CI 0 SC 0 P**0** # R1-3 C/ 140 SC 140.6.3 P47 L32 # R1-10 Nicholl, Gary Cisco Systems, Inc. Nicholl, Gary Cisco Systems, Inc. Comment Type E Comment Status A new famemaker template Comment Type Comment Status A wavelegnth reference Implement new FM template (Version 4.4) In footnote (b) of Table 140-8 it is probably unnecessary to reference the wavelength at which the fiber attentuaion is 0.43 dB/km. In an earlier revision footnote (a) of Table 140-8 SuggestedRemedy was changed to remove the reference to the wavelength, thus making footnotes (a) and (b) Implement new FM template (Version 4.4), based on the email from Pete Anslow to the inconsistent. There is also no reference to the wavelength in footnote (a) of Table 151-9. 802.3 EDITORS reflector on 10/30/2020 SugaestedRemedy Response Response Status C Remove "at 1304.5 nm" from footnote (b) of Table 140-8. ACCEPT. Response Response Status C C/ 140 SC 140.6.1 P43 L15 # R1-1 ACCEPT. Stassar, Peter Huawei Technologies Co., Ltd C/ 140 SC 140.7.5.2 P51 L43 # R1-15 Comment Type TR Comment Status A power excursion Dawe, Piers J G Mellanox Technologies Transmitter power excursion (max) should be in "dB" instead of "dBm" Comment Type T Comment Status A wording change SugaestedRemedy 802.3 doesn't specify devices, it specifies interfaces Change "dBm" to "dB" SuggestedRemedy Response Response Status C Change "device" to "transmitter" (twice in this subclause). ACCEPT IN PRINCIPLE. Had this been a WDM PMD, it would have been "lane under test". Response Response Status C During Task Force discussion on this comment, it was determined that dBm is the correct ACCEPT. units but as a result of the discussion it was found that some changes to the power excursion parameter should be made. C/ 140 SC 140.7.5b P52 L19 # R1-7 Change the value of the Transmitter power excursion (max) parameter for 100GBASE-LR1 Nicholl, Gary Cisco Systems, Inc. from "2.5 dBm" to "2.8 dBm" Comment Type E Comment Status A C/ 140 SC 140.6.1 P43 L17 # R1-11 Over/Under-shoot is only applicable for 100GBASE-FR1 and 100GBASE-LR1, and not for 100GBASE-DR. Dawe, Piers J G Mellanox Technologies SuggestedRemedy Comment Type E Comment Status A TECQ description Table 160-6 has "TECQ (max)" while Table 151-7 has "Transmitter eve closure for PAM4 Add "for 100GBASE-FR1 and 100GBASE-LR1" after "Table 140-6" in the first sentence of 140.7.5b (TECQ), each lane (max)" Response Response Status C SugaestedRemedy ACCEPT. Change to "Transmitter eye closure for PAM4 (TECQ) (max)" Response Response Status C ACCEPT IN PRINCIPLE Presume the comment is referring to Table 140-6 and not Table 160-6.

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

Change the TECQ description in Table 140-6 to "Transmitter eye closure for PAM4 (TECQ)

(max)"

C/ 140 SC 140.7.5b

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overshoot

C/ 140 SC 140.7.5c P52 L53 # R1-8

Nicholl, Gary Cisco Systems, Inc.

Comment Type Ε Comment Status A power excursion

Transmitter power excursion is only applicable for 100GBASE-FR1 and 100GBASE-LR1. and not for 100GBASE-DR.

SuggestedRemedy

Add "for 100GBASE-FR1 and 100GBASE-LR1" after "Table 140-6" in the first sentence of 140.7.5c

Response Response Status C

ACCEPT.

C/ 140 SC 140.10a P58 L3 # R1-9

Nicholl, Gary Cisco Systems, Inc.

Comment Status A Comment Type Ε interop quidelines

"Recommendations for interoperation" is a more appropriate description than "Guidelines for interoperation" in this section.

