Cl **FM** SC **FM** P **3** L **4** # 221

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

automotive Ethernet, 100M+2.5GMBASE-T1

SuggestedRemedy

automotive Ethernet, 100M+2.5GBASE-T1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Do a global replace of "2.5GMBASE" with "2.5GBASE"

Val in Clause 202

Cl **FM** SC **FM** P **3** L **7** # 222

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

2.5G+100MBASE-V1, 100M+5GMBASE-V1

SuggestedRemedy

2.5G+100MBASE-V1, 100M+5GBASE-V1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Do a global replace of "5GMBASE" with "5GBASE"

Val in Clause 202

Cl **00** SC **0** P L # 317

Gorshe, Steve Microchip

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

SuggestedRemedy

Proposed Response *Response Status* **Z**

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl **00** SC **0** P L # 318

Gorshe, Steve Microchip

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

SuggestedRemedy

Proposed Response *Response Status* **Z**

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl **00** SC **0** P L # 319

Gorshe, Steve Microchip

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

SuggestedRemedy

Proposed Response *Response Status* **Z**

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl **00** SC **0** P L # 320

Gorshe, Steve Microchip

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

SuggestedRemedy

Proposed Response *Response Status* **Z**

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl **00** SC **0** P L # 324

Gorshe, Steve Microchip

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

SuggestedRemedy

Proposed Response *Response Status* **Z**

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl **1** SC **1.4** P **31** L **19** # 155

Zimmerman, George CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

The terms to be defined should be in bold, including the colon.

SuggestedRemedy

Format terms to be defined at each header in bold.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **1** SC **1.4.88** P **31** L **21** # 152

Zimmerman, George CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

Definition for XGMII could be read as implying all 3 rates.

SuggestedRemedy

Change "with these rates" to "with one of these rates"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **1** SC **1.4.248** P **31** L **24** # 153

Zimmerman, George CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

Definition for coaxial cable is OK as is.

SuggestedRemedy

No change to text, delete 1.4.248 from the draft

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **1** SC **1.4.249** P **31** L **27** # 154

Zimmerman, George CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

Definition for coaxial cable interface unnecessarily states that te medium is shared. It applies as well to point to point, unshared medium. I have reviewed all the existing uses, and they are specific to clause 11 and should be uneffected by the change.

SuggestedRemedy

Insert editing instruction to "Change 1.4.249 as shown:"
Mark "shared" in strikeout, showing deletion.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **1** SC **1.4.250** P **31** L **31** # 156

Zimmerman, George CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

it is unlikely we will use the definition of coaxial cable section, as it is a subset of the link segment. Furhter, the definition, as is, is quite specific with regards to connectors, and the use in clause 10…

SuggestedRemedy

Delete 1.4.250 from the draft.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **1** *SC* **1.4.251** *P* **31** *L* **35** # 157

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

The term coaxial cable segment is specific to a shared medium segment with terminators on each end (separate from the MDIs). It is unlikely we will have use for it, and if we do, we would need a different definition - so better to have a new term.

SuggestedRemedy

Delete 1.4.251 from the draft

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **30** *SC* **30.5.1.1.2** *P* **33** *L* **22** # 1

Lasry, Ariel — Qualcomm Technologies Inc.

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

Typo "/" used instead of "+"

SuggestedRemedy

replace "5G/100M" with "5G+100M"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **30** *SC* **30.5.1.1.2** *P* **33** *L* **24** # 2

Lasry, Ariel — Qualcomm Technologies Inc.

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

Typo "/" used instead of "+"

SuggestedRemedy

replace "5G/100M" with "5G+100M"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **30** *SC* **30.5.1.1.2** *P* **33** *L* **31** # 3

Lasry, Ariel — Qualcomm Technologies Inc.

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

Typo "/" used instead of "+"

SuggestedRemedy

replace "10G/100M" with "10G+100M"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **30** *SC* **30.5.1.1.2** *P* **33** *L* **33** # 4

Lasry, Ariel — Qualcomm Technologies Inc.

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

Typo "/" used instead of "+"

SuggestedRemedy

replace "10G/100M" with "10G+100M"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.7.4** *P* **35** *L* **28** # 166

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

Editing instruction appears to be in italics as header… (font is sans & too large)

SuggestedRemedy

Reformat instructions at P35 L28, P35 L50 using "Editing Instruction" type.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.7.4** *P* **35** *L* **41** # 223

Pandey, Sujan — Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

100M+2.5GMBASE-T1, ...

SuggestedRemedy

100M+2.5GBASE-T1, ...

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.7.4** *P* **35** *L* **41** # 5

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "M" in "2.5GMBASE-T1" is too much

SuggestedRemedy

replace "2.5GMBASE-T1" with "2.5GBASE-T1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.7.4** *P* **35** *L* **43** # 224

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

100M+5GMBASE-T1, ...

SuggestedRemedy

100M+5GBASE-T1, ...

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.7.4** *P* **35** *L* **43** # 6

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "M" in "5GMBASE-V1" is too much

SuggestedRemedy

replace "5GMBASE-V1" with "5GBASE-V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.7.5** *P* **36** *L* **10** # 7

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "M" in "2.5GMBASE-T1" is too much

SuggestedRemedy

replace "2.5GMBASE-T1" with "2.5GBASE-T1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.7.5** *P* **36** *L* **10** # 225

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

2.5GMBASE-T1

SuggestedRemedy

2.5GBASE-T1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.7.5** *P* **36** *L* **12** # 226

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

2.5GMBASE-T1

SuggestedRemedy

2.5GBASE-T1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.7.5** *P* **36** *L* **12** # 8

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "M" in "5GMBASE-V1" is too much

SuggestedRemedy

replace "5GMBASE-V1" with "5GBASE-V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.60f.1** *P* **37** *L* **24** # 9

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo only "PMA type" is mentionned, where this applies also to PMD. This is different than the style used in 45.2.1.32.1 to 45.2.1.33.6
Similar issue is also on lines 27, 32, 35, 40, 43, 48, 51. And on page 38 lines: 4, 7, 12, 16, 20, 23, 28, 31, 36, 39, 44, 47, 52. And on Page 39 lines: 2, 7, 10

SuggestedRemedy

replace "PMA type" with "PMA/PMD type"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.60f.2** *P* **37** *L* **29** # 10

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo in sub-section title. It cannot be both T1 and V1.

SuggestedRemedy

replace "100M+10GBASE-T1/V1" with "100M+10GBASE-V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **45** *SC* **45.2.1.214** *P* **40** *L* **7** # 11

Lasry, Ariel Qualcomm Technologies Inc.

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

Title of Table includes only BASE-T1 type, while content also include BASE-V1 type

SuggestedRemedy

Replace "T1" with "T1/V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Add editing instruction before 45.22.1.24: Change the title of the following subsection as follows:
Change the title to add "/V1" after T1 in underline

Modify the editing instruction on P40/L3 to read: Change the title of Table 45-178 as follows and replace …(the reset is the same).

Change the table title to add "/V1" after T1 in underline.

Cl **45** *SC* **45.2.1.214.2** *P* **40** *L* **39** # 12

Lasry, Ariel Qualcomm Technologies Inc.

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

Not only the first sentence need to change. Since there is one more bit added the whole description of 45.2.1.214.2 needs to be updated with more bits and include the corresponding text for the newely defined modes.

SuggestedRemedy

Add the following to line 45: "When these bits are set to 00000, the mode of operation is 100BASE-T1. When these bits are set to 00001, the mode of operation is 1000BASE-T1. When these bits are set to 00010, the mode of operation is 10BASE-T1L. When these bits are set to 00011, the mode of operation is
10BASE-T1S. When these bits are set to 00100, the mode of operation is 2.5GBASE-T1. When these bits are set to 00101, the mode of operation is 5GBASE-T1. When these bits are set to 00110, the mode of operation is
10GBASE-T1. When these bits are set to 00111, the mode of operation is 25GBASE-T1. When these bits are set to 01000, the mode of operation is 10BASE-T1M. When these bits are set to 10000, the mode of operation is 100M+2.5GBASE-T1. When these bits are set to 10001, the mode of operation is 2.5G+100MBASE-T1. When these bits are set to 10010, the mode of operation is 100M+2.5GBASE-V1. When these bits are set to 10011, the mode of operation is 2.5G+100MBASE-V1. When these bits are set to 10100, the mode of operation is 100M+5GBASE-T1. When these bits are set to 10101, the mode of operation is 5G+100MBASE-T1. When these bits are set to 10110, the mode of operation is 100M+5GBASE-V1. When these bits are set to 10111, the mode of operation is 5G+100MBASE-V1. When these bits are set to 11000, the mode of operation is 100M+10GBASE-T1. When these bits are set to 11001, the mode of operation is 10G+100MBASE-T1. When these bits are set to 11010, the mode of operation is 100M+10GBASE-V1. When these bits are set to 11011, the mode of operation is 10G+100MBASE-V1. These bits shall be ignored when the Auto-Negotiation enable bit 7.512.12 is set to one."

Proposed Response *Response Status* **W**

PROPOSED REJECT.

The list of which PHY type is selected based on the setting of the bits was removed from the 45.2.1.214.2 text by IEEE Std 802.3da-202x. Therefore, it will not longer exist when IEEE Std 802.3dm-202x is published.

Cl **46** SC **46.1** P **41** L **19** # 167

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

Inserted language could be interpreted to mean that the asymmetric phys have 'all of these rates' in one direction. Note that the same change is not needed in 46.1.3, where a diferent change is needed.

