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 Status W
PROPOSED ACCEPT.

CI 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 A 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 Response Response Status C ACCEPT IN PRINCIPLE. See response to comment 1. P12 Location is page 2 not page 21. Change second sentence in abstract to: "This amendment C/ 00 SC 0 / 36 adds 100 Gb/s Physical Layer specifications and management parameters for operation Lewis. Jon Dell FMC over DWDM systems using a combination of phase and amplitude modulation with Comment Type E Comment Status D coherent detection for reaches of at least 80 km." bucket Add IEEE std 802.3cr information C/ 00 SC 0 P0L 0 # 2 SuggestedRemedy Haiduczenia. Marek **Charter Communications** Add "IEEE Std 802.3crTM-20xx Comment Type E Comment Status D bucket This amendment includes changes to IEEE Std 802.3-2018 and adds Annex J. This Wrong copyright year amendment replaces references to the IEC 60950 series of standards (including IEC 60950-1 SuggestedRemedy "Information technology equipment—Safety—Part 1: General requirements") with 2019 is gone, please use 2020 appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and makes appropriate changes to the standard Proposed Response Response Status W corresponding to the new references," and align with expected publication order. PROPOSED ACCEPT. Proposed Response Response Status W SC 0 P1 PROPOSED ACCEPT IN PRINCIPLE. C/ 00 L27 # 8 Lewis, Jon Dell EMC See response to comment 74. Align with expected publication order. Comment Type E Comment Status D bucket C/ 1 SC 1.4 P22 L17 # 101 Missing IEEE Std 802.3cr-202x in the list Maki, Jeffery Juniper Networks SuggestedRemedy Comment Type E Comment Status D bucket Add "IEEE std 802.3cr-202x" and align the list with the anticipated order of publication. Italic comment text Insert the following new definition after 1.4.181 "channel insertion loss": Proposed Response Response Status W and text below referres to the wrong sub-cluase of IEEE Std 802.3-2018. PROPOSED ACCEPT. 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 7/30/2020 10:25:23 AM

C/ 1 SC 1.4 P22 L34 # 93

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

Comment Type ER Comment Status A

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.

Response Response Status C

ACCEPT IN PRINCIPLE.

Change definition of 1.4.237d DWDM System to

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

C/ 1 SC 1.4 P22 L37 # 75

Grow. Bob RMG Consulting

Comment Status D Comment Type Ε

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 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 A

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 keving (DQPSK) modulation. (See IEEE Std 802.3, Clause 154.)

Response Response Status C

ACCEPT IN PRINCIPLE.

Replace current definition with -"An IEEE 802.3 family of Physical Layer devices using 100GBASE-R encoding, a combination of phase and amplitude modulation, and coherent detection."

C/ 1 SC 1.4.35b P22 **L8** # 139

Dawe. Piers

bucket

Nvidia

Comment Status A Comment Type

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".

Response Response Status C

ACCEPT IN PRINCIPLE.

Replace with "IEEE 802.3 Physical Layer specification for 100 Gb/s DWDM PHY using 100GBASE-R encoding, DP-DQPSK modulation, and coherent detection with reach up to at least 80 km. (See IEEE Std 802.3, Clause 154.)"

C/ 1 SC 1.4.160a P22 L14 # 83 C/ 1 SC 1.4.181a P**22** L20 # 138 Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei Dawe, Piers Nvidia Comment Type T Comment Type ER Comment Status A Comment Status A A "black Link" is an approach to describing a DWDM Channel, not a link itself. I think that the implication that no other grids but ITU-T ones are possible is incorrect and not necessary. SuggestedRemedy SuggestedRemedy Change definition -If it's true, and I think it is because Clause 54 uses "WWDM", insert "In this standard" A black link s an approach to defining a single-mode fiber based DWDM channel by before "DWDM channel spacings". Delete the sentence about CWDM if it's not needed, or specifying the characteristics of the input and output of the link and its transfer ioin the sentences. characteristics, without specifying how the link is defined. Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Delete the second sentece in 1.4.181a. Implement remedy shown on slide 2 of www.ieee802.org/3/ct/public/tf interim/20 0709/dambrosia 3ct 01 200709.pdf C/ 1 P**22** # 84 SC 1.4.237 L25 P22 C/ 1 SC 1.4.160a / 14 # 129 Dambrosia, John Futurewei. A U.S. Subsidiary of Huawei Dawe, Piers Nvidia Comment Type ER Comment Status A Comment Type Е Comment Status D bucket There is no definition for DWDM To match the rest of the document. Black Link should be black link SuggestedRemedy SuggestedRemedy add definition for DWDM -An optical WDM technology where the frequency spacing is less than or equal to 1000 GHz. Scrub the new definitions for rogue capitals Response Status C Proposed Response Response Status W ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE See response to comment 61. See response to comment 3. C/ 1 SC 1.4.181a P22 L20 # 137 Dawe, Piers Nvidia Comment Type Т Comment Status D

