C/ FM SC FM P1 L27 # 20 C/ FM SC FM P1 L 28 # 62 Issenhuth, Tom Huawei Marris, Arthur Cadence Design Systems Comment Status D Comment Type E bucket Comment Type Comment Status D bucket 802.3ch and 802.3ca have been approved as standards. 802.3ch-2020 and 802.3ca-2020 have been published SuggestedRemedy SuggestedRemedy Change -20xx to -2020 for both. Change "802.3ch-20XX and 802.3ca-20XX" to "802.3ch-2020 and 802.3ca-2020" throught the document Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT PROPOSED ACCEPT IN PRINCIPLE. SC FM P1 L27 # 18 C/ FM See responses to comments 21 and 22. Issenhuth, Tom Huawei C/ FM SC FM P1 / 39 Comment Type E Comment Status D bucket Missing IEEE Std 802.3cr-20xx, IEEE Std 802.3cp-20xx and IEEE Std 802.3cs-20xx Hajduczenia, Marek **Charter Communications** Comment Type E Comment Status D bucket SuggestedRemedy "Draft D2.0 is prepared for Task Force review" Insert .cr and .cp after .ca and insert .cs after .cu SuggestedRemedy Proposed Response Response Status W Likely for initial Working Group review. Next versions should say "working Group ballot PROPOSED ACCEPT IN PRINCIPLE. recirculation" See response to comment 8. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. C/ FM SC FM P1 L28 # 70 Grow, Bob **RMG** Consulting In line 30 replace "task force" with "working group". Comment Type T Comment Status D bucket C/ FM SC FM P**2** L**5** # 71 Including IEEE Std 802.3cu-20xx in the list (which is in WG recirculation 2) makes sense **RMG** Consulting (and is justified by inclusion of base text from cu. but I believe with P802.3cr (which is in SA Grow, Bob ballot) the list should also include IEEE Std 802.3cr-20xx. as P802.3cu/D2.2, 151.9.1 Comment Status D Comment Type E bucket includes a reference to J2, and therefore needs to follow P802.3cr as currently written. This instance of "Energy Efficient Ethernet" isn't hyphenated. SuggestedRemedy SuggestedRemedy Add IEEE Std 802.3cr-20xx to the list as the 10th amendment (before IEEE Std 802.3cu-**Energy-Efficient Ethernet** 20xx). Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE

See response to comment 9.

C/ FM SC FM P12 L20 # 35 C/ FM SC FM P12 L22 # 36 Wienckowski, Natalie General Motors Wienckowski. Natalie General Motors Comment Status D Comment Type E bucket Comment Type E Comment Status D bucket IEEE802.3ch was approved by the Standards Board. ch is Amendment 8. The description has been slightly modified for publication. SuggestedRemedy SuggestedRemedy Change: 20xx to 2020 Add "Amendment 8(Em dash)" before the description. Change: Clause 149 and Annex 149A and Annex 149B Proposed Response Response Status W To: Clause 149. Annex149A. Annex 149B and Annex 149C PROPOSED ACCEPT IN PRINCIPLE Proposed Response Response Status W PROPOSED ACCEPT. See response to comment 21. P12 C/ FM SC FM / 20 # 21 C/ FM SC FM P12 L26 Issenhuth. Tom Huawei Issenhuth, Tom Huawei Comment Status D Comment Type E bucket Comment Type E Comment Status D bucket 802.3ch has now been approved as a standard. 802.3ca has now been approved as a standard. SuggestedRemedy SuggestedRemedy Change -20xx to -2020. Change -20xx to -2020. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ FM SC FM P12 L22 # 72 C/ FM SC FM P12 L26 # 37 Grow, Bob **RMG** Consulting Wienckowski, Natalie General Motors Comment Type E Comment Status D bucket Comment Type E Comment Status D bucket This amendment has a number. IEEE802.3ca was approved by the Standards Board. SuggestedRemedy SuggestedRemedy Insert "Amendment 8 --". Change: 20xx to 2020 Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. See response to comment 36. See response to comment 22.

C/ FM SC FM P12 L28 # 73 Grow, Bob **RMG** Consulting Comment Type E Comment Status D bucket This amendment has a number. SuggestedRemedy Insert "Amendment 9 --". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE See response to comment 38. P12 C/ FM SC FM 1 28 # 38 Wienckowski. Natalie General Motors Comment Type E Comment Status D bucket ca is Amendment 9. SuggestedRemedy Add "Amendment 9(Em dash)" before the description. Proposed Response Response Status W

PROPOSED ACCEPT.

C/ FM SC FM P12 L37 # [74

Grow, Bob RMG Consulting

Comment Type E Comment Status D bucket

Because this draft references Annex J2 (154.9.1), IEEE Std 802.3cr needs to precede this project in amendment number because it adds the Annex.

SuggestedRemedy

Add: IEEE Std 802.3crTM-20xx IEEE Std 802.3crTM-20xx

Amendment 10 -- This amendment includes changes to IEEE Std 802.3-2018 and adds Annex J. This amendment replaces references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology equipment—Safety—Part 1: General requirements") with appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and makes appropriate changes to the standard corresponding to the new references This amendment includes changes to IEEE Std 802.3-2018 and adds Annex J. This amendment replaces references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology equipment—Safety—Part 1: General requirements") with appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and makes appropriate changes to the standard corresponding to the new references.

Proposed Response Response Status W PROPOSED ACCEPT.

C/ FM SC FM P12 L37 # 19

Issenhuth, Tom Huawei

Comment Type E Comment Status D bucket

Missing IEEE Std 802.3cr-20xx, IEEE Std 802.3cp-20xx and IEEE Std 802.3cs-20xx

SuggestedRemedy

Insert .cr and .cp after .ca and insert .cs after .cu

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See response to comment 9.

C/ FM SC FM P21 L2 # 63 C/ 00 SC 0 P**1** L29 Marris, Arthur Cadence Design Systems Lewis, Jon Dell FMC Comment Type Comment Status D Comment Type E Comment Status D bucket It would be nice if coherent modulation was mentionned in the abstract This is Working Group ballot SuggestedRemedy SuggestedRemedy Change second sentence in abstract to: "This amendment adds 100 Gb/s Physical Layer Change "Task Force review" to "Working Group ballot" specifications and management parameters for operation over DWDM systems using Proposed Response Response Status W coherent modulation with reaches of at least 80 km." PROPOSED ACCEPT IN PRINCIPLE Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See response to comment 1. P12 For task force discussion. Related to comments 81 and 139. C/ 00 SC 0 / 36 Lewis, Jon Dell FMC C/ 00 SC 0 L 0 # 2 Comment Type E Comment Status D bucket Haiduczenia. Marek **Charter Communications** Add IEEE std 802.3cr information Comment Type E Comment Status D bucket SuggestedRemedy Wrong copyright year Add "IEEE Std 802.3crTM-20xx SuggestedRemedy This amendment includes changes to IEEE Std 802.3-2018 and adds Annex J. This 2019 is gone, please use 2020 amendment replaces references to the IEC 60950 series of standards (including IEC 60950-1 Proposed Response Response Status W "Information technology equipment—Safety—Part 1: General requirements") with PROPOSED ACCEPT. appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and makes appropriate changes to the standard P1 C/ 00 SC 0 1 27 # 8 corresponding to the new references." and align with expected publication order. Lewis, Jon Dell EMC Proposed Response Response Status W Comment Type E Comment Status D bucket PROPOSED ACCEPT IN PRINCIPLE. Missing IEEE Std 802.3cr-202x in the list See response to comment 74. Align with expected publication order. SuggestedRemedy SC 1.4 C/ 1 P22 L17 # 101 Add "IEEE std 802.3cr-202x" and align the list with the anticipated order of publication. Maki, Jeffery Juniper Networks Proposed Response Response Status W Comment Type E Comment Status D bucket PROPOSED ACCEPT. Italic comment text Insert the following new definition after 1.4.181 "channel insertion loss": and text below referres to the wrong sub-cluase of IEEE Std 802.3-2018. SuggestedRemedy Change 1.4.181 to 1.4.180, and 1.4.181a to 1.4.180a. Proposed Response Response Status W PROPOSED ACCEPT.

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

C/ 1 SC 1.4 Page 4 of 29 6/26/2020 3:12:59 PM

C/ 1 SC 1.4 P22 L34 # 93

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type ER Comment Status D

For a DWDM system the presence of an optical mux / demux is key, as illustrated in Fig 154-3, and should be explicitly stated in the definition..

SuggestedRemedy

Change definition of 1.4.237d DWDM System to

An aggregate of DWDM links optically multiplexed and demuxed onto and off of either a single optical fiber or a single optical fiber per direction.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion. See response to comment 130.

C/ 1 SC 1.4 P22 L37 # 75

Grow, Bob RMG Consulting

Comment Type E Comment Status D bucket

802.3bt deleted 294 and instructed renumbering. Previous amendments have used the renumbered subclause for items after 294.

