Cl 76 SC 76.3.2.5.2 P 622 L 54 # [i-1]
Hajduczenia, Marek Bright House Network

Comment Type TR Comment Status X

Definition of SH_DATA and SH_CTRL is incorrect. They both contain exactly the same description and their binary representation is the same (10), which is incorrect. Based on the historic search through revisions, it seems that Maintenance Request 1218 (http://www.ieee802.org/3/maint/requests/maint_1218.pdf) has not been implemented correctly in 802.3-2012 in the first version of the draft and then it was not captured during ballot.

SuggestedRemedy

Use the following definitions for SH DATA and SH CTRL. Make sure that links are live.

SH DATA

Type: 2-bit unsigned

The value of synchronization header indicating a that the given 66-bit block is a data block,

as defined in 49.2.4.3.

Value: 0x02 (binary representation 10)

SH CTRL

Type: 2-bit unsigned

The value of synchronization header indicating that the given 66-bit block is a control block,

as defined in 49.2.4.3.

Value: 0x01 (binary representation 01)

Proposed Response Status O

 C/ 30
 SC 30.3.2
 P 387
 L 29
 # [i-2]

 Hajduczenia, Marek
 Bright House Network

Comment Type T Comment Status X

Title of subclause 30.3.2 seems odd: "PHY devicePHY device managed object class" - it seems that "PHY device" is repeated unnecessarily.

As far as I can trace, it is also present even in 802.3-2000.

SuggestedRemedy

Remove one instance of "PHY device" from title of 30.3.2 - it is a "PHY device managed

object class"

Proposed Response Response Status O

Cl 77 SC 77.2.2.3 P 662 L 45 # [<u>i-3</u>

Hajduczenia, Marek Bright House Network

Comment Type T Comment Status X

"In the ONU, this variable is assigned in the GATE Processing ONU Activation state diagram (see Figure 77-14)." is incorrect. Figure 77-14 (page 671) is the ONU Control Multiplexer state diagram

SuggestedRemedy

Change "GATE Processing ONU Activation state diagram" to "ONU Control Multiplexer state diagram"

Proposed Response Status O

Cl 77 SC 77.5.4.3 P714 L11 # [i-4

Hajduczenia, Marek Bright House Network

Comment Type ER Comment Status X

Items SM3 through SM5 have incorrect cross references to figures. For example, ONU Control Parser mentioned in SM3 is pointed to Figure 77-14, and should point to Figure 77-12 instead (page 669)

SuggestedRemedy

Implement the following changes:

in SM3, change Figure 77-14 to Figure 77-12

in SM4, change Figure 77-15 to Figure 77-13

in SM5, change Figure 77-16 to Figure 77-14

Proposed Response Status O

Comment Type E Comment Status X

Text size in SM2 through SM5 in Value/Comment column is larger than in SM1. SM7 etc.

SuggestedRemedy

Align the text size in SM2 through SM5 in Value/Comment column with the remainder of PICS tables

Proposed Response Status O

C/ 81 SC 81.2.2 P 107 # i-6 L 11

RAN, ADEE Intel Corporation

Comment Status X Bit sequence of preamble and SFD is badly formatted. Compare to 46.2.2

SuggestedRemedy

Comment Type

Reformat similar to 46.2.2

Ε

Proposed Response Response Status O

Cl 45 SC 45.2.1.102 P 136 / 44 # i-7 RAN. ADEE Intel Corporation

Comment Type Ε Comment Status X

Table 45-80, in row 1, "Name" does not match the title of 45.2.1.102.1 (PCS align status); and in row 2, "Name" does not match the title of 45.2.1.102.2 (RS-FEC align status).

The subclause titles seem more appropriate for re-use in 802.3bv (where both the RS-FEC and the PCS are single-lane). Also, "PCS lane alignment status" can be confused with the PCS variable (Table 45-136).

SuggestedRemedy

Change table "name" fields to match subclause titles:

In row 1, change name to "PCS align status".

In row 2, change name to "RS-FEC align status".

Change "PCS lane alignment status" to "PCS align status" in 45.2.1.110 accordingly.

Proposed Response Response Status 0

i-8 Cl 45 SC 45.2.1.102.3 P 137 L 37 RAN. ADEE Intel Corporation

Comment Type T Comment Status X

Following the change in the definition of amps lock in D2.1 (comment #66 on D2.0), it seems that the text here and in 45.2.1.102.4, 45.2.1.102.5 and 45.2.1.102.6 should change accordingly.

SuggestedRemedy

Change "FEC lane 3" to "Lane 3 of the PMA service interface", and similarly for lanes 2, 1, and 0.

Proposed Response Response Status 0 Cl 85 P 222 # i-9 SC 85.7.2 L 17 RAN, ADEE Intel Corporation

Comment Type Т Comment Status X

Text refers to "preset state specified in 85.8.3.3.1" but there is no specification of preset there (only initialize).

Preset is defined in 72.6.10.2.3.1 and referred to in 85.8.3.3 (item 1, page 228 line 6) in the context of measurement procedure - but the response to PRESET request is not defined anywhere in clause 85.

Similar issues in clause 92 (92.7.2 refers to 92.8.3.5, which does not fully define the preset state - only initialize is defined in 92.8.3.5.3) and in clause 93 (93.7.2 refers to 93.8.1.5, only initialize defined in 93.8.1.5.3).

SuggestedRemedy

Either of the following:

- 1. Add a new subclause defining preset after 85.8.3.3.1 (using 94.3.10.6.1 as a model) and refer to it instead.
- 2. Add content to 85.8.3.3.1 that describes response to PRESET request, and change its title accordingly.

Apply the chosen remedy in clauses 92 and 93 too.

Proposed Response Response Status 0

Cl 91 SC 91.5.4.2.1 P 389 / 28 # i-10

RAN. ADEE Intel Corporation

Comment Type T Comment Status X

current pcsl and first pcsl definitions were changed from using "FEC lane" to "lane of the PMA service interface", apparently as a result of comment #66 on D2.0.

This change was not requested in the comment and does not seem to be justified: "FEC lane" is used throughout clause 91 and the old definitions are just as valid (comment #66 only refers to amps_lock).

SugaestedRemedy

Change the definitions of current pcsl and first pcsl back to the text in D2.0 (and in the original 802.3bj).