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

Response Status Z

This comment was WITHDRAWN by the commenter.

SuggestedRemedy

Proposed Response

REJECT.

WDM wavelength plan

C/ 1 SC 1.4.237a P22 L25 # 61

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

Comment Type TR Comment Status A

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 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.

Response Status C

ACCEPT.

C/ 1 SC 1.4.237b P22 L28 # 130

Dawe, Piers Nvidia

Comment Type T Comment Status R

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.

Response Status C

REJECT.

The commentor in discussion modified the suggested remedy to remove the term "DWDM Link". There was no support from the ballot response committee to make this modification.

Cl 1 SC 1.4.401A P22 L40 # 85

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

Comment Type ER Comment Status A

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.

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).

Response Status C

ACCEPT IN PRINCIPLE.

Replace sentence with -

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

polarization of an optical signal over all states of polarization within the channel frequency range (DWDM link) or channel wavelength range (CWDM and WWDM links).

C/ 1 SC 1.4.401a P22 L40 # 131

Dawe, Piers

Nvidia

Comment Type

E

Comment Status A

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

Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 85.

C/ 1 SC 1.4.401a P22 L40 # 132

Dawe, Piers Nvidia

Comment Type T Comment Status A

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.

Response Response Status C

ACCEPT IN PRINCIPLE.

Add new subclause to 154.8 to define PDL with editorial license.

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

Hajduczenia, Marek Charter Communications

Comment Type TR Comment Status A

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

Response Status W

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 indicates 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 indicates 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 A 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 Response Status W Proposed Response Response Response Status W ACCEPT IN PRINCIPLE PROPOSED ACCEPT Add IFEC "inverse RS-FEC sublayer" to abbreviations Cl 45 SC 45.2.1.186ab.8 P37 L33 Wienckowski. Natalie General Motors / 49 C/ 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. SC 45.2.1.186ah Cl 45 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.

CI 80 SC 80.1.3 P48 **L**5 # 86 CI 80 SC 80.1.3 P48 L16 # 40 Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei Wienckowski. Natalie General Motors Comment Type ER Comment Status A Comment Type E Comment Status A While it is true that 100GBASE-Z uses 100GBASE-R encoding, it uses a diffferent It seems this is a note for the Editor on what they were supposed to do. When this is modulation approach, but this is not shown architecturally in Fig 80-1. "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 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: Change: "100GBASE-R, or 100GBASE-P, or 100GBASE-Z." with proper strike-out and "100GBASE-R, or 100GBASE-P, or 100GBASE-Z," with proper strike-out and underline. underline To: 100GBASE-R(start underline), (end underline) or 100GBASE-P(start underline), or Response Response Status C 100GBASE-Z(end underline) ACCEPT IN PRINCIPLE. Response Response Status C See response to comment 15. ACCEPT IN PRINCIPLE. P48 # 15 C/ 80 SC 80.1.3 L14 See response to comment 15. Anslow. Pete Self C/ 80 SC 80.1.3 P48 L16 # 76 Comment Type ER Comment Status A Grow, Bob RMG Consulting Changes to figures (other than the title) should show the figure as changed, not rely on the Comment Type E Comment Status A roll-up editor to interpret the change. Also, there should only be one "or" The text inappropriately includes editing instruction. SuggestedRemedy SuggestedRemedy Change the editing instruction to: In Figure 80-1, replace the list of medium types ("100GBASE-R or 100GBASE-P") under "Replace Figure 80-1 with the following figure:" CGMII with "100GBASE-R or 100GBASE-P or 100GBASE-Z". Delete line 16. Or bring Figure 80-1 in to the draft and change: alternately, provide a replacement table with an editing instruction to replace Table 80-1. "100GBASE-R or 100GBASE-P" to: Response Response Status C "100GBASE-R, 100GBASE-P, ACCEPT IN PRINCIPLE. or 100GBASE-Z" See response to comment 15. with no underline or strikethrough. Response Response Status C C/ 80 SC 80.1.4 P48 / 20 ACCEPT. 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

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/ 80 SC 80.1.4

Response Status W

PROPOSED ACCEPT.

