEPT.

Cl 55 P192 # 47 Cl 55 P 202 SC 55.2.2.9.1 L 26 SC 55.3.5.2.2 L32 # 50 Brown, Matthew Applied Micro (AMCC) Brown. Matthew Applied Micro (AMCC) Comment Type TR Comment Status D Comment Type ER Comment Status D alert detect parameter values do not match alert detect variable. Given that lpi_fr_sigtype is defined in the previous line to exist only for PHYs that support FR. it is unnecessary and somewhat confusing to qualify the IDLE state with support of fast SuggestedRemedy retrain. Either change values to match or explain that alert detect parameter is DETECTED when SuggestedRemedy alert detect variable is TRUE and NOT DETECTED with alert detect variable is FALSE. Change first sentence to: "This variable is set to IDLE if 1.147.1 is set to 1." Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED REJECT. Change DETECTED to TRUE, change NOT DETECTED to FALSE in 55.2.2.9.1. This is not necessary. CI 55 SC 55.3.5.2.2 P**202** L 2 # 48 Cl 55 SC 55.3.5.2.4 P 203 L31 # 51 Brown, Matthew Applied Micro (AMCC) Applied Micro (AMCC) Brown, Matthew Comment Type Comment Status D Е Comment Type Comment Status D For clarity, for a table for various definitions of lpi tx mode. Grammar. SuggestedRemedy SuggestedRemedy Create table for defining lpi tx mode. Two columns: value and condition. One row is used for each value. Change "to the eight types" to "one of the eight types" Proposed Response Response Status W Proposed Response Response Status W PROPOSED REJECT. PROPOSED REJECT. This does not seem neccesary. As stated by the text, a vector may simultaneously belong to C and I, so the proposed remedy is not accurate. Also the comment is out of scope; this text has not been changed for several drafts. CI 55 SC 55.3.5.2.4 P203 L36 Cl 55 SC 55.3.5.2.2 P 202 / 29 # 49 Brown. Matthew Applied Micro (AMCC) Brown, Matthew Applied Micro (AMCC) Comment Status D Comment Type Comment Type ER Comment Status D Edit instruction. Consistent terminology. SuggestedRemedy SuggestedRemedy Add underline to "and /LI/." Change "that have the fast retrain" to "that support the fast retrain". Proposed Response Response Status W Proposed Response Response Status W

Cl 55 P 204 C/ 55 P 207 SC 55.3.5.2.4 L15 # 53 SC 55.3.5.4 / 34 # 56 Brown, Matthew Applied Micro (AMCC) Brown. Matthew Applied Micro (AMCC) Comment Type Ε Comment Status D Comment Type Ε Comment Status D Grammar. Figure 55-15. Transition from TX E to TX L must be indicates as EEE only. SuggestedRemedy SugaestedRemedy Change "to the eight types" to "one of the eight types" Add dashed rectangle around transition from TX E to TX L. Proposed Response Proposed Response Response Status W Response Status W PROPOSED REJECT. PROPOSED ACCEPT. As stated by the text, a vector may simultaneously belong to C and I, so the proposed CI 55 SC 55.3.5.4 P 209 **L3** remedy is not accurate. Brown, Matthew Applied Micro (AMCC) Cl 55 SC 55.3.5.4 P 205 / 26 Comment Type TR Comment Status D Brown, Matthew Applied Micro (AMCC) Figure 55-16. Last term in transition criteria on open transition to RX INIT is incorrect. When not in PCS Data mode send LF either if not in fast re-train or if in fast retrain only if Comment Type E Comment Status D lpi fr sigtype is not IDLE. No states are unique to EEE. SuggestedRemedy SuggestedRemedy Change last term to: "((!(lpi fr sigtype==IDLE) * lpi fr active) +!lpi fr active) *! Change "States and transitions" to "transitions". pcs data mode" Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED REJECT. It appears that the existing equation is correct. Cl 55 SC 55.3.5.4 P 206 L3 # 55 Brown. Matthew Applied Micro (AMCC) The editor believes that the suggested change is equivalent to the existing transition condition. Comment Type Ε Comment Status D Figure 55-14. LFER monitor state is active when training has not completed: it may start in CI 55 SC 55.3.5.4 P 209 L3 # 58 PCS_Test mode. This constitutes a modification to the base standard, but improves the Brown, Matthew Applied Micro (AMCC) behavior. Comment Type Comment Status D SuggestedRemedy Figure 55-16. Last term in transition criteria on open transition to FR RX INIT could be Change open transition to LFER_MT_INIT, replacing "!block_lock" with "!pcs_data_mode". clarified by adding brackets around comparison of lpi_fr_sigtype. Also, outer brackets are Proposed Response Response Status W not required so they can be removed. PROPOSED REJECT. SuggestedRemedy