SuggestedRemedy

The instruction should reference 400, and the insertion should be numbered 400a similar to previous amendments.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Modify instruction to read "Insert the following new definition after 1.4.400 "Point-to-point emulation (P2PE)" (re-numbered from 1.4.401 due to the deletion of 1.4.294 by IEEE Std 802.3bt-2018)". Modify the insertion to 1.4.400a.

C/ 1 SC 1.4.35a

P**22**

L5

81

Dambrosia, John

Futurewei, A U.S. Subsidiary of Huawei

Comment Type ER Comment Status D

The term "coherent" only appears 2x in D2.0 of P802.3ct, its use in defining the term "100GBASE-ZR" is not helpful to the reader

SuggestedRemedy

replace current definition with -"An IEEE 802.3 family of Physical Layer devices using 100GBASE-R encoding and

a PMD that employs dual polarization differential quadrature phase shift keying (DQPSK) modulation. (See IEEE Std 802.3, Clause 154.)

Proposed Response

Response Status W

PROPOSED ACCEPT IN PRINCIPLE

For task force discussion. Related to comments 63 and 139.

C/ 1 SC 1.4.35b P22 L8 # 139

Dawe, Piers

Nvidia

Comment Type

T

Comment Status D

Saying that 100GBASE-ZR uses 100GBASE-R encoding, with identical wording to e.g. "100GBASE-SR4: IEEE 802.3 Physical Layer specification for 100 Gb/s using 100GBASE-R encoding" is very misleading. There's a lot of extra complexity here that isn't covered by "DP-DQPSK modulation".

SuggestedRemedy

Change "using 100GBASE-R encoding and DP-DQPSK modulation" to "using 100GBASE-R encoding, GMP, SC-FEC, and DP-DQPSK modulation".

Proposed Response

Response Status W

PROPOSED ACCEPT IN PRINCIPLE

For task force discussion. Related to comments 63 and 81.

C/ 1 SC 1.4.160a P22 L14 # 83 Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei Comment Type ER Comment Status D A "black Link" is an approach to describing a DWDM Channel, not a link itself. SuggestedRemedy Change definition -A black link s an approach to defining a single-mode fiber based DWDM channel by specifying the characteristics of the input and output of the link and its transfer characteristics, without specifying how the link is defined Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. C/ 1 SC 1.4.160a P22 L14 # 129 Dawe, Piers Nvidia Comment Type E Comment Status D bucket To match the rest of the document, Black Link should be black link SuggestedRemedy Scrub the new definitions for roque capitals Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See response to comment 3. C/ 1 SC 1.4.181a P22 L20 # 137 Dawe. Piers Nvidia

Comment Status D

"WDM application": weasel word: no specific meaning or ambiguous

C/ 1

C/ 1 SC 1.4.181a P**22** L20 # 138 Dawe, Piers Nvidia Comment Type Т Comment Status D I think that the implication that no other grids but ITU-T ones are possible is incorrect and not necessary. SuggestedRemedy If it's true, and I think it is because Clause 54 uses "WWDM", insert "In this standard" before "DWDM channel spacings". Delete the sentence about CWDM if it's not needed, or ioin the sentences. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. For task force discussion This would be a generic definition for all applicable standards so cannot use the phrase "In this standard". Replace "DWDM channel spacings" with "Typical DWDM channel spacings". Replace "CWDM channel spacings" with "Typical CWDM channel spacings". SC 1.4.237 P22 L25 # 84 Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei Comment Status D Comment Type ER There is no definition for DWDM SuggestedRemedy add definition for DWDM -An optical WDM technology where the frequency spacing is less than or equal to 1000 GHz.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion. See response to comment 61.

WDM wavelength plan Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion.

Comment Type T

SuggestedRemedy

C/ 1 SC 1.4.237a P22 L25 # 61

Zimmerman, George CME Consulting/ADI, Cisco, Commscope, Marvell, S

Comment Type TR Comment Status D

The definitions DWDM Channel, Link, PHY, and System are circular without a definition of DWDM. A definition for DWDM was proposed in the work, (http://www.ieee802.org/3/B10K/public/18_03/dambrosia_b10k_01_0318.pdf) but never included in the draft, and it is not present in 802.3-2018. While Wavelength Division Multiplexing may be self explanatory, and the expansion obvious, the expansions in the 802

Multiplexing may be self explanatory, and the expansion obvious, the expansions in the 802 abbreviations don't provide the necessary technical information for a definition, basically, how dense is dense. A definition from the study group, based on G.671, modified to make it clear that optical transmission is meant, is offered.

SuggestedRemedy

Add new definition 1.4.227a Dense Wavelength Division Multiplexing (DWDM). An optical WDM technology where the frequency spacing is less than or equal to 1000 GHz.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion.

C/ 1 SC 1.4.237b P22 L28 # [130

Dawe, Piers

Nvidia

Comment Type

T

Comment Status D

According to 154.6, the black link extends from TP2 to TP3, excluding the PHYs. 1.4.160a says that the black link is a link. 1.4.302 says that a link is the transmission path between any two interfaces of generic cabling. (From ISO/IEC 11801.) Implying that it doesn't include the PHYs. This draft definition for DWDM Link includes the PHYs.

SuggestedRemedy

Rename "DWDM Link" to something not "link" and use the corrected name in 1.4.237d DWDM System.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion. See response to comment 93.

C/ 1 SC 1.4.401A

Futurewei, A U.S. Subsidiary of Huawei

L40

L40

85

131

Dambrosia, John Futurewei, A U.S. Subsidi

Comment Type ER Comment Status D

The term "SOP" is only used 2x in D2.0, both times in 1.4.401a

in the base 802.3 standard, SOP stand stands for "Start-of-packet propagation delay" and is defined in 27.3.1.3.3. Its use is isn Clauses 27. 29. 41. and 61.

P**22**

SuggestedRemedy

Replace sentence with -

1.4.401a Polarization Dependent Loss: The variation of insertion loss due to a variation of the state of

polarization over all states of polarization within the channel frequency range (DWDM link) or channel wavelength

range (CWDM and WWDM links).

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion. See response to comment 131, 132 and 133.

- Tor task force discussion. Gee response to comment for, for and for.

 Cl 1
 SC 1.4.401a
 P22

 Dawe, Piers
 Nvidia

Comment Type E Comment Status D

Gratuitous abbreviation: SOP is not used anywhere but this sentence.

SuggestedRemedy

Just write it out, the simple way: The variation of insertion loss due to a variation of the state of polarization over all states of polarization

Or, if a measure of the range is meant, rather than the concept that there is a range, perhaps:

The range of insertion losses over all states of polarization

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion. See response to comment 85, 132 and 133.

C/ 1 SC 1.4.401a P22 L40 # 132

Dawe, Piers Nvidia

Comment Type T Comment Status D

What is this detail "within the channel frequency range (DWDM link) or channel wavelength range (CWDM and WWDM links)" doing here? 1.4 definitions should be short, simple and high level. There's no other mention of CWDM in this document, and PDL is something that happens without WDM anyway.

SuggestedRemedy

Create a new subsection near 154.8.17 to define precisely over what conditions PDL is defined. Delete "within the channel frequency range (DWDM link) or channel wavelength range (CWDM and WWDM links)" from here; add something such as "...loss of an instance of fiber optic cabling" to indicate that PDL is something to do with fibre optics.

Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion. See response to comment 85, 131 and 133.

Cl 45 SC 45.2.1.133a.1 P27 L28 # 4_____

Hajduczenia, Marek Charter Communications

Comment Type TR Comment Status D

On reading the definition of this bit, it is absolutely not clear what "Integer value of the Tx optical channel index" really is. Is it frequency in nm, some arbotrary channel number, or something altogether else (frequency in THz?)

SuggestedRemedy

Please clarify what specific column from Table 154–6 is mapped into this register The same comment applies to register 1.820.5:0 defined in 45.2.1.133e.2

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

In 45.2.1.133a.1 replace the sentences "Bits 1.800.5:0 set the value of the Tx optical channel index (and hence the transmitter optical frequency) with bit 1.800.0 being the LSB and bit 1.800.5 being the MSB. The optical channel that corresponds to this index value is given in the appropriate PMD clause. For 100GBASE-ZR see Table 154–6."

"Bits 1.800.5:0 set the value of the Tx optical channel index number (which directly relates to the optical channel and transmitter center frequency) with bit 1.800.0 being the LSB and bit 1.800.5 being the MSB. The channel index number states the optical frequencies that are supported. For 100GBASE-ZR the specific optical frequency supported for each channel index number is listed in Table 154-6."

In 45.2.1.133e.2 replace the sentences "If the PMD is able to operate with an Rx optical channel index that is different from the Tx optical channel index (bit 1.820.15 is one), bits 1.820.5:0 set the value of the Rx optical channel index (which directly relates to the optical channel and receiver center frequency) with bit 1.820.0 being the LSB and bit 1.820.5 being the MSB. The optical channel that corresponds to this index value is given in the appropriate PMD clause."