SuggestedRemedy

Change "with these rates in one direction" to "with at least one of these rates in one direction" at P41 L19, P41 L34.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

The Clause and subclause were update to reflect that this is in 46.1, not 45.1.

Cl **46** SC **46.3.2.1** P **42** L **18** # 62

Kleinwaechter, Mathias — in-tech

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

The sentence could be improved stilistically.

SuggestedRemedy

The frequency of RX_CLK may be derived from the received data or it may correspond to a nominal clock (e.g., TX_CLK).

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **46** SC **46.6.1** P **42** L **27** # 102

Wienckowski, Natalie — IVN Solutions LLC

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

delete as it is not needed

SuggestedRemedy

Delete: 46.6.1 Introduction

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **46** SC **46.6.2** P **42** L **29** # 103

Wienckowski, Natalie — IVN Solutions LLC

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

delete as it is not needed

SuggestedRemedy

Delete: 46.6.2 Identification

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200** P **44** L **5** # 14

Lasry, Ariel — Qualcomm Technologies Inc.

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

Typo "100M+2.5GMBASE-T1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+2.5GMBASE-T1" with: 100M+2.5GBASE-T1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200** P **44** L **9** # 295

Razavi, Alireza — Infineon

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

mis-spelling (extra M after G) : "5GMBASE" should be replaced by 5GBASE

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200** P **44** L **9** # 64

Kleinwaechter, Mathias — in-tech

Comment Type **ER** *Comment Status* **D** *EZ*

typo

SuggestedRemedy

100M+5GBASE-V1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** *SC* **200** *P* **44** *L* **9** # 15

Lasry, Ariel — Qualcomm Technologies Inc.

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

Typo "100M+5GMBASE-V1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+5GMBASE-V1" with "100M+5GBASE-V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** *SC* **200.1.1** *P* **44** *L* **34** # 104

Wienckowski, Natalie — IVN Solutions LLC

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

missing text

SuggestedRemedy

Change: PHY_S HS_TX to PHY_D
To: PHY_S HS_TX to PHY_D HS_RX
Make the same change in 201.1.1 and 202.1.1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Val to implement 202.1.1

Cl **200** *SC* **200.1.2** *P* **45** *L* **16** # 105

Wienckowski, Natalie — IVN Solutions LLC

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

The PHY/PMD types should be part of the Nomenclature subclause.

SuggestedRemedy

Delete: 200.1.2 PHY/PMD types
Change italicized text to: The following table depicts the characterisitics of each of the 12 PHY types,
x+y depicts the transmit and recieve speeds, where x is the transmit speed and y is the receive speed
T1 - single shielded balanced pair of conductors (SBP)
V1 - single coaxial cable (Coax)
Delete all italicized text below the table.
Make the same change in 201.1.2 and 202.1.2.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** *SC* **200.1.2** *P* **45** *L* **25** # 171

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

We don't specify the cable type, but we do specify the transmission medium. Further, "SBP" isn't a defined abbreviation, neither is Coax". It also doesn't make sense to define them - the PHY doesn't care whether the medium is constructed coaxially, with or without a shield. It cares about the fact that the medium is differential or unbalanced. these PHYs could be used on balanced or unbalanced board traces as well.

Same comment applies to Table 201-2 and 202-2.

SuggestedRemedy

Change "Cable Type" to "Medium" at P45 L26 (Table 200-2), P73 L41 (Table 201-2), and P144 L43, (Table 202-2)
In all relevant entries for Table 200-2, 201-2, and 202-2, Change "SBP" to "100 Ohm Balanced differential pair" and Change "Coax" to "Unbalanced medium"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

This is in table 200-1, 201-2, and 202-2

Change: Cable Type
To: Medium Interface

Change: SBP
To: Differential (balanced)

Change: Coax
To: Single-ended (unbalanced)

Val to update Table 202-2.

Cl **200** *SC* **200.1.2** *P* **45** *L* **40** # 16

Lasry, Ariel — Qualcomm Technologies Inc.

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

Typo "100M+5GMBASE-V1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+5GMBASE-V1" with "100M+5GBASE-V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** *SC* **200.1.2** *P* **45** *L* **47** # 170

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

The note (italicized text) after Table 200-1 is already in the draft in 200.1.1

SuggestedRemedy

Delete P45 L46 through P46 L2

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** *SC* **200.1.2** *P* **45** *L* **48** # 17

Lasry, Ariel — Qualcomm Technologies Inc.

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

Lines 48 to 54 and Line 1 of page 46 are duplicates of lines 1-12

SuggestedRemedy

remove Lines 48 to 54 and Line 1 of page 46

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** *SC* **200.1.4.1** *P* **46** *L* **14** # 172

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

It seems that some edits to the draft from the new nomenclature remain in the clean copy.

SuggestedRemedy

Delete struck-out Red text, (and "1" on P46 29), and remove underline and green color to new text on P46, 47, 51, 52, 55, 58. 60

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** *SC* **200.1.4.4** *P* **46** *L* **30** # 18

Lasry, Ariel — Qualcomm Technologies Inc.

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

Typo: "1" at the end of the line is too much

SuggestedRemedy

replace "(LS_PATH)1" with "(LS_PATH)"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** *SC* **200.1.5** *P* **46** *L* **44** # 106

Wienckowski, Natalie — IVN Solutions LLC

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

typo

SuggestedRemedy

change: high speed pathS_PATH)
To: high speed path (HS_PATH)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** *SC* **200.1.5** *P* **46** *L* **44** # 19

Lasry, Ariel — Qualcomm Technologies Inc.

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

Typo

SuggestedRemedy

replace "pathS_PATH)" with "path (HS_PATH)"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** *SC* **200.4.2.2.17** *P* **54** *L* **38** # 328

Johnson, Samuel — Infineon

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

Mapping of logic0 -> +1 and logic1 -> -1 seems non-intuitive

SuggestedRemedy

If this is used by PAM2 in other standards, then leave unchanged. Otherwide, propose
Logic0 -> -1
Logic1 -> +1

Proposed Response *Response Status* **W**

PROPOSED REJECT.

This is common with 802.3ch and other Automotive PHYs.

Cl **200** SC **200.5.1** P **55** L **50** # 20

Lasry, Ariel — Qualcomm Technologies Inc.

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

I assume "MII" is editorial typo, as the group agreed to use XGMII for both directions

SuggestedRemedy

replace "MII" with "XGMII"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.11** P **64** L **15** # 165

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

The term link segment used in clauses 200, 201, and 202 either refers to balanced pairs or to an unbalanced coax link segment. The section should say "used in this subclause", or, better yet, just delete the sentence - it adds little value.

SuggestedRemedy

Delete the sentence "The term link segment used in this clause…" from the first paragraph of 200.11, 200.12, 201.11, 201.12, 202.7, and 202.8.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Val to implement changes in 202.

Cl **200** SC **200.11.1** P **64** L **21** # 173

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

There is an extra word hanging at the front of the sentence.

SuggestedRemedy

Delete "Parameters "

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.11.1** P **64** L **21** # 227

Pandey, Sujan — Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

Parameters The transmission ...

SuggestedRemedy

The transmission ...

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.12.2** P **65** L **44** # 174

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

The notion of crosstalk is independent of the medium type, and will generally come at ganged connector interfaces even on shielded media. The titles appear to be appropriate for coax as well as differential paired media.

SuggestedRemedy

Delete note at P65 L44

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.13.2.1** P **49** L **17** # 63

Kleinwaechter, Mathias — in-tech

Comment Type **ER** *Comment Status* **D** *EZ*

The sentence has a grammatical issue. "characteristic is impedance" -> the "is" must be deleted.

SuggestedRemedy

For balanced cabling, a nominal differential characteristic impedance of 100 Ω is used, and for coaxial cabling a nominal characteristic impedance of 50 Ω is used.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17** P **52** L **3** # 65

Kleinwaechter, Mathias in-tech

Comment Type **ER** *Comment Status* **D** *EZ*

typo

SuggestedRemedy

100M+.25GBASE-V1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17** P **52** L **5** # 66

Kleinwaechter, Mathias in-tech

Comment Type **ER** *Comment Status* **D** *EZ*

typo

SuggestedRemedy

100M+5GBASE-V1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17** P **69** L **3** # 21

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "100M+2.5GMBASE-T1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+2.5GMBASE-T1" with: 100M+2.5GBASE-T1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17** P **69** L **5** # 22

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "100M+5GMBASE-V1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+5GMBASE-V1" with "100M+5GBASE-V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17.1** P **69** L **13** # 23

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "100M+2.5GMBASE-T1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+2.5GMBASE-T1" with: 100M+2.5GBASE-T1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17.1** P **69** L **15** # 24

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "100M+5GMBASE-V1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+5GMBASE-V1" with "100M+5GBASE-V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17.2.2** P **53** L **25** # 67

Kleinwaechter, Mathias in-tech

Comment Type **ER** *Comment Status* **D** *EZ*

typo

SuggestedRemedy

100M+.25GBASE-V1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17.2.2** P **53** L **28** # 68

Kleinwaechter, Mathias in-tech

Comment Type **ER** *Comment Status* **D** *EZ*

typo

SuggestedRemedy

100M+5GBASE-V1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17.2.2** P **70** L **25** # 25

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "100M+2.5GMBASE-T1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+2.5GMBASE-T1" with: 100M+2.5GBASE-T1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17.2.2** P **70** L **28** # 26

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "100M+5GMBASE-V1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+5GMBASE-V1" with "100M+5GBASE-V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17.3** P **53** L **53** # 69

Kleinwaechter, Mathias in-tech

Comment Type **ER** *Comment Status* **D** *EZ*

typo

SuggestedRemedy

100M+.25GBASE-V1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17.3** P **54** L **1** # 70

Kleinwaechter, Mathias in-tech

Comment Type **ER** *Comment Status* **D** *EZ*

typo

SuggestedRemedy

100M+5GBASE-V1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17.4** P **70** L **53** # 27

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "100M+2.5GMBASE-T1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+2.5GMBASE-T1" with: 100M+2.5GBASE-T1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **200** SC **200.17.4** P **71** L **1** # 28

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "100M+5GMBASE-V1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+5GMBASE-V1" with "100M+5GBASE-V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201** P **72** L **3** # 29

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "100M+2.5GMBASE-T1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+2.5GMBASE-T1" with: 100M+2.5GBASE-T1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201** P **72** L **6** # 30

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo "100M+5GMBASE-V1" 1 "M" too much after the "G"

SuggestedRemedy

replace "100M+5GMBASE-V1" with "100M+5GBASE-V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.1.1** P **72** L **39** # 229

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

speed, where x+y indicates the PHY transmits at “x” speed at receives at “y” speed

SuggestedRemedy

speed, where x+y indicates the PHY transmits at “x” speed and receives at “y” speed

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change "at" to "and"

Cl **201** SC **201.1.1** P **72** L **39** # 298

Razavi, Alireza Infineon

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

"at receives at y speed" should be replaced by " and recieves at y speed"; grammatical error.