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C/ 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

C/ 80 SC 80.1.4 P48 L36 # 87

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

Comment Status A Comment Type TR

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).

Response Response Status C ACCEPT.

C/ 80 SC 80.1.5

P49 Wienckowski. Natalie General Motors

Comment Status D Comment Type E bucket

L3

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.

CI 80 SC 80.1.5 P49

L23

90

Dambrosia. John

Futurewei, A U.S. Subsidiary of Huawei

Comment Type TR Comment Status A

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
- 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

Response Response Status C

ACCEPT IN PRINCIPLE.

- 1) Modify note a to "O=optional, M=Mandatory, C=Conditional"
- 2) change Clause 152 Inverse RS-FEC from "O" to "C", and add an indicator for Note b in next to "C"
- 3) add note b Clause 152 inverse RS-FEC mandatory when Clause 91 RS-FEC is present
- 4) In Table 154-1 change "Optional" to "Conditional". Add note b.

With editoral license

P**49** L24 CI 80 SC 80.1.5 # 66

Marris. Arthur Cadence Design Systems

Comment Type T Comment Status R

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

Response Response Status C

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.

43

C/ 80 SC 80.2.2 P49 L33 # 77 CI 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 Self Laubach, Mark Wienckowski. Natalie **General Motors** Comment Type Е Comment Status D bucket Comment Type E Comment Status A "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. Response Response Status C ACCEPT C/ 80 SC 80.2.4 P50 **L9** # 57 Trowbridge. Steve Nokia CI 80 SC 154.5.4 P104 L43 # 80 Comment Type T Comment Status A Schmitt. Matt Cablel abs A clause 135 PMA may be used across the C2M interface (above the Inverse RS-FEC) in a Comment Status A Comment Type T 100GBASE-ZR PHY type As pointed out in deandrea 3ct 01 200611, when an optical amplifier (EDFA) is a part of SuggestedRemedy the black link, the noise floor could be amplified above the power threshold for signal Change: detect. To account for that, while not mandatory, an implementer may wish to consider the "Clause 135 specifies a PMA that may be used in other 100GBASE-P PHY types." 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 "Clause 135 specifies a PMA that may be used in other 100GBASE-P or 100GBASE-ZR implementers. PHY types." SuggestedRemedy Response Response Status C At the end of the 3rd paragraph in 154.5.4, add an additional sentence that reads: "In ACCEPT. 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 presenece of a compliant 100GBASE-R signal in determining the setting of the SIGNAL DETECT value.

Response

ACCEPT IN PRINCIPLE.
See resolution to comment #69

Response Status C

CI 82 SC 82.3.3 P**56** L14 # 88 C/ 102 SC .2 Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei John, DeAndrea Comment Type TR Comment Status R Comment Type E Comment Status R

This note is specific to the mapping of 40GBASE-R PCS blocks. Editing it is not within scope of the approved P802.3ct PAR.

SuggestedRemedy

these proposed changes should be deleted.

Response Response Status C

REJECT.

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 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/ 83C SC 83C.4.1 P121 L34 # 126

Dawe, Piers Nvidia Comment Type E Comment Status A

Too much spacing

SuggestedRemedy

Use left justification rather than full

Response Response Status C

ACCEPT IN PRINCIPLE.

Fix the justification of CAUI-4 in the legend.

P101 L28 # 111

Finisar / II-VI

The black lenj with amplifiers will result in power levels greater than -30 dBm at TP3. See contribution "deandrea 3ct 01 June 11 2020 Rev 0.4 pdf"

SuggestedRemedy

Add addtioanl statement in the note: " Black links with optical amplifiers will result in average power exceeding -30 dBm when transmit is in the "OFF" state, a implimentations should take this condition into account"

Response Response Status C

REJECT.

The section for which the modification is proposed is generic and adding details of this level, even in 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/ 131 SC 1.4.401a P22 L40 # 133

Dawe. Piers Nvidia Comment Status A Comment Type T

State of polarization of what?

