

IEEE P802.3cw D2.2 400 Gb/s over DWDM systems 2nd Working Group recirculation ballot comments

CI 45 SC 45.2.3.59b P31 L18 # 25
 Huber, Thomas Nokia
 Comment Type E Comment Status D bucket
 Both 45.2.3.59a and 45.2.3.59b are being inserted by this amendment. It is awkward to have an editing instruction to insert 45.2.3.59b after 45.2.3.59a, since 59a doesn't exist in the baseline document or any prior amendment.
 SuggestedRemedy
 Remove the editing instruction to insert 45.2.3.59b. Modify the editing instruction above 45.2.3.59a to say "Insert 45.2.3.59a and 35.2.3.59b after 45.2.3.59 as follows:"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.1.1 P41 L13 # 14
 Huber, Thomas Nokia
 Comment Type E Comment Status D
 The two sentences in this subclause are still almost fully redundant with each other - the only difference is the second sentence mentions the PMD clause, which seems unnecessary, given that Figure 155-1 clearly shows that the 400GBASE-ZR PHY uses the 400GBASE-ZR PCS and 400GBASE-ZR PMA. By way of comparison, the equivalent scope clause for 100GBASE-ZR (clause 153) is a single sentence that aligns with the first sentence here.
 SuggestedRemedy
 Delete the second sentence.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.2.1 P43 L49 # 15
 Huber, Thomas Nokia
 Comment Type T Comment Status D bucket
 The 400GBASE-ZR PCS does not connect (directly) to the Reconciliation Sublayer when a 400GMII Extender Sublayer is used, which will be the case in most if not all 400GBASE-ZR implementations. In that context, the first sentence is a bit misleading. It also isn't really necessary; the service interface is the MII; it doesn't matter whether it's the RS or PHY XS on the other side of the MII.
 SuggestedRemedy
 Delete the first sentence.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.2.5.3 P47 L9 # 16
 Huber, Thomas Nokia
 Comment Type E Comment Status D bucket
 The parenthetical description of data bits could be clearer
 SuggestedRemedy
 Replace
 Replace
 (the logically serialized 257-bits block encoded stream produced according to 155.2.5.2) with
 (i.e., the logically serialized stream of 257-bit blocks produced according to 155.2.5.2)
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.2.5.3 P47 L26 # 17
 Huber, Thomas Nokia
 Comment Type TR Comment Status D bucket
 GMP mapping is done on the 4-frame multiframe with 1028-bit granularity, so this table is showing the locations within the multiframe.
 SuggestedRemedy
 Change the title to 'GMP stuff word locations in 400GBASE-ZR multiframe'
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.2.5.5 P48 L10 # 18
 Huber, Thomas Nokia
 Comment Type TR Comment Status D bucket
 It would be good to explicitly state that the bits/bytes shown in grey are not used, and what value is transmitted.
 SuggestedRemedy
 Add a new sentence at the end of the paragraph: The bit locations that are not labeled are unused and are transmitted as zero.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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CI 155 SC 155.2.5.5.2 P48 L42 # 19

Huber, Thomas Nokia
 Comment Type TR Comment Status D

The description of how to set the RPF bit is not clear; 'remote 400GBASE-ZR receive function' seems to parse most naturally as the receive function in a remote node, which is presumably not what is intended here. The behavior that needs to be specified is setting the RPF bit to 1 if the associated rx function for the port can't find the frame (i.e., this bit is used to tell the node at the other end of the fiber that what it is sending is not being received).

SuggestedRemedy

Change the second sentence to read:
 It is set to "1" to indicate that the 400GBASE-ZR PCS receive function in this node that is associated with the same port as this 400GBASE-ZR PCS transmit function has not detected the location of the AM field among the stream of 257-bit blocks delivered by the SC-FEC decoder; otherwise it is set to "0".

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

Change:
 "It is set to "1" to indicate that the remote 400GBASE-ZR PCS receive function has not detected the location of the AM field among the stream of 257-bit blocks delivered by the SC-FEC decoder; otherwise it is set to "0"."

To:
 "It is set to "1" by the 400GBASE-ZR PCS transmit function to indicate that the local 400GBASE-ZR PCS receive function has not detected the location of the AM field among the stream of 257-bit blocks delivered by the SC-FEC decoder; otherwise it is set to "0"."

CI 155 SC 155.2.5.5.3 P49 L16 # 20

Huber, Thomas Nokia
 Comment Type E Comment Status D bucket

There is a stray l at the start of the header text

SuggestedRemedy
 change IGMP... to GMP...

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.2.5.11 P53 L32 # 1

Bruckman, Leon Huawei
 Comment Type E Comment Status D bucket

The numbeing of the "c" bits shall not be italized

SuggestedRemedy

In c0 to c127, change the format of the numbers to regular

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.3.1.3 P58 L17 # 2

Bruckman, Leon Huawei
 Comment Type T Comment Status D

We show synchronization only to FAW

SuggestedRemedy

Change: "Synchronization to the FAW, TS, and PS fields followed by" to: " Synchronization to the FAW followed by"

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.3.2.2.1 P60 L38 # 21

Huber, Thomas Nokia
 Comment Type E Comment Status D bucket

The index k should be in italics

SuggestedRemedy

Italicize the k in the last sentence of the 3rd paragraph.

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.3.2.3.1 P61 L20 # 22

Huber, Thomas Nokia
 Comment Type E Comment Status D bucket

Awkward wording: "...is detecting a fault has as defined..."