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.1.1** P **72** L **42** # 299

Razavi, Alireza Infineon

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

HS_RX' is missing after 'PHY_D'

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.1.1** P **73** L **12** # 176

Zimmerman, George CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

inappropriate use of "shall" - requirement on the reader.

SuggestedRemedy

Change the second sentence of the paragraph starting on line 11 (Additionally…) to "When incorporating Clause 149 requirements which use the scaling factor "S" by reference, refer to Table 201-1 rather than Table 149-1."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.1.4** P **75** L **49** # 31

Lasry, Ariel Qualcomm Technologies Inc.

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

Typo missing "HS_TX" before "PMA TRANSMIT"

SuggestedRemedy

add "HS_TX " before "PMA TRANSMIT"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.1.4** P **75** L **49** # 177

Zimmerman, George CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

typo. "received clock signal back the PMA TRANSMIT" - same typo on NOTE 1 on Figure 201-1 and 201-2 (note - these are also clause 149 errors)

SuggestedRemedy

Change "back" to "by" in NOTE 1 on Figures 201-1 and 201-2.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.1.4** *P* **76** *L* **49** # 32

Lasry, Ariel — Qualcomm Technologies Inc.

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

Typo missing "LS_TX" before "PMA TRANSMIT"

SuggestedRemedy

add "LS_TX " before "PMA TRANSMIT"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.1.4.1** *P* **77** *L* **11** # 191

van Dyck, Peter — Infineon

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

Not a proper sentence

SuggestedRemedy

The HS_PATH contains the PCS functions as specified in 149.3,…

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change: In the HS_PATH, the PCS functions as specified in 149.3, ...

To: The HS_PATH contains the PCS functions as specified in 149.3, …

Cl **201** *SC* **201.1.4.2** *P* **77** *L* **16** # 33

Lasry, Ariel — Qualcomm Technologies Inc.

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

Missing text similar to the first paragraph of 201.1.4.1. Needed to identify the coupling to XGMII also with the other PHYs

SuggestedRemedy

Add as first paragraph of 201.1.4.2:
"For the low speed path, the LS_TX and LS_RX PCS couples a 10 Gigabit Media Independent Interface (XGMII), as specified in Clause 46, to the 100M+2.5GBASE-T1/V1, 100M+5GBASE-T1/V1, or 100M+10GBASE-T1/V1 Physical Medium Attachment (PMA) sublayer. In addition to the normal mode of operation, the PCS supports a training mode. Furthermore, the PCS contains a management interface. The LS_TX PCS is in the PHY_D and the LS_RX PCS is in the PHY_S."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.1.4.2** *P* **77** *L* **18** # 108

Wang, Frank — Realtek Semiconductor Corp.

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

grammar

SuggestedRemedy

change "TXD<31:0>, TXC<3:0>" to "TXD<31:0> and TXC<3:0>"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

corrected page number

Cl **201** *SC* **201.1.4.2** *P* **77** *L* **23** # 109

Wang, Frank — Realtek Semiconductor Corp.

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

typo

SuggestedRemedy

change "Reserved" to "reserved"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

corrected page number

Cl **201** *SC* **201.1.4.2** *P* **77** *L* **24** # 72

Maguire, Valerie — Copperopolis; aff'l w/ CME Consulting, Microchip, an

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

There are two different ways that RS-FEC encoding is referenced throughout the draft, parent document, and related published amendments. I believe the encoding should be structured as RS-FEC(x,y,z) - witth no space between 'FEC' and '('. Editor may additionally wish to consider submitting a Maintenance Request to harmonize usage across all documents.

SuggestedRemedy

Grant Editorial license to replace occurrences of RS-FEC (x,y,etc.) with RS-FEC(x,y,etc.) throughout the draft.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Do a search in the text and in the Figures, as this can be found in both.

Val to check Clause 202.

Also need to submit a Maintenance request as this is not consistent in 802.3.

Cl **201** *SC* **201.1.4.2** *P* **77** *L* **25** # 302

Razavi, Alireza — Infineon

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

word Finally should be removed

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.1.4.2** *P* **77** *L* **26** # 110

Wang, Frank — Realtek Semiconductor Corp.

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

wording

SuggestedRemedy

change "low data rate direction" to "low speed path" or "LS_PATH"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change: The low data rate direction PCS transmit functions are described in 201.2.2.2.

To: The LS_PATH contains the PCS functions as specified in 201.4.2.2.

Cl **201** *SC* **201.1.4.2** *P* **77** *L* **27** # 34

Lasry, Ariel — Qualcomm Technologies Inc.

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

wrong cross reference. Low data rate PCS transmit functions are described in 201.4.2.2

SuggestedRemedy

replace cross reference to "201.2.2.2" with a cross reference to "201.4.2.2"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.1.4.2** *P* **77** *L* **39** # 192

van Dyck, Peter — Infineon

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

Wrong reference: (see 201.3.5.2)

SuggestedRemedy

(see 201.4.5)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change: (see 201.3.5.2)

To: (see 201.4.5)

Cl **201** *SC* **201.1.4.3** *P* **77** *L* **52** # 112

Wang, Frank — Realtek Semiconductor Corp.

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

typo: check how many spaces are there between "provides" and "communications"

SuggestedRemedy

change "provides communications" to "provides communications"

Proposed Response *Response Status* **W**

PROPOSED REJECT.

There is a single space. The space is large because of the justification to both edges.

corrected page number

Cl **201** *SC* **201.1.4.3** *P* **77** *L* **48** # 111

Wang, Frank — Realtek Semiconductor Corp.

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

wording: insert "shielded" between "single" and "balanced"
If this comment is accepted, many places need to be inserted.

SuggestedRemedy

change "a single balanced pair of conductors" to "a single shielded balanced pair of conductors"

Proposed Response *Response Status* **W**

PROPOSED REJECT.

802.3ch and 802.3cy just say "a single balanced pair of conductors".

corrected page number

Cl **201** *SC* **201.1.4.3** *P* **77** *L* **52** # 113

Wang, Frank — Realtek Semiconductor Corp.

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

typo

SuggestedRemedy

change "x" to "×"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change the letter "x" to the multiplication sign.

corrected page number

Cl **201** *SC* **201.1.4.3** *P* **78** *L* **3** # 114

Wang, Frank — Realtek Semiconductor Corp.

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

wording:
When talking about all PHYs, regardless of transmit speed or cable type, use:
MultiG+100M/100M+MultiGBASE-T1/V1

SuggestedRemedy

change "PHY" to "MultiG+100M/100M+MultiGBASE-T1/V1"

Proposed Response *Response Status* **W**

PROPOSED REJECT.

The use of "PHY" here is consistent with other 802.3 clauses.

corrected page number

Cl **201** *SC* **201.1.6** *P* **79** *L* **26** # 351

Jonsson, Ragnar — Infineon

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

Missing figre

SuggestedRemedy

Add figure referenced in this line

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Delete the reference to the figure per comment #268.

Cl **201** *SC* **201.1.6** *P* **79** *L* **26** # 278

Razavi, Alireza — Infineon

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

remove this pharase '(See Figure <REF>)'

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.1.6** *P* **79** *L* **26** # 268

Lo, William — Axonne Inc

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

No need to have a figure and it is going to be difficult and not instructive even with a drawing showing the RS-Frame encoded as DME. The stream of DME symbols will be self evident with a combination of 201.4.2.2.16, Figure 201-16, and the output of the data path in Figure 201-11

SuggestedRemedy

Remove (See Figure <REF>)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.1** *P* **84** *L* **43** # 107

Wienckowski, Natalie — IVN Solutions LLC

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

SuggestedRemedy

Adjust tab settings so "FOLLOWER" doesn't run in to "This".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.1** *P* **84** *L* **43** # 281

Razavi, Alireza — Infineon

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

Missing space in 'FOLLOWERThis value'.

SuggestedRemedy

Insert a space: 'FOLLOWER This value'.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Correct per comment #107

Cl **201** *SC* **201.2.2.2** *P* **84** *L* **29** # 296

Razavi, Alireza — Infineon

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

both " LEADER-FOLLOWER" and "LEADER/FOLLOWER" pharases are used.

