C/ 114 SC 114.1.4 L44 # C/ 114 SC 114.2.2.1 P33 L38 P30 Pérez-Aranda, Rubén **KDPOF KDPOF** Pérez-Aranda, Rubén Comment Type E Comment Status X Comment Type E Comment Status X Figure 114-2 uses term driver for the transmiter side. Driver is a term more related to the Names of variables that are explained in the text and that are used in the C-code provided below for the LFSR formal definition should be in italic style or other font, to improve implementation, and in fact it is part of the optical transmiter, composed by the driver and the light emitter photonics device (e.g. LED, laser, etc). understanding of the text. SuggestedRemedy SuggestedRemedy To replace driver by Optical Transmitter, and receiver by Optical Receiver in Figure 114-2 See comment Proposed Response Response Status O Proposed Response Response Status O C/ 114 SC 114.2.2 P32 L37 C/ 114 SC 114.2.2.1 P34 **L1 KDPOF KDPOF** Pérez-Aranda, Rubén Pérez-Aranda, Rubén Comment Type E Comment Status X Comment Type E Comment Status X Distinguish between pilot S1 signal and pilot S1 sub-block by adding "content" where Pilots S1 and S2 are signals a priori known by the receiver. This property allows to receiver to implement symbol synchronization, timing recovery and equalizer adaptation. corresponds SugaestedRemedy SuggestedRemedy See comment Modify text as: Pilots S1 and S2 are predefined signals transmitted in fixed allocatted time slots of the Proposed Response Response Status O Transmit Block and intended to be used by the receiver for initialization and continuous tracking purposes based on data-aided signal processing. Proposed Response Response Status O C/ 114 SC 114.2.3.3 P36 **L6** Pérez-Aranda. Rubén **KDPOF** C/ 114 SC 114.2.2 P32 L39 # Comment Type E Comment Status X Pérez-Aranda, Rubén **KDPOF** The G(x) coefficients are by: Comment Status X Comment Type E SugaestedRemedy Pilot S1 signal is intended to be used by the receiver for both fast symbol synchronization The G(x) coefficients are by hexadecimal number: and for timing recovery Proposed Response Response Status O SuggestedRemedy

To add timing recovery to the purpose of S1

Response Status O

Proposed Response

C/ 114 SC 114.2.3.4 P36 L51 # C/ 114 SC 114.2.4.1.1 P38 **L3** # 10 Pérez-Aranda, Rubén **KDPOF KDPOF** Pérez-Aranda, Rubén Comment Type E Comment Status X Comment Type E Comment Status X PHS is the Physical Header Sub-frame composed by the symbols stream generated after I miss a reference to Figure 114-14. encoding process of the PHD (Physical Header Data) and which is split in 14 PHS sub-SuggestedRemedy blocks (PHS x in text and figures). Reference to Figure 114-14 after "... Type bit is set to 1 and PDB.CTRL is generated". I think it is clear in text. Proposed Response Response Status O SuggestedRemedy Clear editor's note. C/ 114 SC 114.2.4.1.1 P38 L11 Proposed Response Response Status 0 Pérez-Aranda, Rubén **KDPOF** Comment Type E Comment Status X C/ 114 SC 114.2.4.1.1 P37 L48 # 8 Type and TYPE are used indistinctly. **KDPOF** Several parts of the text. Pérez-Aranda Rubén SuggestedRemedy Comment Status X Comment Type E To use "Type" always. "to indicate to delimit" Proposed Response Response Status O SuggestedRemedy Eliminate "to indicate" Proposed Response Response Status 0 C/ 114 SC 114.2.4.1.1 P40 14 # 12 Pérez-Aranda, Rubén **KDPOF** Comment Type E Comment Status X SC 114.2.4.1.1 P37 C/ 114 L53 OFS in the right side of Figure 114-15 does not make sense. Pérez-Aranda. Rubén **KDPOF** SuggestedRemedy Comment Type E Comment Status X TXD <7:0>. TX EN and TX ER, compose each GMII word. Eliminate OFS of the right side. Size of the word is not indicated. Proposed Response Response Status O SugaestedRemedy TXD <7:0>, TX EN and TX ER, compose each GMII 10-bit word. C/ 114 SC 114.2.4.2 P42 L27 # 13 Proposed Response Response Status O Pérez-Aranda, Rubén **KDPOF** Comment Type E Comment Status X typo: "format definition" SuggestedRemedy Replace by "formal definition" 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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 13

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C/ 114 SC 114.2.4.3 P42 L44 # 14 C/ 114 SC 114.2.4.3.2 P**44** L45 # 17 Pérez-Aranda, Rubén **KDPOF KDPOF** Pérez-Aranda, Rubén Comment Type E Comment Status X Comment Type E Comment Status X "After encapsulation of the GMII data stream and scrambling it is mapped into 16-PAM Typo error in polynomial: "COC4 484A..." symbols" SuggestedRemedy Replace by C0C4. It is important to note that the process is not only consisting of mapping, but parity addition The second hexa digit should be ZERO, no upper case letter "O". and coset partitioning is also included. The MLCC that is used is a "coded modulation". Channel coding and modulation are unseparable parts of the same thing. The term Proposed Response Response Status O "mapping" is something that typically does not include any information addition like parity and only translates bits at input to symbols at output without generating extra information. SuggestedRemedy C/ 114 SC 114.2.4.3.3 P47 **L6** # 18 Replace the term "mapped" by "encoded" Pérez-Aranda, Rubén **KDPOF** Proposed Response Response Status O Comment Type E Comment Status X "... more significant bit (MSB) ..." SuggestedRemedy C/ 114 SC 114.2.4.3.1 P43 L53 # 15 Replace by "most significant bit (MSB)" Pérez-Aranda. Rubén **KDPOF** Proposed Response Response Status 0 Comment Type E Comment Status X Reference to Figure 114-19 not included SuggestedRemedy C/ 114 SC 114.3 P54 1 27 # 19 Add reference to Figure 114-19 Pérez-Aranda, Rubén **KDPOF** Proposed Response Response Status O Comment Type E Comment Status X The sentence "The PHD sub-blocks support reliable exchange of information to optimize link operation" is redundant with the next sentence about PHS and may produce confusion. C/ 114 SC 114.2.4.3.1 P**44** # 16 L19 Moreover, PHS sub-blocks are defined in 114.2.3 but not PHD sub-blocks. Pérez-Aranda. Rubén **KDPOF** SuggestedRemedy Comment Type E Comment Status X Replace by: "PHD information is encoded into the Physical Header Subframe (PHS) as defined in Figure 114-19: nb.demux(2)=3 bits is indicated, but not nb.demux(1)=4. I think both or none. 114.2.3. The PHS is transmitted periodically once per Transmit Block split in 14 PHS sub-SuggestedRemedy blocks and the modulation and ...." To eliminate nb,demux(2)=3 of the figure. Proposed Response Response Status O

