Cl **1**　　*SC* **1.3**　　　　*P* **32**　　*L* **14**　　　# 50

Lusted, Kent　　　　　　　　　Intel Corporation

Comment Type **E**　　*Comment Status* **D**　　　*editorial (bucket1)*

The publication date for the SFP-DD MSA v4.2 was August 17, 2020, not August 10, 2020 as shown in the draft. See http://sfp-dd.com/wp-content/uploads/2020/08/SFP-DDrev4.2.pdf

SuggestedRemedy

Change the date to August 17, 2020

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **120**　　*SC* **120.5.7.2**　　　*P* **102**　　*L* **30**　　　# 55

Slavick, Jeff　　　　　　　　　Broadcom

Comment Type **TR**　　*Comment Status* **D**　　　*editorial (bucket1)*

In the change to the first paragph it has removed the requirement of this paragraph for 50G copper PMDs.

SuggestedRemedy

Add 200GBASE-KR4/CR4 to the list in both the first and second sentences.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **120**　　*SC* **120.5.7.2**　　　*P* **102**　　*L* **44**　　　# 56

Slavick, Jeff　　　　　　　　　Broadcom

Comment Type **TR**　　*Comment Status* **D**　　　*editorial (bucket1)*

In the change to the fourth paragph it has removed the requirement of this paragraph for 50G copper PMDs.

SuggestedRemedy

Add 200GBASE-KR4/CR4 to the list in the first sentence.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

[Editor's note: Changed page from 103.]

[Editor's note (to ber removed prior to closing comment): Page number fixed from bucket #1b.]

Cl **120G**　　*SC* **120G.1**　　　*P* **229**　　*L* **3**　　　# 15

Dudek, Mike　　　　　　　　　Marvell

Comment Type **E**　　*Comment Status* **D**　　　*editorial (bucket1)*

Clause 116.1.4 is included in the draft and should be a hot link

SuggestedRemedy

Make this a hot link.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **120G**　　*SC* **120G.1**　　　*P* **229**　　*L* **5**　　　# 21

Dudek, Mike　　　　　　　　　Marvell

Comment Type **E**　　*Comment Status* **D**　　　*editorial (bucket1)*

Annex 135A and 120A are part of this draft.

SuggestedRemedy

Make these references hot links.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **120G**　　*SC* **120G.3.2**　　　*P* **234**　　*L* **10**　　　# 13

Dudek, Mike　　　　　　　　　Marvell

Comment Type **T**　　*Comment Status* **D**　　　*editorial (bucket1)*

The references for both near and far eye measurements in table 120G-3 are to the host output. They should be to the module output

SuggestedRemedy

Change the reference from 120G.3.1.5 to 120G.3.2.2

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
In Table 120G-3, for rows for NE EH, NE VEC, FE EH, and FE VEC change the reference from "120G.3.1.5" to "120G.3.2.2".

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

Cl **120G**
SC **120G.3.2**

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Cl **136**   *SC* **136.8.11.7.1**   *P* **114**   *L* **37**   # 48

Lusted, Kent   Intel Corporation

Comment Type **TR**   *Comment Status* **D**   *training (bucket1)*

Based on the link training change proposed in https://www.ieee802.org/3/ck/public/20_10/lusted_3ck_02_1020.pdf, a new variable "use_quiet_in_training" was defined in Clause 136.8.11.7.1. This variable has an explicit setting of FALSE for 50 Gb/s per lane PHYs. However, no specific mention of the variable value is made for 100 Gb/s per lane PHYs. This could lead to confusion in the industry as some vendors may interpret the "use_quiet_in_training" capability as optional to implement, while it was intended to be mandatory for 100 Gb/s per lane PHYs.

SuggestedRemedy

In Cl 162.8.11, add a new entry to the list as follows:
h) the variable "use_quiet_in_training" (see 136.8.11.7.1) is always set to TRUE for 100 Gb/s per lane PHYs."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Resolve using the response to comment #53.

Cl **136**   *SC* **136.8.11.7.1**   *P* **114**   *L* **39**   # 53

Slavick, Jeff   Broadcom

Comment Type **TR**   *Comment Status* **D**   *training (bucket1)*

The intent of the new QUIET state is to make it so all newly developed PHYs will use this features to avoid the deadlock situation. So the QUIET state should mandatory except for 50G PHY types.

SuggestedRemedy

Change the last sentence of the use_quiet_in_training definition to read as "This variable is always set to FALSE for 50 Gb/s per lane PHYs, otherwise it's set to TRUE..