SuggestedRemedy

Of an optical signal? optical transmitter?

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 85.

C/ 135A SC 135A.3.1 P122 L35 # 134 C/ 139 SC 1.4.60a P**22** L14 Dawe, Piers Nvidia Hajduczenia, Marek **Charter Communications** Comment Type T Comment Status A Comment Type E Comment Status D There is no such thing as 100GBASE-Z/P. Do you mean 100GBASE-ZR? Or, 100GBASEis there any specific reason to capitalize "Black Link" and "Channel Spacing"? Z or 100GBASE-P? SuggestedRemedy Is the BASE-P part for P802.3ck to add, not this project? All other definitions use lower caps unless it is a propwer name. Consider dropping caps Why would Z come before P? Usually we go slow to fast, short to long, wide to narrow. Same for 1.4.237a/b/d (no need to capitalize Channel/Link/System) SuggestedRemedy Same for 1.4.401a - drop case Change to:100GBASE-Z. or change to: 100GBASE-P or 100GBASE-Z. Also in Figure Proposed Response Response Status W 135A-10. PROPOSED ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT IN PRINCIPLE. Change "Black Link" to "black link", change "Channel Spacing" to "channel spacing". Change "100GBASE-Z/P" to "100GBASE-P/100GBASE-Z" (consistent with Figure 83C-3) change "Channel" to "channel", change "Link" to "link", "System" to "system" and change with editoral license "Polarization Dependent Loss" to "polarization dependent loss" throughout the document. C/ 135A SC 135A.3.1 # 127 P122 L36 C/ 152 SC 152.1.1 P57 / 13 Dawe. Piers Nvidia Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei Comment Type Comment Status D Ε Comment Type E Comment Status A Silly hyphenation. Inter-face would make sense, in-terface doesn't. 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 SuggestedRemedy interface and a different FEC is used for the PMD." Set the minimum hyphenation fragment size to 3 (I thought that was done years ago), and SuggestedRemedy make the left column wider. Replaces "is used across a chip-to-chip or chip-to-module interface" with "is used with any Proposed Response Response Status W physical instantiation of 100GAUI-n and a different FEC is needed for the intended PMD." PROPOSED ACCEPT IN PRINCIPLE. Response Response Status C Implement the proposed remedy with editorial license ACCEPT IN PRINCIPLE. C/ 135A SC 135A.3.2 P123 / 26 # 125 Change "is used across a chip-to-chip or chip-to-module interface" to "is used across a physically instantiated 100GAUI-n" Dawe, Piers Nvidia Comment Status D Comment Type E bucket INTERFACEMMD SuggestedRemedy Insert the break Proposed Response Response Status W

PROPOSED ACCEPT.

3

89

bucket

Cl 152 SC 152.1.2 P58 L21 # 91

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

Comment Type TR Comment Status R

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.

Response Status C

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.

Cl 152 SC 152.3.7 P68 L3 # 26

Slavick, Jeff Broadcom

Comment Type TR Comment Status A

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."

Response Status W

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 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.

C/ 152 SC 152.5.2.3 P61 L20 # 27

Slavick, Jeff Broadcom

Comment Type TR Comment Status A

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."

Response Status W

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(544,514) 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 C/ 152 SC 152.5.3.2 P65 L16 # 114 Nicholl, Shawn Xilinx Law. David Hewlett Packard Enterprise Comment Type TR Comment Status D bucket Comment Type E Comment Status D bucket This sub-clause makes reference to 91.5.3.3, without indication of differences from Figure 82.14' should read 'Figure 82-14'. 91.5.3.3. SuggestedRemedy SuggestedRemedy See comment. 91.5.3.3 (as amended by 802.3cd-2018) contains an optional 91.5.3.3.1 FEC Degraded Proposed Response Response Status W 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 ACCEPT Proposed Response Response Status W C/ 152 SC 152.5.3.5 P66 L7 PROPOSED ACCEPT. Slavick, Jeff Broadcom C/ 152 SC 152.5.2.5 P**61** L38 # 45 Comment Type ER Comment Status D bucket Missed a conversion from Tx to Rx. General Motors Wienckowski, Natalie Comment Type E Comment Status D bucket SuggestedRemedy "as follows" should always be followed by ":", not "." Change "rx coded c, from tx xcoded" to "rx coded c, from rx coded" SuggestedRemedy Proposed Response Response Status W Change: as follows. PROPOSED ACCEPT. To: as follows: Make this change throughout the draft. C/ 152 SC 152.5.3.6 P67 L35 Proposed Response Response Status W Wienckowski. Natalie General Motors PROPOSED ACCEPT IN PRINCIPLE. Comment Type E Comment Status D bucket Make the indicated change on P61L38, P61L44, P61L50, P62L22 Incorrect number format. C/ 152 SC 152.5.3.1 P65 # 34 L5 SuggestedRemedy Nicholl, Shawn Xilinx Change: 16384 To: 16 384 (with a non-breaking space) Comment Type ER Comment Status D bucket Proposed Response Response Status W Typo in concatenatiing PROPOSED ACCEPT. SuggestedRemedy Replace "concatenatiing" with "concatenating"

