Cl 99 SC P1 L1 # C/ 115 SC 115.2 Ρ L Maquire, Valerie Stassar, Peter Siemon Huawei Technologies Comment Type Е Comment Status X Comment Type TR Comment Status X Variable link appears to be broken. IEEE P802.3bv™/D1.1 should read IEEE A definition of tx signal is not provided P802.3bv™/D1.2. SuggestedRemedy SuggestedRemedy create definition Repair broken variable link. Proposed Response Response Status O Proposed Response Response Status O Р C/ 115 SC 115.3 P C/ 115 SC Stassar, Peter Huawei Technologies Stassar, Peter Huawei Technologies Comment Type ER Comment Status X Comment Status X Comment Type TR Values for tx signal in 115.3.3 are not clear because of the following provided relation: a <= In Clause 115 no required BER has been specified, so the required performance for the tx signal < a optics is not specified. SuggestedRemedy SuggestedRemedy add a "minus" sign to the "left-hand" "a" specify required BER performance Proposed Response Response Status 0 Proposed Response Response Status O C/ 115 Р SC 115.2 SC 115.4 P # 3 C/ 115 Stassar, Peter Huawei Technologies Stassar, Peter Huawei Technologies Comment Type TR Comment Status X Comment Status X Comment Type TR In 115.2.1 tx signal is stated to be analog but it is also defined to be one of 512 discrete Only a single PMD 1000BASE-RH is given, but there are in fact 6 subtypes. It is general values in Clause 114 practice to make different PMD types for different power budgets. See for instance SuggestedRemedy 100GBASE-LR4 and 100GBASE-ER4, which are specified in a single clause in the same fix ambiguity tables, with different columns. SuggestedRemedy Proposed Response Response Status 0

create 6 PMDs

Proposed Response

Response Status O

C/ 115 SC Ρ # C/ 115 SC 115.4 Ρ L # 10 Stassar, Peter Stassar, Peter Huawei Technologies Huawei Technologies Comment Type TR Comment Status X Comment Type TR Comment Status X How many optical levels are there? In some places there seem to be 512 (-256 through The transmitter spec in Table 115-3 does not contain a parameter "Optical return loss tolerance (max)" and "Transmitter reflectance (max)". 255) and others 513 (-256 through +256)? SuggestedRemedy SuggestedRemedy resolve ambiguity by appropriate definitions and specifications add additional parameters Proposed Response Response Status O Proposed Response Response Status O C/ 115 SC 115.4 Ρ C/ 115 SC 115.4 Ρ Stassar, Peter Stassar, Peter Huawei Technologies Huawei Technologies Comment Type TR Comment Status X Comment Type Comment Status X In the transmitter spec in Table 115-3 the required signaling rate is not specified. The receiver spec in Table 115-4 is only specified for different power levels, not associated with any performance requirement. Even a mobile phone will comply to it. SuggestedRemedy SuggestedRemedy add signaling rate to Table 115-3 generate specification for multi-vendor compatibility Proposed Response Response Status O Proposed Response Response Status 0 C/ 115 SC 115.4 Ρ C/ 115 SC 115.4 # 12 Stassar, Peter Huawei Technologies Stassar, Peter Huawei Technologies Comment Type TR Comment Status X Comment Status X Comment Type TR The transmitter spec in Table 115-3 does not provide "conventional" transmitter quality parameters, like TDP, which are normally used to ensure that the required distance can be The receiver spec in Table 115-4 does not contain any reflectance requirement. bridged with acceptable penalties, and eye mask (or similar) spec that guarantees sufficient SugaestedRemedy eve opening of the 16-level PAM16 signal under worst case (reflection) conditions. The add reflectance to Table 115-4 commenter has been unable to find results of testing to check if the currently used parameters "amplitude". "linearity" and "spectral width" are sufficient to support multi-Proposed Response Response Status 0 vendor interoperability. SuggestedRemedy generate appropriate specification for multi-vendor compatibility