SuggestedRemedy

for consistency, only one of them should be used

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Use LEADER-FOLLOWER as this is the predominate usage in 802.3, as MASTER-SLAVE.

Change throughout the draft.

Val to check clause 202.

Cl **201** *SC* **201.2.2.2.1** *P* **84** *L* **43** # 230

Pandey, Sujan — Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

FOLLOWERThis …

SuggestedRemedy

FOLLOWER This

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Correct per comment #107

Cl **201** *SC* **201.2.2.2.1** *P* **84** *L* **43** # 38

Lasry, Ariel — Qualcomm Technologies Inc.

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

space missing between "FOLLOWER" and "This"

SuggestedRemedy

Insert between "FOLLOWER" and "This"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Correct per comment #107

Cl **201** *SC* **201.2.2.3** *P* **85** *L* **5** # 119

Wang, Frank — Realtek Semiconductor Corp.

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

typo

SuggestedRemedy

change "in201.4.2.2" to "in 201.4.2.2"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.
corrected page number

Cl **201** *SC* **201.2.2.3** *P* **85** *L* **5** # 282

Razavi, Alireza — Infineon

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

Missing space in reference 'in201.4.2.2'.

SuggestedRemedy

Insert a space: 'in 201.4.2.2'.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.3** *P* **85** *L* **5** # 199

van Dyck, Peter — Infineon

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

"in201.4.2.2" space missing

SuggestedRemedy

Replace with "in 201.4.2.2"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.3** *P* **85** *L* **5** # 231

Pandey, Sujan — Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

for the HS_TX and in201.4.2.2 for ...

SuggestedRemedy

for the HS_TX and in 201.4.2.2 for ...

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.3** *P* **85** *L* **5** # 78

Wienckowski, Natalie — IVN Solutions LLC

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

missing space

SuggestedRemedy

Add space between "in" and "201.4.2.2".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.3.1** *P* **85** *L* **16** # 120

Wang, Frank — Realtek Semiconductor Corp.

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

{–1, –1/3, +1/3, +1} is only for the normal operation of 10G mode.

SuggestedRemedy

change "{–1, –1/3, +1/3, +1} in normal operation." to the following:
{–1, –1/3, +1/3, +1} in normal operation for 10G mode.
{-1, +1} in normal operation for 2.5G mode and 5G mode.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

corrected page number

Cl **201** *SC* **201.2.2.3.1** *P* **85** *L* **17** # 39

Lasry, Ariel — Qualcomm Technologies Inc.

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

values -1/3 and +1/3 may only be used by 10G+100MBASE-T1/V1 PHY

SuggestedRemedy

add after "operation": "for 10G+100MBASE-T1/V1 PHY"
Ad a new line with:
"{-1, +1} in normal operation for 2.5G+100MBASE-T1/V1 and 5G+100MBASE-T1/V1 PHYs."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.3.1** *P* **85** *L* **18** # 378

Wang, Frank — Realtek Semiconductor Corp.

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

wording: since there is only one case, I suggest to remove "when zeros are to be transmitted in the following case:"

SuggestedRemedy

change:
0 when zeros are to be transmitted in the following case:
when PMA_TXMODE.indication is SEND_Z during PMA training.

to:
0 when PMA_TXMODE.indication is SEND_Z during PMA training.

Proposed Response *Response Status* **W**

PROPOSED REJECT.

This is the standard structure in 802.3.

Cl **201** *SC* **201.2.2.3.1** *P* **85** *L* **23** # 357

Jonsson, Ragnar — Infineon

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

Not the same clarity for DME signal as PAM2 signal in line 17

SuggestedRemedy

Clarify the meaning of DME, by adding a reference to Clause 201.4.2.2.16

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

After "DME" add (see 201.4.2.2.16)

Cl **201** *SC* **201.2.2.3.1** *P* **85** *L* **24** # 121

Wang, Frank — Realtek Semiconductor Corp.

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

wording: since there is only one case, I suggest to remove "when zeros are to be transmitted in the following case:"

SuggestedRemedy

change:
0 when zeros are to be transmitted in the following case:
when PMA_TXMODE.indication is SEND_Z during PMA training.

to:
0 when PMA_TXMODE.indication is SEND_Z during PMA training.

Proposed Response *Response Status* **W**

PROPOSED REJECT.

This is the standard structure in 802.3.

corrected page number and line number

Cl **201** *SC* **201.2.2.4.1** *P* **85** *L* **45** # 122

Wang, Frank — Realtek Semiconductor Corp.

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

grammar: comma afrer "During reception"

SuggestedRemedy

change "reception" to "reception,"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

corrected page number and line number

Cl **201** *SC* **201.2.2.4.2** *P* **85** *L* **50** # 40

Lasry, Ariel — Qualcomm Technologies Inc.

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

It is not only the low speed path PMA that generates PMA_UNITDATA.indication(rx_symb) messages. Also the high speed path.

SuggestedRemedy

delete "low speed path"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.4.2** *P* **85** *L* **52** # 43

Lasry, Ariel — Qualcomm Technologies Inc.

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

ambiguious use of 10G. Other Clauses use the PHY name

SuggestedRemedy

replace "10G" with "100M+10GBASE-T1/V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.4.2** *P* **85** *L* **52** # 250

McCarthy, Frank — Infineon

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

semicolon should be a comma

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.4.2** *P* **85** *L* **52** # 42

Lasry, Ariel — Qualcomm Technologies Inc.

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

ambiguious use of 5G. Other Clauses use the PHY name

SuggestedRemedy

replace "5G" with "100M+5GBASE-T1/V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.4.2** *P* **85** *L* **52** # 41

Lasry, Ariel — Qualcomm Technologies Inc.

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

ambiguious use of 2.5G. Other Clauses use the PHY name

SuggestedRemedy

replace "2.5G" with "100M+2.5GBASE-T1/V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.2.4.2** *P* **85** *L* **53** # 251

McCarthy, Frank — Infineon

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

semicolon should be a comma

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.2.4** *P* **96** *L* # 201

van Dyck, Peter — Infineon

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

Leftmost vertical line is out of place.

SuggestedRemedy

Align leftmost vertical line arrow top and bottom to touch dotted lines at XGMII and PHY D PMA SERVICE INTERFACE. Align label "PCS" to not overlap line and be centered

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2** *P* **89** *L* **20** # 252

McCarthy, Frank — Infineon

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

line should not go through pma_data_mode

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2** *P* **89** *L* **20** # 73

Zhu, — Infineon

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

pcs_data_mode text is blocked

SuggestedRemedy

adjust text postion

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2** *P* **89** *L* **29** # 46

Lasry, Ariel — Qualcomm Technologies Inc.

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

Figure 201-5 "pcs_data_mode" text is over the arrow

SuggestedRemedy

move the text to the right of the arrow

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2** *P* **92** *L* **42** # 257

McCarthy, Frank — Infineon

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

The 1:18 refers to the ratio of the transfer rates and only if rate adaptation is not needed.

SuggestedRemedy

For the 10G HS_PATH, it takes 1800 PMA_UNITDATA transfers to send an RS-FEC frame of data. For the 10G HS_PATH, if the ratio of the XGMII to PMA transfer rates is exactly 1:18, then the transmit process does not need to perform rate adaptation.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2** *P* **92** *L* **45** # 258

McCarthy, Frank — Infineon

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

The 1:36 refers to the ratio of the transfer rates and only if rate adaptation is not needed.

SuggestedRemedy

For 2.5G and 5G HS_PATH, it takes 3600 PMA_UNITDATA transfers to send an RS-FEC frame of data. For 2.5G and 5G HS_PATH, if the PCS is connected to an XGMII and PMA sublayer where the ratio of their transfer rates is exactly 1:36, then the transmit process does not need to perform rate adaptation.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **89** *L* **20** # 362

Jonsson, Ragnar — Infineon

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

"pcs_data_mode" is overlapping the line

SuggestedRemedy

See comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **90** *L* **7** # 259

McCarthy, Frank — Infineon

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

In fig 201-6, the S_n are from the training frame, and the A_n are from the 2.5G/5G data stream D_n[0]. There should be a note explaining this in the figure.

SuggestedRemedy

The S_n are from the training fram, and the A_n are from the 2.5G and 5G HS_PATH when the PAM2 mapper is used.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **91** *L* **1** # 79

Wienckowski, Natalie — IVN Solutions LLC

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

extra period

SuggestedRemedy

Remove duplicate period at end of sentence.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.3.2.2** P **91** L **1** # 47

Lasry, Ariel — Qualcomm Technologies Inc.

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

typo: dot at end of line

SuggestedRemedy

remove " ." at end of line

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.3.2.2** P **91** L **1** # 284

Razavi, Alireza — Infineon

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

Extra punctuation in figure reference 'Figure 149-6. .'.

SuggestedRemedy

Remove the extra period.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.3.2.2** P **91** L **15** # 253

McCarthy, Frank — Infineon

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

"ad" should be "and" in block name

SuggestedRemedy

Interleave and RS-FEC(360,326) encoder

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.3.2.2** P **91** L **15** # 232

Pandey, Sujan — Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

Interleaver ad RS-FEC (360,326) encoder

SuggestedRemedy

Interleaver and RS-FEC (360,326) encoder

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.3.2.2** P **91** L **15** # 363

Jonsson, Ragnar — Infineon

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

Typo: "ad" instead of "and"

SuggestedRemedy

See comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.3.2.2** P **91** L **21** # 49

Lasry, Ariel — Qualcomm Technologies Inc.

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

Figure 201-7 uses "10G Path" but Figure 201-6 uses "PAM4 data path".