With "If the PMD is able to operate with an Rx optical channel index number that is different from the Tx optical channel index number (bit 1.820.15 is one), bits 1.820.5:0 set the value of the Rx optical channel index number (and hence the receiver optical frequency) with bit 1.820.0 being the LSB and bit 1.820.5 being the MSB. The channel index number states the optical frequencies that are supported. For 100GBASE-ZR the specific optical frequency supported for each channel index number is listed in Table 154-6."

Cl 45 SC 45.2.1.186aa P35 L22 # 5 CI 45 SC 45.2.1.186ab P36 L21 # 64 Hajduczenia, Marek **Charter Communications** Marris, Arthur Cadence Design Systems Comment Type TR Comment Status D Comment Type E Comment Status D bucket First use of the term IFEC, not defined anywhere really. 1.2201.7:3 are reserved SuggestedRemedy SuggestedRemedy Provide definition (do not see it in 802.3-2018 right now) Change "1.2201.6:3" to "1.2201.7:3" in Table 45-150ab Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE PROPOSED ACCEPT For task force discussion. Cl 45 SC 45.2.1.186ab.8 P37 L33 Wienckowski, Natalie General Motors / 49 Cl 45 SC 45.2.1.186aa P35 # Comment Type E Comment Status D bucket Hajduczenia, Marek Charter Communications Awkward wording Comment Status D Comment Type E bucket SuggestedRemedy Block of text is misaligned / extra spaces at the front Change: the decoder has this ability to the bypass error indication function SuggestedRemedy To: the decoder has this ability to bypass the error indication function Per comment Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. Cl 45 SC 45.2.1.186ah P39 L44 # 65 Remove unneeded additional spaces. Cadence Design Systems Marris. Arthur Cl 45 SC 45.2.1.186ab P35 / 48 # 32 Comment Type E Comment Status D bucket Xilinx This is the first use the term SC-FEC so it would be good to explain the abbreviation Nicholl, Shawn Comment Type ER Comment Status D bucket SuggestedRemedy Extra space at start of line. Change text to: "The assignment of bits in the SC-FEC (staircase FEC) alignment status 1 register is shown in Table 45-150ag." SuggestedRemedy Proposed Response Response Status W Remove the space that precedes "The assignment of bits ..." PROPOSED ACCEPT IN PRINCIPLE Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change text to: "The assignment of bits in the staircase FEC (SC-FEC) alignment status 1 register is shown in Table 45-150ag." See response to comment 6.

Cl 80 SC 80.1.3 P48 L5 # 86

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type ER Comment Status D

While it is true that 100GBASE-Z uses 100GBASE-R encoding, it uses a diffferent modulation approach, but this is not shown architecturally in Fig 80-1.

SuggestedRemedy

Redraw Fig 80-1 to include a stack for 100GBASE-Z

Delete "In Figure 80-1 change the list of medium types under CGMII as follows:

"100GBASE-R, or 100GBASE-P, or 100GBASE-Z." with proper strike-out and underline.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See response to comment 15.

Cl 80 SC 80.1.3 P48 L14 # 15

Anslow, Pete Self

Comment Type ER Comment Status D

Changes to figures (other than the title) should show the figure as changed, not rely on the roll-up editor to interpret the change.

Also, there should only be one "or"

SuggestedRemedy

Change the editing instruction to:

"Replace Figure 80-1 with the following figure:"

bring Figure 80-1 in to the draft and change:

"100GBASE-R or 100GBASE-P" to:

"100GBASE-R,

100GBASE-P,

or 100GBASE-Z"

with no underline or strikethrough.

Proposed Response Response Status W

SORT ORDER: Clause, Subclause, page, line

PROPOSED ACCEPT.

C/ 80 SC 80.1.3

P**48**

L16

76

Grow, Bob

RMG Consulting

Comment Type **E**

The text inappropriately includes editing instruction.

SuggestedRemedy

In Figure 80-1, replace the list of medium types ("100GBASE-R or 100GBASE-P") under CGMII with "100GBASE-R or 100GBASE-P or 100GBASE-Z". Delete line 16. Or alternately, provide a replacement table with an editing instruction to replace Table 80-1.

Proposed Response

Response Status W

Comment Status D

PROPOSED ACCEPT IN PRINCIPLE.

See response to comment 15.

C/ 80 SC 80.1.3

P**48**

L16

40

Wienckowski, Natalie

General Motors

Comment Type E Comment Status D

It seems this is a note for the Editor on what they were supposed to do. When this is "rolled up" the changes aren't shown. I don't know if the intent was to show an updated drawing, or just to provide the changed text that would be in the drawing.

SuggestedRemedy

Change: "100GBASE-R, or 100GBASE-P, or 100GBASE-Z." with proper strike-out and underline.

To: 100GBASE-R(start underline), (end underline) or 100GBASE-P(start underline), or 100GBASE-Z(end underline)

Proposed Response

Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See response to comment 15.

C/ 80

SC 80.1.4

P48

/ 20

41

Wienckowski, Natalie

General Motors

Comment Type E Comment Status D

bucket

"Add" is not a proper editing instruction, you need to use "insert". When all the text shown is being inserted, it doesn't need to be underlined.

SuggestedRemedy

Change editing instruction to: Insert the following text as a new eight paragraph of 80.1.4 as follows:

Also, remove underline on text to be inserted.

Proposed Response

Response Status W

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

C/ 80

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SC 80.1.4

6/26/2020 3:12:59 PM

Cl 80 SC 80.1.4 P48 L27 # 42

Wienckowski, Natalie General Motors

Comment Type E Comment Status D bucket

The (Em dash) after the table number is not part of the table number and should not be included in the reference.

SuggestedRemedy

Remove the (EM dash) after Table 80-1 in the editing instruction. Look for this throughout the document, e.g. P49L3, etc.

Proposed Response Response Status W
PROPOSED ACCEPT

Cl 80 SC 80.1.4 P48 L36 # 87

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type TR Comment Status D

The description of the 100GBASE-ZR PHY does not describe the nature of the agreed upon PHY - which is that a 100GBASE-ZR PHY may support operation of a single DWDM link over 1 to 48 DWDM channels comprised of Tx and Rx signaling, where the abilities are defined for the device and selected by the users

SuggestedRemedy

Change description to -

100 Gb/s PHY using 100GBASE-R encoding capable of transmission over a specified channel on a defined DWDM grid in each direction of transmission with reach up to at least 80km (see Clause 154).

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion.

C/ 80 SC 80.1.5 P49 L3 # 43

Wienckowski, Natalie General Motors

Comment Type E Comment Status D bucket

Where is table 80-4a?

SuggestedRemedy

Insert the following in the editing instruction after Table 80-4a: (as inserted by IEEE Std 802.3cd-2018)

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 80 SC 80.1.5

P**49**

L23

90

Dambrosia, John

Futurewei, A U.S. Subsidiary of Huawei

Comment Type TR Comment Status D

The multiple optional AUIs and FEC will not be clear to the general user to easily figure out, plus defining the inverse RS-FEC sublayer as optional isn't really the best descriptor. It is more "conditional" meaning that its use is dependent on whether an optional 100GAUI-n is used. Providing more description here would make the standard more readable to the general user.

SuggestedRemedy

- 1) Modify note a to "O=optional, M=Mandatory, C=Conditional
- 2) change Clause 152 Inverse RS-FEC from M to C, and add an indicator for Note b in next to "C"
- 3) add note B Clause 152 inverse RS-FEC needed when deploying Clause 91 RS-FEC in combination with 100GAUI-n defined by 135D, 135E, 135F, or 135G
- 4) add similar note to Table 154-1

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion. See response to comment 66.

C/ 80 SC 80.1.5 P49 L24 # 66

Marris, Arthur Cadence Design Systems

Comment Type T Comment Status D

Is Clause 91 really an option?

SuggestedRemedy

Delete "O" from the 91 column or delete the column completely in Table 80-4b. Also consider deleting 91 row from Table 154-1

Proposed Response Status W

PROPOSED REJECT.

Clause 91 RS(544) FEC may optionally be used on the host side of the Chip-to-Module interface, paired with a Clause 152 Inverse RS FEC on the module side before the SC-FEC sublayer. The table is correct.