Proposed Response

PROPOSED ACCEPT.

It is not clear why this is necessary. It would help if the commentor gave more details on

Change last term to: "((lpi_fr_sigtype==IDLE) * lpi_fr_active) * ! pcs_data_mode"

Response Status W

why this change is justified.

Cl 55 P 209 # 59 Cl 55 P213 SC 55.3.5.4 L3 SC 55.4.2.2 L 52 # 62 Brown, Matthew Applied Micro (AMCC) Brown. Matthew Applied Micro (AMCC) Comment Type TR Comment Status D Comment Type Ε Comment Status D Figure 55-16. Use of block lock in open transition to RX INIT and FR RX INIT is lower power operation is not commonly used term redundant since it is further qualified by pcs data mode. SugaestedRemedy SuggestedRemedy Change "normal and lower power operation" to "normal and LPI operation". Remove !block lock term from open transition to RX INIT and FR RX INIT. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED REJECT. CI 55 SC 55.4.2.2.1 P214 L 20 Pcs data mode does not exist for legacy 10GBASE-T phys, therefore it needs to remain. Brown, Matthew Applied Micro (AMCC) CI 55 SC 55.3.6.1 P212 L10 # 60 Comment Type Comment Status D Brown, Matthew Applied Micro (AMCC) LDPC frames not being sent Comment Type Comment Status D SuggestedRemedy Grammar. Change "LPDC frames" to "LDPC frame periods". SuggestedRemedy Proposed Response Response Status W Change "indicates that current" to "indicates the current". PROPOSED ACCEPT. Proposed Response Response Status W CI 55 SC 55.4.2.2.1 P214 L 25 # 64 PROPOSED ACCEPT. Brown, Matthew Applied Micro (AMCC) CI 55 SC 55.4.1 P213 **L8** # 61 Comment Type Comment Status D ER Brown, Matthew Applied Micro (AMCC) Use normal form for primitive/parameter. Comment Type ER Comment Status D SuggestedRemedy Figure 55-17. fr_active parameter is not required for EEE nor for normal operation. Change "PMA CONFIG.indication parameter config" to "PMA CONFIG.indication(config)". SuggestedRemedy Proposed Response Response Status W Re-draw dashed rectangle to include only EEE signals. Employ another means to PROPOSED ACCEPT. differentiate FR signals from normal and EEE signals. Add a note to indicate the signals are relevant to FR. # 65 Cl 55 SC 55.4.2.2.1 P215 L2 Proposed Response Response Status W Brown, Matthew Applied Micro (AMCC) PROPOSED ACCEPT. Comment Type Comment Status D ER Use normal form for primitive/parameter. SuggestedRemedy Change "PMA CONFIG.indication parameter config" to "PMA CONFIG.indication(config)". Proposed Response Response Status W PROPOSED ACCEPT.

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: Comment ID

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Proposed Response

PROPOSED ACCEPT.