Response Status O

Proposed Response

C/ 115 SC 115.4 Ρ # 13 C/ 115 SC 115.4 Ρ L # 17 Stassar, Peter Stassar, Peter Huawei Technologies Huawei Technologies Comment Type TR Comment Status X Comment Type TR Comment Status X The receiver spec in Table 115-4 does not contain a wavelength spec. The link spec in Table 115-5 does not contain any maximum penalty, nor a maximum discrete reflectance. SuggestedRemedy SuggestedRemedy add wavelength range to Table 115-4 add maximum penalty and maximum discrete reflectance to Table 115-5 Proposed Response Response Status O Proposed Response Response Status O Р SC 115.4 # 14 C/ 115 C/ 115 SC 115.5 Ρ # 18 Stassar, Peter Huawei Technologies Stassar, Peter Huawei Technologies Comment Type TR Comment Status X Comment Type TR Comment Status X The receiver spec in Table 115-4 does not contain a maximum input power specification The optical measurements clause 115.5 does not contain any performance related testing. SuggestedRemedy like TDP, with associated reference transmitters and receivers. add maximum input power to Table 115-4 SuggestedRemedy Proposed Response Response Status O add performance related testing to Clause 115.5 Proposed Response Response Status 0 C/ 115 SC 115.4 Р 1 # 15 Stassar, Peter Huawei Technologies C/ 115 SC 115.5 P # 19 Comment Type TR Comment Status X Stassar, Peter Huawei Technologies The receiver spec in Table 115-4 does not contain a damage threshold specification Comment Status X Comment Type TR SuggestedRemedy The optical measurements clause 115.5 does not contain a worst case channel spec (115.4.3 is informative). add damage threshold to Table 115-4 SuggestedRemedy Proposed Response Response Status O add worst case channel spec to clause 115.5 Proposed Response Response Status 0 P C/ 115 SC 115.4 # 16 Stassar, Peter Huawei Technologies Comment Type TR Comment Status X The receiver spec in Table 115-4 does not contain a spec for stressed receiver sensitivity with associated conditions. SuggestedRemedy

add spec for stress receiver sensitivity with appropriate testing conditions to Table 115-4

Response Status O

Proposed Response

Cl 115 SC P L # 20
Stassar, Peter Huawei Technologies

Comment Type TR Comment Status X

It's totally unclear if this optical configuration is not sensitive to reflections from the POF link or whether it's very sensitive to reflections (as one would expect from the kind of multi-level signals used) and then how to limit penalties by appropriate specifications of maximum discrete reflectance and receiver reflectance.

SuggestedRemedy

resolve sensitivity to reflections or state that it is not relevant, supported by appropriate testing

Proposed Response Response Status O

C/ 115 SC P L # 21

Stassar, Peter Huawei Technologies

Comment Type TR Comment Status X

Kind of conclusion on the assessment of Clause 115: The general state of Clause 115 for the optical spec appears underspecified to enable the development of multi-vendor interoperable devices. It probably will require a significant rewrite to bring it to a significantly more complete level comparable to the 1G bi-directional specs in Clause 59.

SuggestedRemedy

rewrite Clause 115 to make it appropriate to support multi-vendor compatibility, similar to Clause 59. Furthermore show test results that specification methodology is sufficient to support multi-vendor compatibility.

Proposed Response Response Status O

Comment Type E Comment Status X

A minus sign is missing to "a" at the left side of the inequality.

SuggestedRemedy

Change "a =< tx_signal < a" to "-a =< tx_signal < a".

Proposed Response Response Status O

Cl 114 SC 114.2.1 P40

Remein, Duane Huawei

Comment Type TR Comment Status X

"Transmit Blocks shall be transmitted continuously" but the material in 114.5 implies that this is not always the case.

L15

23

SuggestedRemedy

Add "except when operting is low power mode as described in 114.5"

Update PICS accordingly

Proposed Response Status O

Cl 114 SC 114.2.1 P40 L44 # 24

Remein, Duane Huawei

Comment Type TR Comment Status X

Text describing this figure indicates "28 payload data sub-blocks (numbered 0 through 27)". I must assume these are the CW blocks labled 0 to 223 in the figure?

Is the lower part of the figure (CW193-CW223) a continuation of the upper part? If so there is no indication of this in the text or figure.