C/ 80 SC 80.2.2 P49 L33 # 77 C/ 80 SC 80.3.2 P51 L 20 # 58 Grow, Bob RMG Consulting Trowbridge, Steve Nokia Comment Type E Comment Status D bucket Comment Type ER Comment Status D The "..." appears in the wrong place - 3 occurrences in Figure 80-4a The base text and change marking is incorrect. SuggestedRemedy SuggestedRemedy There should be a strikethrough "and" before 100GBASE-P" and ", and 100GBASE-Z" Move "..." to be between lane 1 and lane 19 in both the Tx and Rx direction in the PMA should be underscore. service interface, and between lane 1 and lane 19 in the Rx direction in the FEC service interface Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 80 SC 80.2.4 P50 L5 # 10 C/ 80 P54 SC 80.5 / 1 # 44 Self Laubach, Mark Wienckowski. Natalie **General Motors** Comment Type Е Comment Status D bucket Comment Type E Comment Status D "Clause 83", "Clause 94", "Clause 135" and "Clause 153" should be forest green. The editing instruction says to change the table, but I don't see any underline or SuggestedRemedy strikethrough in the table to indicate changes. Make 'em forest green. SuggestedRemedy Proposed Response Response Status W Delete the editing instruction and table 80-7. PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. C/ 80 SC 80.2.4 P50 **L9** # 57 Trowbridge. Steve Nokia CI 82 SC 82.3.3 P56 L14 # 88 Comment Type T Comment Status D Dambrosia. John Futurewei. A U.S. Subsidiary of Huawei A clause 135 PMA may be used across the C2M interface (above the Inverse RS-FEC) in a Comment Type TR Comment Status D 100GBASE-ZR PHY type This note is specific to the mapping of 40GBASE-R PCS blocks. Editing it is not within SuggestedRemedy scope of the approved P802.3ct PAR. Change: SuggestedRemedy "Clause 135 specifies a PMA that may be used in other 100GBASE-P PHY types." these proposed changes should be deleted. "Clause 135 specifies a PMA that may be used in other 100GBASE-P or 100GBASE-ZR Proposed Response Response Status W PHY types." PROPOSED REJECT. Proposed Response Response Status W PROPOSED ACCEPT There is no substantive change to 40GBASE-R PHY-related specifications made by the P802.3ct project. The indicated change is an editorial "knock on" effect of the fact that

P802.3ct project. The indicated change is an editorial "knock on" effect of the fact that P802.3ct changes ITU-T G.709 from being a bibliographic reference to being a normative refence. Since P802.3ct moves the ITU-T G.709 reference from Annex A (bibliography) into the normative references in clause 1.3, the reference citations in the warning note in clause 82 need to be updated accordingly.

C/ 135A CI 83C SC 83C.4.1 P121 L34 # 126 SC 135A.3.1 P122 L36 # 127 Dawe, Piers Nvidia Dawe. Piers Nvidia Comment Type E Comment Status D Comment Type E Comment Status D Too much spacing Silly hyphenation. Inter-face would make sense, in-terface doesn't. SuggestedRemedy SuggestedRemedy Use left justification rather than full Set the minimum hyphenation fragment size to 3 (I thought that was done years ago), and make the left column wider. Proposed Response Response Status W Proposed Response Response Status W PROPOSED REJECT Unclear what the commenter is asking for. The format is consistent with other figures in PROPOSED ACCEPT IN PRINCIPLE. Annexes 83C and 135A. None are left justified. Implement the proposed remedy with editorial license C/ 135A SC 135A.3.2 P123 L26 # 125 C/ 131 SC 1.4.401a P22 / 40 # 133 Dawe, Piers Dawe. Piers Nvidia Nvidia Comment Type E Comment Status D bucket Comment Type T Comment Status D INTERFACEMMD State of polarization of what? SuggestedRemedy SuggestedRemedy Of an optical signal? optical transmitter? Insert the break Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. See response to comment 85, 131 and 132. C/ 139 SC 1.4.60a P22 / 14 Hajduczenia, Marek **Charter Communications** C/ 135A SC 135A.3.1 P122 / 35 # 134 Comment Type E Comment Status D bucket Dawe, Piers Nvidia is there any specific reason to capitalize "Black Link" and "Channel Spacing"? Comment Status D Comment Type T SuggestedRemedy There is no such thing as 100GBASE-Z/P. Do you mean 100GBASE-ZR? Or, 100GBASE-Z or 100GBASE-P? All other definitions use lower caps unless it is a propwer name. Consider dropping caps Is the BASE-P part for P802.3ck to add, not this project? Same for 1.4.237a/b/d (no need to capitalize Channel/Link/System) Why would Z come before P? Usually we go slow to fast, short to long, wide to narrow. Same for 1.4.401a - drop case SuggestedRemedy Proposed Response Response Status W Change to:100GBASE-Z, or change to: 100GBASE-P or 100GBASE-Z. Also in Figure PROPOSED ACCEPT IN PRINCIPLE. 135A-10. Change "Black Link" to "black link", change "Channel Spacing" to "channel spacing",

change "Channel" to "channel", change "Link" to "link", "System" to "system" and change "Polarization Dependent Loss" to "polarization dependent loss" throughout the document. Change "100GBASE-Z/P" to "100GBASE-P/100GBASE-Z" (consistent with Figure 83C-3)

Proposed Response

PROPOSED ACCEPT IN PRINCIPLE.

Response Status W

Cl 152 SC 152.1.1 P57 L13 # 89

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type E Comment Status D

This language is too far reaching - "used across a chip-to-chip or chip-to-module interface" . The spec cares about IEEE defined interfaces, not just chip-to-chip or chip-to module interface and a different FEC is used for the PMD."

SuggestedRemedy

Replaces "is used across a chip-to-chip or chip-to-module interface" with "is used with any physical instantiation of 100GAUI-n and a different FEC is needed for the intended PMD."

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "is used across a chip-to-chip or chip-to-module interface" to "is used across a physically instantiated 100GAUI-n"

C/ 152 SC 152.1.2 P58 L21 # 91

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type TR Comment Status D

A generic FEC block is used which is because there are different FECs may be used with different PHYs. The same is true for PMAs. Therefore these two sublayers are conditional based on phy type

SuggestedRemedy

For Fig 152-1, add note "1" next to FEC and PMA sublayers, add note that states "Conditional based on PHY type". See Fig 80-1 for reference of implementation of note. Also modify Figures 135A-9, 135A-10 in a similar fashion.

Proposed Response Response Status W

PROPOSED REJECT.

In the case of Figure 80-1 Note 1, the need for any FEC layer is indeed conditional based on PHY type, as certain 100GBASE-R PHYs don't use FEC. There is never a case where Inverse RS-FEC would be used that wouldn't insert a different FEC for the PMD. So the existence of a FEC sublayer below is not conditional, although there is a PHY type dependency regarding which FEC would be used (which is why the generic "FEC" is used rather than RS-FEC or SC-FEC). A similar practice is provided for the "PMA" which is a different PMA depending on the PHY type, but in the context of this sublayer, can just be referred to generically.

CI **152** SC **152.3.**7 P**68** L**3** # <u>26</u>

Slavick, Jeff Broadcom

Comment Type TR Comment Status D

In 91.5.2.7 it refers to tx_scrambled and am_txmapped, but in this Clause it's rx_scrambled and am_rxmapped.

SuggestedRemedy

Add the following after 91.5.2.7: "with the exception that the message symbols come from rx scrambled and rx ammapped."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Add a sentence at the end of sub-clause 152.5.3.7

Since the encoder is used in the receive direction of transmission, the message symbols come from rx scrambled and rx ammapped rather than tx scrambled and tx ammapped.

Cl 152 SC 152.5.1 P60 L44 # 11

Laubach, Mark Self

Comment Type E Comment Status D bucket

Suggest modifying the line beginning with "<ital>inst<ital>" for clarity.

SuggestedRemedy

Consider changing the beginning of the sentence to "Where <ital>inst<ital> is ". Then tighening up the spaces and horizontal centering for the line.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The style of the note follows that of other existing figures, e.g., Figure 83-5. Increase the amount of space between italicized "inst" and "PMA or FEC" to make it more obvious this is a one-entry variable list and not a sentence with a bit of extra space in it.

bucket

C/ 152 SC 152.5.2.3 P**61** L20 # 27 Slavick, Jeff Broadcom Comment Type TR Comment Status D The decoder is identical to clause 91 except for the variable that contains the data. State

that clearly.

SuggestedRemedy

Change "The Reed-Solomon decoder extracts the message symbols from the RS(544,514) codeword, corrects them as necessary, and discards the parity symbols. The message symbols correspond to 20 transcoded blocks tx_scrambled_See 91.5.3.3."

To: "The Reed-Solomon decoder implements the RS(544,510) FEC decoder described in 91.5.3.3 with the exception that message symbols come from tx scrambled."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "The Reed-Solomon decoder extracts the message symbols from the RS(544,514) codeword, corrects them as necessary, and discards the parity symbols. The message symbols correspond to 20 transcoded blocks tx scrambled. See 91.5.3.3."

To: "The Reed-Solomon decoder implements the RS(544.510) FEC decoder described in 91.5.3.3 with the exception that message symbols come from tx scrambled rather than rx scrambled."

C/ 152 SC 152.5.2.3 P61 L21 # 33

Nicholl, Shawn Xilinx

Comment Type TR Comment Status D

This sub-clause makes reference to 91.5.3.3, without indication of differences from 91.5.3.3.

SuggestedRemedy

91.5.3.3 (as amended by 802.3cd-2018) contains an optional 91.5.3.3.1 FEC Degraded SER. Propose to add a sentence to 152.5.2.3 saying "The optional sub-clause 91.5.3.3.1 is not supported for the Inverse RS-FEC sublayer".

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 152 SC 152.5.2.5 P61 L38 # 45

Wienckowski, Natalie General Motors

Comment Type E Comment Status D bucket

"as follows" should always be followed by ":". not "."

SuggestedRemedy

Change: as follows.