Proposed Response Response Status O

C/ 91 SC 91.6 P 397 L 43 # i-11 Cl 92 SC 92.14.4.2 P 450 L 14 # i-14 RAN, ADEE Intel Corporation RAN, ADEE Intel Corporation Comment Type Т Comment Status X Comment Type G Comment Status X Table 91-4, row 1 refers to the variable "align status", which is not defined in the RS-FEC MF10 seems to be a duplicate of MF9 sublaver. This should be "rx align status". (align status is a PCS variable that reflects the SuggestedRemedy initial lane alignment and does not change during LPI QUIET periods; the RS-FEC does Delete MF10 row not need such a variable). Proposed Response SuggestedRemedy Response Status O Change "align status" to "rx align status". Proposed Response Response Status O P 471 Cl 93 SC 93.8.2.4 L 16 # i-15 RAN. ADEE Intel Corporation CI 92 SC 92.1 P 405 L 49 # i-12 Comment Type T Comment Status X RAN, ADEE Intel Corporation Wrong variable name: FEC symbol error i should be FEC symbol error counter i (see 91.6.11). Also in 94.3.13.4.2 and 93C.2. Comment Status X Comment Type SugaestedRemedy "Figure 93-1 shows the relationship of the 100GBASE-CR4 PMD sublayers..." Change all instances of FEC symbol error i to FEC symbol error counter i This text seems to be inherited from clause 85 which had two PMDs (CR4 and CR10). But Proposed Response Response Status O in this clause there is only one PMD (100GBASE-CR4). Likewise in 93.1. (KR4) SuggestedRemedy Cl 93 SC 93.11.4.5 P 482 L 25 # i-16 Change "sublayers" to "sublayer" here and in 93.1 (page 454 line 43). RAN. ADEE Intel Corporation Proposed Response Response Status 0 Comment Type E Comment Status X Typo in ES1 "Feature". SC 92.11.1.2 P 435 L 42 SuggestedRemedy CI 92 # i-13 RAN, ADEE Intel Corporation Change "Generate" to "General". Proposed Response Comment Type T Comment Status X Response Status O In Figure 92-16, the y axis label does not match the figure title and content. SuggestedRemedy

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

Change "Insertion loss" to "Return loss" in y axis label.

Response Status O

Proposed Response

C/ 31B SC 31B.3.7 P 742 L 40 # i-17 Cl 49 P 390 L 26 SC 49.2.13.2 # i-20 RAN, ADEE Intel Corporation RAN, ADEE Intel Corporation Comment Type Т Comment Status X Comment Type Ε Comment Status X "Pause guantum bit times" used in several instances is a dimension mismatch. In definition of test amp, "Boolean variable this is set..." seems incorrect. Pause quantum is defined earlier as a period of time, rather than a pure number, and bit SuggestedRemedy time has dimension of time too. Change "this is" to "that is". SuggestedRemedy Proposed Response Response Status O Change "more than pause quantum bit times" to "one pause quantum". Change "(pause quantum + 64) bit times" in line 43 to "one pause quantum + 64 BT". Change "pause" quantum bit times to "pause" quanta" on page 742 line 45, line 49, and line 51, and on page 743 line 2, and line 5. Cl 49 P 405 SC 49.2.8 L 14 Apply similar changes to the corresponding PICS. RAN. ADEE Intel Corporation Proposed Response Response Status O Comment Type E Comment Status X "The optional PRBS9 pattern is defined in 68.6.1" - but 68.6.1 does not define PRBS9 (it only mentions it). C/ 00 SC 0 P L # i-18 The appropriate definition appears in a footnote of table 68-6. RAN. ADEE Intel Corporation SuggestedRemedy Comment Type Comment Status X Change "in 68.6.1" to "in footnote a of Table 68-6". In the 2012 edition and in past projects, annex top-level bookmarks included the title, Alternatively, copy the definition from the footnote here instead of referring to it. similar to the clauses. In this project, only the annex label is included - the title is a second-Proposed Response Response Status O level bookmark. This can make life more difficult for readers. SuggestedRemedy Change whatever is needed so that annex top-level bookmarks include the title. Cl 49 SC 49.2.13.2 P 408 L 32 # i-22 RAN. ADEE Intel Corporation Proposed Response Response Status 0 Comment Type T Comment Status X Definition of signal ok uses wrong primitive names, C/ 01 SC 1.4.117 P 76 L 39 # i-19 PMA_UNITDATA.indication(SIGNAL_OK), and likewise for WIS. This is not the signal RAN, ADEE Intel Corporation indication SuggestedRemedy Comment Type T Comment Status X Change PMA UNITDATA.indication(SIGNAL OK) to In the definition of bit time (BT), the example states the bit rate in 100BASE-T, but it is PMA SIGNAL indication(SIGNAL OK), and similarly for WIS. actually the bit time.

Proposed Response

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

SuggestedRemedy

Proposed Response

Change "bit rate" to "bit time".

Response Status O

Comment ID i-22

Response Status O

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Cl 71 SC 71.2 P 445 L 1 # [i-23]
RAN, ADEE Intel Corporation

Comment Type E Comment Status X

The EEE service interface primitives are followed by "These messages are defined for the PCS in 48.2.6.1.6." But 48.2.6.1.6 does not define messages - it defines PCS timers. This seems to be an incorrect reference - messages are listed in 48.2.6.1.7.

SuggestedRemedy

Change "48.2.6.1.6" to "48.2.6.1.7".

Proposed Response Status O

Cl 72 SC 72.1 P 465 L 25 # [i-24

RAN, ADEE Intel Corporation

Comment Type E Comment Status X

Clause 74 is labeled "FEC" here, but FEC has become a generic term. Clause 74 is now titled "FEC sublayer for BASE-R PHYs". In recent projects it is often referred to as BASE-R FEC. It would be advisable to make this consistent.

Suggest using the term "BASE-R FEC" consistently when referring specifically to clause 74, and the term "RS-FEC" consistently when referring specifically to clause 91. "FEC" should be used when referring to either one.

SuggestedRemedy

Change "FEC" to "BASE-R FEC", here and in the following additional places:

80.1.4, page 78, line 47 and line 51 (second instance)

80.3.1, page 83, line 35

Figures 80-2 and 80-3 (the sublayer is specifically BASE-R FEC)

Figure 80-5 "FEC or RS-FEC" block - change to either "FEC" or "BASE-R FEC or RS-FEC"

80.3.3.6, page 90 lines 41 and 43

80.3.3.6.3, page 91 lines 8 and 9

Figures 80-6 and 80-7

82.1.4, page 130 lines 15, 17

82.2.19.2.2, page 152 line 3

Figure 83-2

Table 84-1 (change "FEC for BASE-R" to "BASE-R FEC")

Figure 84-1

Table 85-1

Figure 85-1 (and add "optional")

Editorial license should be granted.

Proposed Response Status O

Cl 72 SC 72.2 P 466 L 8 # [i-25

RAN, ADEE Intel Corporation

Comment Type T Comment Status X

The EEE service interface primitives are followed by "These messages are defined for the PCS in 49.2.13.2.2." But 49.2.13.2.2 does not define messages - it defines PCS variables. There is no "messages" subclause in clause 49.

SuggestedRemedy

Change

"These messages are defined for the PCS in 49.2.13.2.2."

to

"These messages affect the PCS variables as described in 49.2.13.2.2."

Proposed Response Response Status O

Cl 51 SC 51.2.3 P 466 L 32 # <u>i-26</u>

RAN, ADEE Intel Corporation

Comment Type T Comment Status X

PMA SIGNAL.indication, as defined, does not use

PMD_SIGNAL.indication(SIGNAL_DETECT) received from the PMD. The PMD in clause 72 uses SIGNAL_DETECT to convey the status of the PMD training, so its value should be propagated over the PMA. Other 10G serial PMDs also provide this signal.