The meaning of the large "PHS12", "S212" and "S1" blocks at the bottom of the figure escapes me, why are they here? If this is to indicate the prefix claimed to be shown (see pg 42 lin 48 "As shown at the bottom of Figure 114–4, the pilot S1 has a prefix and postfix" these should be labled.

SuggestedRemedy

Alian text and figure.

Add key to figure indication the meaning of "S#", "CW#", "PHS#" Add prefix/postfix lables.

I would reccommend taking a more hierarchal approach to this figure (either top down or bottom up) and modifying the text accordingly. As is it is very confusing.

Proposed Response Response Status O

C/ 114 SC 114.2.1 P40 L47 # 25 C/ 114 SC 114.2.1.2 P43 L10 # 28 Remein, Duane Remein, Duane Huawei Huawei Comment Type Ε Comment Status X Comment Type E Comment Status X "Each pilot or header sub-block is composed of 160 symbols" "An MLS generator is used ..." This para can be greatly simplified SuggestedRemedy SuggestedRemedy should be "and" not "or" Change to read: Each pilot and header sub-block is composed of 160 symbols "A separate instantiation of the MLS generator illustrated in Figure 114-7 is used to generate a binary pseudo-random sequence of 13,312 bits length, which is then mapped Proposed Response Response Status O into PAM256 symbols as shown in Figure 114-8. See 114.2.3.3.3 for a definition of S/P and B2D blocks. The symbols at the input of the power scaling block belong to the set {-255, -253, ..., 253, 255}." C/ 114 SC 114.2.1 P41 **L6** # 26 Proposed Response Response Status O Remein, Duane Huawei Comment Type E Comment Status X C/ 114 SC 114.2.2.1 P44 L3 # 29 Stray words "Pilots data path: Remein, Duane Huawei SuggestedRemedy Comment Type TR Comment Status X Strike Is there some really good reason not to use the CRC16 generator already defined in Proposed Response Response Status O 55.4.2.5.13? Also not typicall we refer to this as CRC16 not CRC-16 (fix in 21 places) Р # 27 C/ 114 SC SuggestedRemedy Remein. Duane Huawei Reuse the CRC16 of 55.4.2.5.13. Strike most of the text here and include by reference. Comment Type E Comment Status X Proposed Response Response Status O "I-2k0, 2k0)" right paren should probably be a bracket SuggestedRemedy C/ 114 SC 114.2.2.3 P**44** L48 # 30 per comment Remein, Duane Huawei Proposed Response Response Status O Comment Status X Comment Type Why are we imposing a requirement on a figure? "The BCH encoder in Figure 114-9 shall systematically ..." Not that the requirement to use BCH encoding is in 114.2.2.4 SuggestedRemedy Change to: "The BCH encoder in Figure 114-9 systematically encodes 720 information bits into 896 coded bits. Update PICS accordingly. 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 30

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C/ 00 SC 0 L3 # 31 C/ 114 P63 L27 # 34 P46 SC 114.3.2.1.1 Remein, Duane Remein, Duane Huawei Huawei Comment Type ER Comment Status X Comment Type TR Comment Status X Several instances of number exceeding 3 digits exist without the proper separtor ".". For Variables in SD should be defined before presentation of the SD. example in this para there is 705 600 in 2 places which should apprear as 705.600 SuggestedRemedy SuggestedRemedy Add/move the formal definitions of all variables, conters, constants, etc. used in Fig 114-34 Review the entire draft for large numbers and insert the comma as appropriate. before the SD. Subsequent usage should reference the origional definition. Proposed Response Response Status O Proposed Response Response Status O C/ 114 SC 114.2.3.1.1 P46 L42 C/ 114 SC 114.3.2.1.1 P63 L29 # 35 Remein, Duane Remein, Duane Huawei Huawei Comment Type ER Comment Status X Comment Type TR Comment Status X Physical Data Block (PDB) or physical data block (PDB) as in 1.4.x. Pick one There appear to be a number of requirements (i.e., "shall " statements) that cannot be verified or confirmed. FOr example: SuggestedRemedy "The first stage is coarse timing recovery in PMARX TIMING COARSE, where symbol synchronization shall be performed using the a priori known pilot signal contained in the S1 per comment sub-block at the beginning of each received Transmit Block (see Figure 114-4)." Proposed Response Response Status O Generally requirements can be confirmed via some arbitrary testing. I don't see how this requirement can be tested. SuggestedRemedy C/ 114 SC 114.3.2.1.1 P63 1 27 # 33 Review all requriements for testability and remove any (i.e., convert to factual statements) Remein. Duane Huawei that cannot be tested in a device offered for sale. Update PICS accordingly. Comment Type ER Comment Status X CI 1.2 indicates SD states exit to the right, while many SD's also show exit conditions to the Proposed Response Response Status 0 bottom. This SD, Figure 114-34, has exit to top, right & bottom and state entrance from left, top and bottom. We should strive for consistency. C/ 114 SC 114.3.2.1.1 P63 L47 # 36 This problem also applies to: Remein, Duane Huawei Figure 114-37 Comment Type Comment Status X SugaestedRemedy ER Change all SD's so state entry is from top or left and exit is from right or bottom only Variable names should not be hyphenated as in: (preferrably use one, such as enter from top & exit from bottom, not both). Add a BEGIN "the link partner (rcvr thstate and and INITIAL state (with exit pma reset = ON + link control neg ENABLE p lock = OK)" SuggestedRemedy Proposed Response Response Status O Change all variable names to non-hyphenating (place curser in variable name and type <esc> n s in framemaker) 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 36