SuggestedRemedy

replace "10G Path" with "PAM4 path"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.3.2.2** P **91** L **23** # 50

Lasry, Ariel — Qualcomm Technologies Inc.

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

Figure 201-7 uses "2.5G, 5G Path" but Figure 201-6 uses "PAM2 training/data path".

SuggestedRemedy

replace "2.5G, 5G Path" with "PAM2 path"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **91** *L* **32** # 51

Lasry, Ariel — Qualcomm Technologies Inc.

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

Figure 201-7 NOTE 3 for consistency with above comments 2.5G, 5G and 10G should be replaced

SuggestedRemedy

Replace: "For 2.5G and 5G" with "For PAM2 path".
Replace "10G" with "PAM4 path"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **1** # 52

Lasry, Ariel — Qualcomm Technologies Inc.

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

typo: dot at end of line

SuggestedRemedy

remove " ." at end of line

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **1** # 285

Razavi, Alireza — Infineon

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

reference to 'Figure 149-7" should be remove .

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED REJECT.

If this comment were to be implemented, many other changes would need to be made for similar references to 149.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **1** # 80

Wienckowski, Natalie — IVN Solutions LLC

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

extra period

SuggestedRemedy

Remove duplicate period at end of sentence.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **19** # 53

Lasry, Ariel — Qualcomm Technologies Inc.

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

Figure 201-8 uses "10G Path" not consistent with "PAM4 data path".

SuggestedRemedy

replace "10G Path" with "PAM4 path"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **21** # 54

Lasry, Ariel — Qualcomm Technologies Inc.

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

Figure 201-8 uses "2.5G, 5G Path" not consistent with "PAM2 training/data path".

SuggestedRemedy

replace "2.5G, 5G Path" with "PAM2 path"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **32** # 256

McCarthy, Frank Infineon

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

Note 1 is confusing.

SuggestedRemedy

At the top of this figure, the mapping of a 64B/65B block into eight data characters, D0 to D7, for the XGMII is shown.

Proposed Response *Response Status* **W**

PROPOSED REJECT.

This is common with 802.3ch and other Automotive PHYs.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **35** # 55

Lasry, Ariel Qualcomm Technologies Inc.

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

Figure 201-8 NOTE 3 for consistency with above comments 2.5G, 5G and 10G should be replaced

SuggestedRemedy

Replace: "For 2.5G and 5G" with "For PAM2 path".
Replace "10G" with "PAM4 path"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **36** # 56

Lasry, Ariel Qualcomm Technologies Inc.

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

The Figure is for HS_RX not HS_PATH. HS_PATH would also include the HS_TX which is not there.

SuggestedRemedy

replace "HS_PATH" with "HS_RX"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **41** # 57

Lasry, Ariel Qualcomm Technologies Inc.

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

"10G HS_PATH".
Terminology: "10G" is not defined.
The 1800 PMA_UNITDATA transfers are only for the HS_TX. Not for the HS_PATH which consists of both the HS_TX and HS_RX

SuggestedRemedy

replace "10G HS_PATH" with "PAM4 path HS_TX (10Gb/s)"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **44** # 58

Lasry, Ariel Qualcomm Technologies Inc.

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

"2.5G and 5G HS_PATH".
Terminology: "2.5G" and "5G" are not defined.
The 3600 PMA_UNITDATA transfers are only for the HS_TX. Not for the HS_PATH which consists of both the HS_TX and HS_RX

SuggestedRemedy

replace "2.5G and 5G HS_PATH" with "PAM2 path HS_TX (2.5Gb/s and 5Gb/s)"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **47** # 59

Lasry, Ariel Qualcomm Technologies Inc.

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

"10G HS_PATH" in consistentcy to previous comments this needs to be updated

SuggestedRemedy

replace "10G HS_PATH" with "PAM4 path HS_TX (10Gb/s)"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **48** # 260

McCarthy, Frank Infineon

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

There should be commas around respectively.

SuggestedRemedy

and 149.3.2.2.21, respectively, with the

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **51** # 60

Lasry, Ariel Qualcomm Technologies Inc.

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

"2.5G and 5G HS_PATH" in consistentcy to previous comments this needs to be updated

SuggestedRemedy

replace "2.5G and 5G HS_PATH" with "PAM2 path HS_TX (2.5Gb/s and 5Gb/s)"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **52** # 261

McCarthy, Frank Infineon

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

comma should be after D_n

SuggestedRemedy

presented as D_n, where

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **53** # 262

McCarthy, Frank Infineon

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

"is scrambled" should be "and are scrambled"

SuggestedRemedy

The bits of the interleaved RS-FEC superframe are presented as Dn, where n is an index indicating the symbol number, and are scrambled using an additive scrambler.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **92** *L* **53** # 74

Zhu, Infineon

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

... are presented as, Dn where' -- comma may be mis-postioned

SuggestedRemedy

change to '... are presented as Dn, where'

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **93** *L* **1** # 263

McCarthy, Frank Infineon

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

Replace "The DSn is applied as additive scrambler sequence to incoming data bits Dn to generate a single scrambled data An as shown in Equation (201–1)." with the proposed change, which includes defining D_n for the 2.5G and 5G HS_PATH.

SuggestedRemedy

All incoming 2.5G and 5G HS_PATH data bits are D_n, and D_n is represented in Figure 201-6 as D_n[0]. The DS_n are applied as an additive scrambler sequence to each incoming data bit, D_n, to generate a single scrambled data bit, A_n, as shown in Equation (201–1).

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **93** *L* **8** # 61

Lasry, Ariel Qualcomm Technologies Inc.

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

"2.5G and 5G HS_PATH" in consistentcy to previous comments this needs to be updated

SuggestedRemedy

replace "2.5G and 5G HS_PATH" with "PAM2 path HS_TX (2.5Gb/s and 5Gb/s)"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.2** *P* **93** *L* **9** # 180

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

Just to say "encode … as specified." doesn't write the requirement. The requirement is actually written below on line 18 - this line isn't needed - 18 just needs to be written as a requirement. Additionally, lines 6 through 17 are unnecessary.

SuggestedRemedy

Change P93 L18 to read "For the 2.5G and 5G HS_PATH, each consecutive output symbol, An shall be mapped to a PAM2 encoded symbol M(n) as follows:"
Delete lines 6 through 16.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Make consistent with working change in comment #61.

Delete lines 6 through 16.

Change P93 L18 to read "For the PAM2 path HS_TX, each consecutive output symbol, An shall be mapped to a PAM2 encoded symbol M(n) as follows:"

Cl **201** *SC* **201.3.2.2** *P* **93** *L* **19** # 329

Johnson, Samuel — Infineon

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

Mapping of logic0 -> +1 and logic1 -> -1 seems non-intuitive

SuggestedRemedy

If this is used by PAM2 in other standards, then leave unchanged. Otherwide, propose
Logic0 -> -1
Logic1 -> +1

Proposed Response *Response Status* **W**

PROPOSED REJECT.

This is common with 802.3ch and other Automotive PHYs.

corrected page number and line number

Cl **201** *SC* **201.3.2.3** *P* **93** *L* **24** # 264

McCarthy, Frank — Infineon

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

"including, compliance" should be "includes compliance"

SuggestedRemedy

The PCS receive function for HS_PATH shall conform to the PCS 64B/65B receive state diagram in Figure 149-18, and the PCS Receive bit ordering in Figure 201–8 includes compliance with the associated state variables specified in 201.3.6.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Implemented by solution to comment #181.

Cl **201** *SC* **201.3.2.3** *P* **93** *L* **26** # 181

Zimmerman, George — CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

There are no state variables specified in 201.3.6. Only "S" is mentioned there, and S is already taken care of earlier for referneces.

SuggestedRemedy

Delete "including, compliance with the associated state variables specified in 201.3.6"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.3.2.3** *P* **93** *L* **30** # 81

Wienckowski, Natalie — IVN Solutions LLC

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

grammer

SuggestedRemedy

Change "descrambling performed" to "descrambling is performed".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Implemented by solution to comment #265.

Cl **201** SC **201.3.2.3** P **93** L **30** # 233

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

The received symbols are demaped and descrambling performed

SuggestedRemedy

The received symbols are demaped and descrambled

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Implemented by solution to comment #265.

Cl **201** SC **201.3.2.3** P **93** L **30** # 265

McCarthy, Frank Infineon

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

"are demapped and descrambling performed." should be ""are demapped, and descrambling is performed."

SuggestedRemedy

The received symbols are demapped, and descrambling is performed.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.3.2.3** P **93** L **41** # 234

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

… PCS Receive checks the received PAM2 framing and signals the reliable ...

SuggestedRemedy

… PCS Receive checks the received PAM2 framing and signals for the reliable ...

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.3.2.3.1** P **94** L **10** # 184

Zimmerman, George CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

Missing shall. There is one for the formation of the PAM2 stream, but not for the PAM4 stream. Additionally, while its nice to reference clause 149, 149.3.2.3.1 is sufficiently short you might as well put it here - AND - it is parallel to the new text needed for 2.5Gb/s and 5Gb/s

SuggestedRemedy

change "forms a PAM4 stream" to "shall form a PAM4 stream".
Consider simply replacing the first paragraph on 201.3.2.3.1 with the text of 149.3.2.3.1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.4.2.2** P **96** L **42** # 124

Wang, Frank Realtek Semiconductor Corp.

