| C/1 SC 1 P17 L16 # 1 | C/ 45 SC 45.2.1.7.4 P20 L51 # 3 |
|---|---|
| Wienckowski, Natalie General Motors | Wienckowski, Natalie General Motors |
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| The "important Notice" is no longer required according to IEEE. | Because you are showing a new row in the same table you are changing a row in, the text |
| SuggestedRemedy | in the new row should be underlined to clearly show that this is new. |
| Delete lines 16 through 26: IMPORTANT NOTICE: IEEE Standards documents are not intended to ensure safety, health, or environmental protection, or ensure against | SuggestedRemedy Underline all text in the last row of the table, including the cross-reference. |
| interference with or from other devices or networks. Implementers of IEEE Standards documents are responsible for determining and complying with all appropriate safety, security, environmental, health, and interference protection practices and all applicable laws and | Response Response Status C ACCEPT. C |
| regulations. | C/ 45 SC 45.2.1.7.5 P21 L15 # 4 |
| This IEEE document is made available for use subject to important notices and legal disclaimers. These | Wienckowski, Natalie General Motors |
| notices and disclaimers appear in all publications containing this document and may be found under the heading "Important Notice" or "Important Notices and Disclaimers Concerning IEEE | Comment Type E Comment Status A bucke Because you are showing a new row in the same table you are changing a row in, the text in the new row should be underlined to clearly show that this is new. |
| Documents." They can also be obtained on request from IEEE or viewed at http://standards.ieee.org/IPR/disclaimers.html | SuggestedRemedy Underline all text in the last row of the table, including the cross-reference. |
| Response Response Status C ACCEPT. | Response Response Status C ACCEPT. |
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| 802.3cg was approved in 2019 | Because you are showing a new row in the same table you are changing a row in, the text in the new row should be underlined to clearly show that this is new. |
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| C/ 116 SC 116.1.4 | P33 | L28 | # 6 | C/ 151 SC 151.8.1 | 2 P73 | L 45 | # 9 |
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| SuggestedRemedy Add underlined as defin | ed in the comment. | | | 30 , | litor's Note: We need some te Response Status W | ext to describe the | e test method. |
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| C/ 116 SC 116.1.4 | P33 | L10 | # 7 | | | | # 10 |
| Vienckowski, Natalie | General Motors | 5 | | C/ 00 SC 0 Lewis, Jon | P 12 Dell EMC | L1 | # 10 |
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| C/ 140 SC 140.7.11 Wienckowski, Natalie | P 46 General Motors | L 36 | # 8 | | | | |
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| See comment #47 | | | | | | | |

| "defined in Table 140-7 per the definitions in 140.7." This just reads oddly given that the Table number and the subsequent clause are the same (140-7 and 140.7.). It took me a moment to realize that the definitions weren't in the Table but in the clause 140.7. SuggestedRemedy Change "defined in Table 140-7 per the definitions in 140.7." to | C/ 140 | SC 140.6.2 | P 42 | L11 | # 11 | C/ 151 | SC 151.13.4 | .6 <i>P</i> 83 | L 6 | # 13 |
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| Change "All equipment subject to this clause shall conform to IEC 60950-1." to "All equipment subject to this clause shall conform to the general safety requirements as specified in J.2". Add Editor's Note to be removed prior to SA ballot to align text with changes to P802.3cr. Response Response Status C | Suggested | IRemedy | | | | | • | IEC 60950-1" to "Conforms | ; to J.2" | |
| equipment subject to this clause shall conform to the general safety requirements as specified in J.2". Add Editor's Note to be removed prior to SA ballot to align text with changes to P802.3cr. ACCEPT. Response Response Status C | | • | t subject to this clause shall c | onform to IEC 6 | 0950-1 " to "All | | - | | | |
| | equipn specifi | nent subject to t ed in J.2". Add | his clause shall conform to the | e general safety | requirements as | | | Response Status C | | |
| | Response | | Response Status C | | | | | | | |
| | ACCE | PT. | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