Response Status O

Proposed Response

C/ 114 SC 114.3.2.2 P67 L24 # 20 C/ 114 SC 114.3.2.3 P**72** L26 # 23 **KDPOF KDPOF** Pérez-Aranda, Rubén Pérez-Aranda, Rubén Comment Type E Comment Status X Comment Type E Comment Status X Replace sections by clauses Threshold value S is not defined. This is a typo SuggestedRemedy SuggestedRemedy See comment Replace by upper case sigma. Proposed Response Response Status O Proposed Response Response Status O C/ 114 SC 114.3.2.2.2 P68 L35 C/ 114 SC 114.5.1 P**76** L18 # 21 Pérez-Aranda. Rubén **KDPOF** Pérez-Aranda, Rubén **KDPOF** Comment Type E Comment Status X Comment Type E Comment Status X Condition for transition is not complete Reference to Table 114-1 does not provide enough information. SuggestedRemedy SuggestedRemedy Replace by: To replace reference to Table 114-1 by Clause 114.2.4.1 "new rxphd event = TRUE \* hdr crc16 status = OK \* REMPHD.TX.NEXT.THP.SETID = Proposed Response Response Status O thp setid" Proposed Response Response Status 0 C/ 114 SC 114.5.3 P77 L7 **KDPOF** Pérez-Aranda, Rubén C/ 114 SC 114.3.2.3 P71 L48 # 22 Comment Status X Comment Type E Pérez-Aranda, Rubén **KDPOF** Tables 114-3 and 114-4 are rows to be included within the corresponding tables of clause Comment Type E Comment Status X 78 and they should not be included in this clause. It is the first time the term "detector" is used and may be no clear. SuggestedRemedy SuggestedRemedy Move tables to the correponding rows of tables of Clause 78. I suggest to replace by "MLCC decoder" Proposed Response Response Status O Also for Pg 72, lines 1, 7. Proposed Response Response Status O SC 1.4 C/ 01 P13 L12 # 26 Pérez-Aranda, Rubén **KDPOF** Comment Status X Comment Type E Some definitions related to the technologies adopted may be included in this subclause. SuggestedRemedy See attached gepof\_definitions\_v1.1.docx

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 26

Response Status O

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C/ 114 SC 114.1 L34 # 27 P29 **KDPOF** Pérez-Aranda, Rubén Comment Type E Comment Status X Because the PCS and PMA is defined in Clause 114 independently of PMD, it seems that serveral PMD Clauses could be defined able to be attached to Clause 114. SuggestedRemedy A modification is suggested to clarify this topic: "This PHY uses a Physical Coding Sublayer (PCS) and a Physical Medium Attachment (PMA) sublayer specified in this clause, which are common to a family of 1000 Mb/s PHY implementations with different Pysical Medium Dependent (PMD) sublayers. In particular. Clause 115 defines a PMD sublayer attacheable to the PCS and PMA sublayers defined in this clause." Proposed Response Response Status O C/ 114 SC 114.1.2 P30 L7 # 28 **KDPOF** Pérez-Aranda, Rubén Comment Type E Comment Status X It may be indicated in Figure 114-1 which are the sublayers defined in Clause 114 (PCS and PMA), for example, with gray background. SuggestedRemedy See comment Proposed Response Response Status O

Cl 114 SC 114.2.1 P31 L30 # 29
Pérez-Aranda, Rubén KDPOF

Comment Type ER Comment Status X

PHS\_12 in Figure 114-3 is used indistinctly to refer to the sub-block composed by the real content that is part of the complete PHS and the preamble and postamble zeroes sequences, and to refer only to the content. The same for S2\_12 and S1 that are indicated in the figure as example.

The term "content" should be used to indicate the content of sub-blocks not including the preamble and postamble to be consistent with the rest of text.

Repeated S2\_1 in the left side of upper row of Fig 114-3. It should be S2\_0.

Suggested Remedy

To modify the figure following as example the figure attached in p802 3bv D1.0 figures.pdf

Proposed Response Response Status O

C/ 114 SC 114.2.2.2 P34 L8 # 30

Pérez-Aranda, Rubén KDPOF

Comment Type ER Comment Status X

The pilot sub-block S2 consists of a pseudo-random sequence of 1664 256 PAM symbols

This senscence is not correct.

The pilot S2 consists of ....

The term sub-block is used to indicate each of the 13 chuncks including the preamble and postamble zero valued sequences.

SuggestedRemedy

See comment, and modify text to be consistent.

S2 pilot: 1664 symbols length sequence

S2 chunks: 128 symbols length

S2 pilot sub-block: the S2 chunk including pre and postamble.

Proposed Response Status O

Cl 114 SC 114.2.2.2 P34 L10 # 31

Pérez-Aranda, Rubén KDPOF

Comment Type ER Comment Status X

Each S2 pilot sub-block is prepended and postpended ....

This is not really correct.

SuggestedRemedy

Each S2 pilot chunk is prepended and postpended by zero valued sequences of 16 symbols, thus obtaining the 160 symbols length S2 pilot sub-blocks.

Proposed Response Response Status O

SC 114.2.3 C/ 114 SC 114.2.1 P31 L28 # 32 C/ 114 P35 L2 # 34 Pérez-Aranda, Rubén **KDPOF KDPOF** Pérez-Aranda, Rubén Comment Type ER Comment Status X Comment Type ER Comment Status X The temporal order of each part composing the Transmit Block should be described in text, Each PHS sub-block is prepended and postpended .... since the figure 114-3 is useful to help to understand, but it does not represent a formal This is not really correct. definition of that. SuggestedRemedy SuggestedRemedy Each PHS chunk is prepended and postpended by zero valued sequences of 16 symbols. thus obtaining the 160 ... The parts composing the Transmit Block are temporally ordered as: S1, D 0, PHS 0, D 1, Proposed Response Response Status O S2 0, D 2, PHS 1, D 3, S2 1. D 4. PHS 2. D 5. S2 2, D 6, PHS 3, D 7, S2 3, D 8, PHS 4, D 9, SC 114.2.3.4 C/ 114 P36 L45 S2 4, D 10,PHS 5, D 11, Pérez-Aranda, Rubén **KDPOF** S2\_5, D\_12,PHS\_6, D\_13, S2\_6, D\_14,PHS\_7, D\_15, Comment Type ER Comment Status X S2 7. D 16.PHS 8. D 17. Figure 114-11. Incorrect sequence of symbols provided as example at the output BPSK 2-S2 8, D 18, PHS 9, D 19, PAM modulator. S2 9, D 20, PHS 10, D 21, SuggestedRemedy S2 10.D 22.PHS 11.D 23. S2\_11,D\_24,PHS\_12,D\_25, To correct figure with the correct sequence: S2\_12,D\_26,PHS\_13,D\_27 -x0,x0,-x1,x1,-x2,x2,-x3,x3,-x4,x4Proposed Response Response Status O Proposed Response Response Status O C/ 114 SC 114.2.3.3 P36 **L1** # 33 Pérez-Aranda, Rubén **KDPOF** 

SuggestedRemedy

See comment

Comment Type ER

Proposed Response Status O

The number of parity bits is p = 176 bits.