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Change the last sentence of the use_quiet_in_training definition to read as "This variable is always set to FALSE for 50 Gb/s per lane PHYs, otherwise it is set to TRUE."

Cl **162**   *SC* **162.8.11**   *P* **150**   *L* **34**   # 49

Lusted, Kent   Intel Corporation

Comment Type **TR**   *Comment Status* **D**   *training (bucket1)*

The requirement to "assert local_tf_lock … provided that there is a compliant signal containing training frames at the PMD input" is insufficiently detailed. It is unclear if a receiver should react to a signal that is compliant with respect to amplitude, jitter, etc but does not have a valid training frame format. It is possible that a few of the first training frames during startup are malformed logically yet meet the electrical compliance requirements.

SuggestedRemedy

Change item g) to be "… provided that there is a compliant signal containing valid training frames at the PMD input."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **162**   *SC* **162.9.3.1.4**   *P* **155**   *L* **46**   # 59

Wu, Mau-Lin   MediaTek

Comment Type **T**   *Comment Status* **D**   *TX EQ (bucket1)*

The step size of TX EQ coefficient had been changed from 2% to 2.5%. The "coefficient step size" shall be modified from 0.02 to 0.025.

SuggestedRemedy

Change <… to a request to "increment" shall be between 0.005 and 0.02, …> to <… to a request to "increment" shall be between 0.005 and 0.025, …>.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **162**   *SC* **162.9.3.1.4**   *P* **155**   *L* **47**   # 60

Wu, Mau-Lin   MediaTek

Comment Type **T**   *Comment Status* **D**   *TX EQ (bucket1)*

The step size of TX EQ coefficient had been changed from 2% to 2.5%. The "coefficient step size" shall be modified from -0.02 to -0.025.

SuggestedRemedy

Change <… to a request to "decrement" shall be between -0.02 and -0.005.> to <… to a request to "decrement" shall be between -0.025 and -0.005.>.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

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

Cl **162**
SC **162.9.3.1.4**

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Cl **162**　　*SC* **162.9.4.1**　　　　*P* **158**　　　*L* **23**　　　　# 46

Brown, Matt　　　　　　　　　Huawei

Comment Type **T**　　*Comment Status* **D**　　　*rate tolerance (bucket1)*

The list of related subclauses should include 162.9.4.2.

SuggestedRemedy

Change "162.9.4.3 and 162.9.4.4" to "162.9.4.2, 162.9.4.3, and 162.9.4.4".

Proposed Response　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **162**　　*SC* **162.11.7.2**　　*P* **171**　　　*L* **1**　　　　# 95

Haser, Alex　　　　　　　　　Molex

Comment Type **E**　　*Comment Status* **D**　　　*COM XTALK (bucket1)*

"The crosstalk paths for each MDI type are given in Table…"; the table specifies the number of crosstalk paths, not the paths themselves

SuggestedRemedy

Change text to "The number of crosstalk paths of each MDI…"

Proposed Response　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **162**　　*SC* **162.9.3.3**　　　*P* **156**　　　*L* **31**　　　# 142

Dawe, Piers　　　　　　　　　Nvidia

Comment Type **T**　　*Comment Status* **D**　　　*TX SNDR (bucket1)*

The transmitter SNDR measurement uses the method described in

SuggestedRemedy

Transmitter SNDR is defined by the [measurement] method {of | described in}

Proposed Response　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Change:
"The transmitter SNDR measurement uses the method described in 120D.3.1.6 with the exception that the linear fit procedure in 162.9.3.1.1 is used."
To:
"The transmitter SNDR is defined by the the measurement method described in 120D.3.1.6 with the exception that the linear fit procedure in 162.9.3.1.1 is used."

Cl **162A**　　*SC* **162A.2**　　　*P* **253**　　　*L* **24**　　　# 57

Wu, Mau-Lin　　　　　　　　MediaTek

Comment Type **T**　　*Comment Status* **D**　　　*editorial (bucket1)*

TP0a had been replaced by TP0v in Clause 163.9.2.

SuggestedRemedy

Change "The recommended transmitter characteristics at TP0 as measured at TP0a are described in 163.9.2." shall be changed to "The recommended transmitter characteristics at TP0 as measured at TP0v are described in 163.9.2."

Proposed Response　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **162A**　　*SC* **162A.3**　　　*P* **253**　　　*L* **29**　　　# 58

Wu, Mau-Lin　　　　　　　　MediaTek

Comment Type **T**　　*Comment Status* **D**　　　*editorial (bucket1)*

TP5a had been replaced by TP5v in Clause 163.9.3.