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: Comment ID

| | 40.7.11 | P 46 | L36 | # 16 | C/ 151 | SC 15 | 51.7.1 | P63 | L 47 | # 19 |
|--------------------------|--|---|---------------------|--|-----------------------------|-------------------------------------|--------------------------------|--|---|--|
| Carlson, Steven | | HSD/Bosch/E | thernovia | | Brown, Ma | | | | nologies Canada | |
| 3 | ot be a note tha | nment Status A It technical text is nee | eded in a WG draf | <i>Tx overshoot</i> t. This text should | | otnote "b" | | Comment Status A the significance of "even if" ne intention is that the OMA | | |
| SuggestedRemedy | | | | | Ū | of ER and | d TDEC | Q. | | |
| Remove: Edito | r's Note: We ne | eed some text to desc | ribe the test meth | nod. | Suggested | - | | | | |
| Response | Resp | onse Status 🛛 🛛 🛛 🛛 🛛 🖉 | | | Explai | n more co | ompletel | y what the intent for meeting | OMA_outer is. | |
| ACCEPT IN PR | | | | | Response ACCE | PT IN PR | RINCIPLE | Response Status C <u>-</u> . | | |
| See comment # | # 47 | | | | Remo | /e footno | te "b" in | Table 151-7. | | |
| C/ 151 SC 15 | 51.8.12 | P 73 | L 45 | # 17 | | | | | | |
| Carlson, Steven | | HSD/Bosch/E | thernovia | | C/ 151 | SC 15 | 51.7.2 | P 64 | L3 | # 20 |
| Comment Type | TR Com | nment Status A | | Tx overshoot | Brown, Ma | | | | nologies Canada | |
| have been pres | ent in D2.0. | t technical text is nee | ded in a WG draf | t. This text should | | ecificatio | | Comment Status A ot defined in Table 151-8, th ause 151.8. | ney are listed ther | Bucket re; the specifications |
| SuggestedRemedy | | ed some text to desc | vribe the test moth | ad | Suggestea | Remedv | | | | |
| _ | | | | iou. | | "defined | " twice. | | | |
| Response ACCEPT IN PR | , | onse Status W | | | Response ACCE | PT | | Response Status C | | |
| See comment # | # 47 | | | | | | | | | |
| C/ 151 SC 15 | 51.5.4 | P 59 | L 53 | # 18 | C/ 151 | SC 15 | 51.7.2 | P 64 | L 42 | # 21 |
| Brown. Matt | | Huawei Techr | nologies Canada | | Brown, Ma | | | | nologies Canada | |
| , | TR Con | nment Status A | | Bucket | Comment | | TR | Comment Status D | | withdrawn |
| The reference s | should be to 15 [°] ture, 151.2 poir | 1.2 rather than 116.3. Its to 116.3 and provi | | 116.3 provides the | each la footno values | ane, whei te should in the ro | reas the be move w above | is unclear. The referencing footnote talks about Receiv ed down a row. Even then it must be met for SECQ less nich also defined RS) are us | er Sensitivity (ON s not clear. Does s than 1.4 dB, but | IA_outer). Perhaps the it then mean that the |
| Change the refe | erence to "161 : | 3" to "151 2" | | | Suggestea | Remedv | | , | | |
| Response | Resp | onse Status C | | | Move | he locatio | | footnote reference if it mak hole specification of RS. | es sense. Rewor | d footnote to provide a |
| ACCEPT IN PR | RINCIPLE. | | | | Proposed | Response | е | Response Status Z | | |
| Change referen | ce from "116.3 | " to "151.2". | | | • | OSED RI | | | | |
| | | | | | This c | omment v | was WIT | HDRAWN by the commente | er. | |