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

wording

SuggestedRemedy

change "MultiGBASE-T1" to "100M+MultiGBASE-T1/V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

corrected page number

Cl **201** SC **201.4.2.2** P **96** L **43** # 82

Wienckowski, Natalie IVN Solutions LLC

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

copy paste error from Clause 149

SuggestedRemedy

Change: MultiGBASE-T1 PCS
To: 100M+MultiGBASE-T1/V1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.4.2.2** *P* **96** *L* **51** # 125

Wang, Frank — Realtek Semiconductor Corp.

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

wording

SuggestedRemedy

change: "take four 65B blocks and append a 10-bit OAM field followed by 6 reserved bits set to all 1s to each group."
to: "take 1 group of 4 65B blocks and append a 10-bit OAM field followed by 6 reserved bits set to all 1s to it."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.4.2.2** *P* **97** *L* **2** # 126

Wang, Frank — Realtek Semiconductor Corp.

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

wording

SuggestedRemedy

change "T" to "T"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE. corrected page number
"T" should be in italics.

Cl **201** *SC* **201.4.2.2** *P* **97** *L* **12** # 216

van Dyck, Peter — Infineon

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

"defined in 201.3.5.1" This section defines how Tn is derived for Sn in HS_PATH, Sn and Tn are not defined in the draft for LS_PATH, which has a different training frame than the HS_PATH.

SuggestedRemedy

Change to "defined in 201.4.5.1"
For definition of Sn for LS_PATH and Clause 201.4.5.1 see comment for Clause 201.4.5

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change: 201.3.5.1

To: 201.4.5.1

Comment #217 implements the rest of the request.

Cl **201** *SC* **201.4.2.2** *P* **97** *L* **12** # 202

van Dyck, Peter — Infineon

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

"(Tn)" the n should be subscript and this should be italic.

SuggestedRemedy

See comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.4.2.2** *P* **97** *L* **12** # 127

Wang, Frank — Realtek Semiconductor Corp.

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

wording

SuggestedRemedy

change "Tn" to "Tn"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE. corrected page number
"Tn" should be in italics.

Cl **201** *SC* **201.4.2.2.2** *P* **98** *L* **35** # 75

Zhu, — Infineon

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

the bit ordering in the figure looks like Bit299 is sent first

SuggestedRemedy

Bit ordering in Figure shall be reversed from Bit0…Bit299 to Bit299…Bit0 to reflect that Bit0 is transmitted first

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.4.2.2.15** *P* **103** *L* **3** # 271

Lo, William — Axonne Inc

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

There is no interleaving or superframes in the LS_PATH

SuggestedRemedy

Change: interleaved RS-FEC superframe
To: RS-FEC frame

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.4.2.2.15** *P* **103** *L* **3** # 128

Wang, Frank — Realtek Semiconductor Corp.

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

wording: since there is no interleaver in LS_TX, "interleaved" should be removed

SuggestedRemedy

change "the interleaved RS-FEC" to "the RS-FEC"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.4.2.3.1** *P* **104** *L* **46** # 203

van Dyck, Peter — Infineon

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

"block lock" underscore missing

SuggestedRemedy

Replace with "block_lock"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Make the same correction on P94/L15

Cl **201** *SC* **201.4.3** *P* **105** *L* **18** # 129

Wang, Frank — Realtek Semiconductor Corp.

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

grammar: comma afrer "mode"

SuggestedRemedy

change "mode" to "mode,"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.
corrected page number

Cl **201** *SC* **201.4.3** *P* **105** *L* **19** # 130

Wang, Frank — Realtek Semiconductor Corp.

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

The initial condition of the scrambler is missed.

SuggestedRemedy

change: "by setting the data input to the scrambler to zero"
to: "by setting zero input and any non-zero initial condition to the scrambler"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.
corrected page number

Cl **201** *SC* **201.4.5** *P* **105** *L* **5** # 286

Razavi, Alireza — Infineon

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

enumaration is not correct and all of them are a)

SuggestedRemedy

enumaration should be updated

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.4.5** *P* **105** *L* **34** # 287

Razavi, Alireza Infineon

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

64/65 blocks

SuggestedRemedy

64/65 blocks" replaced by "64B/65B blocks"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.4.5** *P* **106** *L* **3** # 272

Lo, William Axonne Inc

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

Add the following sentence for clarity.

SuggestedRemedy

After the training frame is assembled, it is scrambled and DME encoded as described in 201.4.2.2.15 and 201.4.2.2.16 respectively.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.6.2.2** *P* **108** *L* **4** # 369

Jonsson, Ragnar Infineon

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

Clarify that Coax is also single "pair"

SuggestedRemedy

Add the word "signle" in front of "Coax cable"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.6.2.3** *P* **108** *L* **34** # 133

Wang, Frank Realtek Semiconductor Corp.

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

wording: remove "low speed direction"

SuggestedRemedy

change "The low speed direction PMA Receiver" to "The PMA Receiver"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE. corrected page number

change "The low speed direction PMA Receive"
to "The PMA Receive"

Cl **201** *SC* **201.6.2.3** *P* **108** *L* **27** # 131

Wang, Frank Realtek Semiconductor Corp.

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

wording: remove "low speed"

SuggestedRemedy

change "The low speed PMA Receiver" to "The PMA Receiver"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.
corrected page number

Cl **201** *SC* **201.6.2.3** *P* **108** *L* **27** # 379

Wang, Frank Realtek Semiconductor Corp.

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

wording: add "The" before "PMA Receive contains"

SuggestedRemedy

change "PMA Receive contains" to "The PMA Receive contains"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.6.2.3** *P* **108** *L* **28** # 132

Wang, Frank — Realtek Semiconductor Corp.

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

There is no such comma in 149.4.2.3.

SuggestedRemedy

change "MDI," to "MDI"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.
corrected page number

Cl **201** *SC* **201.6.2.3** *P* **108** *L* **31** # 371

Jonsson, Ragnar — Infineon

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

RFER is missing 10^{-10} after 2x

SuggestedRemedy

See comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change 2x to 2 x 10^-10

Cl **201** *SC* **201.6.2.3** *P* **108** *L* **35** # 235

Pandey, Sujan — Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

loc_rcvr_status varialbe accordingly

SuggestedRemedy

loc_rcvr_status varialbe accordingly.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Add missing period.

Cl **201** *SC* **201.6.2.3** *P* **108** *L* **35** # 83

Wienckowski, Natalie — IVN Solutions LLC

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

missing period

SuggestedRemedy

Add a period after accordingly.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.6.2.3** *P* **108** *L* **35** # 134

Wang, Frank — Realtek Semiconductor Corp.

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

period is missed

SuggestedRemedy

change "accordingly" to "accordingly."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.
corrected page number

Cl **201** *SC* **201.7** *P* **109** *L* **3** # 373

Jonsson, Ragnar — Infineon

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

Use HS and LS instead of "fast" and "slow"

SuggestedRemedy

See comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change: fast and slow directions

To: HS_PATH and LS_PATH

Cl **201** SC **201.7.1** P **109** L **16** # 205

van Dyck, Peter Infineon

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

LS_PATH uses DME during training, not PAM2

SuggestedRemedy

Modify text with: "In the TRAINING state, PAM 2 transmission is used for HS_PATH, DME transmission is used for LS_PATH and …."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change: In the TRAINING state, PAM 2 transmission is used and PHY capabilities are exchanged with Infofields as specified in 149.4.2.4.5.

To: In the TRAINING state, PHY capabilities are exchanged with Infofields as specified in 149.4.2.4.5. PAM 2 transmission is used for HS_PATH and DME is used for LS_PATH.

Cl **201** SC **201.7.1** P **109** L **16** # 136

Wang, Frank Realtek Semiconductor Corp.

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

In the training state, HS_PATH and LS_PATH use different modulation.

SuggestedRemedy

change "PAM 2 transmission is used" to " PAM2 transmission is used for HS_PATH and DME transmission is used for LS_PATH,"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

See solution in comment #205.

Cl **201** SC **201.7.2.1.3** P **111** L **6** # 210

Abedinzadeh, Bizhan Infineon

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

Figure 201-17 remove MASTER/en_slave_tx

SuggestedRemedy

The terms should be changed to LEADER/en_follower_tx

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.7.2.1.3** P **111** L **22** # 76

Zhu, Infineon

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

to unify the names of roles

SuggestedRemedy

change to Leader and Follower

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.7.2.1.3** P **111** L **23** # 290

Razavi, Alireza Infineon

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

en_slave_tx should be replaced by en_follower_tx

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.7.3** P **112** L **44** # 291

Razavi, Alireza Infineon

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

misspelling SENDS_S should eb replaced by SEND_S

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.7.3.1** P **114** L **4** # 84

Wienckowski, Natalie IVN Solutions LLC

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

missing space

SuggestedRemedy

Add a non-breaking space between 3.1 and us. Also change "u" to the symbol for micro.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.8** P **116** L **35** # 137

Wang, Frank — Realtek Semiconductor Corp.

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

typo

SuggestedRemedy

change "forthe high speed path" to "for the HS_PATH"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT. corrected page number

Cl **201** SC **201.8** P **116** L **35** # 206

van Dyck, Peter — Infineon

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

"forthe" space missing

SuggestedRemedy

Replace with "for the"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.8** P **116** L **36** # 334

Jonsson, Ragnar — Infineon

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

missing space between 'for' and 'the'

SuggestedRemedy

for the high speed path

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.8.1** P **117** L **26** # 243

Sakunia, Saket — Infineon Technologies

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

External text reference 94.2.9.1, should be in green

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.8.1** P **117** L **26** # 85

Wienckowski, Natalie — IVN Solutions LLC

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

SuggestedRemedy

change character type of 94.2.9.1 to "External"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.8.1** P **117** L **27** # 244

Sakunia, Saket — Infineon Technologies

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

External text reference 94.2.9.1, should be in green

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.8.1** P **117** L **27** # 86

Wienckowski, Natalie — IVN Solutions LLC

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

SuggestedRemedy

change character type of 94.2.9.2 to "External"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.8.1** P **117** L **38** # 87

Wienckowski, Natalie — IVN Solutions LLC

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

SuggestedRemedy

change character type of 94.3.10.8 to "External"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.8.1** P **117** L **50** # 138

Wang, Frank
Realtek Semiconductor Corp.