SuggestedRemedy

Delete the extraneous 'has'

Proposed Response Response Status W
 PROPOSED ACCEPT.

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CI 155 SC 155.3.3 P61 L38 # 23
 Huber, Thomas Nokia
 Comment Type E Comment Status D bucket
 128 x m should use a multiplication symbol
 SuggestedRemedy
 Replace the x with ×
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.3.3.1.1 P62 L4 # 5
 Bruckman, Leon Huawei
 Comment Type E Comment Status D bucket
 The numbeing of the "c" bits shall not be italized
 SuggestedRemedy
 In c0 to c127, change the format of the numbers to regular
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.3.3.1.1 P61 L52 # 3
 Bruckman, Leon Huawei
 Comment Type E Comment Status D bucket
 The numbeing of the "c" bits shall not be italized
 SuggestedRemedy
 In c0 to c127, change the format of the numbers to regular
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.3.3.1.1 P62 L15 # 6
 Bruckman, Leon Huawei
 Comment Type E Comment Status D bucket
 The numbeing of the "c" bits shall not be italized
 SuggestedRemedy
 In c0 to c127, change the format of the numbers to regular
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.3.3.1.1 P62 L1 # 4
 Bruckman, Leon Huawei
 Comment Type E Comment Status D bucket
 "S" is not further used in the draft. There is no need to define it
 SuggestedRemedy
 Change: "is mapped to sixteen DP-16QAM symbols (S),S = [s0, s1,..., s15]," to: is mapped to sixteen DP-16QAM symbols [S0, S1,..., S15]"
 Numbers should be subscripted
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.3.3.1.3 P63 L50 # 24
 Huber, Thomas Nokia
 Comment Type E Comment Status D bucket
 Use superscript to indicate an exponent
 SuggestedRemedy
 Replace 2¹³ with 2 and a superscripted 13
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 155 SC 155.3.3.1.9 P70 L7 # 7
 Bruckman, Leon Huawei
 Comment Type E Comment Status D bucket
 In Fgure 155-14 "C" shall be lower case italized to make it coherent with 155.3.3.1.1
 SuggestedRemedy
 Change "C" to lower case italized in Figure 155-14
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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CI 156 SC 156.9.6 P103 L1 # 13

Maniloff, Eric Ciena

Comment Type E Comment Status D bucket

Spectral Mask is in the wrong section

SuggestedRemedy

Move mask into section 156.9.4

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Move Figure 156-6 from 156.9.6 to 156.9.4 after the sentence "The upper and lower masks are illustrated in Figure 156-6."

With editorial license.

CI 156 SC 156.1 P85 L12 # 8

Bruckman, Leon Huawei

Comment Type E Comment Status D bucket

Consider changing "PMD" to "400GBASE-ZR PMD" to make it consistent with the other clauses (e.g. see 156.6)

SuggestedRemedy

Change "PMD" to "400GBASE-ZR PMD" through the whole 156 clause, wherever appropriate

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Implement suggested remedy with editorial license.

CI 156 SC 156.2 P87 L12 # 9

Bruckman, Leon Huawei

Comment Type E Comment Status D bucket

The text alignment in the left of Figure 156-2 (right aligned) is different from the text alignment in the left of Figure 156-3 (center aligned)

SuggestedRemedy

Change text alignment in the left of Figures 156-2 or 156-3 to be consistent

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change the noted text justification in Figure 156-3 to right to match Figure 156-2.

CI 156 SC 156.8 P100 L31 # 10

Bruckman, Leon Huawei

Comment Type E Comment Status D bucket

The look of Table 156-10 could be improved

SuggestedRemedy

In Table 156-10 make the first (left side) column narrower to better fit content

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 156 SC 156.9.6 P103 L38 # 12

Maniloff, Eric Ciena

Comment Type T Comment Status D

The high frequency valueof the laser frequency noise mask should specify the laser linewidth that results in this value.

SuggestedRemedy

Add the following text to section 156.9.6: "A maximum laser linewidth of 500kHz is used to determine the value of the laser frequency noise mask for frequencies ≥ 100 MHz. The definition of maximum laser linewidth is provided in ITU-T G.698.2 The reveiver local oscillator has the same linewidth specification."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

In 156.9.6 add a new second paragraph:

"A maximum laser linewidth of 500kHz is used to determine the value of the laser frequency noise mask for frequencies ≥ 100 MHz. The definition of maximum laser linewidth is provided in ITU-T G.698.2. The reveiver local oscillator has the same linewidth specification."

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CI 156 SC 156.10.1.2.7 P111 L6 # 11

D'Ambrosia, John Futurewei, U.S. Subsidiary of Huawei

Comment Type E Comment Status D

The heading of this subclause notes EVM Calculation, but IEEE P802.3cw leverages EVM MAX, and the text in this subclause points to the OIF subclause that is calculating EVM MAX.

Suggested Remedy

Change subclause heading from "EVM Calculation" to "EVM MAX Calculation"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change the subclause heading for 156.10.1.2.7 from "EVM Calculation" to "EVMmax Calculation".

Update 156.10.1.2.7 to: "The EVMmax calculations are defined in OIF-400ZR-02.0, Implementation Agreement 400ZR section 20.

The calculation of EVMmax and EVMrms is similar except that EVMmax uses the maximum constellation point magnitudes for normalization, whereas EVMrms uses the root mean square value of the constellation point magnitudes."