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: Comment ID

| C/ 151 SC 151.8.5.1 | P67 | L 50 | # 22 | C/ 151 | SC 151.8.5.4 | 4 P72 | L28 | # 25 | |
|--|---|----------------|-----------|-----------------------|--------------------------------------|--|--------------------|--------------------|--------|
| Brown, Matt | Huawei Techno | ologies Canada | | Brown, Mat | t | Huawei Techr | nologies Canada | | |
| Comment Type E The acronym RIN has no | Comment Status D t been defined in the Clause | | withdrawn | Comment T In figur | 51 | Comment Status A sistent font type and size. | | Е | Bucket |
| SuggestedRemedy Change "RIN" to "relative | intensity noise (RIN)". | | | Suggested Change | R <i>emedy</i> e all to Arial 8pt | <u>.</u> | | | |
| Proposed Response PROPOSED REJECT. This comment was WITH | Response Status Z | | | Most o | | Response Status C LE. re 151-7 is Arial 9pt. One tex ther is Arial 8pt (Pattern trigge | | | 9pt. |
| | | | | C/ 116 | SC 116.1.4 | P33 | L28 | # 26 | |
| C/ 151 SC 151.8.5.1 | P 69 | L 7 | # 23 | Brown, Mat | t | Huawei Techr | nologies Canada | | |
| Brown, Matt | Huawei Techno | ologies Canada | | Comment 1 | Гуре Е | Comment Status A | 0 | t | bucket |
| Comment Type E | Comment Status D | | withdrawn | The "O | " and "M" for ne | ew rows must be underline. | | | |
| The acronym DGD has r | ot been defined in the Claus | e. | | Suggested | Remedy | | | | |
| SuggestedRemedy | | | | 00 | - | w rows for 400GBASE-FR4 a | nd 400GBASE-L | .R4-6. | |
| Change "DGD" to "differe | ential group delay (DGD)". | | | Response | | Response Status C | | | |
| Proposed Response PROPOSED REJECT. | Response Status Z | | | ACCEF | PT. | | | | |
| | | | | C/ 140 | SC 140 | P36 | L7 | # 27 | |
| This comment was WITF | IDRAWN by the commenter | | | Brown, Mat | t | Huawei Techr | nologies Canada | | |
| | | | | Comment 1 | Гуре Е | Comment Status A | | E | Bucket |
| C/ 151 SC 151.8.5.4 | P68 | L 28 | # 24 | | 0 | nstruction, but this informatior | n is normally part | of an editing | |
| Brown, Matt | Huawei Techno | ologies Canada | | instruc | tion. | | | | |
| Comment Type E | Comment Status A | | bucket2 | Suggested | - | | | | |
| In figure 151-4, Insconsis | tent font type and size. | | | | | as added to IEEE Std 802.3-2 | | | ·rr |
| SuggestedRemedy | | | | | 2.3cd-2018) as | top of page to: "Change the ti follows". | lie of Clause 140 | (as inserted by IE | EE |
| Change all to Arial 8pt. | | | | Response | , | Response Status C | | | |
| Response | Response Status C | | | ACCEF | PT. | | | | |

Change all text in Figure 151-5 to Arial 8pt.

