

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI **FM** SC **FM** P1 L28 # 13
Hajduczenia, Marek Charter Communications
Comment Type **E** Comment Status **D** EZ
Missing spacing between numeric value and units in "2.5 Gb/s, 5Gb/s, 10Gb/s, 25 Gb/s and 50 Gb/s"
SuggestedRemedy
Add missing spaces
Proposed Response Response Status **W**
PROPOSED ACCEPT.

CI **FM** SC **FM** P1 L29 # 10
Hajduczenia, Marek Charter Communications
Comment Type **E** Comment Status **D** EZ
"Draft D2.0 is prepared for Task Force review"
SuggestedRemedy
Likely for initial Working Group review. Next versions should say "working Group ballot recirculation"
Proposed Response Response Status **W**
PROPOSED ACCEPT.

CI **FM** SC **FM** P7 L15 # 45
Grow,Robert RMG Consulting
Comment Type **E** Comment Status **D** EZ
WG ballot group is now known.
SuggestedRemedy
Remove Editor's Note and include WG ballot list.
Proposed Response Response Status **W**
PROPOSED ACCEPT.

CI **FM** SC **FM** P9 L19 # 46
Grow,Robert RMG Consulting
Comment Type **E** Comment Status **D** EZ
P802.3 has changed capitalization of EtherType to EtherType per current RAC preference.
SuggestedRemedy
"EtherType"
Proposed Response Response Status **W**
PROPOSED ACCEPT.

CI **FM** SC **FM** P10 L39 # 47
Grow,Robert RMG Consulting
Comment Type **E** Comment Status **D** EZ
The Section Nine description was modified during P802.3 balloting.
SuggestedRemedy
Update for consistency with P802.3/D3.2.
Proposed Response Response Status **W**
PROPOSED ACCEPT.

CI **00** SC **0** P0 L0 # 7
Brown, Matt Huawei
Comment Type **E** Comment Status **D** EZ
Throughout the draft when listing an IEEE standard the year for unapproved standards is inconsistent. The draft template uses 202x whereas inserted text in this draft uses 20XX.
SuggestedRemedy
Replace "20XX" with "202x" throughout this draft. For example, change "IEEE Std 802.3dd-20XX" to "IEEE Std 802.3dd-202x".
Proposed Response Response Status **W**
PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

Cl 00 SC 0 P106 L # 21
 Hayashi,Takehiro HAT Labs
Comment Type E Comment Status D EZ
 The order of Figure 166-31, 32 is incorrect.
SuggestedRemedy
 correct the position of figures.
Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 1 SC 1.3 P20 L4 # 15
 Hajduczenia, Marek Charter Communications
Comment Type E Comment Status D EZ
 No new normative references
SuggestedRemedy
 Remove subclause 1.3
Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 44 SC 44.1.4.4 P28 L9 # 67
 Grow,Robert RMG Consulting
Comment Type E Comment Status D EZ
 Base text error.
SuggestedRemedy
 The strikethrough "and" belongs after "Clause 68,".
Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1 P29 L25 # 16
 Hajduczenia, Marek Charter Communications
Comment Type ER Comment Status D EZ
 Wrong editorial markup in Table 45-3. "1.73" should be underlined, also no need for preceding ","
 Wrong editorial markup in Table 45-3. "902" should be underlined.
 There are two Table 45-3 instances.

SuggestedRemedy
 Please fix the editorial issues
Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1 P29 L25 # 68
 Grow,Robert RMG Consulting
Comment Type E Comment Status D EZ
 Change marking error/inconsistency. Make style of change marking the same on rows 25 and 38.
SuggestedRemedy
 Delete the comma and space after "1.72, " also "1.73" should be underlined. Make line 38 consistent -- strikethrough 1.901 followed by underline 1.902.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.158a.1 P31 L27 # 137
 Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
 Indication of 10GBASE-AU encoding is not consistent with others.

SuggestedRemedy
 Change "When these bits are set to 0010, the mode of operation is 10GBASE-AU" with "When these bits are set to 0b0010, the mode of operation is 10GBASE-AU"
Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 45 SC 45.2.3.87c P35 L35 # 138

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

Test pattern for stressed receiver sensitivity measurement is not a valid test pattern for a PHY. This test pattern is intended to be generated by an external test equipment calibrated to generate a signal conditioned for receiver stressed sensitivity.

SuggestedRemedy

Remove 1 1 0 assignment of table 45-313c

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 45 SC 45.2.3.87c.1 P36 L11 # 139

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

Test pattern for stressed receiver sensitivity measurement is not a valid test pattern for a PHY. This test pattern is intended to be generated by an external test equipment calibrated to generate a signal conditioned for receiver stressed sensitivity.

SuggestedRemedy

Remove "A value 0b110 in bits 3.2348.15:13 shall select the test pattern for stressed receiver sensitivity measurement transmission as specified in Table 45-313c with behavior as specified in 166.5.6."

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 45 SC 45.2.3.87c.2 P36 L18 # 140

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Value assignation not consistent with number of bits

SuggestedRemedy

Change "0b00 is selected in 3.2348.15:13" with "0b000 is selected in 3.2348.15:13"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 45 SC 45.2.3.87c.2 P36 L18 # 239

Slavick, Jeff

Broadcom

Comment Type T Comment Status D EZ

Short a 0.