SuggestedRemedy

Change "The recommended receiver characteristics at TP5 as measured at TP5a are described in 163.9.3." shall be changed to "The recommended receiver characteristics at TP5 as measured at TP5v are described in 163.9.3."

Proposed Response　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **162B**　　*SC* **162B.1**　　　*P* **259**　　　*L* **17**　　　# 6

Dudek, Mike　　　　　　　　Marvell

Comment Type **TR**　　*Comment Status* **D**　　　*test fixture (bucket1)*

The measurements at TP1 or TP4 etc. are made with the Cable Assembly Test fixture (162B.1.2) not the mated test fixture (162B.1.3)

SuggestedRemedy

On line 18 change 162B.1.3 to 162B.1.2

Proposed Response　　*Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
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Cl **162B**
SC **162B.1**

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Cl **162B**　　*SC* **162B.1.3.2**　　　　*P* **262**　　　*L* **41**　　　　# 7

Dudek, Mike　　　　　　　　　　　　　Marvell

Comment Type　**T**　　　*Comment Status*　**D**　　　　　*MTF ERL reference (bucket1)*

Table 162B-2 is related to crosstalk parameters not ERL

SuggestedRemedy

Change 162B-2 to 162B-1 (two places0

Proposed Response　　　*Response Status*　**W**

PROPOSED ACCEPT.

Cl **162D**　　*SC* **162D.1.1**　　　　*P* **283**　　　*L* **31**　　　　# 9

Dudek, Mike　　　　　　　　　　　　　Marvell

Comment Type　**T**　　　*Comment Status*　**D**　　　　　*editorial (bucket1)*

The 100GBASE-CR2 in the Title of Table 162D-3 should be 200GBASE-CR2.

SuggestedRemedy

Change it

Proposed Response　　　*Response Status*　**W**

PROPOSED ACCEPT IN PRINCIPLE.
Change Title of Table 162D-3 to "200GBASE-CR2".

Cl **163**　　*SC* **163.9.2.3**　　　　*P* **187**　　　*L* **16**　　　　# 66

Healey, Adam　　　　　　　　　　　　Broadcom Inc.

Comment Type　**E**　　　*Comment Status*　**D**　　　　　*(bucket1)*

Subclause title is incorrect.

SuggestedRemedy

Change subclause title to "Difference steady-state voltage".

Proposed Response　　　*Response Status*　**W**

PROPOSED ACCEPT.

Cl **163**　　*SC* **163.10.1**　　　　*P* **190**　　　*L* **26**　　　　# 137

Ran, Adee　　　　　　　　　　　　　　Intel

Comment Type　**E**　　　*Comment Status*　**D**　　　　　*editorial (bucket1)*

This subclause is titled "Channel Operating margin" so it should only discuss COM, not recommended IL limits and ERL requirements.

There are additional requirements not listed here (e.g. mode conversion loss, 163.10.4)

SuggestedRemedy

Move the second paragraph (which points to 163.10.2 and 163.10.3) to the parent subclause 163.10.

Consider adding a summary table in 163.10 as in the Tx and Rx characteristics.

Proposed Response　　　*Response Status*　**W**

PROPOSED ACCEPT IN PRINCIPLE.
Move the second paragraph (which points to 163.10.2 and 163.10.3) to the parent subclause 163.10. Implement with editorial license.
Adding a summary table may be an improvement to the draft, but is not necessary for technical completeness.

Cl **163A**　　*SC* **163A.4.1.2**　　　　*P* **289**　　　*L* **46**　　　　# 11

Dudek, Mike　　　　　　　　　　　　　Marvell

Comment Type　**E**　　　*Comment Status*　**D**　　　　　*editorial (bucket1)*

missing space between "in" and "93A.5"

SuggestedRemedy

fix it

Proposed Response　　　*Response Status*　**W**

PROPOSED ACCEPT.

Cl **163B**　　*SC* **163B.2**　　　　*P* **291**　　　*L* **9**　　　　# 12

Dudek, Mike　　　　　　　　　　　　　Marvell

Comment Type　**TR**　　　*Comment Status*　**D**　　　　　*TP0v/TP5v example (bucket1)*

With this example test fixture moved to an Annex it is necessary to refer to the relevant clause that provides the package parameters etc.

SuggestedRemedy

Change "For this test fixture, the reference values determined according to the methodology in 163A.3 are listed in Table 163B–1" to "For this test fixture, the reference values determined according to the methodology in 163A.3 using the parameters supplied in Clause 163 are listed in Table 163B–1"

Proposed Response　　　*Response Status*　**W**

PROPOSED ACCEPT.

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

Cl **163B**
SC **163B.2**

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