SuggestedRemedy

Insert before "to the PMA client.":

"and the value of PMD SIGNAL.indication(SIGNAL DETECT) ".

Proposed Response Response Status O

Cl 93A SC 93A.1 P 683 L 9 # [i-27]
RAN, ADEE Intel Corporation

Comment Type T Comment Status X

In Table 93A-2, Physical Layer specifications that employ COM, 100GBASE-CR4 (Clause 92) is missing.

SuggestedRemedy

Add a Row in this table for 100GBASE-CR4 (Clause 92), using parameter values in Table 93-8

Proposed Response Response Status O

C/ 31B P 740 # i-28 CI 44 SC 44.1.3 P 38 SC 31B.3.4.2 L 31 L 38 # i-31 RAN, ADEE Intel Corporation Marris, Arthur Cadence Design Syst Comment Type Ε Comment Status X Comment Type TR Comment Status X "pause quanta" (with a space) is used in the definition of n quanta tx, but most of the 10G Ethernet is full duplex only so why describe the MAC as "the IEEE 802.3 (CSMA/CD) occurrences in the standard use "pause quanta" instead. Consistent use of the underscore MAC"? version is suggested. SuggestedRemedy Change: "the IEEE 802.3 (CSMA/CD) MAC" A few other occurrences with a space should be corrected as well. To: "the IEEE 802.3 MAC" SuggestedRemedy Change "pause quanta" to "pause quanta" here, and in the following additional places: also scrub the rest of the document and either delete "CSMA/CD" or replace with the word "Ethernet" when the standard is concerned with 10G speeds and above. 1, 71.4, page 446 line 11 2. 74.6, page 546 line 15, line 18 and line 21 Proposed Response Response Status O 3. 74.11.3, page 561 line 7, 8 and 10 4. 83.7.3. page 198 line 37. line 40. Proposed Response Response Status 0 Cl 45 SC 45.2.1.10.1 P70 / 15 # i-32 Marris. Arthur Cadence Design Syst Cl 45 SC 45.2.1.1.3 P 54 / 46 # i-29 Comment Type TR Comment Status X Missing definition for bit 1.11.10 40G/100G extended abilities. Marris, Arthur Cadence Design Syst Comment Status X SuggestedRemedy Comment Type Ε Add new 45.2.1.10.1 and renumber existing subclauses Missing space SuggestedRemedy 45.2.1.10.1 40G/100G extended abilities (1.11.10) Change: 45.2.1.1.3 Speed selection (1.0.13,1.0.6, 1.0.5:2) When read as a one, bit 1.11.10 indicates that the PMA/PMD has 40G/100G abilities To: 45.2.1.1.3 Speed selection (1.0.13, 1.0.6, 1.0.5:2) listed in register 1.13. When read as a zero, bit 1.11.10 indicates that the PMA/PMD does not have 40G/100G abilities. Proposed Response Response Status 0 Proposed Response Response Status O CI 73 SC 73.10.1 P 519 / 21 # i-30 C/ 01 SC 1.4.102 P 75 L 43 # i-33 Marris. Arthur Cadence Design Syst Marris. Arthur Cadence Design Syst Comment Type Ε Comment Status X Comment Type T Comment Status X Spelling No references to Clauses 37 and 73. SuggestedRemedy SuggestedRemedy Change: ENABLE; connects the PMD (both tranmit and receive) to the MDI. Change to: To: ENABLE; connects the PMD (both transmit and receive) to the MDI. 1.4.102 Auto-Negotiation: The algorithm that allows two devices at either end of a link segment to negotiate common data service functions. (See IEEE Std 802.3, Clause 28, and run spell check to look for similar typos. Clause 37 and Clause 73.) Proposed Response Proposed Response Response Status O Response Status O

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

Comment ID i-33

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C/ 30 P 445 # i-34 SC 30.6.1.1.5 L 3 Marris, Arthur Cadence Design Syst Comment Type Ε Comment Status X Extra space SuggestedRemedy Remove extra space before "Full duplex 1000BASE-X as specified in Clause 31 and Clause 36" Proposed Response Response Status O CI 45 SC 45.2.1.101.2 P 136 L 32 # i-35 Cadence Design Syst Marris, Arthur Comment Type ER Comment Status X "(see 91.5.3.3)" is first mentioned in 45.2.1.101.1 and then unnecessarily repeated in subsequent subclauses. SuggestedRemedy

page 138.

Proposed Response Response Status O

Cl 73 SC 73.10.1 P 516 L 43 # [-36

Delete "(see 91.5.3.3)" on lines 32 and 33 on page 136. And on lines 10. 17 and 23 on

Marris, Arthur Cadence Design Syst

Comment Type TR Comment Status X

PD should only be for the 1000BASE-KX PMA and 10GBASE-KX4 PMA as these are the only two PHYs that support parallel detect and should have link_control_[PD] <= SCAN_FOR_CARRIER set in the Arbitration state diagram of Figure 73-11. It should not be a requirement to "SCAN_FOR_CARRIER; connects the PMD receiver to the MDI and isolates the PMD transmitter from the link." for any other PHY type.

SuggestedRemedy

Change to:

PD; represents all of the following that are present: 1000BASE-KX PMA or 10GBASE-KX4

PMA

Proposed Response Status O

Cl 74 SC 74.2 P537 L 19 # [i_37

Marris, Arthur Cadence Design Syst

Comment Type T Comment Status X

Delete "74.2 Objectives" as has been done for 80.1.2. It is cumbersome keeping this list up-to-date whenever a new speed or PHY type is added.

SuggestedRemedy

Change to:

74.2 Objectives

NOTE--The contents of this subclause have been deleted.

Proposed Response Response Status O

Cl 69 SC 69.1.1 P 420 L 8 # [i-38

Marris, Arthur Cadence Design Syst

Comment Type E Comment Status X

The font size of the first paragraph seems too small

SuggestedRemedy

Correct font size

Proposed Response Response Status O

C/ 69 SC 69.1.1 P 420 L 12 # [i-39

Marris, Arthur Cadence Design Syst

Comment Type TR Comment Status X

The second paragraph does not read well and the list of PHY types is cumbersome making it awkward to add new ones for new speeds.