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

wording

SuggestedRemedy

change "2.5GBASE-T1, 5GBASE-T1, or 10GBASE-T1" to "multiG+100M/100M+MultiGBASE-T1/V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.
corrected page number

Cl **201** SC **201.8.2.2** P **121** L **4** # 88

Wienckowski, Natalie
IVN Solutions LLC

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

SuggestedRemedy

change character type of 120D.3.1.2 to "External"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.8.2.4** P **123** L **16** # 236

Pandey, Sujan
Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

all "HZ"

SuggestedRemedy

Hz

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Scan the document and replace all instances of "HZ" with "Hz".

Val to update Clause 202.

Cl **201** SC **201.8.3.2** P **126** L **1** # 292

Razavi, Alireza
Infineon

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

camma is missing after specification "specification the frame loss ratio is less than"

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.9.1** P **127** L **51** # 89

Wienckowski, Natalie
IVN Solutions LLC

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

SuggestedRemedy

change character type of 94.2.9.1 to "External"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.9.1** P **127** L **51** # 245

Sakunia, Saket
Infineon Technologies

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

External text reference 94.2.9.1, should be in green

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.9.1** P **127** L **52** # 246

Sakunia, Saket
Infineon Technologies

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

External text reference 94.2.9.1, should be in green

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.9.1** *P* **127** *L* **52** # 90

Wienckowski, Natalie IVN Solutions LLC

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

SuggestedRemedy

change character type of 94.2.9.2 to "External"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.9.1** *P* **128** *L* **2** # 91

Wienckowski, Natalie IVN Solutions LLC

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

SuggestedRemedy

change character type of 94.3.10.8 to "External"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.9.2.2** *P* **128** *L* **48** # 92

Wienckowski, Natalie IVN Solutions LLC

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

SuggestedRemedy

change character type of 85.8.3.3.4 to "External"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.9.2.5** *P* **130** *L* **1** # 237

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

dBM/Hz

SuggestedRemedy

dBm/Hz

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace all instances of "dBM" with "dBm".

Val to check clause 202.

Cl **201** *SC* **201.9.2.5** *P* **131** *L* **1** # 293

Razavi, Alireza Infineon

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

in lines 2 and 3, wrong notation: dBM/Hz should be replaced with 'dBm/Hz'

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** *SC* **201.9.2.5** *P* **131** *L* **2** # 238

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

dBM/Hz

SuggestedRemedy

dBm/Hz

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

See response to comment #237.

Cl **201** SC **201.9.2.6** P **132** L **36** # 239

Pandey, Sujan Velinktech

Comment Type **ER** *Comment Status* **D** *EZ*

… the transmit signalof ...

SuggestedRemedy

… the transmit signal of ...

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.9.2.6** P **132** L **36** # 93

Wienckowski, Natalie IVN Solutions LLC

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

missing space

SuggestedRemedy

Add a space between "signal" and "of".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.9.2.6** P **132** L **36** # 294

Razavi, Alireza Infineon

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

complex sentense and spelling error "the transmit signalof a 100M+MultiGBASE-V1 transmitter shall be" can be replaced by "the transmit signal shall be"

SuggestedRemedy

see comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.11.1.3** P **135** L **31** # 249

Sakunia, Saket Infineon Technologies

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

Return loss instead of "IReturn Loss"

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.13.2.1** P **138** L **17** # 162

Zimmerman, George CME Consulting/ADI,APL Gp, Cisco, Infineon, OnSe

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

Editor's note is not needed as Fmax is already scaled here.

SuggestedRemedy

Delete editor's note.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **201** SC **201.16** P **139** L # 275

Lo, William Axonne Inc

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

Add table 201-BBB

SuggestedRemedy

Proposed Response *Response Status* **Z**

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl **201** SC **Table 201-11** P **125** L **15** # 339

Jonsson, Ragnar Infineon

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

SuggestedRemedy

Proposed Response *Response Status* **Z**

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl **202** *SC* **202.1.7** *P* **149** *L* **26** # 94

Wienckowski, Natalie IVN Solutions LLC

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

delete 202.1.7 as the title is just "L" and there is no content.

SuggestedRemedy

Delete: 202.1.7 L

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **202** *SC* **202.1.7** *P* **149** *L* **26** # 71

Maguire, Valerie Copperopolis; aff'l w/ CME Consulting, Microchip, an

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

This header and text should have been deleted when the order of the LS_PATH signaling and HS_PATH signaling clauses were swapped.

SuggestedRemedy

Delete "202.1.7 L" and re-number subsequent clauses.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Accommodated by comment #94.

Cl **202** *SC* **202.1.8** *P* **140** *L* **32** # 95

Wienckowski, Natalie IVN Solutions LLC

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

duplicated sentence

SuggestedRemedy

Delete one instance of "All MultiG+100M/100M+MultiGBASE-T1 PHY implementations are compatible at the MDI.".

Proposed Response *Response Status* **W**

PROPOSED REJECT.

PROPOSED REJECT

(Editor's note: Comment applies to text on P149, L32.)

One sentence applies to -T1 and the other applies to -V1. These are not duplicate sentences and the current wording is intentional since -T1 and -V1 PHYs are not compatible with each other at the MDI.

Cl **202** *SC* **202.1.8** *P* **149** *L* **30** # 141

Wang, Frank Realtek Semiconductor Corp.

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

align with 149.1.5

SuggestedRemedy

change "at the XGMII" to "at the MDI and at the XGMII"
remove "All MultiG+100M/100M+MultiGBASE-T1 PHY implementations are compatible at the MDI. All MultiG+100M/100M+MultiGBASE-V1 PHY implementations are compatible at the MDI."

Proposed Response *Response Status* **W**

PROPOSED REJECT.

(Editor's note: Corrected page number in comment record.)

One sentence applies to -T1 and the other applies to -V1. These are not duplicate sentences and the current wording is intentional since -T1 and -V1 PHYs are not compatible with each other at the MDI.

Cl **202** *SC* **202.2.1.4.2** *P* **154** *L* **2** # 142

Wang, Frank Realtek Semiconductor Corp.

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

align with 149.2.2.4.2: insert ";"

SuggestedRemedy

change "100M+10GBASE-T1/V1 as" to "100M+10GBASE-T1/V1; as"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Corrected page number in comment record. Even though there is precedent, the use of ";" doesn't improve clarity. The 6 GHz requirements could be merged.)

Replace,
"The nominal rate of the PMA_UNITDATA.indication primitive is 3 GHz for100M+2.5GBASE-T1/V1 and MultiG+100MBASE-T1/V1, 6 GHz for 100M+5GBASE-T1/V1, and 6 GHz for 100M+10GBASE-T1/V1 as governed by the recovered clock."

with,
"The nominal rate of the PMA_UNITDATA.indication primitive, as governed by the recovered clock, is 3 GHz for100M+2.5GBASE-T1/V1 and MultiG+100MBASE-T1/V1 and 6 GHz for 100M+5GBASE-T1/V1 and 100M+10GBASE-T1/V1."

Cl **202** *SC* **202.2.1.7.3** *P* **155** *L* **33** # 316

Gorshe, Steve — Microchip

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

The text should be updated to point to the clause 202 equivalent figure and subclauses, which resolves the Editor's Note.

SuggestedRemedy

Replace the current text with "The effect of the receipt of this primitive is specified in Figure 202-2, 202.3.2.3, 202.4.2.4 and 202.5." and remove the Editor's Note.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Commenter adds "the" between "of" and "receipt", which is not aligned with similar phrases in the document.)

Replace the current text with "The effect of receipt of this primitive is specified in Figure 202-2, 202.3.2.3, 202.4.2.4 and 202.5." and remove the Editor's Note.

Cl **202** *SC* **202.3.2.2** *P* **163** *L* **12** # 143

Wang, Frank — Realtek Semiconductor Corp.

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

wording

SuggestedRemedy

change "On" to "On"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Corrected page number in comment record.)

Apply italics font to "On"

Cl **202** *SC* **202.3.2.2.5** *P* **168** *L* **10** # 144

Wang, Frank — Realtek Semiconductor Corp.

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

align with 149.3.2.2.5

SuggestedRemedy

change "their mappings to control codes" to "their mappings to MultiG+100M/100M+MultiGBASE-T1/V1 control codes"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Corrected page number in comment record. No change to Suggested Remedy.)

change "their mappings to control codes" to "their mappings to MultiG+100M/100M+MultiGBASE-T1/V1 control codes"

Cl **202** *SC* **202.3.2.2.5** *P* **168** *L* **14** # 145

Wang, Frank — Realtek Semiconductor Corp.

Comment Type **E** *Comment Status* **X** *EZ*

wording: "for" is missed

SuggestedRemedy

change "Control codes MultiG+100M/100M+MultiGBASE-T1/V1" to "Control codes for MultiG+100M/100M+MultiGBASE-T1/V1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Corrected page number in comment record. There is no ambiguity here so the table title can just be "Control codes" as per Table 82-1, 55-1, 49-1, etc. It only needs more information in clauses which have multiple tables of control codes.)

change "Control codes MultiG+100M/100M+MultiGBASE-T1/V1"

to "Control codes"

Cl **202** SC **202.3.2.2.22** P **172** L **29** # 331

Johnson, Samuel Infineon

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

For some Testmodes, a frequency locked to the test equipment is required.