SuggestedRemedy

Updated the 0b00 to 0b000 inside the paranthesis of the last sentence.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 45 SC 45.2.3.87c.3 P36 L23 # 240

Slavick, Jeff

Broadcom

Comment Type T Comment Status D EZ

The BASE-U OAM ability reference should be to its sub-clause

SuggestedRemedy

Change "bit 3.2349.1 = 0, see Table 45-313d" to "see 45.2.3.87d.13"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 45 SC 45.2.3.87c.4 P36 L32 # 241

Slavick, Jeff

Broadcom

Comment Type T Comment Status D EZ

The EEE ability reference should be to its sub-clause

SuggestedRemedy

Change "bit 3.2349.0 = 0, see Table 45-313d" to "see 45.2.3.87d.14"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 45 SC 45.2.3.87h P40 L27 # 142

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Definition of RS-FEC codeword error counter bits should be in a sub-section "45.2.3.87h.1 RS-FEC codeword error counter (3.2353.15:0)"

SuggestedRemedy

Per comment

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 78 SC 78.5 P45 L9 # 263

Ran, Adeel

Cisco

Comment Type E Comment Status D EZ

In Table 78-4, the new AU PHY types are intended to support only fast wake LPI, similar to all other PHYs over optical media.

The existing PHYs in table 78-4 which use fast wake are listed as "fast wake": 25GBASE-R fast wake, 40GBASE-R fast wake, 50GBASE-R fast wake, 100GBASE-R fast wake, 200GBASE-R fast wake, and 400GBASE-R fast wake.

SuggestedRemedy

Add "fast wake" in the "PHY or interface type" column of the new PHYs.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 105 SC 105 P46 L10 # 71

Grow,Robert

RMG Consulting

Comment Type E Comment Status D EZ

Unless P802.3cz is assigned an amendment number, it might be helpful to add to the note because of the significant overlap in things edited by P802.3cy and P802.3cz.

SuggestedRemedy

Add: Please note that P802.3cy also modifies clause 105 in similar locations to those below. This draft assumes P802.3cz will precede P802.3cy in amendment order.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 105 SC 105.1.3 P105 L8 # 17

Hajduczenia, Marek

Charter Communications

Comment Type ER Comment Status D EZ

Table 105-1 shows inserted row but also includes unchanged rows
Table 105-2 shows inserted columns but also includes unchanged columns

SuggestedRemedy

Delete unchanged rows from Table 105-1 and unchanged columns from Table 105-2, and any other tables that contain unchanged rows/columns - they are not needed. Update the editorial instructions accordingly.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 105 SC 105.2 P49 L5 # 265

Ran, Adeel

Cisco

Comment Type E Comment Status D EZ

Table 105-2 looks wider than the usual text boundaries. Its columns can be narrowed to make it fit the boundaries as in all other tables.

Similarly in Table 125-2 (page 55), and possibly other tables in this draft.

SuggestedRemedy

Change column widths in all tables that exceed the boundaries as necessary.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 105 SC 105.2 P49 L6 # 4

Brown, Matt

Huawei

Comment Type E Comment Status D EZ

Table 105-2 extended beyond the text boundaries on left and right.

SuggestedRemedy

Reduce the the column widths so that the table falls within the text boundaries (outside of the margins).

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 131 SC 131.1.3 P58 L32 # 131

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

64/65B is not correct encoding (Table 131-1)

SuggestedRemedy

Replace "50 Gb/s PHY using 64/65B and Reed-Solomon encoding" with "50 Gb/s PHY using 64B/65B and Reed-Solomon encoding"

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

Cl 166 SC 166.13 P 136 L 15 # 202

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

Add two rows to Table 166–21 to include mapping of pcs_reset variable.

SuggestedRemedy

Add row, “Reset = 1, PCS control 1, 3.0.15, pcs_reset = TRUE”. Add row “Reset = 0, PCS control 1, 3.0.15, pcs_reset = FALSE”

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.1.4 P 63 L 33 # 244

Dawe, Piers

Nvidia

Comment Type E Comment Status D EZ

fiber.The

SuggestedRemedy

fiber. The

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.1.4 P 64 L 3 # 145

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Incorrect reference.

SuggestedRemedy

Replace “(see 166.2.2.9)” with “(see 166.2.2.8)”

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.1.4 P 64 L 26 # 146

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

I miss reference to subclause where EEE operation of BASE-AU PHY is defined.

SuggestedRemedy

Add “BASE-AU EEE operation is specified in 166.4.”

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.1.4 P 64 L 36 # 8

Lusted, Kent

Intel Corporation

Comment Type ER Comment Status D EZ

the nominal Baud rates for the 2.5G, 5G, 10G, 25G, and 50G rates are specified in MBd, even though all of the rates are in the multi-gigabit range. It reads odd to me that the text has thousands or tens of thousands MBd when GBd would be a better unit.

SuggestedRemedy

Change the Baud rates for 2.5GBASE-AU, 5GBASE-AU, 10GBASE-AU, 25GBASE-AU, and 50GBASE-AU from MBd units to GBd units.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.1.4 P 65 L 18 # 147

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

Interfaces of PCS with PMA are in form of bits, instead of symbols. Symbol mapping and de-mapping are part of PMA, TX and RX functions, respectively

SuggestedRemedy

Replace “transmit symbols” with “transmit bits”, and replace “receive symbols” with “receive bits”.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.2.1 P 66 L 42 # 172

Pérez-Aranda, Rubén

KDPOF

Comment Type E Comment Status D EZ

Should not be reference to 166.2.2.8 instead of 166.2.2.9?

SuggestedRemedy

Replace by the right reference according to comment.