SuggestedRemedy

Change to:

Backplane Ethernet supports the IEEE 802.3 full duplex MAC operating at 1000 Mb/s, 10 Gb/s, 40 Gb/s, or 100 Gb/s providing a bit error ratio (BER) better than or equal to 10-12 at the MAC/PLS service interface. The following Physical Layers are supported:

- * 1000BASE-KX for 1 Gb/s
- * 10GBASE-KX4 for 10 Gb/s four-lane
- * 10GBASE-KR for 10 Gb/s single-lane
- * 40GBASE-KR4 for 40 Gb/s four-lane
- * 100GBASE-KR4 and 100GBASE-KP4 for 100 Gb/s four-lane

Proposed Response Response Status O

Cl 69 SC 69.1.2 P 422 # i-40 C/ 00 SC 0 P 233 L 29 L 34 # i-43 Anslow, Peter Ciena Corporation Marris, Arthur Cadence Design Syst Comment Type TR Comment Status X Comment Type E Comment Status X "69.1.2 Relationship of Backplane Ethernet to the ISO OSI reference model" has nothing to The draft is almost consistent in its use of "signaling" rather than "signalling". do with how GMII and XGMII are defined. There are 707 instances of "signaling" and 6 instances of "signalling". These are in 45.2.5.8.2 (2 instances), 55.3.5.3 (2 instances), 55.4.5.4, and 94.4.3. So delete "It is important to note that, while this specification defines interfaces in terms of SuggestedRemedy bits, octets, and frames, implementers may choose other data-path widths for Change all 6 instances to "signaling" implementation convenience. The only exceptions are as follows: and the list that follows. Proposed Response SuggestedRemedy Response Status O Delete text from lines 34 to 54 on page 422. Proposed Response Response Status O C/ 45 SC 45.2.1.1.3 P 54 L 46 # i-44 Anslow. Peter Ciena Corporation Comment Type E Comment Status X Cl 73 SC 73.7.7.1.1 P 514 L 22 # i-41 Marris. Arthur Cadence Design Syst Space missing in title of 45.2.1.1.3 Comment Type Ε Comment Status X SuggestedRemedy Wrong paragraph type. Change: "Speed selection (1.0.13,1.0.6, 1.0.5:2)" to: Change "73.7.7.1.1" to "73.7.7.2" "Speed selection (1.0.13, 1.0.6, 1.0.5;2)" SuggestedRemedy Proposed Response Response Status O Change "73.7.7.1.1" to "73.7.7.2" Proposed Response Response Status O C/ 45 SC 45.2.3.6 P 182 L 14 # i-45 Anslow, Peter Ciena Corporation SC 73.7 P 510 # i-42 Cl 73 L 19 Comment Type Comment Status X Marris. Arthur Cadence Design Syst Footnote a to Table 45-123 is "aR/W = Read/Write", but the column also includes an "RO" Comment Type Comment Status X Т SuggestedRemedy The second sentence does not read very well and does not mention the DME receiver. Change the footnote to "aRO = Read only, R/W = Read/Write" SuggestedRemedy Check the footnotes to the other tables in Clause 45 so that they reflect the entries in the Change: R/W column. The receive function incorporates a receive switch to control connection to the 1000BASE-Proposed Response Response Status O KX. 10GBASE-KX4. 10GBASE-KR 40GBASE-KR4. 40GBASE-CR4. 100GBASE-CR10. 100GBASE-KR4, 100GBASE-KP4, or 100GBASE-CR4 PHYs.

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

"The receive function incorporates a receive switch to control connection of the MDI to the

Response Status O

To:

Proposed Response

DME page receiver or PHY."

Comment ID i-45

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Cl 45 SC 45.2.1.89 P 126 # i-46 Cl 45 SC 45.2.1 P 49 L 19 L 6 # i-49 Anslow, Peter Ciena Corporation Anslow, Peter Ciena Corporation Comment Type Ε Comment Status X Comment Type E Comment Status X The rightmost column heading for tables 45-69, 45-204, and 45-209 differ from the rest of In Table 45-3, some entries in the "Register name" column end in "register". This is the tables in Clause 45 in being labelled "RO" rather than "R/W" incorrect as it would result in having to refer to the "PMA/PMD extended ability register register" SuggestedRemedy SuggestedRemedy Change the rightmost column heading for tables 45-69, 45-204, and 45-209 from "RO" to "R/W" Remove the word "register" or "registers" from the end of any entries in the "Register name" column of Table 45-3 Proposed Response Response Status 0 Proposed Response Response Status O P 125 Cl 45 SC 45.2.1.88 12 # i-47 C/ 45 SC 45.2.1.6 P 59 L 12 # i-50 Ciena Corporation Anslow, Peter Anslow. Peter Ciena Corporation Comment Type Comment Status X Ε Comment Type E Comment Status X Subclauses 45.2.1.88 and 45.2.1.89 contain no text Register 1.7 is the PMA/PMD control 2 register. However the text in 45.2.1.6 is: SuggestedRemedy "The assignment of bits in the 10G PMA/PMD control 2 register is shown in Table 45-7." Add to subclause 45.2.1.88: which includes a spurious "10G". "The assignment of bits in the 1000BASE-KX control register is shown in Table 45-68." SuggestedRemedy Add to subclause 45.2.1.89: Remove the "10G" "The assignment of bits in the 1000BASE-KX status register is shown in Table 45-69." Proposed Response Response Status O Proposed Response Response Status O Cl 45 SC 45.2.1.1 P 53 L 37 # i-48 Cl 45 SC 45.2.1.6 P 60 L 21 # i-51 Anslow, Peter Ciena Corporation Anslow, Peter Ciena Corporation Comment Type Ε Comment Status X Comment Type Comment Status X In some tables in Clause 45, in the description column there are entries that look like those Throughout Clause 45, reserved bits are just labelled "reserved". In the row for bits 1.7.5:0 there are occurrences of both "reserved" and "reserved for future use". for bits 1.0.13, 1.0.6, and 1.0.5;2. In some cases, the headings of the columns of bit values are in underline font, but some are not. The meaning of the underline is not clear. SuggestedRemedy For bit 1.0.6, the headings are only partly underlined. Change the two instances of "reserved for future use" to "reserved" The use of underline font here makes showing changes in amendment text difficult. Proposed Response Response Status O SuggestedRemedy Either remove the underlining (preferred option) or make the use of underline font

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

consistent).

Proposed Response

Response Status 0

Comment ID i-51

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C/ 00 SC 0 P 89 L 19 # i-52 C/ 00 SC 0 Ρ L # i-54 Anslow, Peter Ciena Corporation Anslow, Peter Ciena Corporation Comment Type Comment Status X Comment Type E Comment Status X The PICS proforma tables in the draft are inconsistent regarding the text in the The draft is not consistent in its use of hyphens associated with AC and DC. There are: "Implementation identification" section. There are: 33 instances of "AC-coupled" (3 of which are "ac-coupled") 69 instances of "Contact point for enquiries about the PICS" 44 instances of "AC-coupling" 4 instances of "DC-blocking" 14 instances of "Contact point for queries about the PICS" 1 instance of "Contact point for inquiries about the PICS" 5 instances of "DC-referenced" Despite being the most numerous, the word "enquiries" is not preferred by the IEEE and 2 instances of "dc-balanced" the publication editor has proposed to change to "inquiries" in the IEEE 802.3bm-2015 25 instances of "AC coupled" (2 of which are "ac coupled") 49 instances of "AC coupling" (1 of which is "ac coupling") amendment. 1 instance of "DC coupled" SuggestedRemedy 5 instances of "DC blocking" Change all instances to "inquiries" 3 instances of "DC balanced" Proposed Response Response Status O SuggestedRemedy Change all instances to "AC-coupled", "AC-coupling", "DC-blocking", "DC-referenced", or "DC-balanced" as appropriate. Cl 94 SC 94.6 P 532 L 1 # i-53 Proposed Response Response Status O Anslow. Peter Ciena Corporation Comment Type Ε Comment Status X Ρ C/ 00 SC 0 # i-55 In the title of 94.6, the text after "Protocol implementation conformance statement (PICS) Anslow, Peter proforma for Clause 94, " is: Ciena Corporation "Physical Medium Attachment (PMA) and Physical Medium Dependent (PMD) sublayer Comment Type Ε Comment Status X and baseband medium, type 100GBASE-KP4" Now that IEEE Std 802.3bm-2015 has been published, the changes made during the but the title of Clause 94 is: publication process should be incorporated into the draft. "Physical Medium Attachment (PMA) sublayer, Physical Medium Dependent (PMD) sublayer, and baseband medium, type 100GBASE-KP4" SugaestedRemedy There is a similar issue with the text in 94.6.1 and in the table in 94.6.2.2. Incorporate the changes made during the publication process of IEEE Std 802.3bm-2015 SuggestedRemedy into the draft Use the exact wording of the Clause 94 title in the title of 94.6, the text in 94.6.1, and in the Proposed Response Response Status O