To: as follows:

Make this change throughout the draft.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Make the indicated change on P61L38, P61L44, P61L50, P62L22

C/ 152 SC 152.5.3.1 P65 L5 # 34

Nicholl, Shawn Xilinx

Comment Type ER Comment Status D bucket

Typo in concatenatiing

SuggestedRemedy

Replace "concatenatiing" with "concatenating"

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 152 P65 L16 # 114 SC 152.5.3.2

Hewlett Packard Enterprise Law. David

Comment Type E Comment Status D

Figure 82.14' should read 'Figure 82-14'.

SuggestedRemedy

See comment.

Proposed Response Response Status W

PROPOSED ACCEPT.

bucket

C/ 152 SC 152.5.3.5 P66 L**7** # 25 C/ 152 SC 152.5.3.8 P68 L5 # 29 Slavick, Jeff Broadcom Slavick, Jeff Broadcom Comment Type ER Comment Status D bucket Comment Type E Comment Status D bucket Missed a conversion from Tx to Rx. Capitlazation SuggestedRemedy SuggestedRemedy Change "rx coded c, from tx xcoded" to "rx coded c, from rx coded" Make the "D" in "Distribution" lowercase for the section title. Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT PROPOSED ACCEPT C/ 152 SC 152.5.3.6 P**67** # 46 C/ 152 SC 152.5.4.2.1 P70 L49 L35 # 119 Wienckowski. Natalie Law. David General Motors Hewlett Packard Enterprise Comment Type E Comment Status D bucket Comment Type E Comment Status D bucket Suggest that 'A variable set ...' should read 'A Boolean variable set ...'. Incorrect number format. SuggestedRemedy SuggestedRemedy Change: 16384 See comment. To: 16 384 (with a non-breaking space) Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 152 SC 152.6 P**72** L15 C/ 152 SC 152.5.3.7 P68 **L1** # 28 Marris. Arthur Cadence Design Systems Slavick, Jeff Broadcom Comment Type TR Comment Status D Comment Type E Comment Status D bucket Insert IFEC enable functionality that is currently specified in IEEE Draft P802.3ck/D1.2 Capitlazation SuggestedRemedy SuggestedRemedy Incoroporate the 802.3ck modifications to 152.6 and 45.2.1.186aa in 802.3ct. Also make it Make the "E" in "Encoder" lowercase for the section title. And the first sentence of the text so IFEC is enabled by setting the variable to one (not zero) "When the IFEC Enable in the section. variable is set to one, the Inverse RS-FEC sublaver performs the transmit function as specified in 152.5.2 and the receive function as specified in 152.5.3. When the variable is Proposed Response Response Status W set to a zero, the transmit and receive functions are disabled, and the Inverse RS-FEC PROPOSED ACCEPT sublayer is bypassed," Proposed Response Response Status W PROPOSED REJECT. P802.3ct is ahead of P802.3ck in the process, and will likely be approved first. In the context of P802.3ck, clause 152 IFEC would always be back-to-back with clause 161 interleaved FEC, and both sublavers would be enabled or disable as a pair. In the context of P802.3ct, there is no case where the Inverse RS-FEC sublayer can ever be (or ever needs to be) disabled, and in fact this would make no sense as this would feed the

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

C/ 152 SC 152.6

RS(544) format directly to the clause 153 SC-FEC sublayer. P802.3ck can add this

configurability to the mechanism produced by P802.3ct when needed.

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C/ 153 SC 153.1.2 P80 L35 # 47 Wienckowski. Natalie General Motors Comment Type E Comment Status D bucket Why is AN in the list of acronyms for the Figure when AN isn't used in the Figure? If it's in the Figure and I missed it, NEGOTATION should be NEGOTIATION. SuggestedRemedy Delete: AN = AUTO-NEGOTATION Proposed Response Response Status W PROPOSED ACCEPT. C/ 153 SC 153.2.1 P80 L50 # 120 Law. David Hewlett Packard Enterprise Comment Type Е Comment Status D bucket Suggest that '... information to and from the FEC.' should read '... information to and from the SC-FEC.'. SuggestedRemedy See comment. Proposed Response Response Status W PROPOSED ACCEPT. C/ 153 SC 153.2.1 P80 L50 # 121 Hewlett Packard Enterprise Law, David Comment Type T Comment Status D bucket Can't the sublayer 'above' the SC-FEC also be an Inverse RS-FEC (see Figure 152-1) or a PMA (see Figure 83C-8 as well as Page 81, Line 7)?

SuggestedRemedy

[1] Page 80, line 50 that '... the PCS to ...' should be change to '... the PCS, Inverse RS-FEC, or PMA to ...'.

[2] Page 81, line 7 that '... the PCS or PMA ...' should be change to '... the PCS, Inverse RS-FEC, or PMA ...'.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 153 SC 153.2.3.2.4 P83 L20 # 31

Slavick, Jeff Broadcom

Comment Type TR Comment Status D

No Annex which provides a sample FEC frame is provided like 91A and 119A

SuggestedRemedy

Add an Annex that provides a sample SC-FEC frame

Proposed Response Response Status W

PROPOSED REJECT.

Insufficient remedy proposed. Commenter is invited to submit proposed text for the type of Annex envisioned.

A challenge is that the FEC codewords for RS(528,514) is 5280 bits, and for RS(544,514) are 5440 bits, whereas a FEC codeword for SC-FEC is 261120 bits, so it is less clear that a text sequence of numeric values for a full FEC codeword is meaningful or useful for the reader

While test vectors are known to exist for this FEC code, none are currently published in a place where they can be referenced.

G.709.2, which is referenced, provides significant detail on the structure of the code, the way the block interleavers work, and the permutation factor tables.

Cl 153 SC 153.2.3.2.4 P83 L43 # 30

Slavick, Jeff Broadcom

Comment Type TR Comment Status D

Is the pattern supplied sent Left to right or Right to left or first field (sent R to L) followed by 2nd field (sent R to L)

SuggestedRemedy

Add statement to 1) which defines the order the bits are transmitted.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

While it is normally the convention that when written in binary form that the bits would be transmitted left to right, change:

"The FAS is the following fixed bit pattern:"

to

"The FAS is the following fixed bit pattern, transmitted left to right:"

Cl 153 SC 153.2.3.2.4 P83 L51 # 124

Law, David Hewlett Packard Enterprise

Comment Status D

bucket

Suggest that the abbreviations 'GMP OH' used in Figure 153-3 'SC-FEC frame' should be referenced here.

SuggestedRemedy

Comment Type E

Suggest the text 'The GMP mapping overhead is encoded ...' should be changed to read 'The GMP mapping overhead (GMP OH) is encoded ...'.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 153 SC 153.2.3.2.4 P84 L9 # 123

Law, David Hewlett Packard Enterprise

Comment Type E Comment Status D

Subclause 10.5.1 'Citation as a normative reference' of the IEEE-SA Standards Style Manual says 'Note that in-text reference to a specific clause, subclause, table, or figure of another document shall be dated even if the undated version of the document is listed in the normative references.'.

SuggestedRemedy

Please provide a dated reference for '... ITU-T G.709 Clause 19.4.3.2.'

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "ITU-T G.709" to "ITU-T G.709 (06/2020)"

CI 153 SC 153.2.3.2.4 P85 L13 # 122

Law, David Hewlett Packard Enterprise

Comment Type T Comment Status D

The middle row of Table 153-1 'Encoding of GMP words in next SC-FEC frame' shows the encoding of 'GMP words' in a 188 GMP word frame when the next frame is 189 GMP word frame.

The text on page 85, lines 13-14 says when the current frame is a 189 GMP word frame, and the next frame is 188 GMP word frame 'This is signaled by inverting all of the even-numbered C bits (C12, C10, C8, C6, C4, C2, C0) from the value in the previous frame, setting the decrement indicator (DI bit) to one, and setting the increment indicator (II bit) to zero.'.

As two consecutive 189 GMP word frames cannot occur (see page 84 line 50-51), the text on page 85, lines 13-14 must be applied to middle row of Table 153-1 as the previous frame has to have been a 189 GMP word frame following a 188 GMP word frame.

If this is the case bit C0 is a '0' in the previous frame and, therefore, if inverted as described by the text on page 85, lines 13-14, there should be a '1' for C0 in the last row or Table 153-1. It's also doesn't seem clear from page 85, lines 13-14 what to do with the odd numbers C bits.

It seems that the C bits in this case are calculated based on the number of words in the next frame, then replacing the even-numbered C bits with the inverse of their value from the previous frame.

SuggestedRemedy

Clarify the description of the C bits if required.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

On page 85 line 12, change:

"inverting all of the even-numbered C bits (C12, C10, C8, C6, C4, C2, C0) from the value in the previous frame"

to

"inverting all of the even-numbered C bits (C12, C10, C8, C6, C4, C2, C0) from the numeric value of GMP words filled in the previous frame (189)"

As clarification (this part not affecting the text), you are flipping even numbered bits of the fill value, even though in this case, the previous frame signals that fill value by signaling an increment indicator from 188 rather than actually showing the value 189 which persists for a single frame.