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 166 SC 166.2.1 P67 L7 # 173
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
65B/64B code is not defined.
SuggestedRemedy
Replace "65B/64B decoding" with "64B/65B decoding".
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.1 P67 L17 # 174
Pérez-Aranda, Rubén KDPOF
Comment Type E Comment Status D EZ
Should not be reference to 166.2.2.8 instead of 166.2.2.9?
SuggestedRemedy
Replace by the right reference according to comment.
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.2.1.1 P69 L19 # 175
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
There is only one filed PHD.TX.NEXT.*, which is PHD.TX.NEXT.MODE.
SuggestedRemedy
Change "PHD.TX.NEXT.*" with "PHD.TX.NEXT.MODE".
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.2.1.2 P70 L2 # 176
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
The use of term parity may result confuse in this context, when cyclic redundancy check is used.
SuggestedRemedy
Change "followed by the resulting 16-bit parity check to compose the concatenation of the PHD and the parity bits" with "followed by the resulting 16-bit redundancy check to compose the concatenation of the PHD and the redundancy bits"

Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.2.1.2 P70 L5 # 177
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
The use of term parity may result confuse in this context, when cyclic redundancy check is used.
SuggestedRemedy
Replace "the PHD and the parity bits" with "the PHD and the redundancy bits"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.2.5 P74 L7 # 178
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Figure 166–9 may be confuse, because the square boxes representing each bit position of the shift register are depicted continuous from 1 to 22 and number of them is small than 22.
SuggestedRemedy
Remove a square box in the middle of the shift register and replace it with ellipsis, like in Figure 166-33 and Figure 166-34.
Proposed Response Response Status W
PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 166 SC 166.2.2.6 P74 L 29 # 180

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

The shall statements of 166.2.2.6 and 166.2.2.7 can be included in a single sub-clause "PCS transmit bit order". Finding a subclause called "PCS physical header data transmit bit order" after specification of the binary scrambler is confuse because physical header data path was specified before payload data path, RS-FEC and scrambler. Additionally, both, physical header data path and payload data path are related by the time-domain multiplexing of the transmit ordering, so it does not make sense to separate in two different sub-clauses.

SuggestedRemedy

Move text "The PCS transmit function shall conform to the PCS Physical Header Data transmit bit order in Figure 166-10." to beginning of subclause "PCS transmit bit order" (current 166.2.2.7). Remove sub-clause 166.2.2.6.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.2.2.7 P74 L 37, 38 # 181

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

The mapping of XGMII, 25GMII and 50GMII is specified by figures 166-12 and 166-13, regardless the actual exposition of these xMII interfaces in a PHY implementation. Specification is provided in these media independent interfaces, so it cannot be conditional. In other words, if these xMII are not exposed (i.e. used) in a PHY implementation, how the information from the reconciliation layers is mapped?

SuggestedRemedy

Remove "if used" in both lines, 37 and 38.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.2.2.8.2 P76 L 50 # 183

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Title is confuse, at this level of hierarchy. We are in the specification of PCS 64B/65B encoding. Transmit process is part. PCS transmit process can be understood as PCS transmit function, with already include 64B/65B encoding and much more functionality inside.

SuggestedRemedy

Change "PCS transmit process" with "Transmit process" Same for the beginning of the first paragraph of this sub-clause.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.2.2.8.2 P77 L 53 # 184

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

"tx_block<0> contains the data/ctrl header and the remainder of the bits contain the 65-bit block payload." is redundant with the next sub-clause.

SuggestedRemedy

Remove sentence of page 77 line 53. Start first paragraph page 78 with "The first bit tx_block<0> of a 65-bit block ..." to specify clearly how bits are mapped to tx_block construct.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.2.2.8.4 P79 L 46 # 197

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Incorrect reference.

SuggestedRemedy

Change "Table 166-5 for BASE-U PCS connected to XGMII or 25GMII" with "Table 166-4 for BASE-U PCS connected to XGMII or 25GMII"

Proposed Response Response Status W

PROPOSED ACCEPT.

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CI 166 SC 166.2.2.8.4 P79 L46 # 273
 Thomas, Huber Intel
 Comment Type E Comment Status D EZ
 The control codes from XGMII and 25GMII are table 166-4
 SuggestedRemedy
 Change Table 166-5 to Table 166-4.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.2.2.8.4 P79 L46 # 226
 Martino, Kjersti Inneos
 Comment Type E Comment Status D EZ
 Typo in table number for control codes for XGMII, 25GMII, listed as Table 166-5, but should be 166-4
 SuggestedRemedy
 "Table 166-4 for BASE-U connected to XGMII or 25GMII"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.2.2.8.4 P80 L20 # 198
 Pérez-Aranda, Rubén KDPOF
 Comment Type TR Comment Status D EZ
 Column "BASE-U PCS O code" should be used to include the value of the O codes, which are 4-bit, and used to encode the ordered set control codes using in combination with the block type field. Why reserved0 through reserved5 appears in this column? This column only makes sense for sequence ordered sets and signal ordered sets. See 802.3-2018 49.2.4.4.
 SuggestedRemedy
 Remove reserved0 through reserved5 from column "BASE-U PCS O code".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.2.2.8.6 P81 L24 # 252
 Ran, Adeo Cisco
 Comment Type E Comment Status D EZ
 Per the style manual (14.2), "In general text, isolated numbers less than 10 should be spelled out".
 There are two such numbers in this line, 4 and 8, and others may exist.
 SuggestedRemedy
 Change "4" to "four" and "8" to "eight".
 Apply in other cases of isolated numbers across the draft as necessary.

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.2.2.8.9 P82 L1 # 199
 Pérez-Aranda, Rubén KDPOF
 Comment Type E Comment Status D EZ
 BASE-U PCS use one kind ...
 SuggestedRemedy
 Replace with "BASE-U PCS uses one kind ..."
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.2.2.8.9 P82 L3 # 227
 Martino, Kjersti Inneos
 Comment Type E Comment Status D EZ
 Only reference Table 166-5 for 50GMII for mapping, but should also list Table 166-4 to cover XGMII & 25GMII
 SuggestedRemedy
 "See Tables 166-4 and 166-5 for the mappings."
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Replace with "See Table 166-4 and Table 166-5 for the mappings."

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

Cl 166 SC 166.2.2.8.9 P82 L3 # 200

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Two tables should in the reference.

SuggestedRemedy

Replace "See Table 166–5 for the mappings." with "See Table 166–4 and Table 166–5 for the mappings."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
See #227.