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

table in 94.6.2.2

Proposed Response

Response Status O

SC 45.2.5.10 Cl 45 P 234 L 12 # i-56 Cl 73 P 519 SC 73.10.1 L 14 Ciena Corporation RAN, ADEE Anslow, Peter Intel Corporation Comment Type Т Comment Status X Comment Type T Comment Status X Maintenance request http://www.ieee802.org/3/maint/requests/maint 1114.pdf changed bit link control is actually a set of variables, one for each technology-dependent PMD. In Figure 73-11, these variables are set independently. As indicated by the first paragraph of 5.24.10 to: Bit(s) Name Description R/W in 73.10.1, the definition of link_control should have "_[x]" appended to the variable name. 5.24.10 Ignored Value 0 or 1, writes ignored RO with no subclause (expected to be 45.2.5.10.3) explaining the meaning of the bit allocation. Applies to link status as well. The rationale from the maintenance request appears to be that a single device may SuggestedRemedy implement register 5.24 or 4.24 depending on whether it is a DTE XS device or a PHY XS Change "link control" to "link control [x]" (line 14) device. Without the text of the maintenance request to refer to, this is difficult to Change "link status" to "link status [x]" (line 22) understand. Proposed Response Response Status O SuggestedRemedy Insert a new subclause 45.2.5.10.3 to define this bit: 45.2.5.10.3 Ignored So that a single device can implement either register 4.24 or register 5.24, bit 5.24.10 can Cl 73 SC 73.10.1 P 516 / 21 return either a one or a zero and should be ignored. RAN. ADEE Intel Corporation Proposed Response Response Status 0 Comment Type T Comment Status X Some of the link control [x] variables are defined with respect to PMA, while others are defined with respect to PMD. All supported PHYs include PMD sublayers, and the C/ 01 SC 1.4.131 P 77 / 51 # i-57 architecture diagrams indicate that the AN interfaces these PMDs. Anslow, Peter Ciena Corporation SugaestedRemedy Comment Type Comment Status X Change "PMA" to "PMD" in variables all, 1GKX, 10GKR, 10GKX4, HCD, notHCD, and PD. The IEEE style manual says that 4 digit numbers should not include a thousands separator Proposed Response Response Status 0 (which would be space) unless in a column with 5 digit numbers. SuggestedRemedy Change "1,000" to "1000" Proposed Response Response Status 0 Cl 62 SC 62.4.4.2 P 272 / 12 # i-58 Anslow. Peter Ciena Corporation Comment Type Comment Status X

The IEEE style manual says that 4 digit numbers should not include a thousands separator

(which would be space) unless in a column with 5 digit numbers.

Response Status O

SuggestedRemedy

Proposed Response

Change "4.096" to "4096"

i-59

i-60

Cl 73 SC 73.10.1 P 516 # i-61 CI 73 P 528 L 23 SC 73.10.4 L 18 # i-64 RAN, ADEE RAN, ADEE Intel Corporation Intel Corporation Comment Type Т Comment Status X Comment Type Ε Comment Status X "represents that the 1000BASE-KX PMA is the signal source" literally means that Superfluous "+" at the end of condition for transition from ABILITY DETECT to LINK STATUS CHECK. link control [1GKX]=true. But it can also be false, in which case 1000BASE-KX PMA is not the signal source, and can also refer to link status instead of link control. SuggestedRemedy Delete the last "+". A simpler and more general phrasing is "represents the 1000BASE-KX PMD" (PMD rather than PMA, as addressed by another comment). Proposed Response Response Status O Applies to all other specific PMDs in this list. SuggestedRemedy CI 73 SC 73.7.4 P 510 L 49 # i-65 Change "represents that <x> is the signal source" to "represents <x>" for each <x> in this RAN. ADEE Intel Corporation list. Comment Type Comment Status X Proposed Response Response Status O The Arbitration function is practically disabled when mr autoneg enable is set to false. In that case, enabling the desired technology-dependent PHY, as well as selecting the proper FEC mode, should be done in some other way. Cl 73 SC 73.10.1 P 516 / 21 # i-62 SugaestedRemedy RAN, ADEE Intel Corporation Add after this paragraph: "if mr autoneg enable is false, enabling the desired technology-Comment Status X Comment Type E dependent PHY is controlled by implementation-dependent means". List is not uniformly aligned. Add at the end of 73.6.5; "if mr autoneg enable is false, the FEC function is controlled by SuggestedRemedy implementation-dependent means". (This may be worded differently if a control variable is Shift the tab location rightward to align the second column uniformly. added as suggested in another comment). Proposed Response Response Status O Proposed Response Response Status O CI 73 SC 73.7.4 P 510 L 54 Cl 73 SC 73.10.1 P 516 1 42 # i-63 # i-66 RAN, ADEE RAN. ADEE Intel Corporation Intel Corporation Comment Type T Comment Status X Comment Type T Comment Status X The technology-dependent interface defined in 73.9 does not include enable/disable Parallel detect is only defined for two PMD classes. 1000BASE-KX and 10GBASE-KX4/CX4 (see 73.7.4.1). Only these PMDs should appear in the "PD" list. control. This control is done by the link control variables. SuggestedRemedy SuggestedRemedy Change "via the Technology-Dependent interface (see 73.9)" to "via the link control [x] Delete ". 10GBASE-KR PMA. 40GBASE-KR4 PMD. 40GBASE-CR4 PMD. and 100GBASEvariables". CR10 PMD".