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/ 152 SC 152.5.3.7 P68 **L1** # 28 C/ 152 SC 152.6 P**72** L15 # 67 Slavick, Jeff Broadcom Marris, Arthur Cadence Design Systems Comment Status D Comment Type bucket Comment Type Comment Status R Capitlazation Insert IFEC enable functionality that is currently specified in IEEE Draft P802.3ck/D1.2 SuggestedRemedy SuggestedRemedy Make the "E" in "Encoder" lowercase for the section title. And the first sentence of the text Incorporate the 802.3ck modifications to 152.6 and 45.2.1.186aa in 802.3ct. Also make it in the section. so IFEC is enabled by setting the variable to one (not zero) "When the IFEC Enable variable is set to one, the Inverse RS-FEC sublaver performs the transmit function as Proposed Response Response Status W specified in 152.5.2 and the receive function as specified in 152.5.3. When the variable is PROPOSED ACCEPT. set to a zero, the transmit and receive functions are disabled, and the Inverse RS-FEC sublayer is bypassed," C/ 152 SC 152.5.3.8 P68 L5 Response Response Status W Slavick, Jeff Broadcom REJECT. Comment Status D Comment Type E bucket 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 Capitlazation interleaved FEC, and both sublayers would be enabled or disable as a pair. In the context SuggestedRemedy of P802.3ct, there is no case where the Inverse RS-FEC sublaver can ever be (or ever needs to be) disabled, and in fact this would make no sense as this would feed the Make the "D" in "Distribution" lowercase for the section title. RS(544) format directly to the clause 153 SC-FEC sublayer. P802.3ck can add this Proposed Response Response Status W configurability to the mechanism produced by P802.3ct when needed. PROPOSED ACCEPT. C/ 153 P80 SC 153.1.2 / 35 # 47 C/ 152 SC 152.5.4.2.1 P70 / 49 # 119 Wienckowski. Natalie General Motors Hewlett Packard Enterprise Law. David Comment Status D Comment Type E bucket 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. Suggest that 'A variable set ...' should read 'A Boolean variable set ...'. SuggestedRemedy SuggestedRemedy Delete: AN = AUTO-NEGOTATION See comment. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT C/ 153 P80 SC 153.2.1 L 50 # 120 Law. David Hewlett Packard Enterprise Comment Type Ε 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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general C/ 153 Page 17 of 29

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

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PROPOSED ACCEPT.

C/ 153 SC 153.2.1 P80 L50 # 121 C/ 153 SC 153.2.3.2.4 P83 L43 Law. David Hewlett Packard Enterprise Slavick, Jeff Broadcom Comment Type T Comment Status D bucket Comment Type TR Comment Status A Can't the sublaver 'above' the SC-FEC also be an Inverse RS-FEC (see Figure 152-1) or a Is the pattern supplied sent Left to right or Right to left or first field (sent R to L) followed by PMA (see Figure 83C-8 as well as Page 81, Line 7)? 2nd field (sent R to L) SugaestedRemedy SuggestedRemedy [1] Page 80, line 50 that '... the PCS to ...' should be change to '... the PCS, Inverse RS-Add statement to 1) which defines the order the bits are transmitted. FEC, or PMA to ...'. Response Response Status W [2] Page 81, line 7 that '... the PCS or PMA ...' should be change to '... the PCS, Inverse RS-FEC, or PMA ...'. ACCEPT IN PRINCIPLE. While it is normally the convention that when written in binary form that the bits would be Proposed Response Response Status W transmitted left to right, change: PROPOSED ACCEPT. "The FAS is the following fixed bit pattern:" P83 # 31 C/ 153 SC 153.2.3.2.4 L20 "The FAS is the following fixed bit pattern, transmitted left to right:" Slavick, Jeff Broadcom C/ 153 SC 153.2.3.2.4 P83 / 51 TR Comment Status R Comment Type Law, David Hewlett Packard Enterprise No Annex which provides a sample FEC frame is provided like 91A and 119A Comment Type E Comment Status D SuggestedRemedy Suggest that the abbreviations 'GMP OH' used in Figure 153-3 'SC-FEC frame' should be Add an Annex that provides a sample SC-FEC frame referenced here. SuggestedRemedy Response Response Status W Suggest the text 'The GMP mapping overhead is encoded ...' should be changed to read