Cl 166 SC 166.2.2.8.9 P82 L13 # 201

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Incorrect reference.

SuggestedRemedy

Replace "166.2.2.8.2" with "166.2.2.9"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.2.2.9.2 P83 L6 # 203

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Incorrect reference.

SuggestedRemedy

Replace "Variable set by the PHY TX control state diagram to control the 64B/65B encoder operation (see 166.2.2.10)." with "Variable set by the PHY TX control state diagram to control the 64B/65B encoder operation (see 166.3.4.2)."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.2.2.9.3 P83 L52 # 228

Martino, Kjersti

Inneos

Comment Type E Comment Status D EZ

Only reference Table 166-5 for 50GMII for mapping, but should also list Table 166-4 to cover XGMII & 25GMII

SuggestedRemedy

"A valid character control is one containing a xMII control code specified in Table 166-4 or 166-5."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Replace with "When BASE-U PCS is connected to XGMII or 25GMII, a valid character control is one containing a control code specified in Table 166-4. When BASE-U PCS is connected to 50GMII, a valid character control is one containing a control code specified in Table 166-5."

Cl 166 SC 166.2.2.9.3 P84 L3 # 208

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

Classification in case of LPI not supported is defined, however adding a note can be convenient.

SuggestedRemedy

Add after line 3, before T_TYPE(tx_raw<71:0>) definition: "Note — A BASE-U PHY that does not support EEE classifies vectors containing one or more /LI/ control characters as type E."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
Add note: "NOTE — A BASE-U PHY without EEE capability classifies vectors containing one or more /LI/ control characters as type E."

Cl 166 SC 166.2.3 P84 L15 # 185

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

Redundant shall statement.Already in 166.2.3.6.

SuggestedRemedy

Remove ", and the PCS receive bit ordering in Figure 166–17."

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 166 SC 166.2.3 P84 L 25 # 210
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
There is a plurality of RS-FEC messages.
SuggestedRemedy
Replace "The RS-FEC message obtained" with "Each RS-FEC message obtained"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.3 P84 L 25 # 209
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Error symbols are not defined. How the codewords are marked as erroneous depends on RS-FEC decoder implementation.
SuggestedRemedy
Replace "with error symbols" with "as erroneous"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.3 P84 L 32 # 211
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Figure is not providing specification about RXC.
SuggestedRemedy
Replace "as specified in Figure 166–18." with "as specified in 166.2.3.7 with mapping of Figure 166-18"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.3 P84 L 33 # 214
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
They are transfers (either data or control)
SuggestedRemedy
Replace "50GMII data transfers" with "50GMII transfers"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.3 P84 L 33 # 212
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
They are transfers (either data or control)
SuggestedRemedy
Replace "XGMII or 25GMII data transfers" with "XGMII or 25GMII transfers"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.3 P84 L 36 # 213
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Figure is not providing specification about RXC.
SuggestedRemedy
Replace "as specified in Figure 166–19." with "as specified in 166.2.3.7 with mapping of Figure 166-19"
Proposed Response Response Status W
PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 166 SC 166.2.3.2 P86 L 6 # 215
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
I miss a reference
SuggestedRemedy
Replace "by setting the R_BLOCK_TYPE of the affected 65-bit blocks equal to E" with "by setting the R_BLOCK_TYPE of the affected 65-bit blocks equal to E (see 166.2.3.7.3)"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.3.3 P86 L 11 # 274
Thomas, Huber Intel
Comment Type E Comment Status D EZ
The two sentences in this paragraph are the same, except that the first one doesn't refer to the figure
SuggestedRemedy
Delete the first sentence.
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.3.3 P86 L 11 # 216
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Repeated sentence.
SuggestedRemedy
Remove first one "The PCS receiver ordering shall separate from each RS-FEC message the group of 80 65-bit blocks and 20-bit encoded PHD sub-block." Fix PICS accordingly.
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.3.4 P86 L 15 # 275
Thomas, Huber Intel
Comment Type T Comment Status D EZ
It seems like a figure analogous to Figure 166-10 for the transmit direction would be helpful to illustrate the receiver processing of the PHD
SuggestedRemedy
Add a figure that is the reverse of Figure 166-10 and a reference to it.
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.3.5 P86 L 25 # 217
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Incorrect reference. Block types are defined in different sub-clause.
SuggestedRemedy
Replace "The block type field contains a reserved value (see 166.2.2.8.4)." with "The block type field contains a reserved value (see 166.2.2.8.3)."
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.2.3.5 P86 L 26 # 218
Pérez-Aranda, Rubén KDPOF
Comment Type E Comment Status D EZ
Space before Table 166-14.
SuggestedRemedy
Add space.
Proposed Response Response Status W
PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

Cl 166 SC 166.2.3.6 P86 L 39, 41 # 186

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

The mapping from 65-bit blocks is specified by figures 166-18 and 166-19, regardless the actual exposition of these xMII interfaces in a PHY implementation. Specification is provided in these media independent interfaces, so it cannot be conditional. In other words, if these xMII are not exposed (i.e. used) in a PHY implementation, how the information to the reconciliation layers is mapped?

SuggestedRemedy

Remove "if used" in both lines, 39 and 41. Full stop with new paragraph after first sentence. Just period after second sentence.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.2.3.7.2 P89 L 14 # 187

Pérez-Aranda, Rubén

KDPOF

Comment Type E Comment Status D EZ

Plural ...

SuggestedRemedy

Replace "The leftmost bit in the figure is" with "The leftmost bit in the figures is"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.2.3.7.3 P89 L 35 # 188

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Redundant ...

SuggestedRemedy

Replace "and decodes the 65B RS-FEC bit vector" with "and decodes it"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.2.3.7.3 P89 L 36 # 189

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

Incorrect reference in the shall statement.