In Equation G(x), eliminate last parathesis.

Indicate variable p. because it is used in G(x) equation.

Comment Status X

C/ 114 SC 114.2.4 L10 # 36 C/ 114 SC 114.2.4.1.1 P38 # 39 P37 L41 **KDPOF KDPOF** Pérez-Aranda, Rubén Pérez-Aranda, Rubén Comment Type ER Comment Status X Comment Type ER Comment Status X Parenthesis for see Clause 114.2.4.1 are missed. Although bit ordering for each field of CB is formally indicated in C/114.2.4.1.2, the text should be improved. Line 11: the bits from PCS encoding are not really mapped to 16-PAM; after scrambling, SuggestedRemedy the bits are encoded by a Multilevel Coset Code that generates symbols mapped onto a 16-At the beginning of line 41, replace by: "CTRL<1:0> (CB<7:6>)" PAM constellation. There are FEC and mapping combined in the same process that cannot Line 44. replace by: "OFS<2:0> (CB<5:3>)" be separated. Line 47, replace by: "LEN<2:0> (CB<2:0>)" Line 15: cross reference is needed to 114.2.1. where it explained that the Transmit Block Proposed Response Response Status O consists of 28 payload sub-blocks SugaestedRemedy Line 11: ... are encoded by a Multilevel Coset Code that generates symbols mapped onto a SC 114.2.4.3 C/ 114 P42 # 40 L 50 16-PAM constellation (see Clause 114.2.4.3) **KDPOF** Pérez-Aranda. Rubén Line 15: add reference. Comment Type ER Comment Status X The term MLCC is used but it was not previously introduced and is not related to the terms Proposed Response Response Status O used in the previous paragraph. SuggestedRemedy C/ 114 SC 114.2.4 P37 L19 # 37 Modify line 45 to relate MLCC with two-level coser coding, that are concepts not related **KDPOF** Pérez-Aranda, Rubén "In particular, a Multilevel Coset Coding (MLCC) of two levels based on ..." Comment Status X Comment Type ER Proposed Response Response Status O The text from line 19 to 25 is already repeated in 114.2.4.2. 114.2.4.2 is the right section to describe scrambler details. SuggestedRemedy C/ 114 SC 114.2.4.3 P43 # 41 L10 Eliminate text from of lines 19 to 25 related to scrambler details Pérez-Aranda, Rubén **KDPOF** Proposed Response Response Status O Comment Type ER Comment Status X Figure 114-18: the superscript tau of upper case lambda (used to indicate lattice transformations) should be "t" to be in coherence with text and equations later described. C/ 114 SC 114.2.4 P37 L11 # 38 SuggestedRemedy Pérez-Aranda. Rubén **KDPOF** Replace in figure "tau" by "t" Comment Type ER Comment Status X Proposed Response Response Status O The term "PCS encoding" is used, but it has not been introduced and is not consistent with the Figure 114-12 and the title of Clause 114.2.4.1.

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

SuggestedRemedy

Proposed Response

Replace all "PCS encoding" by "GMII data stream encapsulation" Replace all "64B/65B PCS encoding" by "64B/65B encoding"

Response Status O

Comment ID 41

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C/ 114 SC 114.2.4.3.1 P44 L14 # 42 C/ 114 SC 114.2.4.3.4 P49 L11 # 45 **KDPOF KDPOF** Pérez-Aranda, Rubén Pérez-Aranda, Rubén Comment Type ER Comment Status X Comment Type ER Comment Status X Reference to a figure 3 that does not exist. Bad reference to Figure 8 SuggestedRemedy SuggestedRemedy Replace by a reference to Figure 114-19. Replace by reference to Figure 114-24 Proposed Response Response Status O Proposed Response Response Status O C/ 114 SC 114.2.4.3.2 P44 L42 # 43 C/ 114 SC 114.2.4.4 P50 **L1** Pérez-Aranda, Rubén **KDPOF** Pérez-Aranda, Rubén **KDPOF** Comment Type ER Comment Status X Comment Type ER Comment Status X Number 9 inserted without meaning. 114.2.4.4 should 114.2.4.3.5, because Lattice addition belongs to Coded 16-PAM g(i) can only take values 0 or 1. Because the same reason: 114.2.4.5 should be 114.2.4.3.6 SuggestedRemedy 114.2.4.6 should be 114.2.4.3.7 To eliminate 9. and 114.2.4.7 should be 114.2.4.4 Proposed Response Response Status O SuggestedRemedy See comment and change labeling of sections. SC 114.2.4.3.4 C/ 114 P48 / 26 # 44 Proposed Response Response Status O **KDPOF** Pérez-Aranda. Rubén Comment Type ER Comment Status X C/ 114 SC 114.2.4.3.4 P48 L39 Lattice transformation indicated in Figure 114-18 is lambda 1^t(I), but not lambda 1,1^t(I). Please, note that lambda 1^t(I) is composed by the concatenation of two operations, Pérez-Aranda, Rubén **KDPOF** lambda 1,1<sup>t</sup>(l) and lambda 1,2<sup>t</sup>(l). Comment Type ER Comment Status X In Figure 114-18 the complete operation lambda 1<sup>t</sup>(l) is indicated. C is used to indicate the field of complex numbers. It should be indicated that x is a SuggestedRemedy complex number and C indicates the field of complex numbers just after the equation. Replace lambda 1,1<sup>t</sup>(I) with lambda 1<sup>t</sup>(I). SuggestedRemedy At the end of line 26, eliminate "./" See comments. Proposed Response Response Status O Proposed Response Response Status O