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 in the form of text in the published standard.

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.

Commentor is invited to submit an alternate form eg a test vector file or code to generate the test vectors that can be published separate from this standard.

Law. David Hewlett Packard Enterprise Comment Type E Comment Status A

SC 153.2.3.2.4

'The GMP mapping overhead (GMP OH) is encoded ...'.

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.'.

P84

L9

SuggestedRemedy

Proposed Response

C/ 153

PROPOSED ACCEPT.

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

Response Status W

Response Response Status C

ACCEPT IN PRINCIPLE.

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

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

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30

124

123

bucket

C/ 153 SC 153.2.3.2.4 P85 L13 # 122

Law. David Hewlett Packard Enterprise

Comment Type Т Comment Status A

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 evennumbered 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.

Response Response Status C

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"

"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

Maniloff, Eric Ciena

Comment Type Т Comment Status D bucket

The text reads "whose fill level varies

depending on whether 188 or 189 GMP words are filled in a given SC-FEC frame." should include that the fill level varies with the clock offset of the 100GBASE-R signal.

SuggestedRemedy

Modify text to read "whose fill level varies with the clock offset of the incoming 66B blocks

depending on whether 188 or 189 GMP words are filled in a given SC-FEC frame."

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 153 SC 153.2.3.2.7 P87

Wienckowski. Natalie General Motors Comment Type E Comment Status D bucket

L33

51

missing "be" verb

SuggestedRemedy

Change: first 16 octets of the FEC frame distributed To: first 16 octets of the FEC frame are distributed

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

For consistency with the rest of the paragraph, change:

"first 16 octets of the FEC frame distributed"

"first 16 octets of the FEC frame is distributed"

C/ 153 P87 L35 SC 153.2.3.2.7

Wienckowski, Natalie General Motors bucket

Comment Type E Comment Status D

wrong "dash" type

SuggestedRemedy

Change the "En dash" after "NOTE" to an "EM dash" Also P94L44, P95L30

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 153 SC 153.2.3.3.1 P87 L47 # 56 C/ 153 SC 153.2.4.1.1 P89 L34 # 113 Trowbridge, Steve Nokia Law. David Hewlett Packard Enterprise Comment Type TR Comment Status A Comment Type T Comment Status D Suggest that 'A variable set ...' should read 'A Boolean variable set ...'. The frame alignment process encounters false loss of lock too frequently, as described in trowbridge 01 200528 presented in the 28 May 2020 interim Task Force Conference call. SuggestedRemedy SuggestedRemedy See comment. Implement the remedy described in trowbridge 01a 200611 to the 11 June 2020 Interim Proposed Response Response Status W Task Force call. Note that this remedy includes a change to the Bibliography (Annex A) as PROPOSED ACCEPT well as to clause 153 Response Response Status C C/ 153 SC 153.2.4.1.1 L13 P90 # 112 ACCEPT. Law. David **Hewlett Packard Enterprise** C/ 153 SC 153.2.3.3.4 P88 L20 # 115 Comment Type E Comment Status D Booolean ...' should read 'Boolean ...'. Law, David **Hewlett Packard Enterprise** Comment Type E Comment Status D bucket SuggestedRemedy Suggest that '0x1e' should be '0x1E', See figure 82-5. See comment. SuggestedRemedy Proposed Response Response Status W See comment. PROPOSED ACCEPT. Proposed Response Response Status W # 116 C/ 153 SC 153.2.4.4 P91 L7 PROPOSED ACCEPT. **Hewlett Packard Enterprise** Law. David C/ 153 SC 153.2.4.1.1 P89 L15 # 52 Comment Type T Comment Status D States COUNT 2 and COUNT NEXT in Figure 153-7 'SC-FEC synchronization state Wienckowski. Natalie General Motors diagram' include the action 'start fas counter'. Subclause 153.2.4 'Detailed functions and Comment Status D Comment Type E bucket state diagrams' states that 'The notation used in the state diagrams follows the conventions inconsistent/incorrect use of true/false & True/False throughout this subclause of 21.5. The notation ++ after a counter or integer variable indicates that its value is to be incremented.'. Neither this subclause, nor the referenced subclause 21.5, defines a start SuggestedRemedy action for a counter, and what it means. When describing the states of a Boolean variable use "TRUE" and "FALSE". SuggestedRemedy Proposed Response Response Status W Change 'start fas counter' to read 'fas counter <= 0' in both the States COUNT 2 and PROPOSED ACCEPT. COUNT NEXT states. Proposed Response Response Status W PROPOSED REJECT. 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