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SD precedence and conventions is not clearly stated.

SuggestedRemedy

Add Conventions subclause to 114.1 Overview

"Conventions

The notation used in the state diagrams in this clause follows the conventions in 21.5. Should there be a discrepancy between a state diagram and descriptive text, the state diagram prevails."

Add additional statements describing other conventions used in this clause (i.e, matlab conventions, etc.)

Proposed Response Status O

Cl 114 SC 114.3.2.1.5 P69 L41 # 38

Remein, Duane Huawei

Comment Type TR Comment Status X

SD variables should have a declared type. Examples of declared type include Boolean, signed integer, Unsigned n-bit integer, n-bit counter, n-bit binary, array, ... (n is some positive integer).

SuggestedRemedy

Add TYPE: statement to all varaible definitions

Proposed Response Response Status 0

C/ 114 SC 114.1.1

P**37** Huawei L33

39

Remein, Duane

ER

C

Comment Status X

Three letter acronym (TLA) not defined; "THP"

SuggestedRemedy

Comment Type

Ensure that every TLA used is defined once in the first instance in each clause (or use words, they never misconstrue and are all well defined).

TLAs that are rarely use (like ISI) need not be defined, they especially need to be defined twice and not used.

Use of TLAs should also make grammatical sense if they are expanded in a sentence. Use of partial TLA, such as "TP" pg 30 ln 14 "received with TH precoding" should be avoided, TP could mean "Toilet Paper" as it has not been defined, I hate to think what TP precoding means :-)

Proposed Response

Response Status O

Comment Status X

C/ 114 SC 114.4

P**78**

40

Remein, Duane

Comment Type

ein, Duane Huawei

TR

What is the relationship between this OAM channel and Clause 57 Operations, Administration, and Maintenance (OAM)? Given the similar terminology I would naturally assume they are somehow related but this is not clear.

SuggestedRemedy

Add text clarifyin gthe relationship. If not related find some other term than OAM which already carries a specific meaning in 802.3 as defined in Cl 57.

Proposed Response

Response Status O

C/ 114 SC 114.4

P**78** Huawei L16

L4

41

Remein. Duane

Comment Type TR Comment Status X

I believe all register in CI 45 are accessable through MDIO not just those in clauses 45.2.3.48 and 45.2.3.49.

SuggestedRemedy

Strike the sentence.

Proposed Response

Response Status O

C/ 114 SC 114.4.2 P**79** L9 # 42 Remein, Duane Huawei

Comment Type TR Comment Status X

802.3 has a long standing logical not operator and it is !~.

SuggestedRemedy

Change "the symbol ~ denotes logical not operator" to "the symbol "!" denotes logical not operator" and replace all "~" with "!"

Proposed Response Response Status O

C/ 114 SC 114.8 P90 L47 # 43 Remein, Duane Huawei

Comment Type TR Comment Status X

Clause 45 is optional and cannot be made mandatory by any other clause.