C/ 114 SC 114.2.4.8 L33 # 48 C/ 114 SC 114.3.1 P56 L13 P53 # 50 Pérez-Aranda, Rubén **KDPOF** Pérez-Aranda, Rubén **KDPOF** Comment Type ER Comment Status X Comment Type ER Comment Status X "The coefficients of the finite-impulse response (FIR) feedback filter b(i) are dynamically Bad references in table 114-2. adapted using the PMD" - pg 56. line 13: replace 114.3.2 by 114.3.2.2 - pg 56, line 18: replace 114.3.1 by 114.2.4.1.1 SuggestedRemedy - pg 56, line 21: replace 114.3.1 by 114.3.2.2 Replace PMD by PHD. SuggestedRemedy Proposed Response Response Status O See comment Proposed Response Response Status O C/ 114 SC 114.3 P54 L23 # 49 Pérez-Aranda, Rubén **KDPOF** C/ 114 SC 114.3.1 P56 L29 # 51 Comment Type ER Comment Status X Pérez-Aranda, Rubén **KDPOF** Organization of the clause 114.3 may be improved to be more clear. Comment Type ER Comment Status X Also some modifications for titles of the sub-clauses are suggested. The description of some fiels of Table 114-2 is not coherent with PMA structure SuggestedRemedy PMA receive function is not defined in 114.3. The funcionality is actually performed by the 114.3 - Physical Medium Attachment (PMA) PCS 114.3.1 - Physical Header Data (PHD) SuggestedRemedy 114.3.2 - PMA control state diagrams description 114.3.2.1 - PHY RX control state diagram Pg 56, line 29, replace by: "Indicates whether local PHY is able to ..." 114.3.2.2 - PHY TX control state diagram Pg 56, line 35, replace by: "The local PHY shall use this field of received PHD to determine 114.3.2.3 - Link monitor state diagram 114.3.2.4 - PHD monitor state diagrams Pg 56, line 40, replace by: "Indicates whether local PHY is able to ..." 114.3.2.5 - Adaptive THP protocol Pg 56, line 45, replace by: "The local PHY shall use this field of received PHD to determine 114.3.2.5.1 - Adaptive THP TX state diagram 114.3.2.5.2 - Adaptive THP REQ state diagram Pg 57, line 10, replace by: The local PHY shall use this field of received PHD to determine 114.3.2.6 - PHY quality monitor state diagram 114.3.2.7 - PMA control state variables Proposed Response Response Status O (This sub-clause should include the definition of all the state variables, so only one subclause is devoted to that.) 114.3.3 - Fixed-point format formal definition 114.4 - Test modes (all test modes under the same sub-clause)

114.5 - Operations, Administration, and Maintenance (OAM) channel

Response Status O

114.6 - Energy Efficient Ethernet (EEE)

Proposed Response

C/ 114 SC 114.3.2.1.1 P58 L24 # 52 C/ 114 SC 114.3.2.1.2 P59 L13 # 55 Pérez-Aranda, Rubén **KDPOF KDPOF** Pérez-Aranda, Rubén Comment Type ER Comment Status X Comment Type ER Comment Status X PMA receive function is not defined at all. Line 13, bad reference to [1] Line 17, bad reference to 114.3.1 SuggestedRemedy Line 22. bad reference to Section 3.1.5 Pg 58, line 24, replace "PMA Receive function" by "PHY receiver operation" SuggestedRemedy Pg 58, line 25, replace "PMA Receive function" by "PHY receiver" Pg 58, line 35, replace "PMA Receive function" by "PHY receiver" Line 13. replace by 114.2.1. Line 17, replace by 114.2.4.1.1 Pg 58, line 39, replace "PMA Receive function" by "PHY receiver" Line 22, replace by 114.3.2.1.5 Pg 58, line 45, replace "PMA Receive function" by "PHY receiver" Proposed Response Proposed Response Response Status O Response Status O C/ 114 SC 114.3.2.1.3 P**59** L31 C/ 114 SC 114.3.2.1.2 P**59** L5 # 53 # 56 Pérez-Aranda, Rubén **KDPOF KDPOF** Pérez-Aranda Rubén Comment Type ER Comment Status X Comment Type ER Comment Status X Bad reference to section 3.3 Bad reference to section 3.1.5. SuggestedRemedy SuggestedRemedy Replace by 114.3.2.1.5. Replace by Clause 114.3.2.3 Proposed Response Response Status O Proposed Response Response Status O SC 114.3 C/ 114 P55 L 52 # 57 SC 114.3.2.1.2 L11 C/ 114 P59 Pérez-Aranda, Rubén **KDPOF** Pérez-Aranda. Rubén **KDPOF** Comment Type ER Comment Status X Comment Type ER Comment Status X The titles of figures do not agree with the text. PMA transmit function is not defined at all. SuggestedRemedy SuggestedRemedy Pg 59, line 11, replace "PMA Transmit function" by "PHY transmitter operation" Figure 114-33 - PHY RX control state diagram Figure 114-34 - PHY TX control state diagram Proposed Response Response Status O Figure 114-35 - Link monitor state diagram Figure 114-36 - Local PHD reception monitor state diagram Figure 114-37 - Remote PHD reception monitor state diagram Figure 114-38 - PHD monitor state diagram Figure 114-39 - Adaptive THP TX state diagram Figure 114-40 - Adaptive THP REQ state diagram Figure 114-41 - PHY quality monitor state diagram Proposed Response Response Status O

 C/ 114
 SC 114.3.2.1.5
 P64
 L 30
 # 58
 C/ 114
 SC 114.3.2.2
 P66

 Pérez-Aranda, Rubén
 KDPOF
 Pérez-Aranda, Rubén
 KDPOF

Comment Type ER Comment Status X

Several PMA functions are indicated in state variables description, but these functions, although described as functionalities before, they are not defined as concrete functions. Text should be improved.