Proposed Response

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

Proposed Response

Response Status 0

Comment ID i-66

Response Status O

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SC 73.8 Cl 73 P 515 # i-67 Cl 73 P 533 L 29 SC 73.11.4.4 L 20 # i-69 RAN, ADEE RAN, ADEE Intel Corporation Intel Corporation Comment Type Т Comment Status X Comment Type E Comment Status X MDIO Registers for BASE-R FEC negotiated (7.48.4) and Negotiated Port Type (7.48.1 Missing hyphen in "10GBASEKX4" in feature cell thru 7.48.11) are defined in clause 45, but not listed in the register mapping table. SuggestedRemedy Change "10GBASEKX4" to "10GBASE-KX4" It seems that negotiated Port Type should be mapped to the variable vector link control. Proposed Response Response Status O For BASE-R FEC negotiated, there is no variable definition in clause 73. For good order, it is worthwhile to define a variable and link the function in 73.6.5 with an MDIO register. P 185 Note that P802.3by is about to add new FEC bits to AN, and having separate variables Cl 83 SC 83.5.4 L 22 # i-70 would help clarify the relationship between AN and MDIO. A part of this comment may also RAN. ADEE Intel Corporation be implemented as part of 802.3by, but is included here since it is related to existing AN functionality. Comment Type T Comment Status X This subclause refers to the "cumulative delay contributed by up to four PMA stages in a SuggestedRemedy PHY". But other places that refer to it, Table 80-5 and the PICS in 83.7.3, use the same Append rows to table 73-6: numeric values without mentioning multiple PMA stages. link_control_[x] | {7.48.11:8, 7.48.6:5, 7.48.3:1} Negotiated Port Type an_baser_fec_control | 74.48.4 BASE-R FEC negotiated I assume the text here is the original intent, so other places should be aligned to it. SuggestedRemedy Add a variable definition an_baser_fec_control in 73.10.1 with an appropriate description and specify its setting in 73.6.5, with editorial license. In Table 80-5, rows "40GBASE-R PMA" and "100GBASE-R PMA", prepend to the Notes: "Cumulative value for up to four PMA instances at one end of the link". Proposed Response Response Status 0 In 83.7.3, items DELAY40 and DELAY100, append to Feature: ", cumulative value for up to four PMA instances". CI 73 SC 73.10.4 P 526 L 1 # i-68 Proposed Response Response Status O RAN, ADEE Intel Corporation Comment Type Ε Comment Status X Superfluous "." at start of heading. Cl 83 SC 83.3 P 179 18 # i-71 RAN. ADEE Intel Corporation SuggestedRemedy Delete the initial period. Comment Type T Comment Status X "local loopback" label in Figure 83-5 has a footnote c. "Optional". But 83.5.8 does not mark Proposed Response Response Status 0 it as optional, and has a mandatory requirement for a PMA adjacent to some PMDs. This footnote conflicts with the clause text. Figure footnotes are normative... SuggestedRemedy

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

Comment ID i-71

Change c to a new footnote d, with the text "Local loopback is required for PMAs adjacent

to some PMDs, and optional for other PMAs. See 83.5.8."

Response Status O

Proposed Response

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CI 83 SC 83.3 P 180 L 20 # [-72]
RAN, ADEE Intel Corporation

Comment Type E Comment Status X

The statements starting with "The ability to support transition..." and "Transition to the low power state..." use "register" and "direction" in an inconsistent order, which reduces their legibility.

SuggestedRemedy

Change "The ability to support transition to a low power state in the ingress direction is indicated by register 1.1.9 (PMA Ingress AUI Stop Ability, PIASA) and register 1.1.8 for the egress direction (PMA Egress AUI Stop Ability, PEASA)."

To "The ability to support transition to a low power state in the ingress direction is indicated by register 1.1.9 (PMA Ingress AUI Stop Ability, PIASA). The ability to support transition to a low power state in the egress direction is indicated by register 1.1.8 (PMA Egress AUI Stop Ability, PEASA)."

Change "Transition to the low power state is enabled in the ingress direction by register 1.7.9 (PMA Ingress AUI Stop Enable, PIASE) and register 1.7.8 for the egress direction (PMA Egress AUI Stop Enable, PEASE)."

To "Transition to the low power state in the ingress direction is enabled by register 1.7.9 (PMA Ingress AUI Stop Enable, PIASE). Transition to the low power state in the egress direction is enabled by register 1.7.8 (PMA Egress AUI Stop Enable, PEASE)."

Proposed Response Response Status O

Cl 92 SC 92.11.1 P 434 L 34 # [i-74]
Lusted, Kent Intel Corporation

isted, Kerit intel Corporation

Comment Type E Comment Status X

The term "TP2 or TP3 Test Fixture" becomes ambiguous and incorrect with the P802.3by Draft 1.0 addition of the SFP28 test fixture.

P802.3by Draft 1.0 uses "SFP28 Host test fixture" to distinguish between that fixture and the one used with 100GBASE-CR4. The confusion is compounded by P802.3by supporting the QSFP28 MDI connector in addition to the SFP28 MDI connector.

It becomes challenging in P802.3by to reference the different host test fixtures by referring to the "TP2 or TP3 fixture" and the "SFP28 fixture" when the SFP28 fixture is also a TP2 or TP3 fixture.

SuggestedRemedy

Consider changing title from "TP2 or TP3 test fixture" to "QSFP28 and CFP4 Host test fixture".

Also update the necessary references within Cl 92 text and figures. (Fig 92-15, Fig 92-18)

also impacts 83E.4.1 first paragraph.

Proposed Response Response Status O

C/ **00** SC **0** P L # [i-75]

Anslow, Peter Ciena Corporation

Comment Type E Comment Status X

The draft is almost consistent in its use of "interpacket gap" rather than "inter-packet gap". There are 70 instances of "interpacket gap" and 4 instances of "inter-packet gap". These are in 92.1, 93.1, 94.1, and 95.1.1.

Note- the instance in 95.1.1 will be changed when the changes made during the publication of 802.3bm are applied.

SuggestedRemedy

Change "inter-packet gap" to "interpacket gap" in 92.1, 93.1, and 94.1.

Proposed Response Response Status O

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

C/ 01 SC 1.3 P 66 L 5 # i-76 C/ 01 SC 1.4.394 P 95 L 48 # i-79 Hiertz, Guido Ericsson AB Hiertz, Guido Ericsson AB Comment Status X Comment Type G Comment Type E Comment Status X It would be wise to add a reference regarding the use of units (b, B, V, s etc.) to this Wrong use of units. standard. SuggestedRemedy SuggestedRemedy Replace "eight nanonseconds" with "8 ns" Add "IEEE Std 260.1(TM)-2004, IEEE Standard Letter Symbols for Units of Measurement Proposed Response Response Status O (SI Units. Customary Inch-Pound Units. and Certain Other Units)" to the reference section. Proposed Response Response Status 0 CI 78 SC 78.2 P 39 L 42 # i-80 Hiertz. Guido Ericsson AB SC 1.4.397 13 C/ 01 P 96 # i-77 Comment Type E Comment Status X Hiertz, Guido Ericsson AB The formatting of the heading of table 78-2 is wrong. Second "s" and the closing bracket ")" Comment Status X Comment Type E is in bold font. Wrong use of units. SuggestedRemedy SuggestedRemedy Replace "s)" with regular font. Replace "125-microsecond" with "125 = s" Proposed Response Response Status O Proposed Response Response Status 0 CI 82 SC 82.2.19.2.5 P 154 L 49 # i-81 SC 4.4.2 P 151 C/ 04 L 12 # i-78 Marris. Arthur Cadence Design Syst Ericsson AB Hiertz. Guido Comment Type TR Comment Status X Comment Status X Comment Type FW TX WAKE state does not exist The table heading indicates "Mb/s" and "Gb/s". The cells, however, contain measures of SuggestedRemedy "bits". This seems to be inconsistent. Delete text "or FW TX WAKE" SuggestedRemedy Proposed Response Response Status O Replace all occurrences of "bits" with "b".