SuggestedRemedy

Replace "The DECODE function shall decode the rx_block based on specified in 166.2.2.8.4." with "The DECODE function shall decode the rx_block based on specified in 166.2.2.8."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.2.3.8 P91 L 10 # 192

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Transition R_TYPE(rx_block) = (E + D + LI + T) is disconnected from state RX_INIT

SuggestedRemedy

Connect it

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.2.3.8 P91 L 11 # 193

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Transition R_TYPE(rx_block) = C has a vertical line in the middle of the text (at the letter l position).

SuggestedRemedy

Remove it

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 166 SC 166.2.3.8 P91 L41 # 194
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Text of transition "R_TYPE(rx_block) = C" from state RX_T is separated from the transition line.
SuggestedRemedy
Move transition text closer to line.
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.3 P92 L48 # 41
Torres, Luisma KDPOF
Comment Type ER Comment Status D EZ
"link quality" is not the name of the state machine described in 166.3.5
SuggestedRemedy
Replace "link quality" by "PHY quality monitor"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.3.4.3 P98 L18 # 195
Pérez-Aranda, Rubén KDPOF
Comment Type E Comment Status D EZ
State diagram is specified instead of state machine.
SuggestedRemedy
Change "machine" with "diagram"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.3.5.2 P100 L53 # 256
Ran, Adeo Cisco
Comment Type T Comment Status D EZ
"If the condition <condition in equation> holds, the variable loc_rcvr_status is assigned the value OK"
Language can be simplified; and what happens if it does not?
SuggestedRemedy
Change to "the variable loc_rcvr_status is assigned the value OK if <condition in equation>. Otherwise, it is assigned the value NOT_OK".
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.4.1 P104 L6 # 20
Hayashi,Takehiro HAT Labs
Comment Type E Comment Status D EZ
"in the sense" may be incorrect.
SuggestedRemedy
chage to "in the sense that".
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.4.2 P104 L23 # 196
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Cross-reference to PCS physical header transmit bit order is provided. It is more appropriate a cross-reference to sub-clause where physical header data path is specified.
SuggestedRemedy
Change "(see 166.2.2.6)." with "(see 166.2.2.1)."
Proposed Response Response Status W
PROPOSED ACCEPT.

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CI 166 SC 166.4.2.4 P105 L41 # 230
 Martino, Kjersti Inneos
 Comment Type E Comment Status D EZ
 Figure 166-31 is shown after figure 166-32. Note the figures are actually on page 106.
 SuggestedRemedy
 Move figure 166-31 directly below figure 166-30
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.4.3 P106 L37 # 221
 Pérez-Aranda, Rubén KDPOF
 Comment Type ER Comment Status D EZ
 Figures 166-32 and 166-31 are in reverse order.
 SuggestedRemedy
 Check anchors of the figures to get in the text Figure 166-31 before Figure 166-32.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.5.1 P108 L9 # 231
 Martino, Kjersti Inneos
 Comment Type E Comment Status D EZ
 Change wording for clarity of the following: "regardless the link status,"
 SuggestedRemedy
 "regardless of the link status,"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.5.1 P108 L15 # 132
 Pérez-Aranda, Rubén KDPOF
 Comment Type ER Comment Status D EZ
 Redundant
 SuggestedRemedy
 Replace "When the link partner receiver is in BER test mode operation mode," with "When the link partner receiver is in BER test mode,"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.5.1 P108 L21 # 133
 Pérez-Aranda, Rubén KDPOF
 Comment Type ER Comment Status D EZ
 Redundant
 SuggestedRemedy
 Replace "The transmitter shall announce to the link partner receiver the BER test mode operation mode" with "The transmitter shall announce to the link partner receiver the BER test mode"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.5.4 P109 L5 # 134
 Pérez-Aranda, Rubén KDPOF
 Comment Type E Comment Status D EZ
 Confuse sentence.
 SuggestedRemedy
 Replace "Bit sequence C is a 5462-bit sequence which generates an output bit sequence encoding" with "Bit sequence C is a 5462-bit sequence generated encoding"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.5.4 P109 L32 # 135
 Pérez-Aranda, Rubén KDPOF
 Comment Type TR Comment Status D EZ
 Incorrect shift register.
 SuggestedRemedy
 Replace "r[21]" with "r[24]"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

Cl 166 SC 166.5.5 P110 L12 # 136

Pérez-Aranda, Rubén

KDPOF

Comment Type T Comment Status D EZ

Generation of bit sequence A is not correct.

SuggestedRemedy

Replace "Bit sequence A is formed by concatenating bit sequences A1, A2, and A3." with "Bit sequence A is formed by binary inverting the concatenation of bit sequences A1, A2, and A3."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.6.1 P111 L # 24

Hayashi,Takehiro

HAT Labs

Comment Type E Comment Status D EZ

no contents

SuggestedRemedy

add contents, otherwise delete the sub-clause

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.6.2.1.2 P111 L45 # 84

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Here the transmit clock period term is used, instead of transmit symbol period of 166.3.1

SuggestedRemedy

Unify using transmit symbol period.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.6.3.2 P113 L41 # 85

Pérez-Aranda, Rubén

KDPOF

Comment Type E Comment Status D EZ

Change transmitter optical specifications to transmitter optical characteristics.

SuggestedRemedy

Per comment

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.6.3.3 P113 L52 # 86

Pérez-Aranda, Rubén

KDPOF

Comment Type E Comment Status D EZ

Change receive optical specifications to receiver optical characteristics.