### SuggestedRemedy

Pg 64. line 31. eliminate "It is set by the PMA reset"

Pg 64, line 46, replace "PMA Clock Recovery function" by "PHY clock recovery function"

Pg 64, line 53, replace "PMA Clock Recovery function" by "PHY clock recovery function"

Pg 65, line 6, replace "PMA Receive function" by "PHY quality monitor state machine"

Pg 65, line 13, replace "the PCS Receive function" by "the reception of PHD"

Pg 65, line 14, replace bad reference to Section 2 by Clause 114.3.1

Pg 65, line 20, replace "PMA Link Monitor function ..." by "link monitor state machine and used by PMA TX and RX state machines to enable the 64B/65B PCS encoder and decoder, respectively" (eliminate "passed to PCS via the ...", because this primitive is not defined at all)

Pg 65, line 28, replace "PMA Receive function" by "local PHD reception monitor state machine"

Pg 65, line 35, replace "PCS Receive function" by "remote PHD reception monitor state machine"

Pg 65, line 36, replace bad reference to Section 2 by Clause 114.3.1

Pg 65, line 42, replace "PMA Receive function" by "PHD monitor state machine"

Pg 65, line 49, replace "PCS Receive function" by "PHY receiver"

Pg 66, line 2, replace "PMA PHY Control function" by "adaptive THP REQ state machine"

Pg 66, line 3, replace "PMA Receive function" by "PHY"

Pg 66, line 4, replace "PMA PHY Control function" by "adaptive THP REQ state machine"

Pg 66, line 10, replace "PMA PHY Control function" by "PHY RX state machine"

Pg 66, line 17, replace "PMA PHY Control function" by "PHY TX state machine"

Pg 66, line 26, replace "PMA and PCS" by "PHY", same for line 28

In general, indentation of variables description and values that can take would help to follow the text.

Proposed Response Status O

Pérez-Aranda, Rubén KDPOF

Comment Type ER Comment Status X

PMA receive function is not defined.

SuggestedRemedy

Pg 66, line 49, replace "PMA receive function" by "PHY", the same for line 50.

Proposed Response Response Status O

C/ 114 SC 114.3.2.2.3 P70 L31 # 60

L49

# 59

Pérez-Aranda, Rubén KDPOF

Comment Type ER Comment Status X

Several PMA/PCS functions are indicated in state variables description, but these functions, although described as functionalities before, they are not defined as concrete functions.

Text should be improved.

### SuggestedRemedy

Pg 70, line 31, replace "PCS Transmit function" by "PHY transmitter"

Pg 70, line 36, replcae "transmitter block" by "Transmit Block"

Pg 70, line 41, replace "PMA PHY Control function" by "adaptive THP TX state machine"

Pg 70, line 41, replace "PMA Transmit function" by "PHY transmitter"

Pg 70. line 47, replace "PCS Receive function" by "reception of PHD"

Pg 70, line 50, replace bad reference 2 by Clause 114.3.1 or eliminate it.

Pg 71, line 1, replace "PCS Receive function" by "reception of PHD"

Pg 71. line 3. replace bad reference 2 by Clause 114.3.1 or eliminate it.

Pg 71. line 9. replace "PMA PHY Control" by "Adaptive THP REQ state machine"

Pg 71, line 15, replace "PMA PHY Control" by "Adaptive THP REQ state machine"

Pg 71. line 29. replace "PMA Receive function" by "PHY receiver"

Pg 71, line 36, replace "PMA Receive function" by "PHY receiver"

In general, indentation of variables description and values that can take would help to follow the text.

Proposed Response Status O

C/ 114 SC 114.3.2.3.1 L39 # 61 C/ 114 SC 114.1 P31 L7 # 64 P73 **KDPOF KDPOF** Pérez-Aranda, Rubén Pérez-Aranda, Rubén Comment Type ER Comment Status X Comment Type ER Comment Status X PMA Receive function is indicated in state variables description, but this function, although A functional block diagram should be inserted to aid to understand the relationship among described as functionality before, it is not defined as concrete function. the different parts composing the 1000BASE-H PHY: PCS. PMA. EEE. OAM. PMD. etc. Text should be improved. SuggestedRemedy SuggestedRemedy Insert new sub-clause: Replace "PMA Receive function" by "PHY receiver" 114.1.5 Functional block diagram Proposed Response Response Status O Figure 114-3 provides a functional block diagram of the 1000BASE-H PHY. < insert the figure included in the attached file gepof functional block diagram v1.0.pdf> Proposed Response Response Status O SC 114.5 P75 # 62 C/ 114 L34 Pérez-Aranda, Rubén **KDPOF** SC 114.2 Comment Type ER Comment Status X C/ 114 P31 L11 # 65 Pérez-Aranda, Rubén **KDPOF** PMA Transmit and Receive functions are not defined, however they are referenced. SuggestedRemedy Comment Type ER Comment Status X Line 34, replace "PMA" by "PCS" The sentence: "The 1000BASE-H PCS couples a Gigabit Media Independent Interface Line 38, replace "PMA" by "PCS" (GMII), see Clause 35, to the Physical Medium Attachment (PMA) sublayer" Line 40, replace "PMA" by "PCS" is not consistent with the rest of the Clause 114, because a PMA service interface is not Proposed Response Response Status O defined and PMA does not perform any transformation of the symbols generated by PCS. According to the suggested functional block diagram, the PCS is directly attached to the SC 114 PMD C/ 114 P29 L28 # 63 Pérez-Aranda, Rubén **KDPOF** SuggestedRemedy Replace sentence by: Comment Type ER Comment Status X "The 1000BASE-H PCS couples a Gigabit Media Independent Interface (GMII), see Clause Baseband medium is not defined in Clause 114, therefore the title of the clause is not 35, to the Physical Medium Dependent (PMD) sublayer" correct. Proposed Response Response Status O SuggestedRemedy Eliminate: "and baseband medium" The title should be: SC 114.4 P**74** C/ 114 L32 "Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer, type 1000BASE-H" Pérez-Aranda, Rubén **KDPOF** Proposed Response Response Status O Comment Type ER Comment Status X Propose text for OAM sub-clause 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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 66