SuggestedRemedy

It is recommened that a FOLLOWER PHY nominally operating in XTAL-less mode should include a test method to provide a reference clock such that the transmission rate shall be within the range of 5625 * S MHz +/- 50ppm. It is recommended that the reference clock be 117.186MHz

Proposed Response *Response Status* **Z**

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl **202** SC **202.3.2.2.22** P **172** L **52** # 332

Johnson, Samuel Infineon

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

Mapping of logic0 -> +1 and logic1 -> -1 seems non-intuitive

SuggestedRemedy

If this is used by PAM2 in other standards, then leave unchanged. Otherwide, propose
Logic0 -> -1
Logic1 -> +1

Proposed Response *Response Status* **Z**

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl **202** SC **202.3.2.2.22** P **176** L **1** # 97

Wienckowski, Natalie IVN Solutions LLC

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

subject verb agrement

SuggestedRemedy

Change "transmit process send out" to "transmit process sends out".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **202** SC **202.3.2.3** P **176** L **38** # 146

Wang, Frank Realtek Semiconductor Corp.

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

wording: "_" is missed (also for lines 39, 49, and 52)

SuggestedRemedy

change "block lock" to "block_lock"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Corrected page number in comment record. Added additional location.)

change "block lock" to "block_lock" in the following locations:

P176, L38 - two locations
P176, L39
P176, L49
P176, L52
P178, L52

Cl **202** SC **202.3.2.3** P **176** L **41** # 98

Wienckowski, Natalie IVN Solutions LLC

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

missing bracket

SuggestedRemedy

Change "RXD 31:0>" to "RXD <31:0>"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **202** SC **202.4.2.2** P **209** L **41** # 400

Muma, Scott Microchip

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

The editor's note can be removed as the descriptions of the timers are up to date with their usage in the diagram

SuggestedRemedy

Remove editor's note

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **202** *SC* **202.4.2.3** *P* **200** *L* **7** # 147

Wang, Frank — Realtek Semiconductor Corp.

Comment Type **E** *Comment Status* **X** *EZ*

wording

SuggestedRemedy

change:
uses the parameters pcs_status and scr_status, and the state of the equalization, and estimation functions to determine
to:
uses the parameters pcs_status and scr_status, the state of the equalization, and estimation functions to determine
or
uses the parameters pcs_status and scr_status, and the state of the equalization and estimation functions to determine

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Corrected page number in comment record. This sentence is hard to parse. Text proposed to resolve comment and improve clarity.)

Replace,
"The PMA Receive function uses the parameters pcs_status and scr_status, and the state of the equalization, and estimation functions to determine the quality of the receiver performance, and generates the loc_rcvr_status variable accordingly."

with, "The PMA Receive function uses the parameters pcs_status and scr_status, as well as the state of the equalization and estimation functions, to determine the quality of the receiver performance and generates the loc_rcvr_status variable accordingly."

Cl **202** *SC* **202.4.2.4.7** *P* **204** *L* **16** # 148

Wang, Frank — Realtek Semiconductor Corp.

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

202.4.2.4.7 Phase switch PHY burst count

SuggestedRemedy

change "data switch" to "phase switch"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Corrected page number in comment record. No change to Suggested Remedy.)

change "data switch" to "phase switch"

Cl **202** *SC* **202.4.2.4.11** *P* **205** *L* **47** # 149

Wang, Frank — Realtek Semiconductor Corp.

Comment Type **E** *Comment Status* **X** *EZ*

grammar: comma afrer "PrecoderSel"

SuggestedRemedy

change "PrecoderSel and" to "PrecoderSel, and"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Corrected page number in comment record. No change to Suggested Remedy.)

change "PrecoderSel and" to "PrecoderSel, and"

Cl **202** *SC* **202.4.2.4.11** *P* **205** *L* **52** # 150

Wang, Frank — Realtek Semiconductor Corp.

Comment Type **T** *Comment Status* **X** *EZ*

not only COUNTDOWN stage but also PCS_TEST stage

SuggestedRemedy

change "At any COUNTDOWN stage" to "At any COUNTDOWN stage and PCS_TEST stage"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Corrected page number in comment record. "stage" should be "state" and probably doesn't need to be repeated. "and" should be "or".)

Change "At any COUNTDOWN state"

to "At any COUNTDOWN or PCS_TEST state"

Cl **202** *SC* **202.4.2.5** *P* **206** *L* **16** # 151

Wang, Frank — Realtek Semiconductor Corp.

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

wording: "_" is missed

SuggestedRemedy

change "link status" to "link_status"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Corrected page number in comment record. Clarified that change occurs in 2 locations.)

change "link status" to "link_status" in two locations on P206, L16

Cl **202** *SC* **202.5.2.3.1** *P* **220** *L* **40** # 310

Gorshe, Steve — Microchip

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

Ths sub-clause doesn't directly pertain to TDD, and the relavant information is captured above.

SuggestedRemedy

Remove 202.5.2.3.1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **202** *SC* **202.5.2.3.2** *P* **220** *L* **40** # 311

Gorshe, Steve — Microchip

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

Ths sub-clause doesn't directly pertain to TDD, and the relavant information is captured above.

SuggestedRemedy

Remove 202.5.2.3.2

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **202** *SC* **202.5.3.2** *P* **225** *L* **48** # 321

Gorshe, Steve — Microchip

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

There have been no presentations on this topic and the 802.3ch limits may not be appropriate.

SuggestedRemedy

Add "Presentations on this topic are needed." to the Editor's Note

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **202** *SC* **202.6** *P* **226** *L* **3** # 304

Gorshe, Steve — Microchip

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

Open clause with no text

SuggestedRemedy

Insert the following text: "2.5G+100MBASE-T1, 5G+100MBASE-T1, 10G+100MBASE-T1, 2.5G+100MBASE-V1, 5G+100MBASE-V1, 10G+100MBASE-V1, 100M+2.5GMBASE-T1, 100M+5GBASE-T1, 100M+10GBASE-T1, 100M+2.5GBASE-V1, and 100M+5GMBASE-V1, 100M+10GBASE-V12.5GBASE-T1, 5GBASE-T1, and 10GBASE-T1 make extensive use of the management functions that may be provided by the optional MDIO (Clause 45), and the communication and self-configuration functions provided by the optional (TBD pending decision on the need for AN) Auto-Negotiation (See Clause 98)."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Move text that Auto-Negotiation is TBD/pending decision into the Editor's note. Use style for "see Clause xx" references.)

Insert the following content into clause 202.6,
"2.5G+100MBASE-T1, 5G+100MBASE-T1, 10G+100MBASE-T1, 2.5G+100MBASE-V1, 5G+100MBASE-V1, 10G+100MBASE-V1, 100M+2.5GMBASE-T1, 100M+5GBASE-T1, 100M+10GBASE-T1, 100M+2.5GBASE-V1, and 100M+5GMBASE-V1, 100M+10GBASE-V12.5GBASE-T1, 5GBASE-T1, and 10GBASE-T1 make extensive use of the management functions that may be provided by the optional MDIO (see Clause 45), and the communication and self-configuration functions provided by the optional (TBD) Auto-Negotiation (see Clause 98)."

Replace the Editor's Note with,
"Need for Auto-Negotiation is TBD."

Cl **202** *SC* **202.8.2** *P* **230** *L* **19** # 323

Gorshe, Steve Microchip

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

Since this is a heading for the subsequent subclauses, no text is needed.

SuggestedRemedy

Remove the Editor's Note.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE

Delete Editor's Note and insert this text (copied from 149.7.2),
"Noise coupled between the disturbed link segment and the disturbing link segment is referred to as alien crosstalk noise. Power sum alien near-end crosstalk (PSANEXT) loss and power sum alien attenuation to crosstalk ratio far-end (PSAACRF) are specified to limit the total alien NEXT and alien FEXT coupled between link segments. The test methodologies are specified in Annex 97B."

with "alien crosstalk noise" in italics to align with 149.7.2.

Cl **202** *SC* **202.9.3** *P* **232** *L* **29** # 315

Gorshe, Steve Microchip

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

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SuggestedRemedy

Remove the Editor's Note and insert the sentence "MDI fault tolerance shall comply with 96.8.3."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Add "The" to align with 201.13.3.)

Remove the Editor's Note and insert the sentence "The MDI fault tolerance shall comply with 96.8.3."

Cl **202** *SC* **202.10.1** *P* **232** *L* **11** # 313

Gorshe, Steve Microchip

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

Since this is indepent of modulation, it can use the same language as 201.14.1.

SuggestedRemedy

Replace the TBD with ; "Where coaxial cabling is used, the mechanical interface to the coaxial cabling is a single pin connector with a shield. Further specification of the mechanical interface is beyond the scope of this standard."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

(Editor's note: Added instruction to delete Editor's Note. This section is for V1 media, coaxial cabling is always used.)

Delete Editor's Note and insert the following text into 202.10.1,

"The mechanical interface to the coaxial cabling is a single pin connector with a shield. Further specification of the mechanical interface is beyond the scope of this standard."

Cl **202** *SC* **202.10.2.1** *P* **232** *L* **23** # 314

Gorshe, Steve Microchip

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

Both -T1 and -V1 would have the same return loss parameters.

SuggestedRemedy

Remove the Editor's Note and insert the sentence "MDI return loss shall comply with 202.9.2.1."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.