SuggestedRemedy

Change:

"Any PHY type using 1000BASE-H shall provide the management capabilities referenced in this clause and further defined in Clause 45."

"The 1000GBASE-H PHY shall provide managment capabilities described in this clause. The optional MDIO capability described in Clause 45 defines several variables that provide control and status information for and about the PHY. If MDIO is implemented, it shall map MDIO control variables to PHY control and status variables as shown in Table 114-x." Provide a cross reference to all managable variables between Cl 114 variable name and Cl 45 register name/bits (for example see 82.3.1 Table 82-10, 83.6 Table 83-3, 84.6 Table 84-2&3 and others).

Proposed Response Response Status O C/ 114 SC P70 L48 # 44

Remein, Duane Huawei

Comment Type TR Comment Status X

rcvr clock lock is set/reset when "the clock has been properly recovered". Yet I see no quantitative statements to indicate when this has been acomplished. I would expect some jitter specification or at least some reference to the receive clock and how to determine it is properly aligned.

SugaestedRemedy

Add the necessary text and figures or point to where this specificaiton lives.

Proposed Response Response Status O

C/ 115.1 SC 115.1 P103 L7 # 45

Remein, Duane Huawei

Comment Type Comment Status X

"it shall be integrated ..." but the only "it" I see is "the PMD and medium". Should I conclude that the POF must come permanently attached to the PHY device?

SuggestedRemedy

change "i"t to "the PMD"

Proposed Response Response Status O

SC 115.3.2 C/ 115 P107 L21 # 46 Remein, Duane

Huawei

TR

It strikes me as odd that we imply that link type C is only for automotive use. Wouldn't these work in planes, trains, boats, trucks and home attics too?

Comment Status X

SuggestedRemedy

Comment Type

Change "Automotive grade" to "Extended temperature grade"

Proposed Response Response Status O

C/ 115 SC 115.4.1 L1 # 47 C/ 115 SC 115.6.2 P110 P114 L36 Remein, Duane Remein, Duane Huawei Huawei Comment Type TR Comment Status X Comment Type TR Comment Status X It appears the there is an assumption regarding the linearity of the transmitter as you are the statement below strike me as odd when I look at Table 115–1 and observe link types A and B which are intended for "Consumer" and "Industrial" grade temperature ranges. using PAM-16 modulation. However there is nothing in the transmitter specification regarding this. If I were to use a totally non-linear laser this scheme could not work. It does "The 1000BASE-RH PHY is designed to operate in the automotive environment" not matter that such a device may not exist as you cannot predict the future. This is especially odd because as I recall the SG attempted to use home applications as a SugaestedRemedy justification for Braod Market Potential. Add the required linearity specifications. Clearly if a 1000BASE-H PHY is designed for automotive environment they will cost Proposed Response Response Status O themselves out of other markets. SuggestedRemedy Reframe the section so that it covers all intended markets. C/ 115 SC 115.6.1 P114 L31 # 48 Remein, Duane Huawei Proposed Response Response Status O Comment Type TR Comment Status X This statement implies that the customer may not want to purchase your product if you C/ 00 SC 0 P116 **L1** don't meet their specifications that may be above and beyond what IEEE specifies, which of course is true but need not be stated. Remein, Duane Huawei "All equipment subject to this clause may be additionally required to conform to applicable Comment Type Comment Status X TR local, state, or national motor vehicle standards or as agreed to between the customer and supplier." I count about 119 PICS statements between CI 114 & 115. However a search reveals 136 shall statements, each requireing a PICS statement. SuggestedRemedy SuggestedRemedy Strike the statement Review the PICS for completeness and added PICS statements for any shall statement Proposed Response Response Status O without a PIC entry.

> C/ 114 SC 114.9.4 P**92** L19 # 51 Pérez-Aranda, Rubén **KDPOF**

Response Status O

Comment Type ER Comment Status X

Round operation should be eliminated from eq. 114-24 because it can imply any kind of DAC resolution specification that should be up to the implementer.

SuggestedRemedy

Proposed Response

Eliminate rounding from equation to avoid misunderstanding / confusion because it is not necessary.