C/ 153 SC 153.2.3.2.4 P85 L46 # 103 C/ 153 SC 153.2.3.3.1 P87 L47 # 56 Maniloff, Eric Ciena Trowbridge, Steve Nokia Comment Type Т Comment Status D bucket Comment Type TR Comment Status D The frame alignment process encounters false loss of lock too frequently, as described in The text reads "whose fill level varies depending on whether 188 or 189 GMP words are filled in a given SC-FEC frame." should trowbridge 01 200528 presented in the 28 May 2020 interim Task Force Conference call. include that the fill level varies with the clock offset of the 100GBASE-R signal. SuggestedRemedy SuggestedRemedy Implement the remedy described in trowbridge 01a 200611 to the 11 June 2020 Interim Modify text to read "whose fill level varies with the clock offset of the incoming 66B blocks Task Force call. Note that this remedy includes a change to the Bibliography (Annex A) as well as to clause 153 depending on whether 188 or 189 GMP words are filled in a given SC-FEC frame." Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 153 SC 153.2.3.3.4 P88 L20 # 115 P87 # 51 C/ 153 SC 153.2.3.2.7 L33 Hewlett Packard Enterprise Law, David Wienckowski. Natalie General Motors Comment Type E Comment Status D bucket Comment Type E Comment Status D bucket Suggest that '0x1e' should be '0x1E', See figure 82-5. missing "be" verb SuggestedRemedy SuggestedRemedy See comment. Change: first 16 octets of the FEC frame distributed Proposed Response Response Status W To: first 16 octets of the FEC frame are distributed PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. C/ 153 SC 153.2.4.1.1 P89 L15 # 52 For consistency with the rest of the paragraph, change: Wienckowski. Natalie General Motors "first 16 octets of the FEC frame distributed" To: Comment Type E Comment Status D bucket "first 16 octets of the FEC frame is distributed" inconsistent/incorrect use of true/false & True/False throughout this subclause P87 L35 # 54 C/ 153 SC 153.2.3.2.7 SuggestedRemedy Wienckowski, Natalie When describing the states of a Boolean variable use "TRUE" and "FALSE". General Motors Comment Type E Comment Status D bucket Proposed Response Response Status W wrong "dash" type PROPOSED ACCEPT. SuggestedRemedy Change the "En dash" after "NOTE" to an "EM dash" Also P94L44, P95L30

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/ 153 SC 153.2.4.1.1 P89 L34 # 113 C/ 153 SC 153.2.4.4 P91 L27 # 117 Law. David Hewlett Packard Enterprise Law. David Hewlett Packard Enterprise Comment Type T Comment Status D bucket Comment Type E Comment Status D Suggest that 'A variable set ...' should read 'A Boolean variable set ...'. Typo, the assignment '... <= current fecll' in state COUNT NEXT of Figure 153-7 should read '... <= current fecl'. SuggestedRemedy SuggestedRemedy See comment. See comment. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT PROPOSED ACCEPT IN PRINCIPLE. Overtaken by events. This is fixed in the reviewed text proposal reviewed in the 11 June P90 L13 C/ 153 SC 153.2.4.1.1 # 112 2020 Interim Task Force call. See comment #56 Law. David **Hewlett Packard Enterprise** C/ 153 SC 153.2.4.4 P91 / 41 # 118 Comment Type Е Comment Status D bucket Law, David Hewlett Packard Enterprise Booolean ... 'should read 'Boolean ... '. Comment Type T Comment Status D SuggestedRemedy The variable FEC lane mapping<x> assigned the value fec lane in the state 2 GOOD of See comment. Figure 153-7 is not defined in subclause 153.2.4.1.1 'Variables'. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Add a definition of the variable FEC lane mapping < x > to subclause 153.2.4.1.1 'Variables'. C/ 153 SC 153.2.4.4 P91 L7 # 116 Proposed Response Response Status W Law. David Hewlett Packard Enterprise PROPOSED ACCEPT IN PRINCIPLE Add: Comment Type T Comment Status D FEC lane mapping<x> States COUNT 2 and COUNT NEXT in Figure 153-7 'SC-FEC synchronization state This variable indicates which FEC lane is received on lane x of the PMA service interface diagram' include the action 'start fas counter'. Subclause 153.2.4 'Detailed functions and when fas lock<x>=TRUE, where x=0:19. state diagrams' states that 'The notation used in the state diagrams follows the conventions of 21.5. The notation ++ after a counter or integer variable indicates that its value is to be C/ 153 SC 153.2.32.4 P84 L16 incremented.'. Neither this subclause, nor the referenced subclause 21.5, defines a start Wienckowski. Natalie **General Motors** action for a counter, and what it means Comment Type E Comment Status D bucket SuggestedRemedy missing spaces Change 'start fas counter' to read 'fas counter <= 0' in both the States COUNT 2 and COUNT NEXT states. SuggestedRemedy Change: 255/227 Proposed Response Response Status W To: 255 / 227 PROPOSED REJECT.

Proposed Response

PROPOSED ACCEPT

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

fas counter works differently than some other counters that increment as you go through a

state multiple times (e.g., fas bad count increments each time you cycle through the

When you "Start fas_counter", you remain in that state until "fas_counter_done" is true, which is after you have counted off 16320 octets until the next place you expect to find the FAS. I propose not to add explicit loops that show incrementing fas counter until you get

INVALID FAS state).

to the value 16320.

C/ **153** SC **153.2.32.4**

Response Status W

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C/ 153 SC 153.2.32.4 P86 L3 # 49 C/ 153 SC 153.3.2.3.1 P95 L24 # 59 Wienckowski, Natalie General Motors Trowbridge, Steve Nokia Comment Type T Comment Status D bucket Comment Type E Comment Status D math error. If this is not a math error, please explain how 3 can be the correct answer. The encoder (clause 153.3.2.2.2) does the math and gives a number (not just a formula) for the top-line baud rate, but the equivalent decoder section does not. SuggestedRemedy SuggestedRemedy Change: 75 + 12 - 80 = 3Add the approximate top-line baud rate (~27.9525 GBd) after the formula. To: 75 + 12 - 80 = 7Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 153 SC 153.2.32.4 P86 L29 # 50 C/ 153 SC 153.3.2.3.2 P95 L34 # 102 Maki, Jeffery Wienckowski. Natalie General Motors Juniper Networks Comment Type E Comment Status D bucket Comment Type ER Comment Status D missing spaces Sub-clause is self referencing. Reference to 153.3.2.3.2 is erroneous. SuggestedRemedy SuggestedRemedy Change: 512×510 Replace 153.3.2.3.2 with 153.3.2.2.2. To: 512 × 510 Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Replace 153.3.2.3.2 with 153.3.2.2.1 C/ 153 SC 153.3.1 P93 L49 # 53 C/ 154 SC .2 P101 L28 # 111 John, DeAndrea Finisar / II-VI Wienckowski. Natalie **General Motors** Comment Type E Comment Status D Comment Type E Comment Status D bucket The black leni with amplifiers will result in power levels greater than -30 dBm at TP3. See missing spaces contribution "deandrea 3ct 01 June 11 2020 Rev 0.4.pdf" SuggestedRemedy SuggestedRemedy Change: 255/227 Add addtioanl statement in the note: " Black links with optical amplifiers will result in To: 255 / 227 average power exceeding -30 dBm when transmit is in the "OFF" state, a implimentations Also on line P93L51, P94L38, P94L53, P95L24 should take this condition into account" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED REJECT. The section for which the modification is proposed is generic and adding details of this level, even is a note, is not appropriate. See also resolution to comment #69, which is more specific on the details of the definition of SIGNAL DETECT.

C/ 154 SC 5.4 P104 L43 # 110 C/ 154 SC 154.1 P99 **L8** # 82 John, DeAndrea Finisar / II-VI Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei Comment Type Comment Status D Comment Type ER Comment Status D The use of optical amplifiers ion the black link create addtional noise conditions for this The term "coherent" only appears 2x in D2.0 of P802.3ct, its use in this sentence is not PMD type. helpful -"The optical signal generated by this PMD type is modulated using a dual polarization SuggestedRemedy differential quadrature phase shift keying (DP-DQPSK) format suitable for reception by a Add the following to the note ", optical amplifier noise in the Black Link, etc." coherent optical receiver." Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT IN PRINCIPLE. See resolution to comment #69. Replace this sentence with The optical signal generated by this PMD type is modulated using a dual polarization C/ 154 SC 154.1 P99 L7 # 92 differential quadrature phase shift keying (DP-DQPSK) format. Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei Proposed Response Response Status W Comment Type E Comment Status D PROPOSED ACCEPT IN PRINCIPLE. Wording can be improved. For task force discussion. SuggestedRemedy SC 154.2 C/ 154 P101 L15 This clause specifies the 100GBASE-ZR PMD together with the associated medium, which is a single-mode fiber based DWDM channel which may contain one or more optical Trowbridge, Steve Nokia amplifiers and is.described in the form of a black link (see 154.6). Comment Status D Comment Type E Bucket Proposed Response Response Status W The number cited (27.9525 Gbd) is not an exact nominal value. Same issue in the next PROPOSED ACCEPT IN PRINCIPLE. paragraph. SuggestedRemedy For task force discussion.