Response Status W

Cl 55 P215 # 66 C/ 55 SC 55.4.2.2.1 L 22 SC 55.4.2.5.14 P216 L 29 # 69 Brown, Matthew Applied Micro (AMCC) Brown. Matthew Applied Micro (AMCC) Comment Type ER Comment Status D Comment Type T Comment Status D The wake signal is not properly defined here. Either fix or refer to official definition. Similar requirements exist for fast retrain. SuggestedRemedy SugaestedRemedy Change sentence to: "The alert signal is followied by a wake signal as specified in Add sentence. "For PHYs that support fast retrain, further requirements for this transition 55.3.2.2.9a." are described in 55.4.2.5.15." Proposed Response Response Status W Proposed Response Response Status W PROPOSED REJECT. PROPOSED REJECT. The description seems adequate. The reference in the suggested remedy does not give The requirements for fast retrain do not affect normal training. details of the wake signal so would be a poorer choice. CI 55 SC 55.4.2.5.14 P216 L39 # 70 Cl 55 SC 55.4.2.2.2 P 215 L37 Brown, Matthew Applied Micro (AMCC) Applied Micro (AMCC) Brown, Matthew Comment Type T Comment Status D Comment Type ER Comment Status D Similar requirements exist for fast retrain. Use normal form for primitive/parameter. SuggestedRemedy SuggestedRemedy Add sentence, "For PHYs that support fast retrain, further requirements for this transition Change "PMA CONFIG.indication parameter config" to "PMA CONFIG.indication(config)". are described in 55.4.2.5.15.1 Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED REJECT. The requirements for fast retrain do not affect normal training. Cl 55 SC 55.4.2.2.2 P215 L 42 # 68 Brown, Matthew Applied Micro (AMCC) CI 55 SC 55.4.2.5.14 P216 # 71 L 44 Comment Type ER Comment Status D Brown, Matthew Applied Micro (AMCC) Use normal form for primitive/parameter. Comment Type T Comment Status D SuggestedRemedy Can also go to the LPI transmit mode. Change "PMA CONFIG.indication parameter config" to "PMA CONFIG.indication(config)". SuggestedRemedy

Proposed Response

PROPOSED ACCEPT.

Add the following "... and to the LPI transmit mode under control of the local LPI client.".

Response Status W

Cl 55 P216 # 72 C/ 55 P217 # 75 SC 55.4.2.5.15 L 53 SC 55.4.2.6a L38 Brown, Matthew Brown, Matthew Applied Micro (AMCC) Applied Micro (AMCC) Comment Type Ε Comment Status D Comment Type E Comment Status D Grammar. lower power mode is not commonly used term SuggestedRemedy SugaestedRemedy Change "THP turn" to "THP turns". Change "lower power receive mode" to "LPI receiver mode". Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. Change "lower power receive mode" to "LPI receive mode". # 73 CI 55 SC 55.4.2.5.15 P217 L6 Brown, Matthew Applied Micro (AMCC) CI 55 SC 55.4.5.1 P218 L33 # 76 Comment Type ER Comment Status D Brown, Matthew Applied Micro (AMCC) Reference to incorrect figure. Comment Type Comment Status D SuggestedRemedy Use superscript for exponential terms. Change 55-13a to 55-13. SuggestedRemedy Proposed Response Response Status W For 2⁹ and 2⁴, use superscript for 9 and 4, respectively. PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. CI 55 SC 55.4.2.5.15 P217 L7 # 74 Applied Micro (AMCC) Brown, Matthew Cl 55 SC 55.4.5.1 L37 P218 # 77 Comment Type TR Comment Status D Brown, Matthew Applied Micro (AMCC) Relevant to initial or subsequent normal retrain. Comment Type Ε Comment Status D SuggestedRemedy Use superscript for exponential terms. Change "used for initial training" to "used for normal training". Alternately, "used for initial SuggestedRemedy training or normal retraining". For 2⁶ and 2⁴, use superscript for 6 and 4, respectively. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. "used for normal training"

L33

L33

Cl 45 P121 SC 45.2.1.76a.3 14 # 78 Brown, Matthew Applied Micro (AMCC) Comment Type TR Comment Status D What does it mean to disable this bit? SuggestedRemedy Change "disabling this bit" to "setting this bit to 0". Proposed Response Response Status W PROPOSED ACCEPT. CI 45 SC 45.2.1.76a.3 P120 L 36 Brown, Matthew Applied Micro (AMCC) Comment Type TR Comment Status D

A RO status bit is not provided to indicate whether fast retrain was negotiated or not. 1.147.0 does not suffice, since it may be overwritten by the station manager.