Proposed Response Response Status O # 49

50

C/ 114 SC 114.9.2 L1 # 52 C/ 115 SC 115.4.2 P110 L43 P92 # 55 **KDPOF** Anslow, Pete Pérez-Aranda, Rubén Ciena Comment Type T Comment Status X Comment Type TR Comment Status X For test modes 2 and 3, values of symbols should be 256 and -256, instead of 255 and -There seem to be no specifications on the receiver at all other than it should absorb a 255 to be precise, because the TX signal in normal operation (no test) will take -256 and certain range of optical power. A brick would do that satisfactorily. will be able to approach very close 256 depending on the implementation. SuggestedRemedy The ER optical measurement will be more precise considering 256 instead of 255. Provide a set of receiver specifications: Please, pay attention that the error produced in ER measurement with definition in D1.2 wavelength range (i.e. 255) is 0.1 dB that probably will be below the accuracy of any experimental setup. damage threshold SugaestedRemedy receiver sensitivity (optical power for a given BER) Replace 255 with 256 in test modes 2 and 3. overload reflectance Proposed Response Response Status 0 Proposed Response Response Status O C/ 115 SC 115.5.8 P113 L35 # 53 C/ 115 SC 115.3.5 P109 **L6** # 56 Brugarolas, Luis Miguel **KDPOF** Grow. Robert RMG Consulting Comment Type TR Comment Status X Comment Status X Comment Type Equation 115-4 is not correct Figure 115-2 – Power-on = FALSE is something that to me is imaginary. If there is no SugaestedRemedy electrical power to the PMD, a state diagram implementation is incapable of making any state decisions. Replace with: $RIN = 10*log10(Pn/(BW*loe^2*R))-G$ SuggestedRemedy Proposed Response Response Status O This should be rewritten as pmd reset or similar with pmd reset including a power on reset which typically keeps logic from going off and doing stuff until logic operability is assumed. Proposed Response Response Status O SC 115.4 P109 L46 # 54 C/ 115 Anslow, Pete Ciena Cl 45 SC 45.2.3.54 P33 L7 # 57 Comment Type TR Comment Status X Grow, Robert RMG Consulting Clause 115 should provide sufficient specifications to allow a transmitter from one manufacturer to interoperate with a receiver from another manufacturer. Comment Status X Comment Type T The requirements in 115.4 do not seem to be sufficient to achieve this. Is this really the way we want to define 1000BASE-H counters. It is common to clear a counter like this on read. It then is the responsibility of the management software to keep a See attached presentation "anslow 3bv 01 0915" containing simulations of a transmitter aggregate count (by adding the value to the aggregate count). As defined, a read and write that is compliant with the specifications but a completely closed eye. are required and that results in potentially missing data counts. SuggestedRemedy SuggestedRemedy Include sufficient specifications to adequately define the transmitter quality so that a I prefer self clearing counter to the counter that is reset as described here. receiver manufacturer has some limit as to how bad the transmitted eve can be. Proposed Response Proposed Response Response Status 0 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 57

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Cl 114 SC 114.3.1 P62 L21 # 58

Grow, Robert RMG Consulting

Comment Type TR Comment Status X

PHD.RX.REQ.THP.COEF transmission order is confusing. The field is described as 108 bits, so all 9 coefficients are in the same field. OAM is broken up into multiple 16 bit fields for the message, but placing 9 coefficients into a single field leads to confusion and it seems the index order of OAM registers and coefficient b(i) are different. In text the field is described as PHD.RX.REQ.THP.COEF[0:8] to me that says the first coefficient is b(0) and the ninth is b(8). But in the second paragraph of 114.3.1, the implied order in the field is b(8) first and b(0) last, when harmonizing the field transmission order specified in the sixth paragraph.

Table 114.2 uses a b(i) in indication 114.3.1 sixth paragraph indicates bit order for PHD transmission. It is lsb to msb of each field from top to bottom of Table 114-2

SuggestedRemedy

The first option and perhaps the cleanest is to split the coefficients into nine fields with b(8) first and b(0) ninth. The bit order description of page 62, line 21 could then be deleted.

If this isn't done, the description should be retained, but perhaps the line 21 COEF description should be moved to the sixth paragraph.