Proposed text is attached in gepof oam channel v1.2.docx

Response Status O

Proposed Response

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C/ 114 SC 114.3.4 P**74** L27 # 67 C/ 114 SC 114.3.2.2 P67 **L1** # 70 **KDPOF KDPOF** Pérez-Aranda, Rubén Pérez-Aranda, Rubén Comment Type ER Comment Status X Comment Type T Comment Status X Propose text for Test modes FFF also compensate the cursor of inter-symbol interference produced by the channel. SuggestedRemedy SuggestedRemedy Replace by: "FFF compensates the cursor and pre-cursor ISI and whitens the noise ..." Proposed text is attached in gepof test modes v1.0.docx Proposed Response Proposed Response Response Status O Response Status O SC 115 P81 L1 # 68 C/ 114 SC 114.3.2.2.2 P68 C/ 115 L38 Pérez-Aranda. Rubén **KDPOF** Pérez-Aranda, Rubén **KDPOF** Comment Type ER Comment Status X Comment Type T Comment Status X Propose text for PMD type 1000BASE-RH Actually the PHY receiver is not receiving payload data sub-blocks TH precoded, but it shall receive them starting in the next received Transmit Block, since the REMPHD carries SuggestedRemedy information announcing the mode of the next Transmit Block Proposed text is attached in gepof pmd sublayer v1.6.docx SuggestedRemedy Proposed Response Response Status O Proposed text (change tense): "The local PHY receiver shall receive payload data sub-blocks TH precoded with the requested coefficients starting from the next Transmit Block received from link partner" C/ 114 SC 114.2.4.1 P37 # 69 L39 Proposed Response Response Status O **KDPOF** Pérez-Aranda. Rubén Comment Type T Comment Status X SC 114.5 C/ 114 P**74** L39 It is not indicated how is the interface with the next data processing block (binary Pérez-Aranda, Rubén **KDPOF** It is important to indicate that the interface between Encapsulation and Scrambler is a Comment Type T Comment Status X binary serial stream, because the scrambler is not aware about 65-bit units, operating bit by Actually auto-negotiation functionality is not defined, therefore this term should not be used. SuggestedRemedy SuggestedRemedy Eliminate "through auto-negotiation". Proposed text: "This encapsulation uses a 64B/65B encoding, with the output result being a stream of 65bit data units, called Physical Data Blocks (PDB), which are serially transmitted to the In line 41, after first point, add: "It is required that the two link partners indicate PHD.CAP.LPI = 1 to enable bidirectional EEE functionality. PHD.CAP.LPI = 1 advertising binary scrambler at bit-rate of 65/64·1000 = 1015.625 Mbits/s" indicates to link partner that the local PHY can generate Transmit Blocks according to LPI Proposed Response Response Status O operation and it is able to accept Transmit Blocks from link partner conformed according to

LPI operation."

Proposed Response

Response Status O

Cl 114 SC 114.5 P75 L28 # 73
Pérez-Aranda, Rubén KDPOF

Comment Type T Comment Status X

The PMD service interface should defined in Clause 115 (PMD). Actually, the service interface primitives here defined are a requirement for any PMD attached to a 1000BASE-H PMA.

Line 46. The term "timing" is too generic and can produce confusion.

## SuggestedRemedy

Modify wording:

"Since special control signaling is required to implement LPI mode, any PMD attached to a 1000BASE-H PMA shall provide the following service interface primitives:"

Eliminate reference to Figure 114-43 in pg 75, line 29, and the figure itself in pg 76. This figure should be included in any PMD clause suitable to be attached to 1000BASE-H.

Pg 75, line 46. Eliminate the sentence.

Proposed Response Status O

Cl 114 SC 114.2.3.1 P35 L16 # 74

Comment Status X

Pérez-Aranda, Rubén KDPOF

Figure 114-9 is not complete. The control signal to mux that enable disable the feedback of LFSR is not indicated. The text description from line 12 to 15 does not agree with figure.

#### SuggestedRemedy

Comment Type TR

The 704 PHD bits are then used to compute the CRC-16 with the mux configured to CRCgen setting. After the 704 bits have been serially processed, the mux is configured to CRCout setting and the 16 stored values are the CRC-16. CRC-16 is transmitted in order from S15 to S0.

Improved figure is attached in p802 3bv D1.0 figures.pdf

Proposed Response Status O

C/ 114 SC 114.2.4.1 P37 L40

Pérez-Aranda, Rubén KDPOF

Comment Type TR Comment Status X

The GMII data stream encapsulation described in 114.2.4.1 does not replace any part of the Ethernet preamble or SFD, and it is GMII transparent for Ethernet packets (from the first byte of the preamble to the last byte of FCS).

Therefore, using the term "Ethernet packet" is more correct than using "Ethernet frame", since in reality, the 64B/65B encoding performs encapsulation of the whole Ethernet packet, but not only of the Ethernet frame.

#### SuggestedRemedy

Replace "frame" by "packet". Also in line 41.

Proposed Response Status O

Cl 114 SC 114.2.4.1.1 P40 L46 # 76

Pérez-Aranda, Rubén KDPOF

Comment Type TR Comment Status X

Equation is not correct

#### SuggestedRemedy

Replace equation by that in the attached file p802 3bv D1.0 equations.pdf

Proposed Response Status O

Cl 114 SC 114.2.4.3 P43 L39 # 77

Pérez-Aranda, Rubén KDPOF

Comment Type TR Comment Status X

Equations for number of bits per 1D symbol and spectral efficincy are not correct.

Line 39: equation uses nb that is not defined. It has to use n\_b (subscript)

Line 43: equation is a copy of previous one.

General, limits of summation should be nearer to upper case sigma symbol.

#### SuggestedRemedy

Replace equation by that in the attached file p802\_3bv\_D1.0\_equations.pdf The summation limits could be in line with sumation symbol (upper case sigma) as it indicated in attached document, to avoid overlapping with text.

Proposed Response Response Status **0** 

# 75

C/ 114 SC 114.2.4.3.2 L48

# 78

Pérez-Aranda, Rubén

SC 114.2.4.3.2

C/ 114

P45

# 80

Pérez-Aranda, Rubén

P44 **KDPOF** 

Comment Type TR

Comment Status X

The equation is not correct; parenthesis order.

In addition, the equation should be inserted after line 41, where G(x) is introduced, instead of line 48.

SuggestedRemedy

Replace equation by that in the attached file p802 3by D1.0 equations.pdf. Move upwards the equation. Inline or separated line

Proposed Response

Response Status O

C/ 114 SC 114.2.4.3.2 P**44** L 52 # 79

Pérez-Aranda. Rubén

**KDPOF** 

Comment Type TR Comment Status X

- k, n and p have not been introduced before. k c, n c and p c were introduced, and they should be used in equations. "\_" indicates subscript.
- Equations for M(x), S(x) and C(x) should add an ellipsis between the quadratic term of the polynomial and the highest order term, since in general terms in between will exist. Also affects to pg. 52, where M(x), S(x) and C(x) are involved.

SuggestedRemedy

Replace k with k c, n with n c and p with p c. Add ellipsis to polynomials M(x), S(x) and C(x).

E.g.  $M(x) = m \cdot 0 + m \cdot 1^*x + m \cdot 2^*x^2 + ... + m \cdot (k-1)^*x^4(k-1)$ 

Proposed Response

Response Status O

**KDPOF** 

Comment Type TR Comment Status X

Text and Figure 114-20 describing the BCH encoder should be improved. In Figure 114-20, the feedback values q(i) x<sup>1</sup> are undefined when switch is connected to position BCHout.