SuggestedRemedy

Provide a RO status bit to indicate whether fast retraining was successfully negotiated or not. 1.147.1 is suggested. Name "Fast Retrain Negotiated". Description: "1 = Fast retrain was negotiated; 0 Fast retrain was not negotiated." R/W: "RO".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Define a new register bit:

1.147.2 : Fast retrain negotiated : 1 = PHY has negotiated fast retrain, 0 = PHY has not negotiated fast retrain : read only

Insert 45.2.1.76a.4 Fast retrain ability (1.147.2)

This bit indicates that the PHY has negotiated fast retrain as defined in 55.4.5.1.

C/ 55 SC 55.4.5.1 P219 L18 # 80

Brown, Matthew Applied Micro (AMCC)

Comment Type ER Comment Status D

Common terminology.

SuggestedRemedy

Change "low power receive mode" to "LPI mode".

Proposed Response Status W

PROPOSED ACCEPT.

Cl 55 SC 55.4.6.1 P220

Brown, Matthew Applied Micro (AMCC)

Comment Type TR Comment Status D

Figure 55-24. fr_maxwait_timer_done not defined

SuggestedRemedy

Define fr_max_wait_timer in 55.4.5.2

Proposed Response Response Status W

PROPOSED REJECT.

SC 55.4.6.1

Fr_maxwait_timer is defined in 55.4.5.2 already.

Brown, Matthew Applied Micro (AMCC)

P220

Comment Type TR Comment Status D

Figure 55-27b. link fail sig timer done not defined

SuggestedRemedy

CI 55

Define fr max wait timer in 55.4.5.2

Proposed Response Status W

PROPOSED REJECT.

The comment, response and the reference do not match.

Link fail sig timer is defined on page 219

D3.1 of 802.3az

Cl 55 # 83 C/ 46 P145 SC 55.4.2.5.14 P216 / 49 SC 46.3a.2.2 1 28 # 85 Brown. Matthew Brown, Matthew Applied Micro (AMCC) Applied Micro (AMCC) Comment Type TR Comment Status D Comment Type T Comment Status D The is a pile-on comment for Draft 3.0 comment #359. The response to comment #359 CARRIER status has values CARRIER ON and CARRIER OFF. addresses incorrectly detecting a failed link by optionally replacing the local fault signal with SuggestedRemedy the idle signal during fast retrain. The reponse did not address loss of data during a fast Change "CARRIER STATUS = OFF" to "CARRIER STATUS = CARRIER OFF". retrain. To prevent loss of data, a mechansm is required which informs the MAC to defer transmission: while not indicating a link failure, avoiding adverse effects on MAC clients. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Provide a mechanism to signal from the PHY to the RS a temporary interruption during fast retrain. Provide a mechanism in the RS to cause the MAC to defer transmission of packets Cl 46 SC 46.3a.2.2 P145 L36 while fast retrain is active, particular for a MAC which is connected to a PHY through a Brown, Matthew Applied Micro (AMCC) XAUI interface. To accomplish this create a new character, similar to /LI/, call tentatively /CRS/ (carrier sense). Send /CRS/ continuous to the RX XGMII while fast retrain is active. Comment Type T Comment Status D In the RS, while receiver /CRS/ from the RX XGMII set CARRIER status has values CARRIER ON and CARRIER OFF. PLS_CARRIER.indication(CARRIER_STATUS) to CARRIER_ON. SuggestedRemedy Proposed Response Response Status W Change "CARRIER STATUS = ON" to "CARRIER STATUS = CARRIER ON". PROPOSED REJECT. Proposed Response Response Status W For discussion by the task force. PROPOSED ACCEPT. See also #100. Cl 49 SC 49 P174 L1 # 87 This is out of scope for clause 55. Horner, Rita Avago Technologies Comment Type T Comment Status D C/ 46 SC 46.1.7.3 P140 L42 # 84 TX REFRESH state no longer exists Brown. Matthew Applied Micro (AMCC) SuggestedRemedy Comment Type T Comment Status D revmove the tx tr timer CARRIER status has values CARRIER ON and CARRIER OFF. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Change "CARRIER_STATUS is set to false" to "CARRIER_STATUS is set to CARRIER OFF". SC 49 C/ 49 P178 Proposed Response Response Status W Horner, Rita Avago Technologies PROPOSED ACCEPT. Comment Type T Comment Status D There is a potential dead-lock definition if the timer expires at the same time as tx raw transitions from LI to !LI SuggestedRemedy Remove the !tx ts timer done from the state transition TX SLEEP to TX ACTIVE