INVALID FAS state).

to the value 16320.

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/ 153 SC 153.2.4.4

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

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bucket

bucket

C/ 153 SC 153.2.4.4 P**91** L27 # 117 C/ 153 SC 153.2.32.4 P86 L3 # 49 Law, David Hewlett Packard Enterprise Wienckowski, Natalie General Motors Comment Type E Comment Status A Comment Type T Comment Status D bucket Typo, the assignment '... <= current fecll' in state COUNT NEXT of Figure 153-7 should math error. If this is not a math error, please explain how 3 can be the correct answer. read '... <= current fecl'. SuggestedRemedy SuggestedRemedy Change: 75 + 12 - 80 = 3See comment. To: 75 + 12 - 80 = 7Response Response Status C Proposed Response Response Status W ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Overtaken by events. This is fixed in the reviewed text proposal reviewed in the 11 June 2020 Interim Task Force call. See comment #56 C/ 153 SC 153.2.32.4 P86 L29 # 50 Wienckowski, Natalie General Motors C/ 153 SC 153.2.4.4 P91 / 41 # 118 Comment Type E Comment Status D bucket Hewlett Packard Enterprise Law, David missing spaces Comment Type T Comment Status A SuggestedRemedy The variable FEC lane mapping<x> assigned the value fec lane in the state 2 GOOD of Figure 153-7 is not defined in subclause 153.2.4.1.1 'Variables'. Change: 512×510 To: 512 × 510 SuggestedRemedy Proposed Response Response Status W Add a definition of the variable FEC lane mappingx> to subclause 153.2.4.1.1 'Variables'. PROPOSED ACCEPT. Response Status C ACCEPT IN PRINCIPLE. C/ 153 SC 153.3.1 P93 L49 Add: Wienckowski. Natalie **General Motors** FEC lane mapping<x> This variable indicates which FEC lane is received on lane x of the PMA service interface Comment Type E Comment Status D bucket when fas lock<x>=TRUE, where x=0:19. missing spaces C/ 153 SC 153.2.32.4 P84 L16 # 48 SuggestedRemedy Change: 255/227 Wienckowski. Natalie **General Motors** To: 255 / 227 Comment Type E Comment Status D bucket Also on line P93L51, P94L38, P94L53, P95L24 missing spaces Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Change: 255/227

To: 255 / 227

Proposed Response

PROPOSED ACCEPT

Response Status W

C/ 153 SC 153.3.2.3.1 P95 L24 # 59 Trowbridge, Steve Nokia Comment Type E Comment Status A 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 Add the approximate top-line baud rate (~27.9525 GBd) after the formula. Response Response Status C ACCEPT. C/ 153 SC 153.3.2.3.2 P95 L34 # 102 Maki, Jeffery Juniper Networks Comment Type ER Comment Status A Sub-clause is self referencing. Reference to 153.3.2.3.2 is erroneous. SuggestedRemedy

Response Response Status W

SC 5.4

ACCEPT IN PRINCIPLE.

Replace 153.3.2.3.2 with 153.3.2.2.2.

Replace 153.3.2.3.2 with 153.3.2.2.1

John, DeAndrea Finisar / II-VI

Comment Type T Comment Status A

The use of optical amplifiers ion the black link create additional noise conditions for this PMD type.

P104

L43

110

SuggestedRemedy

C/ 154

Add the following to the note ", optical amplifier noise in the Black Link, etc."