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

Proposed Response

Response Status O

Comment ID i-81

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Comment Type T Comment Status X

Some of the references for the module output are incorrectly pointing to the host output sections in Annex 83E.

SuggestedRemedy

Change the following references for the module output. TM9, TM10 and TM11 to 83E.3.2.1

Proposed Response Response Status O

 C/
 83E
 SC
 83E.5.4.2
 P 642
 L 45
 # [i-83]

 Dudek, Michael
 QLogic Corporation

Comment Type T Comment Status X

The transition time is incorrect. It should be 12ps as specified in table 83E-3

SuggestedRemedy

Change the value of TM8 to "Greater or equal to 12ps"

Proposed Response Response Status O

Cl 55 SC 55.5.2 P 673 L 7 # [i-84]

Zimmerman, George Aguantia, and CommS

Comment Type E Comment Status X

(section 4) - Name of register 1.132 in clause 55 (10GBASE-T Control Register) is incorrect, relative to Clause 45 definition of 1.132 in 45.2.1.65.

SuggestedRemedy

Change "(10GBASE-T Control Register)" to "(10GBASE-T test mode register)"

Proposed Response Status O

C/ **01** SC **1.4.79** P **51** L **12** # [i-85]
Booth, Brad Microsoft Corporation

Comment Type GR Comment Status X

*** Comment submitted with the file 85523100003-Interface Names rev 3.pptx attached ***

There is an inconsistency between the definitions in 1.4 and the term used in the standard. For example, 1.4.82 defines CGMII as 100 Gigabit Media Independent Interface and 1.4.79 as 40 Gigabit Media Independent Interface, but in Figure 81-1 the figure shows them as 100 Gb/s Media Independent Interface and 40 Gb/s Media Independent Interface, respectively. The title of Clause 81 also expands on this issue by stating, "Media Independent Interface for 40 Gb/s and 100 Gb/s operation." Definition 1.4.267 defines Media Independent Interface (MII) as being in Clause 22.

The suggested remedy creates consistency between the definitions in Clause 1 and the terms used throughout the standard. It also creates consistency with the clause headings.

SuggestedRemedy

Change the title of Clause 81 to read:

Reconciliation Sublayer (RS), 40 Gigabit Media Independent Interface (XLGMII) and 100 Gigabit Media Independent Interface (CGMII)

Search and replace instances of:

100 Gb/s Media with 100 Gigabit Media

100 Gb/s Attachment with 100 Gigabit Attachment

40 Gb/s Media with 40 Gigabit Media

40 Gb/s Attachment with 40 Gigabit Attachment

100 Gb/s Four-Lane Attachment Unit Interface with 100 Gigabit Attachment Unit Interface Over Four-Lanes

100 Gb/s Ten-Lane Attachment Unit Interface with 100 Gigabit Attachment Unit Interface Over Ten-Lanes

See attached document for list of changes required.

Proposed Response Status O

Cl 55 SC 55.3.6.2.3 P 635 L 46 # [i-86]
Slavick, Jeff Avago Technologies

Comment Type T Comment Status X

In Figure 55-15 125us_timer_done and 125us_timer_not_done are used but never defined.

SuggestedRemedy

Add the following to 125_ustimer definition:

Values: The condition 125us timer done becomes true upon timer expiration.

Additionally change 125us timer not done to !125us timer done in Figure 55-15

Proposed Response Status O

Cl 30 SC 30.1 P 340 L 9 # [i-87]
Marris, Arthur Cadence Design Syst

Comment Type ER Comment Status X

Mix of spelling between "behaviors" and "behaviours" in Clause 30.

SuggestedRemedy

Use "behaviours" so change "behaviors" to "behaviours" throughout Clause 30.

Proposed Response Response Status O

Cl 77 SC 77.2.2.3 P 662 L 45 # [i-88

Remein, Duane

Comment Type E Comment Status X

The following statement is incorrect: this variable is assigned in the GATE Processing ONU Activation state diagram (see Figure 77-14). The variable fecOffset is not mentioned in the GATE Processing ONU Activation state diagram (which is Figure 77-29) but rather the ONT Control Multiplexer state diagram (which is Figure 77-14).

SuggestedRemedy

Change to read: this variable is assigned in the ONT Control Multiplexer state diagram (see Figure 77-14).

Proposed Response Response Status O

Cl 22 SC 22.1 P45 L40 # i-89

Grow, Robert RMG Consulting

Comment Type TR Comment Status X

*** Comment submitted with the file 85554000003-Common Changes r5.docx attached ***

The statement that the MII is for PHYs of 10 Mb/s and above is clearly wrong. The MII is only specified for 10 Mb/s and 100 Mb/s, and the MII interface is also only applicable to some of the 1000 Mb/s PHYs that have been specified.

SuggestedRemedy

The attached file proposes changes to Clauses 22, 34 and 35 to fix this for both existing PHYs and proposed PHYs. If accepted, the PICS for Clause 22 will also need to be revised to provide optionality similar to that in Clause 35.

Proposed Response Response Status O

C/ 95 SC 95.8.8 P 555 L 22 # [i-90

Dawe, Piers J G Mellanox Technologie

Comment Type E Comment Status X

This paragraph is pretty much repeated in 95.8.8.1, top of page 556, where it fits better. We can remove the duplication.

SuggestedRemedy

In 95.8.8.1, change "receiver under test" to "PMD under test".

In 95.8.8.1, change the first instance of "when stressed: see 95.8.1.1." to "when stressed and at the specified receive OMA: see 95.8.1.1."

Delete this paragraph here in 95.8.8.