SuggestedRemedy

Replace "Guidelines" with "Recommendations" throughout subclause 140.10a. Make a similar change for 151.12.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete "Guidelines for" throughout subclause 140.10a. Make a similar change for subclause 151.12.

C/ 140 SC 140.10a.1 P59 L12 # R1-12

Dawe. Piers J G Mellanox Technologies

Comment Type TR Comment Status R

As pointed out in D3.0 comment 65, a 100GBASE-FR1 or 100GBASE-LR1 transmitter is allowed to transmit a bad signal that a 100GBASE-DR may not, and that a 100GBASE-DR receiver is not qualified for. This breaks interoperability. The K limit is missing, and the over/under-shoot, while useful, does not catch all bad transmitters that would fail the K limit. The response to comment 65 does not address the failure of interoperability, it only says that there was a previous decision to remove the K limit. Comment 65 and this one point out that that should be changed.

SuggestedRemedy

As interoperability with 100GBASE-DR applies over much shorter distances than the full distance for 100GBASE-FR1 or 100GBASE-LR1.

and as it is expected that decent transmitters will have no problem meeting the spec proposed below, and there is no extra measurement needed.

In Table 140-6, insert a limit of 3.4 dB for TECQ - 10log10(Ceg') (max), derived from TECQ in the same way that K = TDECQ - 10log10(Ceg) is derived from TDECQ

Response Response Status U

REJECT

This comment is considered substantively similar to the previously rejected comment i-65.

The comment is again arguing that the over/under-shoot test, while useful, does not catch all bad transmitters that would fail a K limit (10LogCeg) test, and therefore leaves the potential for 100GBASE-FR1 and 100GBASE-LR1 transmitters that would not interoperate with a 100GBASE-DR receiver.

Note that the "TDECQ-10log10(Ceq)" parameter for 100GBASE-FR1 and 100GBASE-LR1 was removed in draft D2.0 and replaced with the over/under-shoot parameter.

The response to i-65 is shown here for reference:

REJECT.

The comment is proposing a value for a parameter that is not currently in Draft D3.0, for 100GBASE-FR1.

The IEEE P802.3cu Task Force reviewed this parameter previously during both task force review and working group ballot, and reached consensus to not include it.

While the comment does not request the addition of this parameter into the draft, that may have been the intention of the commenter.

There is no consensus to make the proposed change."

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/ 140

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10LogCeg

SC 140.10a.1

## IEEE P802.3cu D3.1 100 Gb/s per wavelength on SMF 1st Sponsor recirculation ballot comments

C/ 151 SC 151.5.7 P70 L2 # R1-13

Dawe, Piers J G Mellanox Technologies

Comment Type **E** Comment Status **A** unnecessary text the average launch power of the OFF transmitter in Table 151–8 for 400GBASE-FR4 and

400GBASE-LR4-6

SuggestedRemedy

Change and to or, or better, delete "for 400GBASE-FR4 and 400GBASE-LR4-6". Also in 151.5.8.

Response Status C

ACCEPT IN PRINCIPLE.

- Delete "for 400GBASE-FR4 and 400GBASE-LR4-6" at the end of line 3 on page 70.
- Delete "for 400GBASE-FR4 and 400GBASE-LR4-6" at the end of line 15 on page 70.

Cl 151 SC 151.7.1 P72 L33 # R1-2

Stassar, Peter Huawei Technologies Co., Ltd

Comment Type TR Comment Status A power excursion

Transmitter power excursion (max) should be in "dB" instead of "dBm"

SuggestedRemedy

Change "dBm" to "dB"

Response Status C

ACCEPT IN PRINCIPLE.

During Task Force discussion on this comment, it was determined that dBm is the correct units but as a result of the discussion it was found that some changes to the power excursion parameter should be made.

Change the value of the Transmitter power excursion (max) parameter for 400GBASE-FR4 from "1.5 dBm" to "1.8 dBm" and for 400GBASE-LR4-6 from "2.2 dBm" to "2.5dBm".