Proposed Response

PROPOSED ACCEPT.

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: Comment ID

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Response Status W

C/ 49 SC 49 P178 # 89 Horner, Rita Avago Technologies Comment Type T Comment Status D The exit from TX QUIET should be tx timer done or tx raw !=LI SuggestedRemedy Remove the requirement of !ta timer done on the exit from TX QUIET Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. As per the comment, change the transition to: tx tq timer done + T TYPE(tx raw) !=LI C/ 49 SC 49 P180 L34 # 90 Horner, Rita Avago Technologies Comment Type T Comment Status D

SuggestedRemedy

rx_fault should be changed to "receive fault" as it is referred to in the MDIO definition and in 49.2.14.1. PCS status

Proposed Response Status W PROPOSED ACCEPT.

Correct the defination for rx fault

Brown, Matthew Applied Micro (AMCC)

Comment Type E Comment Status D

label "PLS_Service Primitives" only applies to primitives starting with PLS.

SuggestedRemedy

Change "PLS_Service Primitives" to "PLS Service Primitives" and move to a location within the set of PLS primitives. Add dashed rectangle around PLS service primitives to differentiate from the LPI client service primitives.

Proposed Response Response Status W
PROPOSED ACCEPT.

Brown, Matthew Applied Micro (AMCC)

Comment Type T Comment Status D

Until 1 second after link status is OK, effect of primitive is undefined regardless of its value.

SuggestedRemedy

Delete "or if LPI REQUEST=ASSERT".

Proposed Response Response Status W PROPOSED ACCEPT.

Cl 46 SC 46.3a.1 P144 L30 # 93

Brown, Matthew Applied Micro (AMCC)

While LPI INDICATION is DEASSERT, all behavior is normal.

Comment Status D

SuggestedRemedy

Delete "inter-frame".

Comment Type T

Proposed Response Response Status W

PROPOSED REJECT.

"normal inter-frame behavior" implies that idles are sent between packets (instead of LPI).

Comment Type T Comment Status D

The transition from LPI_K back to LP_IDLE_D is inconsistent with the equivalent legacy transition (RX_K to IDLE_D) when xmit != DATA. If xmit != DATA and SUDI([/KD5.6/]+[/D16.2/]), the state diagram would get stuck into the LPI_K state indefinitely. However, this is highly unlikely. What is more likely is that auto-negotiation is restarted while the receiver is detecting LPI. In this case, the state diagram would remain in the LPI_K state during the data code-group reception, and would transition into the RX_INVALID state (via "F") when the next /K28.5/ is received. At worst, this would force an Auto-Negotiation restart (via RUDI(INVALID)) but this seems like an unneccessary glitch with a straightforward work-around.

SuggestedRemedy

For the transition from LPI_K to LPI_IDLE_D, change the term xmit != DATA ∗ SUDI("member of set of" [/D/]∗![/D21.5/]∗![/D2.2/])) to xmit != DATA ∗ SUDI("member of set of" [/D/] #8727;![/D24.5/]∗!