The corresponding PMA clause uses the exact formula and an approximate nominal: (255/227)x24.8832 Gbd (~27.9525 Gbd).

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Implement the proposed remedy with editorial license.

CI 154 SC 154.5.4 P104 L32 # 104

Maniloff, Eric Ciena

Comment Type T Comment Status D

For the OSNR allowed by this specification, the integrated noise power after the demux may be only ~7dB lower than the signal power. As such a note in Table 154-5 indicating that SIGNAL_DETECT may not be a reliable indicator of the optical signal if average power detection is used should be added.

SuggestedRemedy

Add note to Table 154-5 indicating "For amplified systems using average power for Signal Detect, the Signal Detect value may not indicate FAIL when the Optical Signal is below its specified threshold in Table 154-9"

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For TF discussion.

Comment Type

See resolution to comment #69.

Т

CI 154 SC 154.5.4 P104 L32 # 69

Comment Status D

Stassar, Peter Huawei

The signal_detect level of -30 dBm at TP3 is too low in the presence of optical noise (ASE) due to the presence of one (or more) optical amplifier(s) inside the black link. In order to get a sufficiently reliable signal_detect level in the case of amplified operation, this threshold should be increased to -23 dBm, which is still sufficiently below the Minimum average input power [amplified] of -16 dBm specified for the amplified operation. On the other hand for unamplified operation, being a side application supported by this specification, a signal_detect level of -30 dBm is right on the level of Minimum average input power [unamplified] of -30 dBm and therefore too high for the unamplified operation. Defining a single signal_detect level appropriate for both amplified and unamplified operation is therefore not possible. Because the amplified operation is the "normative"

application consistent with the agreed objective of 80 km, this specification needs to focus

on that application. A suitable signal detect in an unamplified application should be

SuggestedRemedy

addressed in a note.

In Table 154-5 modify the signal_detect level of -30 dBm to -23 dBm and address unamplified operation in a Note, with content TBD, pending further discussion

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For Task Force discussion.

C/ **154** SC **154.5.4** P**104** L**32** # 105

Maniloff, Eric Ciena

Comment Type T Comment Status D

Rather than Optical Power the Receive Condition should refer to Signal Power

SuggestedRemedy

Change "Average Optical" to "Optical signal"

Proposed Response Response Status W

PROPOSED REJECT.

The commenter has made insufficiently clear why changing "average optical power" to "optical signal power" resolves the issue, also raised in other comments, on SIGNAL DETECT and how this would improve the quality of the draft.

See also resolution to comment #69

Cl 154 SC 154.5.4 P104 L32 # 79

Schmitt, Matt CableLabs

Comment Type T Comment Status D

Table 154-5 sets a requirement that if the Average optical power at TP3 is less than or equal to -30 dBm, the SIGNAL_DETECT value must be set to FAIL. Since that is the same as the required lower threshold for receiver sensitivity, there is no margin for any inaccuracies in the receiver power meter. Further, it prohibits a receiver from exceeding the requirement for sensitivity, since all values less than -30 dBm must be marked as FAIL, even if the receiver can decode them successfully. Setting this value lower will provide some margin and permit implementations that exceed the minimum requirement.

SuggestedRemedy

In the first row of Table 154-5, change "-30 dBm" to "-32 dBm".

Proposed Response Status W

PROPOSED REJECT.

The commenter addresses an issue related to unamplified operation of the interface not satisfying the objective of "operation on a single wavelength capable of at least 80 km over a DWDM system".

Lowering the threshold of SIGNAL_DETECT to -32 dBm will not address the issue of the presence of noise from optical amplifiers inside a black link meeting the requirements from the project objective, an issue which is raised in other comments.

See also resolution to comment #69.

CI 154 SC 154.5.4 P104 L43 # 80

Schmitt, Matt CableLabs

Comment Type T Comment Status D

As pointed out in deandrea_3ct_01_200611, when an optical amplifier (EDFA) is a part of the black link, the noise floor could be amplified above the power threshold for signal detect. To account for that, while not mandatory, an implementer may wish to consider the presence of a valid 100GBASE-R signal in determining whether or not to set the SIGNAL_DETECT value to OK. Some additional text to point that out could be helpful for implementers.

SuggestedRemedy

At the end of the 3rd paragraph in 154.5.4, add an additional sentence that reads: "In addition, as the presence of optical amplifiers in the black link could raise the noise floor above the value of minimum average input power [unamplified] in Table 154-9, implementations may wish to consider the presence of a compliant 100GBASE-R signal in determining the setting of the SIGNAL DETECT value.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE. See resolution to comment #69.

Cl 154 SC 154.6 P105 L36 # 94

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type E Comment Status D

This setence does not adequately describe the operation of the 100GBASE-ZR PMD - This subclause provides details of the medium associated with the 100GBASE-ZR PMD, over which the PHY operates at a single optical frequency (often also referred to by its associated wavelength) on a defined frequency grid.

Given the differences between 100GBASE-ZR and 400GBASE-ZR in respect to the channel spacing, this should be clearly called out.

SuggestedRemedy

Replace sentence -

This subclause provides details of the medium associated with the 100GBASE-ZR PMD, over which the PHY operates at a single optical frequency (often also referred to by its associated wavelength) on a defined frequency grid.

With

This subclause provides details of the medium associated with the 100GBASE-ZR PMD, over which the PHY operates at a single optical frequency (often also referred to by its associated wavelength) on a defined frequency grid consisting of 48 channels based on a 100 GHz center channel spacing specified in Table 154-6.

Proposed Response Status W

PROPOSED REJECT.

The sentence in the referenced paragraph provides some generic information and details on number of channels and spacing is not improving the quality of the draft at this point of 154.6.

100GBASE-ZR and 400GBASE-ZR do have a different channel spacing which is one of the parameters addressed in the subclause on 154.7 for 100GBASE-ZR and the choice of frequencies are addressed in the third paragraph of 154.6.

See also resolution to comment #95, where channel spacing is addressed.

Cl 154 SC 154.6 P105 L36 # 98

Lumentum

Comment Type E Comment Status D

Bucket

The formatting of text in 154.6 and 154.7 appears different to the other clauses. Perhaps tighter line spacing or a different font size.

SuggestedRemedy

Check and change the style to match the rest of the clause.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Implement remedy with editorial license.

Cl 154 SC 154.6 P105 L38 # 96

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type TR Comment Status D

The use of the term "channel" in IEEE 802.3 can be confusing to some based on their point of reference, as it sometimes refer to the medium between the Tx and Rx. In the case of P802.3ct, it is used to describe both the medium between the tx and rx, as well as in reference to the frequency of the optical wavelength (i.e. channel index number, channel center frquency, approximate channel center wevelength).

SuggestedRemedy

change

The medium associated with the 100GBASE-ZR PMD is also referred to as a DWDM channel

which is defined as the transmission path over a single wavelength/frequency on a defined frequency

grid between a DWDM PHY transmitting to another DWDM PHY.

To

The medium associated with the 100GBASE-ZR PMD is also referred to as a DWDM channel

which is defined as the transmission path over a single wavelength/frequency (referred to either by Channel Index Number or Channel Center Frequency) on a defined frequency grid between a DWDM PHY transmitting to another DWDM PHY.

Proposed Response

Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion.

Cl 154 SC 154.6 P105 L39 # 97

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type TR Comment Status D

The definition in the body of the text for DWDM Channel is

"the transmission path over a single wavelength/frequency on a defined frequency grid between a DWDM PHY transmitting to another DWDM PHY."

This does not match the definition in 1.5.237a.

SuggestedRemedy

Replace definition in 1.4.237a with the noted definition that was in the body of the text.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE

For task force discussion.

C/ 154 SC 154.6 P106

Laubach, Mark Self

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

The grey shaded box in Figure 154-3 is confusing. Should be removed, less grey, and/or labeled as "black link"?

L8

12

SuggestedRemedy

Editor's choice to amend for clarity.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Add a note to clarify the grey box in Figure 154-3, to indicate that this part of the specification is outside the scope of this clause and the details inside the box are only shown as an example to provide some information.

With editorial license.

C/ 154 SC 154.6 P106 L31 # 95

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type TR Comment Status D

There is no requirement for a 100GBASE-ZR PHY to support all 48 channels. Additionally, it is not noted that a user needs to configure a 100GBASE-ZR Tx with a 100GBASE-ZR Rx, which support the same channel index numbers.

SuggestedRemedy

Add sentence at end of paragraph -

A 100GBASE-ZR PHY implementation may support 1 to 48 channel frequencies over a DWDM system. Configuration of a DWDM link with a 100GBASE-ZR Tx and Rx to support the same channel frequency is necessary.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

It is proposed to modify the last sentence of the third paragraph (under Figure 154-3) "The 100GBASE-ZR PMD specification covers a maximum of 48 channels over a DWDM system, supporting between 1 and 48 channels."

to

"The 100GBASE-ZR PMD specification covers a maximum of 48 channels over a DWDM system, supporting between 1 and 48 channels, with a channel spacing of at least 100 GHz."