SuggestedRemedy

Suggested text:

"The delay elements s 0, s 1, ..., s p-1 shall be initialized to zero before encoding. All the k bits composing the information message are used to calculate the parity and enter the BCH encoder in the same order provided by the MLCC demultiplexer with the muxes indicated in Figure 114-20 connected with BCHgen setting. After all the k bits have been serially processed, the muxes are configured to BCHout setting and the p stored values s 0, s 1, ..., s p-1 are the parity bits. The parity bits are then transmitted in the order from s p-1 to s 0"

Improved figure is attached in p802 3by D1.0 figures.pdf

Proposed Response

Response Status O

C/ 114 SC 114.2.4.3.3

P46 **KDPOF**  L53

**L8** 

# 81

Pérez-Aranda, Rubén

Comment Status X Comment Type TR

Equations for Gray to Bin converter are not correct.

SuggestedRemedy

Replace equations by those in the attached file p802\_3bv\_D1.0\_equations.pdf.

Proposed Response

Response Status O

C/ 114 SC 114.2.4.3.4

P48 **KDPOF**  L48

Pérez-Aranda, Rubén

Comment Type TR Comment Status X

Equation of lattice transformation is not correct.

The summation is superscript of 2 and parenthesis of last superscript are not correct.

SuggestedRemedy

Replace equation by that in the attached file p802 3bv D1.0 equations.pdf.

Proposed Response

Response Status O

C/ 114 SC 114.2.4.3.4 P49 L7 # 83 C/ 114 SC 114.2.4.7 P53 L18 # 86 **KDPOF KDPOF** Pérez-Aranda, Rubén Pérez-Aranda, Rubén Comment Type TR Comment Status X Comment Type TR Comment Status X Equation is not correct. Figure 114-31 is not correct. u(m) is the signal in the input of modulo operation. SuggestedRemedy v signal has to add to output of multiplier, but not substract. Replace equation by that in the attached file p802\_3bv\_D1.0\_equations.pdf. SuggestedRemedy Proposed Response Response Status O Improved figure is attached in p802 3bv D1.0 figures.pdf. Proposed Response Response Status O C/ 114 SC 114.2.4.5 P50 L45 # 84 Pérez-Aranda. Rubén **KDPOF** C/ 114 SC 114.2.4.8 P53 L45 Comment Type TR Comment Status X **KDPOF** Pérez-Aranda, Rubén Equation is not correct. Comment Type TR Comment Status X SuggestedRemedy Equation is not correct. Replace v(m) by y(m). It should be indicated that M takes the value of 16 in the text. Replace equation by that in the attached file p802 3bv D1.0 equations.pdf. This is because the symbols that are precoded belongs to a constellation 16-PAM, taking Proposed Response Response Status O values {-15, -13, ... +13, +15}. SuggestedRemedy See comment. C/ 114 SC 114.2.4.5 P51 L21 # 85 Pérez-Aranda, Rubén **KDPOF** Proposed Response Response Status O Comment Status X Comment Type TR Reference to Figure 114-24 is not valid, it should be Figure 114-28. C/ 114 SC 114.3.2.3 P**72** L10 Also equation Y=mod(X, 2^ceil(psi)-1) is not correct. Pérez-Aranda, Rubén **KDPOF** SuggestedRemedy Comment Type TR Comment Status X Replace referece to figure as indicated in comment. Replace equation by Y=mod(X, 2^ceil(psi)) (eliminate the term -1). Equation for link margin (LM) definition is not correct Proposed Response Response Status O SuggestedRemedy Elminate parenthesis around (LM = ) Proposed Response Response Status O

Grow, Robert

Comment Type

E

Comment Status X

Suclause reference format differs from base document.

SuggestedRemedy

The word Clause only appears in front of complete clauses, any subclause shouldn't have the word Clause. Use correct Cross reference format.

Proposed Response Response Status O

Comment Type ER Comment Status X

The two tables belong in Clause 78 changes as inserts to existing tables. The paragraph also needs to be edited. Additionally, we need to list 1000BASE-RH in Table 78-1.

SuggestedRemedy

Change the paragraph at line 25 to read: Additional LPI timing parameters for 1000BASE-RH are defined in Clause 78. Note that the 24.82 usec in Table 78-4 is the time needed to transmit a pilot or physical header sub-block and a payload data sub-block.

In clause 78:

Insert new row below into Table 78-1 after 1000BASE-KX:

<Table 78-1 title>
PHY or interface type Clause
1000BASE-RH 114, 115

Insert new 1000BASE-RH row below into Table 78-2 after 1000BASE-KX:

<what is now Table 114-3>, with table title of Table 78-2>

Insert new 1000BASE-RH row below into Table 78-4 below 1000BASE-KX:

<what is now Table 114-4, with table title of Table 78-4>

Proposed Response Response Status O

C/ 114 SC 114.6

Grow, Robert RMG Consulting

Comment Type TR Comment Status X

Editor needs to generate a PICs based on occurance of shalls contained in the clause text.

P78

**L1** 

# 91

SuggestedRemedy

See comment.

Proposed Response Status O

Cl 115 SC 115.12 P86 L19 # 92

Grow, Robert RMG Consulting

Comment Type TR Comment Status X

Editor needs to generate a PICs based on occurance of shalls contained in the clause text after new text is added.

SuggestedRemedy

See comment.

Proposed Response Status O

CI 30 SC P L # 93

Grow, Robert RMG Consulting

Comment Type T Comment Status X

aSymbolError during Carrier.

Make sure assertion of RX\_ER for other than TX\_ER conveyed across the interface is counted. If that can't be done, the 1000 Mb/s BEHAVIOUR needs to be modified.

SuggestedRemedy

Proposed Response Status O

CI 35 SC 35.1.1 Ρ # 94 C/ 115 SC 115.2.2 P82 L33 # 97 Grow, Robert RMG Consulting Satoshi Takahashi POF promotion Comment Type ER Comment Status X Comment Type T Comment Status X Does item g) need to be modified for us? Lowest ambient temperature for Type B shall be -40 C.(Table 115-1, 2nd line, 2nd row) SuggestedRemedy SuggestedRemedy Change "-45" to "-40" Proposed Response Response Status O Proposed Response Response Status O SC Р Cl 78 # 95 C/ 115 SC 115.2.2 P82 L33 Grow, Robert **RMG** Consulting Satoshi Takahashi POF promotion Comment Type ER Comment Status X Comment Type E Comment Status X Need to list 1000BASE-RH in this table (Table 115-1, 3rd line, 2nd row). SuggestedRemedy SuggestedRemedy Insert new row into Table 78-1 below 1000BASE-T (below 1000BASE-T1 if it is approved Change "85C" to "85 C" currently or before this project): Proposed Response Response Status O 1000BASE-RH 114, 115 Proposed Response Response Status O C/ 115 SC 115.2.2 P82 L34 # 99 POF promotion Satoshi Takahashi C/ 115 SC 115.2.2 P**82** L15 # 96 Comment Type E Comment Status X Satoshi Takahashi POF promotion (Table 115-1, 3rd line, 3rd row) Comment Type T Comment Status X SuggestedRemedy Micro-pigtail or lens shall be optional, not mandatory. Change "4inline" to "4 inline". "0inline" to "0 inline". SuggestedRemedy Proposed Response Response Status O Delete "Micro-pigtail / lens" Proposed Response Response Status 0 C/ 45 SC P23 **L1** # 100 Pérez-Aranda, Rubén **KDPOF** Comment Type ER Comment Status X Propose text for Clause 45 SuggestedRemedy Proposed text is attached in gepof\_management\_mdio\_v1.4 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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 100