[/D]∗[/D21.5/]∗[/D2.2/]*![D5.6]*![D16.2])). Also remove the term xmit = DATA from the transition from LPI_K to IDLE_D (via "C").

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Rewriting to clarify the problems in the comment tool:

For the transition from LPI K to LPI IDLE D, change the term

xmit != DATA * SUDI("member of set of" [/D/] * ![/D21.5/] * ![/D2.2/]))

to

xmit != DATA * SUDI("member of set of" [/D/] * ![/D21.5/] * ![/D2.2/] * ![D5.6] * ![D16.2])).

(i.e. 2 elements added to the set of terms)

Also remove the term xmit = DATA from the transition from LPI K to IDLE D (via "C").

C/ 45 SC 45.2.1.76a P120 L19 # 95

Ganga, Ilango Intel Corporation

Comment Type TR Comment Status D

In order to advertise the fast retrain ability (45.7.10), the management needs to know if the PHY is capable of fast retrain. Also the management may choose not to advertise fast retrain ability, to the link partner, even if the local PHY is fast retrain capable. So define a bit to fast retrain ability bit to fast retrain control/status register. This bit will be set to one for PHYs that implement fast retrain capability.

SuggestedRemedy

Add a bit to 1.147, 10GBASE-T fast retrain status & control register, to indicate PHY fast retrain capability

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Define a new register bit:

1.147.3 : Fast retrain ability : 1 = PHY supports fast retrain, 0 = PHY does not support fast retrain : read only

Insert 45.2.1.76a.3 Fast retrain ability (1.147.3)

This bit indicates that the PHY supports fast retrain as defined in 55.4.5.1.

Cl 46 SC 46.1.7.3 P140 L37 # 96
Ganga, llango Intel Corporation

Comment Type TR Comment Status D

The spirit of the EEE objectives is not to drop or corrupt frames; however fast retrain mechanism, as defined, has the potential to drop frames. Some of the upper layer protocols expect no packet drop characterestics and certain reliability at link level. Fast retrain condition may cause frame loss up to several ms. So implement a mechanism that has ability to defer frame transmission during fast retrain.

SuggestedRemedy

Set the PLS_CARRIER.inidication primitive when the PMA indicates fr_active (PMA_FR_ACTIVE.indication) to defer transmission during fast retrain. This will ensure no packet drop during fast retrain.

Proposed Response Status W

PROPOSED REJECT.

The subject of deferral was discussed during the resolution of comment #164 and #361 on draft 3.0. The decision was taken to use Local Fault as the sole means to signal from the PHY to the RS that fast retrain is in progress. The proposed remedy of this comment would add an additional signal to the XGMII to convey the state of the proposed new primitive.

See also comment #100, #97, #83

C/ 55 SC 55.3.2.2.9 P195 L10 # 97

Ganga, Ilango Intel Corporation

Comment Type TR Comment Status D

As per D3.1, either IDLE or Local Fault is generated during fast retrain. Currently local fault may be used to trigger link failure condition to the higher layers. At a system level such link failure conditions may be used to initiate link failover mechanisms for high availability. Asserting local fault does not unambiguously indicate if the local fault is due to link failure or fast retrain. Any timeout mechanisms to delay signaling link failure to higher layers may delay the highavailability/failover features to take effect. So it is best to define a separate control code to indicate fr_active (PMA_FR_ACTIVE.indication) to the RS sublayer. This could be used to signal a fast retrain condition.

SuggestedRemedy

 Define a seprate control code to indicate fast retrain condition to the higher layers (RS sublayer). Providing fr active signal allows systems flexibility to implement failover/lossless characteristics.
 For the PHYs that support fast retrain, specify an option to assert PLS_CARRIER.indication during fast retrain active that allows tx deferral.

Proposed Response Status W

PROPOSED REJECT.

This was discussed at the previous meeting and the taskforce could not reach agreement on making this change.

For further discussion by the taskforce.