Furthermore add an additional sentence to the end of the third paragraph of 154.6 "It may be necessary to configure the combination of 100GBASE-ZR Tx, the associated DWDM link and a 100GBASE-ZR Rx to support the same channel frequency."

C/ 154 SC 154.6 P107 L32 # 13 Laubach, Mark Self Comment Type E Comment Status D Bucket Missing cross reference SuggestedRemedy Both occurences of "Table 154-6" in this paragraph should be a cross reference. Proposed Response Response Status W PROPOSED ACCEPT

C/ **154** SC **154.7** P**107** L # 68
Stassar, Peter Huawei

Comment Type ER Comment Status D

Several of the parameter namings are not consistent with previously used conventions and should therefore be modified. This has already been discussed during the TF interim teleconference meeting on 11 June 2020 as shown in

http://www.ieee802.org/3/cw/public/tf_interim/20_0611/stassar_3cw_01_200611.pdf. In this context it is strongly desirable to use consistent naming between 100GBASE-ZR and 400GBASE-ZR draft specifications

SuggestedRemedy

Implement the changes as proposed in

http://www.ieee802.org/3/cw/public/tf_interim/20_0611/stassar_3cw_01_200611.pdf, except "Average receive power [amplified] (max)" which should be "Average receive power [amplified] (min)"

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE. For TF discussion and agreement.

C/ 154 SC 154.7.1 P108 L24 # 106

Maniloff, Eric Ciena

Comment Type E Comment Status D

1000 kHz = 1 MHz

SuggestedRemedy

Replace 1000 kHz with 1 MHz

Proposed Response Response Status W

PROPOSED REJECT

It is common in the optical industry to express transmitter line width in kHz instead of MHz

C/ 154 SC 154.7.1 P108 L31 # 141

Dawe, Piers Nvidia

Comment Type T Comment Status D

An EVM limit is like 802.3cd's clumsily named TDECQ-10.log10(Ceq), which is sometimes called K. It's a good thing to have but with a 7-spaced T-spaced equalizer, remarkably slow signals are possible that cause a large noise enhancement penalty. Has this been investigated and bounded?

Do you want to require all transmitters or receivers that work in practice with reasonable transmitter speeds to carry the burden of having to work with such super-slow but EVM-compliant signals?

SuggestedRemedy

Consider adding the equivalent of a TDECQ limit in the EVM method. Consider an average power - TDECQ substitute if the range of good to bad is very large.

Proposed Response Response Status W

PROPOSED REJECT.

The commenter has not demonstrated that the current specification is broken or incomplete. The comment is speculative and also written in the form of a question to the Task Force. Furthermore the remedy does not contain a specific proposal to modify the draft in such a way that it would improve it on the basis of evidence provided.

CI 154 SC 154.7.1 P108 L33 # 17

Issenhuth, Tom Huawei

Comment Type E Comment Status D Bucket

The placement of the "a" footnote marker is incorrect

SuggestedRemedy

Move the location of the footnote marker to after (193.6).

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Implement proposed remedy.

Also move location of (min) for "Fiber dispersion slope (min) (S0)" in Table 154-10 to after "(S0)"

C/ 154 SC 154.7.1 P108 L33 # 107

Maniloff, Eric Ciena

Comment Type E Comment Status D Bucket

OSNR Units should be dB / .1nm

SuggestedRemedy

change unit column to dB (0.1nm)

Proposed Response Status W

PROPOSED ACCEPT.

C/ 154 SC 154.7.1 P108 L38 # 108

Maniloff, Eric Ciena

Comment Type T Comment Status D

Note a applies to both amplified and unamplified systems. For design of the black link, it is necessary to know the input signal power and OSNR in order to ensure the Rx OSNR requirement is met.

SuggestedRemedy

Remove footnote a entirely.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For Task Force discussion

C/ 154 SC 154.7.3 P109 L44 # 109

Maniloff, Eric Ciena

Comment Type T Comment Status D

S_0 often refers to the Slope of the Chromatic Dispersion at the Zero Dispersion Wavelength. I believe this parameter refers to the minimum dispersion in the operating wavelength range. Also, "Fiber dispersion" doesn't align with other specs for chromatic dispersion.

SuggestedRemedy

Change Description to "Minimum chromatic dispersion slope in operating wavelength range"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For TF discussion

Could be addressed by removing "S0"

Cl 154 SC 154.8.16 P112 L46 # 140

Dawe, Piers Nvidia

Comment Type TR Comment Status D

While G.698.2 gives the concept of receiver OSNR tolerance and says what's in and what's out, it is normal in Ethernet optical PMD specifications to have a more specific definition "Stressed receiver sensitivity" to avoid ambiguity and give an example of how one might actually assure that a receiver complies. I don't see why this PMD should not need it too. Writing the stressed receiver sensitivity section can be painful because it makes one clarify what one means - it's where the rubber hits the road.

SuggestedRemedy

Add a stressed receiver sensitivity section, following other clauses

Proposed Response Response Status W

PROPOSED REJECT.

The commenter has not demonstrated that the current specification is broken or incomplete and not demonstrated that adding a definition and specification of "stressed receiver sensitivity" would improve the quality of the draft.

Furthermore the remedy does not contain a specific proposal to modify the draft in such a way that it would improve it on the basis of evidence provided.

The commenter is invited to develop a detailed proposal for stressed receiver sensitivity with evidence that adding such a requirement will improve the quality of the draft.

Cl 154 SC 154.8.16 P112 L48 # 136

Dawe, Piers Nvidia

Comment Type E Comment Status D Bucket

this Clause

SuggestedRemedy

this clause

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 154	SC 154.8.21	P 113	L18	# 99	C/ 154	SC 154.9.1	P 113	L 25	# 78
Lewis, David Lumentum				<u></u>	Grow, Bob RMG Consulting				
Comment Type E Comment Status D The font is in italics.				Bucket	Comment Type E Comment Status D This text differs from P802.3cr, 150.9.1.				
SuggestedRemedy Change to the same style as other sub-clauses.					SuggestedRemedy Replace sentence with; "All equipment subject to this clause shall conform to J.2."				
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See resolution to comment #14					Proposed Response Response Status W PROPOSED REJECT. Changing the relevant sentence does not improve the quality of the draft. The current sentence is also used in P802.3cu D2.2				
C/ 154	SC 154.8.21	P 113	L18	# 135	C/ 154	SC 154.10			# 00
Dawe, Pier	rs	Nvidia					P114	L43	# 23
Comment Type E Comment Status D				Bucket	Issenhuth,	•	Huawei		
Is there a reason that this sentence is in italics?					Comment Type E Comment Status D Bucket				
SuggestedRemedy Update sentence if necessary; change to upright					IEC 6 ² 2018	1753-1-1 has bee	en withdrawn and superseede	ed by IEC 61750	3-1 Edition 2.0 August 1,
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See resolution to comment #14					SuggestedRemedy Change to IEC 61753-1				
					C/ 154	SC 154.8.21	P113	L18	# 14
Laubach, N		Self		"	C/ 154	SC 154.11.4.	2 P117	L 26	# 55
Comment 7		Comment Status D		Bucket	Wienckow	ski, Natalie	General Moto	ors	
Text is mis-formatted as italic.			Comment	Type E	Comment Status D		Bucket		
SuggestedRemedy					Wrong support options for a Mandatory item for an optional feature. In this case the choices should be Yes and N/A.				
Change to regular, non-italic text.					Suggested	lRemedy			
Proposed F	•	Response Status W			Chang	je: No			
PROPO	POSED ACCEPT.				To: N Also P				
					Proposed	Response	Response Status W		
					PROP	OSED ACCEPT			

C/ 154 SC 154.11.4.3 P118 L6 # 16 Issenhuth, Tom Huawei Comment Type E Comment Status D Bucket The table is for "PMD to MDI optical specifications for 100GBASE-ZR" but the entries are duplicates of the first 2 lines of the previous table SuggestedRemedy Modify the table to include the proposed values per D1.2 comment 125. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Implement remedy with editorial license. C/ 154 SC 154.11.4.6 P119 **L1** # 128 Dawe, Piers Nvidia Comment Type Ε Comment Status D **Bucket** Blank Link SuggestedRemedy black link Also, to match the rest of the document, Black Link requirements should be Black link requirements Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change "Black Link" to "Black link" C/ 154 SC 154.11.4.6 P119 L8 # 24 Issenhuth. Tom Huawei Comment Type E Comment Status D IEC 61753-1-1 has been withdrawn and superseeded by IEC 61753-1 Edition 2.0 August 1, 2018 SuggestedRemedy Change to IEC 61753-1 Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 154 SC 154.11.4.6 P119 L9 # 100

Lewis, David Lumentum

Comment Type T Comment Status D Bucket Item OC2 references IEC 61753-1-1, which has been withdrawn and replaced by IEC 61753-1: 2018.

SuggestedRemedy

Change the first reference to IEC 61753-1.

Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.

See resolution to comment #24