With either option, if line 21 properly describes transmission order, the collective name for coefficients or the field name if it remains a 108 bit field should be PHD.RX.REQ.THP.COEF[8:0] (not [0:8] as b(8) is in the MSBs of the field) to harmonize the bit orders in line 21 and line 36.

Proposed Response Status O

Cl 114 SC 114.3.1 P65 L18 # 59

Grow, Robert RMG Consulting

Comment Type TR Comment Status X

To a member of the IEEE RAC, the OAM type field and registers look like a potentially confusing identifier. No values are specified in P802.3bv, nor is any reference provided where they are (or will be) defined. It isn't clear if values are to be standardized, vendor specified or locally administered. If standardized, at least a footnote indicating where things will be standardized should be added. If locally administered, that should be stated. If though it is vendor specified (e.g., by an auto manufacturer), the field should include a vendor identifier from a registry (i.e., OUI/CID).

SuggestedRemedy

Better define the field. The best approach for vendor assignment would be to use Std 802 protocol identifier format which uses (OUI/CID) to allow a vendor to create a unique protocol identifier.

Proposed Response Status O

C/ 114 SC P L # 60
Grow, Robert RMG Consulting

Comment Type TR Comment Status X

I think we still have the specifications of TX PHD fields getting set by the state diagrams. As I understand it, we don't want TX PHD fields changes any point in Transmit Block transmission, but rather only at start of a Transmit Block. For example, at that commit point, LOCPHD.RX.HDRSTATUS <- loc_rcvr_hdr_lock would occur, not at the same time the state diagram variable changes.

SuggestedRemedy

Clarify all text describing variable to PHD field mapping to indicate the PHD field is only updated at Transmit Block start.

Proposed Response Status O

C/ 115 SC P104 # 61 C/ 115 SC 115.4.1 P109 L52 # 64 L31 RMG Consulting RMG Consulting Grow, Robert Grow, Robert Comment Type TR Comment Status X Comment Type E Comment Status X The change to continuous generation for a number of the primitives is wrong. We erred in I think "normal inter-frame" frame should be normal operation. This also seems to be the resolution of D1.1 comment resolution for comments #392 and #393. The D1.1 text did mostly redundant with the similar, but more correct phrase in parenthesis on page 110, line though need improvement. While it is prudent for an implementation to use a continuous signal, the style for service primitives is to only signal changes in value as an event. SuggestedRemedy SugaestedRemedy Delete the parenthetical expression on p.109, I.52. PMD TXPWR.request, PMD RXPWR.request, and PMD SDINH.request, should be Proposed Response Response Status 0 generated only on a change in value of the parameter. For example: "The PMD_TXPWR.request(tx_pwr) is generated by the PCS transmitter whenever the value of tx pwr changes as specified by the state diagram of Figure 114-46 (see 114.5)." SC 0 P1 C/ 00 L1 # 65 Proposed Response Response Status O Grow, Robert RMG Consulting Comment Type E Comment Status X C/ 114 SC 114.2.3.3.7 P**59** L 52 # 62 Fix bad draft numbers on title page. Grow. Robert RMG Consulting SuggestedRemedy Comment Status X Comment Type F Make sure draft number in lines 1. 4, and 27 are all the FrameMaker draft number variable Typo rather than text. Proposed Response Response Status O SuggestedRemedy Change "is" to "as". Proposed Response Response Status O C/ 45 SC 45.2.3.48.4 P27 L12 # 66 Grow. Robert **RMG** Consulting Comment Type **E** Comment Status X C/ 114 SC 114.3.1 P64 L23 # 63 The subclause title for TXO TYPE appears to have been accidentally merged into the Grow, Robert RMG Consulting preceding paragraph. Comment Type E Comment Status X SuggestedRemedy Table 114.2 uses a b(i) in Description but b(k) in Valid values column for coefficient TXO TYPE (3.500.11:0) needs to be on its own line and a FrameMaker 5th level heading number. b(i) is used throughout text in the clause style (H5). SuggestedRemedy Proposed Response Response Status O Change "b(k)" in Valid values to "b(i)". Proposed Response Response Status O