C/ 46 SC 46.1.7.3 P140 L41 # 98

Ganga, Ilango Intel Corporation

Comment Type TR Comment Status D

Assertion of CARRIER_STATUS by the RS should be based upon LPI_REQUEST not LPI_INDICATE. i.e., it is based upon the transmit LPI state, not the receive side. This statement in 46.1.7.3 is inconsistent with the reference state diagram (46-10a) and the description in 78.1.3.1.

SuggestedRemedy

Change LPI_INDICATION to LPI_REQUEST

Proposed Response Status W

Cl 45 SC 45.2.1.76a P120 L20 # 99

Ganga, llango Intel Corporation

Comment Type TR Comment Status D

It appears that the response to Comment #359 has not been fully implemented. Implement the changes to Clause 45 as per response to #359

SuggestedRemedy

Also make the following changes to Clause 45:

Define a new register bit:

1.147.1 : Fast retrain signal type : 1 = send IDLE during fast retrain, 0 = send local fault during fast retrain

Insert 45.2.1.76a.2 Fast retrain signal type (1.147.1)

For PHYs that support fast retrain, this bit maps to lpi_fr_sigtype as defined in 55.4.5.1. When Fast retrain signal type is set to one, the PMA sends IDLE characters on the receive path during fast retrain. When Fast retrain signal type is set to zero, the PMA sends local fault on the receive path during fast retrain.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Accept the proposed response except that the subclause number will be 45.2.1.76a.5 (if comments #95 and #79 are accepted).

CI 55 SC 55 P187 L # 100
Ganga, Ilango Intel Corporation

Comment Type TR Comment Status D

As per D3.1, there is an option in the PMA to either send IDLE or Local Fault during fast retrain. However it is possible for one link partner to enable IDLE and other link partner may enable to send Local Fault condition. So the link partners may have different settings at either end of the link and this may cause inconsistent behaviour at the link/system level.

SuggestedRemedy

One possibility is to provide a mechanism to advertise the fast retrain signal type along with fast retrain ability, so both link partner can enable this feature consistently. Alternatively do not provide an optional feature, just specify one mechanism to signal fast retrain active condition. This will ensure consistent behavior at the either end of the link.

Proposed Response Status W

PROPOSED REJECT.

The host system decides whether it wishes to receive local fault or idles during a fast retrain. It is not clear why the system behaviour needs to be symmetric.

There are several other comments addressing XGMII signaling during fast retrain and this response may be be changed by those responses.

(see)

Cl 78 SC 78.1.3.2 P256 L8 # 101

Brown, Matthew Applied Micro (AMCC)

Comment Type E Comment Status D

Use primitive/parameter name.

SuggestedRemedy

Change "the LPI_INDICATION parameter to ASSERT in the LP_IDLE indication primitive of the LPI Client service interface" to "LP_IDLE.indication(LPI_INDICATION) to ASSERT"

Proposed Response Status W

PROPOSED ACCEPT.

Cl 78 SC 78.1.3.2 P256 L12 # 102

Brown, Matthew Applied Micro (AMCC)

Comment Type E Comment Status D

Use primitive/parameter name.

SuggestedRemedy

Change "the LPI_INDICATION parameter is set to DE-ASSERT in the LP_IDLE indication primitive of the LPI Clinet service interface" to "LP_IDLE.indication(LPI_INDICATION) is set to DE-ASSERT"

Proposed Response Status W PROPOSED ACCEPT.

CI 78 SC 78.1.4 P257 L26

Brown, Matthew Applied Micro (AMCC)

Comment Type E Comment Status D

Table 78-1. All relevant clauses should be listed here. In particular, for 100BASE-TX clause 25 should be listed.

SuggestedRemedy

For 100BASE-TX list 24 and 25. For 1000BASE-KX list 70, 35. For 10GBASE-KX4 list 71, 48. For 10GBASE-KR list 72, 51, 49.

Proposed Response Status W PROPOSED ACCEPT.