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C/ 114 SC 114.3 Ρ # 101 C/ 114 SC 114.2.1 P45 L15 # 105 **KDPOF** RMG Consulting Pérez-Aranda, Rubén Grow, Robert Comment Type ER Comment Status X Comment Type TR Comment Status X The term "state machine" is used instead of "state diagram" Figure 114-20 The switch in the feedback path makes some unstated assumptions about an open circuit. SuggestedRemedy SuggestedRemedy Replace "state machine" with "state diagram" in all the text. Modify figure to replace switch with a mux and make clear what is the feedback data when Proposed Response Response Status O generation is completed and result is shifted out. Similar changes to Figure 114-9. SC Р C/ 114 # 102 Update supporting text accordingly. Pérez-Aranda. Rubén **KDPOF** Proposed Response Response Status O Comment Type T Comment Status X Proposed text for additional subclause explaining the signals in interface between PCS and C/ 114 SC 114.2.4.3.4 P49 L4 # 106 SuggestedRemedy Grow. Robert RMG Consulting Proposed text is attached in gepof interfacePMD v1.0.docx Comment Type ER Comment Status X Proposed Response Response Status 0 Unreadable inline equation. SuggestedRemedy Enter in FrameMaker SC 114.5 C/ 114 P**74** / 37 # 103 Pérez-Aranda. Rubén **KDPOF** Proposed Response Response Status O Comment Type TR Comment Status X Improved proposed text for EEE. SC 114.2.1 C/ 114 P31 L46 # 107 SuggestedRemedy Grow, Robert RMG Consulting Proposed text is attached in gepof energy efficient ethernet v1.2.docx Comment Type TR Comment Status X Proposed Response Response Status O Figure 114-3 Zero being prepended to content of control subblocks is ambiguous. Data zeroes are not the same as an analog zero. Р C/ 114 SC # 104 SuggestedRemedy Pérez-Aranda. Rubén **KDPOF** Describe better what the 16 symbols of zero actually are (e.g., 16 symbol times of 0 volts. If zero volts, it would be better if illustration in the Transmit Block figure was changed from Comment Type TR Comment Status X a box to a line to highlight this. Proposed text for additional subclause for Delay Constraints Proposed Response Response Status O SuggestedRemedy Proposed text is attached in gepof delay constraints v1.0

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

Response Status O

Proposed Response

Comment ID 107

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Cl 45 SC 45.2.1.1.4 Ρ # 108 Cl 45 SC Ρ L # 110 Grow, Robert Grow, Robert RMG Consulting RMG Consulting Comment Type Т Comment Status X Comment Type Ε Comment Status X Local and remote loopback are not described in Clause 114. Should PMA/PMD loopback A number of registers need to be defined for 1000BASE-RH. We can follow 1000BASE-KX be supported and if so should it be mandatory? Recommend mandatory local and remote and define control and status registers for the PHY, or use the generic capabilities of 1.0 and 1.1 which seem to fulfill all PMA/PMD needs. loopback. SuggestedRemedy SuggestedRemedy If remote loopback is supported, a reference to the definition should be added to If separate registers are desired, change Table 45-3 for PMA/PMD GEPOF register(s), 45.2.1.1.4. And it should be defined in Clause 114. recommend 1.158 for control, 1.159 for status. If generic registers are used, then in 45.2.1.2.3, Register/bit 1.1.7 define what GEPOF If local loopback is mandatory. Clause 45 bit 1.0.0 controls the function and 1000BASE-H should be added to the port type list in 45.2.1.1.5, if optional, no change to 45.2.1.1.5 is detailed faults this bit is based on. necessary. If either mandatory or optional, local loopback should be defined in Clause 114. Proposed Response Response Status O If not supported, 1000BASE-H non-support should be added to both of the above subclauses. C/ 30 SC Р 1 # 111 Proposed Response Response Status O Grow. Robert RMG Consulting Comment Type Comment Status X SC 45.5 Р C/ 45 L # 109 Clause 30 may need updates based on content adopted for Clause 45 management. RMG Consulting Grow, Robert SuggestedRemedy Comment Type ER Comment Status X Authorize the editor to produce changes to Clause 30 as appropriate for adopted Clause 45 content. Editor needs to generate PICs changes based on occurance of shalls contained in the clause text after new text is added. Proposed Response Response Status O SuggestedRemedy See comment. Р SC 1 CI 0 # 112 Proposed Response Response Status O Grow. Robert RMG Consulting Comment Type E Comment Status X There are a few places in PICS where "clause title" has not been replaced SuggestedRemedy Search and replace with appropriate title

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 Z/withdrawn SORT ORDER: Comment ID

Response Status O

 CI 0
 SC
 P
 L
 # 113

 Grow, Robert
 RMG Consulting

Comment Type E Comment Status X

Editor can make a number of text, style manual and FrameMaker related improvements.

### SuggestedRemedy

- 1. Add table of contents
- 2. Subclause reference format differs from base document. Change subclause references to Section format.
- 3. Search for "Section" and "Figure" update to proper cross reference.
- 4. Number equations.
- 5. Some large numbers are missing a non-breaking space as 1000s separator.
- 6. Review and remove obsolete Editor's Notes.
- 7. Re-enter some equations as large rather than medium (e.g., 114.2.3.4) to improve readability.
- 8. Search for .. and replace with : where possible (.. is not an 802.3 convention)

Proposed Response Status O

Cl 114 SC 114.2.4.1.2 P41 L4 # 114

Grow, Robert RMG Consulting

Comment Type E Comment Status X

PCS 64B/65B encoding formal definition might be better as an annex

SuggestedRemedy

Create normative Annex and move content

Proposed Response Response Status O