Cl 151 SC 151.8.2 P79 L48 # R1-4

Nicholl, Gary Cisco Systems, Inc.

Comment Type E Comment Status A unnecessary text

There is no need to state "for 400GBASE-FR4 and 400GBASE-LR4-6" in the first sentence of 151.8.2.

SuggestedRemedy

Delete "for 400GBASE-FR4 and 400GBASE-LR4-6" in the first sentence of subclause 151.8.2. Make an equivalent change in 151.8.3, 151.8.6, 151.8.9, 151.8.10, 151.8.12 and 151.8.13

Response Response Status C

ACCEPT.

C/ 151 SC 151.8.2 P79 L48 # R1-5

Nicholl, Gary Cisco Systems, Inc.

Comment Type E Comment Status A

There is an unnecessary comma in the first sentence of 151.8.2, 151.8.10, 151.8.12 and

151.8.13.

SuggestedRemedy

Remove the unnecessary comma in the first sentence of 151.8.2, 151.8.10, 151.8.12 and 151.8.13.

Response Response Status C

ACCEPT.

C/ 151 SC 151.8.5 P80 L20 # R1-14

Dawe. Piers J G Mellanox Technologies

Comment Type E Comment Status A spelling

Thompson

SuggestedRemedy

Thomson 3 times in this subclause, twice in 151.8.10

Response Status C

ACCEPT IN PRINCIPLE.

- Replace "Thompson" with "Thomson (3 instances) in subclause 151.8.5
- Replace "Thompson" with "Thomson (2 instances) in subclause 151.8.10

comma

## IEEE P802.3cu D3.1 100 Gb/s per wavelength on SMF 1st Sponsor recirculation ballot comments

C/ 151 SC 151.8.5.1 P80 L40 # R1-16 C/ 151 SC 151.8.13 P83 L4 # R1-19 Dawe, Piers J G Mellanox Technologies Dawe, Piers J G Mellanox Technologies Comment Type T Comment Status A wording change Comment Type E Comment Status A comma 802.3 doesn't specify devices, it specifies interfaces. And the dispersion is different for the Misplaced comma four wavelengths. SuggestedRemedy SuggestedRemedy Change Change "device" to "lane" (twice in this subclause). 400GBASE-LR4-6 if, measured using Response Response Status C 400GBASE-LR4-6, if measured using ACCEPT IN PRINCIPLE. Response Response Status C Change "device" to "transmitter lane" (twice in this subclause). ACCEPT IN PRINCIPLE. C/ 151 SC 151.8.8 P81 / 36 # R1-17 Delete comma. Dawe, Piers J G Mellanox Technologies C/ 151 SC 151.8.13 P83 L4 # R1-6 Comment Type E Comment Status A extra space Nicholl, Gary Cisco Systems, Inc. leading space before: is average Comment Type E Comment Status A comma SuggestedRemedy Missing comma after "122.8.9" in the first sentence of 151.8.13. Remove SuggestedRemedy Response Response Status C Add a comma after "122.8.9" in the first sentence of 151.8.13. ACCEPT. Response Response Status C ACCEPT. C/ 151 SC 151.8.8 P81 L36 # R1-18 Dawe, Piers J G Mellanox Technologies C/ 151 SC 151.13.4.5 P92 / 40 # R1-20 Comment Type E Comment Status A missing the Dawe. Piers J G Mellanox Technologies is average Comment Type E Comment Status A reorder PICS SuggestedRemedy Put the PICS in the same order as the transmitter table and optical parameters subclauses is the average? Also in 140.7.5c SuggestedRemedy Response Response Status C Over/under-shoot and Transmitter power excursion should come after OM6 Over/under-ACCEPT IN PRINCIPLE. shoot and before Extinction ratio, as OM7, OM8 Response Response Status C - Change from "is average" to "is the average" on page 81. line 36. ACCEPT - Change from "is average" to "is the average" on page 53, line 8.