Proposed Response Response Status O

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

Cl 95 SC 95.8.8 P 555 # i-91 C/ 83E P 633 L 53 L 20 SC 83E.3.3.2.1 # i-94 Dawe, Piers J G Dawe, Piers J G Mellanox Technologie Mellanox Technologie Comment Type Ε Comment Status X Comment Type E Comment Status X Use more consistent, possibly less wordy terminology for SRS test and signal in Clause The data rate should be approximately 1/10th of the stressed pattern data rate (2.578 GBd). 95. "conformance test" is somewhat redundant: in a standard, a test is a conformance test SuggestedRemedy unless stated otherwise. The signaling rate of the jitter PRBS should be approximately 1/10th of the test signal's SuggestedRemedy signaling rate (i.e, approximately 2.578 GBd). In Clause 95. use: And again in 83E.3.4.1.1. Stressed receiver conformance test Proposed Response Response Status O (though a shorter phrase would be nice), and test signal stressed receiver test signal. C/ 83E SC 83E.3.4.1.1 P 637 L 36 # i-95 Some or all of the proposed "stressed receiver test signal" could be just "test signal". Dawe, Piers J G Mellanox Technologie See pdf for details. Comment Type E Comment Status X Proposed Response Response Status O such that from the output of the pattern generator to TP1a comprises the mated HCB/MCB pair... SuggestedRemedy C/ 83E SC 83E.3.3.2.1 P 633 L 43 # i-92 such that the connection from the output of the pattern generator to TP1a comprises the Dawe. Piers J G Mellanox Technologie mated HCB/MCB pair... Comment Type E Comment Status X Proposed Response Response Status O This annex uses "stress signal" 4 times, "stressed signal" 4 times, and "test signal" 3 times. We should use the same term each time. Another option would be "compliance signal". C/ 95 SC 95.8.8 P 555 L 20 # i-96 SuggestedRemedy Dawe. Piers J G Mellanox Technologie Change "stress signal" to "test signal" 4 times, and "stressed signal" to "test signal" 4 times, in 83E. Comment Type E Comment Status X *** Comment submitted with the file 85554300003-Proposed Response Response Status 0 802.3bxD3.0 95.8.8stressedReceiverSensitivityEditorials.pdf attached *** File supporting another comment. C/ 83E SC 83E.3.3.2.1 P 633 L 48 # i-93 SuggestedRemedy Mellanox Technologie Dawe, Piers J G Implement deletions and insertions as in attachment Comment Status X Comment Type Ε Proposed Response Response Status O clean pattern

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

SuggestedRemedy

Proposed Response

clean signal. Also in 83E.3.4.1.1.

Response Status O

Comment ID i-96

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C/ 00 SC 0 Ρ # i-97 Perry, Lisa Comment Type GR Comment Status X [Entering this comment on behalf of Angela Thomas] All references to "Company Identifier" should be replaced with "Company ID" throughout the document. SuggestedRemedy Proposed Response Response Status O Cl 28 SC 28.5.4.10 P 329 # i-98 L 31 Perry, Lisa Comment Type GR Comment Status X

SuggestedRemedy

Please update the Value/Comment text to state OUI or CID (multiple occurrences).

The RAC thanks the WG for its efforts to update the standard to use current RA terminology and to include the CID where appropriate. It looks like the referenced PICs

item was not updated to be consistent with the updates made to Annex 28.C.6.

Proposed Response Status O

[Entering this comment on behalf of Angela Thomas]

C/ 30 SC 30.3.6.1.16

P **405**

L 26

i-99

Perry, Lisa

Comment Type GR Comment Status X

[Entering this comment on behalf of Angela Thomas]

Under "BEHAVIOUR DEFINED AS", the first sentence of the text reads: "The value of the OUI variable in the Vendor Identifier field (see Table 57-11) of the most recently received Information OAMPDU". The RAC is unable to determine if the BEHAVIOUR should include OUI or a CID. It is possible that references between Clause 30 and Clause 57 specifications have become disconnected.

- a) We cannot find a use of "Vendor Identifier field" in Section 5. Table 57-11 is entitled "Vendor Specific Information field", and has one entry, an unstructured 32-bit identifier that may be used to differentiate a vendor's product models/versions. There is no indication that an OUI is part of that field. Rather, Table 57-10 is OUI field, which may include either an OUI or CID.
- b) The attribute referencing Table 57-10 is 30.3.6.1.12. But, rather than describing anything related to OUI, it refers to the Revision field of the Local Information TLV, which seems to not be in Table 57-10 but is in the Table in section 57.7.3.4.

SuggestedRemedy

If the correct reference for this attribute is Table-10, OUI field, then the attribute should indicate OUI or CID.

Though not a RAC Mandatory Coordination issue, we recommend that the WG review attributes supporting Clause 57 to verify that correct field names are used, and that Table references are correct in pointing at Clause 57 content. (It is possible that FrameMaker cross references were not used in Clause 30 to ease validation of Clause 30 specifications with MIB tools. If so, both Table and sub clause numbers could have drifted apart as additions have been made to Clause 57.)

Proposed Response Status O

Cl **00** SC **0** P**0** L **0** # <u>i-100</u>

Turner, Michelle

Comment Type E Comment Status X

This draft meets all editorial requirements.

Suggested Remedy

Proposed Response Response Status O

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

Comment ID i-100

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Cl 45 SC 45.2.1.65.1 P 111 L 29
Mcclellan. Brett Marvell Semiconducto

L **29** # [i-101

Comment Type TR Comment Status X reference to Table 55-1 should be Table 55-12

SuggestedRemedv

change Table 55-1 to Table 55-12

Proposed Response Status O

Cl 45 SC 45.2.3.1.2 P177 L 50 # [i-102

Mcclellan, Brett Marvell Semiconducto

Comment Type TR Comment Status X
reference to 55.3.6.3 is incorrect, it should be 55.3.7.3

Suggested Remedy

change 55.3.6.3 to 55.3.7.3

Proposed Response Response Status O

Cl 45 SC 45.2.7.13 P 260 L 12 # [-103

Mcclellan, Brett Marvell Semiconducto

Comment Type TR Comment Status X

28.2.3.4.1 does not describe how EEE is advertised and 55.6.1 is the wrong reference

SuggestedRemedy

line 12 change: "28.2.3.4.1; U3 / 55.6.1; U24"

to: "Table 40-4; U3 / 55.6.2; U24"

line 16 change: "28.2.3.4.1; U2 / 55.6.1; U23"

to: "Table 40-4; U2 / 55.6.2; U23"

line 20 change: "28.2.3.4.1; U1 / 55.6.1; U22"

to: "Table 40-4; U1 / 55.6.2; U22"

page 263 line 8 change: "28.2.3.4.1; U3 / 55.6.1; U24"

to: "Table 40-4; U3 / 55.6.2; U24"

line 12 change: "28.2.3.4.1; U2 / 55.6.1; U23"

to: "Table 40-4; U2 / 55.6.2; U23"

line 16 change: "28.2.3.4.1; U1 / 55.6.1; U23"

to: "Table 40-4; U1 / 55.6.2; U22"

Proposed Response Status O

CI 55 SC 55.3.6 P 641 L 27

Mcclellan, Brett Marvell Semiconducto

Comment Type TR Comment Status X

E' entrance to TX_E should have been deleted by the editor between draft 2.1 and 2.2 of 802 3az

SuggestedRemedy

delete 'E' from the entrance of TX E

Proposed Response Status O

Cl 48 SC 48.2.5 P 264 L 40 # [i-105

Mcclellan, Brett Marvell Semiconducto

Comment Type T Comment Status X

Using the Receive local fault bit (4.8.10) to report the alignment status is inconsistent with the use of the terms 'transmit' and receive in Clause 45.2.4 (PHY XS registers). In subclause 45.2.4.8 the term 'transmit' is applied in the direction toward the PHY, and 'receive' is applied in the direction toward the RS. Lane alignment is performed in the transmit path of the PHY XS.

SuggestedRemedy

Change "4.8.10 Receive local fault" to "4.8.11 Transmit local fault".

Proposed Response Status O

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