Cl 45 SC 45.2.3.48 P26 **L8** # 67 C/ 114 SC 114.3.1 P**64** L4 # 71 Grow, Robert RMG Consulting RMG Consulting Grow, Robert Comment Type Е Comment Status X Comment Type ER Comment Status X Add a reference for register usage description. PHD description could use some clarification. 114.3.1 talks about PHD fields and as does Table 114-2, vet column 1 of Table 114-2 has a heading of symbol. SuggestedRemedy At end of first sentence add: (see 114.4.1). SuggestedRemedy Proposed Response Response Status O Change heading of column 1 heading of Table 114-2 to Field Name. Proposed Response Response Status O SC 45.2.3.49 P**27** L28 Cl 45 # 68 Grow, Robert RMG Consulting C/ 00 SC 0 Р L # 72 Comment Type E Comment Status X Grow. Robert RMG Consulting Add a reference for register usage description. Comment Type ER Comment Status X SuggestedRemedy I have been slow to realize this, but I now think ME (Management Entity) should be STA At end of first sentence add: (see 114.4.3). (station management entity) for consistency with Std 802.3. We shouldn't be defining a Proposed Response Response Status O new term. SuggestedRemedy Replace Management Entity and ME with station management entity and STA C/ 45 SC 45.2.3.52.1 P32 L36 # 69 respecitively, and modify surrounding text if required. Grow. Robert RMG Consulting Proposed Response Response Status O Comment Type Comment Status X Ε Grammar. C/ 45 SC 45.2.3.51.14 P32 **L9** # 73 SuggestedRemedy Grow, Robert RMG Consulting Delete superflous "in". Comment Type ER Comment Status X Proposed Response Response Status O Add a reference for OAM support. SuggestedRemedy # 70 C/ 45 SC 45.2.3.54.2 P33 L34 At end of first sentence add: (see 114.4). Grow. Robert RMG Consulting Proposed Response Response Status O Comment Type Ε Comment Status X Grammar. SuggestedRemedy

Response Status O

Change "are" to "is".

Proposed Response

Cl 78 SC 78.2 P35 L17 # 74 C/ 114 SC 114.3 P70 L52 # 76 Grow, Robert RMG Consulting Pérez-Aranda, Rubén **KDPOF** Comment Type ER Comment Status X Comment Type TR Comment Status X Bad editing instruction. State variable link control is not well defined: variable that controls the connection between PCS and PMD sublavers. SuggestedRemedy It is an state variable that enables and disables all the PMA functionalities and as a Change "above" to "below". consequence, the functionalities of PCS and PMD. Proposed Response Response Status O SuggestedRemedy Change definition to: "link control Variable that controls the PMA functional operation C/ 114 SC 114.3 P66 L1 # 75 Values: DISABLE: prevent operation of PMA sublayer Pérez-Aranda, Rubén **KDPOF** ENABLE: permit operation of PMA sublayer" Comment Type T Comment Status X Also modify accordingly the text regarding to link_control in description of state diagrams: Move subclause "PHY TX control state diagram" ahead of the "PHY RX control state P62,L51 diagram" to improve clarity. TX should be described before RX. P66.L31 SuggestedRemedy P66.L50 P67,L40 per comment P68.L50 Proposed Response Response Status O P69,L26 P72,L44 P73,L24 P76,L6 P80.L45 P82,L49 Proposed Response Response Status O C/ 115 SC 115.3.3 P107 L38 # 77 Tajima, Takayuki Yazaki Corporation Comment Type E Comment Status X It is not clear the symbol of "P" in the equation. SuggestedRemedy Install " "(space) at the head of this equation.

Proposed Response

Response Status O

C/ 115 SC 115.3.5 P108 L52 # 78

Tajima, Takayuki Yazaki Corporation

Comment Type E Comment Status X

Improper description in Receive condition at Table 115-2

SuggestedRemedy

Eliminate "is" before <-35 dBm or add "is" before >-29dBm.

Proposed Response Status O

C/ 115 SC 115.4.1 P110 L1 # 79

Tajima, Takayuki Yazaki Corporation

Comment Type E Comment Status X

Table 115-3 is located at the wrong position.

SuggestedRemedy

Move Table 115-3 to the end of subsection.

Proposed Response Status O