SuggestedRemedy

Per comment

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.6.3.4 P114 L7 # 87

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

"The PMD receive function" should be "The PMD signal detect function"

SuggestedRemedy

Change per comment

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 166 SC 166.6.4.1 P114 L26 # 88

Pérez-Aranda, Rubén

KDPOF

Comment Type E Comment Status D EZ

The operating range for the 2.5GBASE-AU, 5GBASE-AU, 10GBASE-AU, 25GBASE-AU, and 50GBASE-AU PMDs

SuggestedRemedy

Simpler: the operating range for the BASE-AU PMDs

Proposed Response Response Status W

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

SORT ORDER: Clause, Subclause, page, line

Cl 166

SC 166.6.4.1

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CI 166 SC 166.6.4.2 P115 L31 # 278
 Simms, William NVIDIA
 Comment Type E Comment Status D EZ
 Table entry has type "distorsion"
 SuggestedRemedy
 correct to distortion
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.6.4.2 P115 L48 # 279
 Simms, William NVIDIA
 Comment Type E Comment Status D EZ
 footnote b of table 166-9 has typo "launch power blow this value"
 SuggestedRemedy
 correct 'blow' to below
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.6.4.2 P115 L48 # 26
 Hayashi,Takehiro HAT Labs
 Comment Type E Comment Status D EZ
 Although main body describes "transmitter shall meet the specifications in Table-9", note b says "a value above this does not ensure the compliance". This is very confusing.
 SuggestedRemedy
 clarify the compliance for what, or delete this sentence.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 This foot note has been mistakenly written in the transmitter characteristics table. Remove footnote.

CI 166 SC 166.6.4.2 P115 L48 # 25
 Hayashi,Takehiro HAT Labs
 Comment Type E Comment Status D EZ
 typo "blow"
 SuggestedRemedy
 "below"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.6.4.2 P115 L49 # 232
 Martino, Kjersti Inneos
 Comment Type E Comment Status D EZ
 In Table 166-9 note b, there is a typo in "launch power blow this value cannot"
 SuggestedRemedy
 "launch power below this value cannot"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 166 SC 166.6.4.2 P115 L49 # 89
 Pérez-Aranda, Rubén KDPOF
 Comment Type ER Comment Status D EZ
 Change "launch power blow this value cannot be compliant; however, a value above this does not ensure compliance.." to "launch power below this value cannot be compliant; however, a value above this does not ensure compliance."
 SuggestedRemedy
 Per comment
 Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

Cl 166 SC 166.6.4.3 P116 L 22 # 280
 Simms, William NVIDIA
 Comment Type E Comment Status D EZ
 table 166-10 entry has typo" Damage thershold (max)"
 SuggestedRemedy
 correct "thershold" to "threshold"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 166 SC 166.6.4.3 P116 L 22 # 28
 Hayashi,Takehiro HAT Labs
 Comment Type E Comment Status D EZ
 typo "thershold"
 SuggestedRemedy
 "threshold"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 166 SC 166.6.4.4 P117 L 20 # 31
 Hayashi,Takehiro HAT Labs
 Comment Type T Comment Status D EZ
 Can't understand the meaning of this row. (minimum channel length?)
 SuggestedRemedy
 please clarify.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Wrong units. Substitute "m" with "dB".

Cl 166 SC 166.6.4.4 P117 L 20 # 42
 Torres, Luisma KDPOF
 Comment Type ER Comment Status D EZ
 Table 166-11; wrong units for the Channel insertion loss (min)
 SuggestedRemedy
 Replace "m" by "dB"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 166 SC 166.7.1.1 P118 L 34 # 93
 Pérez-Aranda, Rubén KDPOF
 Comment Type ER Comment Status D EZ
 Replace FSWP with FSQWP, for consistency.
 SuggestedRemedy
 Per comment
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 166 SC 166.7.1.1 P119 L 14, 39 # 94
 Pérez-Aranda, Rubén KDPOF
 Comment Type ER Comment Status D EZ
 Wrong reference.
 SuggestedRemedy
 Replace 166.7.8.2.2 with 166.7.5.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 166 SC 166.7.4.1 P120 L 30 # 96
 Pérez-Aranda, Rubén KDPOF
 Comment Type TR Comment Status D EZ
 The combination of the O/E converter and the oscilloscope has a 3 dB bandwidth
 SuggestedRemedy
 Sign (-) in front of 3 is needed. Change to be "The combination of the O/E converter and the oscilloscope has a -3 dB bandwidth"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 166 SC 166.7.4.1 P120 L 31 # 97
 Pérez-Aranda, Rubén KDPOF
 Comment Type TR Comment Status D EZ
 "fourth-order Bessel-Thomson"
 SuggestedRemedy
 Change to be "fourth-order Bessel-Thomson low-pass filter"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 166 SC 166.7.4.1 P120 L33 # 98

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

BW_N is not defined.

SuggestedRemedy

Add "BW_N is the equivalent noise bandwidth of fourth-order Bessel-Thomson filter response"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.4.2 P121 L1 # 99

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

OMAuter measurement setup —> The setup was already specified in previous subclause. This is spec of measurement.

SuggestedRemedy

Change to be "OMAuter measurement"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.4.2 P121 L9 # 100

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Wrong eq reference

SuggestedRemedy

Change: "Equation (166–8) specifies the OMAuter of the PMD under test."

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.4.2 P121 L9 # 33

Hayashi,Takehiro

HAT Labs

Comment Type E Comment Status D EZ

Typo the number of equation (166-12)

SuggestedRemedy

166-8

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.4.2 P121 L12 # 101

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Not valid unitts

SuggestedRemedy

Replace "(Watts)" with (W)"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.5 P121 L23 # 34

Hayashi,Takehiro

HAT Labs

Comment Type E Comment Status D EZ

Typo the number of equation (166-19)

SuggestedRemedy

166-9

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.5 P121 L22 # 149

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Wrong reference.

SuggestedRemedy

Change to be "Using Pmin and Pmax obtained in 166.7.4.2"

Proposed Response Response Status W

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

SORT ORDER: Clause, Subclause, page, line

CI 166

SC 166.7.5

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Cl 166 SC 166.7.5 P121 L 29 # 150
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Wrong references.