Response Response Status C

ACCEPT IN PRINCIPLE.

See resolution to comment #69.

Cl 154 SC 154.1 P99 L7 # 92

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

Comment Type E Comment Status A

Wording can be improved.

SuggestedRemedy

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 amplifiers and is described in the form of a black link (see 154.6).

Response Status C

ACCEPT IN PRINCIPLE.

Change the first part of the first sentence to "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 amplifiers and is specified using black link methodology (see 154.6)"

Cl 154 SC 154.1 P99 L8 # 82

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 this sentence is not helpful -

"The optical signal generated by this PMD type is modulated using a dual polarization differential quadrature phase shift keying (DP-DQPSK) format suitable for reception by a coherent optical receiver."

SuggestedRemedy

Replace this sentence with

The optical signal generated by this PMD type is modulated using a dual polarization differential quadrature phase shift keying (DP-DQPSK) format.

Proposed Response Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

Bucket

Cl 154 SC 154.2 P101 L15 # 60

Trowbridge, Steve Nokia

Comment Type E Comment Status D

The number cited (27.9525 Gbd) is not an exact nominal value. Same issue in the next paragraph.

SuggestedRemedy

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.

C/ 154 SC 154.5.4 P104 L32 # 104

Maniloff, Eric Ciena

Comment Type T Comment Status A

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"

Response Status C

ACCEPT IN PRINCIPLE.

See resolution to comment #69

CI 154 SC 154.5.4 P104 L32 # 69

Stassar, Peter Huawei

Comment Type T Comment Status A

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 addressed in a note.

SuggestedRemedy

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

Response Status C

ACCEPT IN PRINCIPLE.

As SIGNAL_DETECT is not reliable using average power detection:

The proposed solution is to have only one row in Table 154-5, indicating the value "OK" for SIGNAL_DETECT, removing the other 2 rows for value "FAIL" and "Unspecified".

Add appropriate wording in the text around Table 154-5 to clarify the reason why this is done with editorial license.

Cl 154 SC 154.5.4 P104 L32 # 105

Maniloff, Eric Ciena

Comment Type T Comment Status A

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

SuggestedRemedy

Change "Average Optical" to "Optical signal"

Response Status C

ACCEPT IN PRINCIPLE.

See response to comment 69.

Cl 154 SC 154.5.4 P104 L32 # 79

Schmitt, Matt CableLabs

Comment Type T Comment Status A

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".

Response Status C

ACCEPT IN PRINCIPLE.

See response 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.

Glven 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.

Comment Status D

Cl 154 SC 154.6 P105 L36 # 98

Lewis, David Lumentum

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

Comment Type

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.

Bucket

CI 154 SC 154.6 P105 L38 # 96

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

Comment Type TR Comment Status A

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.

Response Status C

ACCEPT.

Cl 154 SC 154.6 P105 L39 # 97

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

Comment Type TR Comment Status A

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.

Response Status C

ACCEPT IN PRINCIPLE.

The noted text is located in 1.4.237a. Replace the text in 1.4.237a DWDM Channel with "the transmission path over a single wavelength/frequency on a defined frequency grid between a DWDM PHY transmitting to another DWDM PHY."

Cl 154 SC 154.6 P106 L8 # 12

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"?

SuggestedRemedy

Editor's choice to amend for clarity.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Add a note to clarify the groy box in Figure 154.3, to indicate the

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.

Cl 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."

68

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

SC 154.7

ER

Stassar, Peter Huawei 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

P107

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

Comment Type

C/ 154

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 Response Status W

PROPOSED ACCEPT IN PRINCIPLE. For TF discussion and agreement.

P108 1 24 C/ 154 SC 154.7.1 # 106

Maniloff, Eric Ciena Comment Type Е Comment Status D

1000 kHz = 1 MHz

SugaestedRemedy

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 Comment Status D

An EVM limit is like 802.3cd's clumsily named TDECQ-10.log10(Ceg), 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 EVMcompliant 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.

C/ 154 SC 154.7.1 P108 L33 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 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 Status W

PROPOSED ACCEPT IN PRINCIPLE.

For Task Force discussion

Proposal

Change to Accept

C/ **154** SC **154.7.3** P**109** L**44** # 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"

Proposal

Change parameter name to "Minimum chromatic dispersion slope at channel center frequencies" with note referring to Table 154-6.

C/ 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.

CI 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