SuggestedRemedy

Change with: "Alternatively, the ER can be measured as defined in 166.7.8.4, Equation (166-21)."

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.6 P121 L 34 # 151
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
"test pattern specified for extinction ratio". We are measuring RIN.

SuggestedRemedy

Change to be "test pattern specified"

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.6 P121 L 37, 40 # 152
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
center 3% interval

SuggestedRemedy

Change to be "center 3%"

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.7 P121 L 53 # 153
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
"test pattern specified for extinction ratio". We are measuring jitter.

SuggestedRemedy

Change to be "test pattern specified"

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.7 P122 L 8 # 155
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Wrong reference.

SuggestedRemedy

Change to be "Pmax and Pmin are measured as specified in 166.7.4.2."

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.7 P122 L 2, 6 # 154
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Incorrect equation "(Pmax-Pmin)/2"

SuggestedRemedy

Change to be "(Pmax+Pmin)/2"

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.8 P122 L 18 # 156
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
"using the method specified 166.7.8.2"

SuggestedRemedy

Change to "using the method specified in 166.7.8.2"

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.8 P122 L 21 # 157
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Wrong reference.

SuggestedRemedy

Change to "(specified in 166.7.8.2)"

Proposed Response Response Status W
PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 166 SC 166.7.8.1 P123 L1 # 158

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

The combination of the O/E converter and the oscilloscope has a 3 dB bandwidth

SuggestedRemedy

Sign (-) in front of 3 is needed and low-pass indication. Change to be "The combination of the O/E converter and the oscilloscope has a -3 dB bandwidth of 16.4 GHz with a fourth-order Bessel-Thomson low-pass response ..."

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.8.1 P123 L6 # 159

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

"The test pattern (specified in Table 166–13) is transmitted repetitively ..." Lack of reference for G=2.

SuggestedRemedy

"The test pattern (specified in Table 166–13 and Table 166-14) is transmitted repetitively ..."

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.8.3 P127 L45 # 170

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

Not valid reference

SuggestedRemedy

Replace with "The OMAouter can be calculated as defined in Equation (166–20)"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.8.3 P127 L45 # 35

Hayashi,Takehiro

HAT Labs

Comment Type E Comment Status D EZ

Typo the number of equation (166-21)

SuggestedRemedy

166-20

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.8.3 P127 L46 # 102

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Specifications vs descriptions

SuggestedRemedy

Replace "as described in 166.7.8.2." with "as specified in 166.7.8.2."

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.8.3 P127 L49 # 171

Pérez-Aranda, Rubén

KDPOF

Comment Type TR Comment Status D EZ

Not valid unitts

SuggestedRemedy

Replace "(dB)" with "(W)"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 166 SC 166.7.8.4 P128 L4 # 103

Pérez-Aranda, Rubén

KDPOF

Comment Type ER Comment Status D EZ

Specifications vs descriptions

SuggestedRemedy

Replace "as described in 166.7.8.2." with "as specified in 166.7.8.2."

Proposed Response Response Status W

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

SORT ORDER: Clause, Subclause, page, line

CI 166

SC 166.7.8.4

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IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

Cl 166 SC 166.7.8.5 P128 L12 # 104
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Specifications vs descriptions
SuggestedRemedy
Replace "as described in 166.7.8.2." with "as specified in 166.7.8.2."
Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.9 P128 L16 # 107
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Stressed receiver is defined.
SuggestedRemedy
Replace "For 2.5GBASE-AU, receiver sensitivity" with "For 2.5GBASE-AU, stressed receiver sensitivity". Do similar change for 5, 10, 25 and 50 GBASE-AU, in the following paragraphs.
Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.9 P128 L36 # 108
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Equation is not correct.
SuggestedRemedy
Replace "=" with "<="

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.10 P128 L48 # 110
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Incorrect reference.
SuggestedRemedy
Replace with "shall be within the limits given in Table 166–10"
Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.10 P129 L28 # 111
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Receiver sensitivity can only be defined for a complete PHY, but not for a PMD sublayer.
SuggestedRemedy
Replace "to the PMD receiver under test" with "to the PHY receiver under test"
Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.10 P129 L28 # 112
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Not clear specification.
SuggestedRemedy
Replace "The signal being transmitted is asynchronous to the received signal." with "The signal being transmitted by the PHY under test is asynchronous to the received signal."
Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.10.1 P129 L42 # 119
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Nominal symbol rate is of pattern generator
SuggestedRemedy
Replace "of the receiver under test" with "of the test-pattern generator"
Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 166 SC 166.7.10.1 P129 L46 # 36
Hayashi,Takehiro HAT Labs
Comment Type E Comment Status D EZ
Typo the number of equation (166-13)
SuggestedRemedy
166-23
Proposed Response Response Status W
PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 166 SC 166.7.10.1 P129 L 51 # 113
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Some parameters are defined in Table 166-9.
SuggestedRemedy
Replace "specified in Table 166-10" with "specified in Table 166-9 and Table 166-10"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.7.10.1 P130 L 53 # 115
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
incorrect register and reference
SuggestedRemedy
Replace with "Local link margin reported in register 3.2350 (see 45.2.3.87e) is lower than 0."
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.7.10.1 P131 L 9 # 117
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Incorrect units.
SuggestedRemedy
Replace "(Watts)" with (W)"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.7.10.1 P131 L 11 # 116
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Delete "using test setup defined in Figure 166-44.". It does not make sense here. Broken reference to figure.
SuggestedRemedy
Per comment
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.7.10.2 P131 L 19 # 118
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Incorrect reference. Primary params are STDFOM, ER and RIN.
SuggestedRemedy
Replace "The primary parameters of the stressed receiver conformance test signals are its stressed TDFOM (STDFOM), and RIN, as specified in 166.7.10.4." with "The primary parameters of the stressed receiver conformance test signals are its stressed TDFOM (STDFOM), ER, and RIN."

Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.7.10.2 P131 L 39 # 121
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Incorrect references. The ones provided are to measure AOP and OMAouter with different test patterns.

SuggestedRemedy
Replace "Measure OMAouter and AOP as specified in 166.7.4 and 166.7.3 to calculate gamma_tx = OMAouter/AOP." with "Measure OMAouter and AOP as specified in 166.7.8.3 and 166.8.5 to calculate gamma_tx = OMAouter/AOP."

Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.7.10.2 P131 L 50 # 122
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Sinusoidal jitter amplitude has to be adjusted too.

SuggestedRemedy
Replace "Turn on the sinusoidal jitter according to 166.7.10.4," with "Turn on the sinusoidal jitter and adjust its amplitude according to 166.7.10.4,"

Proposed Response Response Status W
PROPOSED ACCEPT.

IEEE P802.3cz D2.0 Multi-Gigabit Optical Automotive Ethernet Initial Working Group ballot comments

CI 166 SC 166.7.10.2 P131 L 27, 43 # 120
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Incorrect reference.
SuggestedRemedy
Replace "Table 166-9" with "Table 166-10".
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.7.10.3 P132 L 15 # 123
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Sentence is confuse.
SuggestedRemedy
Replace "To use an oscilloscope to calibrate the final stressed eye jitter that includes the sinusoidal jitter component" with "To use an oscilloscope to calibrate the final stressed signal that includes the sinusoidal jitter component"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.7.10.3 P132 L 21 # 124
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
tolerance test? not defined
SuggestedRemedy
Replace "Running the receiver tolerance test" with "Running the receiver sensitivity test"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.7.10.4 P132 L 35 # 233
Martino, Kjersti Inneos
Comment Type E Comment Status D EZ
Change wording for clarity of the following: "for the equations the table."
SuggestedRemedy
"for the equations in the table."
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.7.10.4 P132 L 49 # 125
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Replace KHz with kHz in Table 166-18
SuggestedRemedy
Per comment.
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.9.1 P133 L 47 # 129
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
It should be effective modal bandwidth
SuggestedRemedy
Replace "Modal bandwidth" with "Effective modal bandwidth" and add foot note: "When measured with the launch conditions specified in Table 166-9"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.9.1 P133 L 47 # 127
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Incorrect units. Replace "MHz.km" with "MHz·km"
SuggestedRemedy
Per comment.
Proposed Response Response Status W
PROPOSED ACCEPT.

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CI 166 SC 166.9.1 P133 L 50 # 128
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Replace "Dispersion slop" with "Chromatic dispersion slope"
SuggestedRemedy
Per comment.
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.9.1 P133 L 50 # 126
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
Incorrect units. Replace "ps/nm^2.km" with "ps/(nm^2.km)"
SuggestedRemedy
Per comment.
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.9.2.1 P134 L 10 # 130
Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status D EZ
The sentence does not make technical sense.
SuggestedRemedy
Replace "The maximum link distances are calculated based on the allocation of total connection insertion loss shown in Table 166–20." with "The maximum number of connections are calculated based on the allocation of total connection insertion loss shown in Table 166–20."
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.14.5 P138 L 14 # 143
Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status D EZ
Replace "about the productexplicitly defines requirements" with "about the product, where explicitly defines requirements"
SuggestedRemedy
Per comment
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166 SC 166.16.5 P144 L 27 # 234
Martino, Kjersti Inneos
Comment Type E Comment Status D EZ
Typo, extra "s" in "LPI is treated ass an error if"
SuggestedRemedy
"LPI is treated as an error if"
Proposed Response Response Status W
PROPOSED ACCEPT.

CI 166A SC 166A P154 L 1 # 6
Brown, Matt Huawei
Comment Type E Comment Status D EZ
Missing editorial instruction to add annex.
SuggestedRemedy
Add and editorial note at the top of the page "Insert new Annex 166A as follows:"
Proposed Response Response Status W
PROPOSED ACCEPT.

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CI **166A** SC **166A.2** P **154** L **26** # **258**

Ran, Adee

Cisco

Comment Type **T** Comment Status **D** EZ

"Table 166A-1 shows the first and last 2048 bits of tx_lfsr<0:195839>"

The table content is hexadecimal digits, not bits.

Similarly in Table 166A-2.

SuggestedRemedy

Change to "Table 166A-1 shows the hexadecimal representation of the first and last 2048 bits of tx_lfsr<0:195839>"

Change 166A.3 accordingly.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **166A** SC **166A.2** P **154** L **33** # **18**

Hajduczenia, Marek

Charter Communications

Comment Type **E** Comment Status **D** EZ

Table 166A-1 uses now standard font for long hex sequence. I suggest to use fixed width font, e.g., Courier New to make the hex code more readable.

SuggestedRemedy

Per comment. The same applies to Table 166A-2

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **166A** SC **166A.2** P **154** L **35** # **259**

Ran, Adee

Cisco

Comment Type **E** Comment Status **D** EZ

If the intent of the underscore characters in Table 166A-1 is no improve readability, it is hampered by the inconsistent placement of these characters in different rows.

The content would be easier to follow if fixed-width font is used, resulting in alignment of all underscores.

Similarly in Table 166A-2.

SuggestedRemedy

Format the content of the right column in a fixed-width font (e.g., Courier) or use other means to get a similar effect.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **TOC** SC **TOC** P **13** L **1** # **14**

Hajduczenia, Marek

Charter Communications

Comment Type **E** Comment Status **D** EZ

Something is wrong with indentation of Level 1 headers in TOC. Are you using the latest version?

SuggestedRemedy

Please fix

Proposed Response Response Status **W**

PROPOSED ACCEPT.