| C/ 140 SC 140.1 | P36 | L15 | # 28 | C/ 140 | SC 140.9 | P48 | L10 | # 30 |
|---|--|---|--|---|---|--|-----------------|-----------|
| | | | # 20 | | 00 140.9 | | | # 30 |
| Brown, Matt | | ologies Canada | Duratest | Brown, Matt | - | | nologies Canada | |
| words that might have to | Comment Status A s not necessary. For future ar o be revised in the future. | nendments, let's | <i>Bucket</i> avoid unecessary | Comment Typ Wasn't th SuggestedRe | e reach for L | Comment Status D R1 reduced to 6 km? | | withdrawn |
| SuggestedRemedy Delete "three". | | | | - | 10 000" to "6 | | | |
| Response ACCEPT. | Response Status C | | | Proposed Re PROPOS | SED REJECT | Response Status Z | | |
| C/ 140 SC 140.7.9. | P 45 | L 51 | # 29 | This com | ment was W | ITHDRAWN by the commenter | er. | |
| Brown. Matt | | ologies Canada | # 23 | C/ 151 | SC 151.1 | P55 | L 30 | # 31 |
| Comment Type TR | Comment Status A | ologico ounudu | Rx sensitivity | Brown, Matt | | Huawei Tech | nologies Canada | |
| above use the word "sh paragraph at line 51, pro 802.3, the difference be vs "should" or "may". Fr among several possibili mentioning or excluding | at for FR1/LR1 that RS and S ould" which is associated with ovides no value and should b tween normative and informat om the standards style manu- ties, one is recommended as others; or that a certain cour- ould equals is recommended | n an informative s e deleted. Like e titve is clear from lal: "The word sh particularly suita se of action is pr | specification. The verywhere else in the wording, "shall" ould indicates that ıble without | SuggestedRe Change a "Chip-to-("Chip-to-("Chip-to-("Chip-to-(| er terminolog medy as follows. chip 400GAL module 400G chip 400GAL | Comment Status A gy. See Annexes 120B, 120C, JI-16" to "400GAUI-16 C2C" GAUI-16" "400GAUI-16 C2M" JI-8" to "400GAUI-8 C2C" GAUI-8" to "400GAUI-8 C2M" | 120D, 120E. | Buckei |
| Delete the paragraph or | n page 45 line 51. ion is intended, then change | the statements a | above to normative | Response ACCEPT | | Response Status C | | |
| Response | Response Status C | | | | | | | |
| ACCEPT IN PRINCIPLE | Ξ. | | | | | | | |
| A normative specification | n is intended for 100GBASE | -FR1 and 100GB | ASE-LR1. | | | | | |
| Change "should" to "sha | all" on page 45, lines 37 and | 42. | | | | | | |
| In the last paragraph of | 140.7.9, add the amending for | ormatting. | | | | | | |

| C/ 151 SC 151.7 P62 L23 # 32 | C/ 151 SC 151.8.12 P73 L44 # 34 |
|---|--|
| usted, Kent Intel | Effenberger, Frank Futurewei Technologies |
| Comment Type TR Comment Status A Bucket The references to G.652.B and G652.D are assumed to be ITU-T G.652, 2009 from the base standard because no other version is referenced in this draft specification. However, | Comment Type TR Comment Status D withdraw The test method for overshoot is missing SuggestedRemedy |
| a newer version of ITU-T G.652 published 2016 makes numerous changes to the SMF specifications that may be relevant to this draft. | Replace the editor's note with the material found in the associated supplementary file |
| SuggestedRemedy Update the Normative Reference in Clause 1.3 from the base specfication (IEEE 802.3- 2018) with the updated ITU-T G.652 document. | Proposed Response Response Status Z PROPOSED REJECT. |
| Response Response Status C | This comment was WITHDRAWN by the commenter. |
| ACCEPT IN PRINCIPLE. | C/ 140 SC 140.6.2 P43 L12 # 35 |
| Import subclause 1.3 from 802.3-2018 and: Replace ITU-T Recommendation G.652, 2009 with ITU-T Recommendation G.652, 2016 | Trowbridge, Steve Nokia Comment Type ER Comment Status A Bucket Since this is a single-lane interface, there is only one wavelength SuggestedRemedy Change "Wavelengths (range) to "Wavelength (range)" |
| C/ 151 SC 151.7 P 62 L23 # 33 Lusted, Kent Intel | Response Response Status C ACCEPT. |
| Comment Type TR Comment Status A Bucket The references to G.657.A1 and G657.A2 are assumed to be ITU-T G.657, 2009 from the base standard because no other version is referenced in this draft specification. However, However, | C/ 140 SC 140.7.11 P 46 L 36 # 36 Trowbridge, Steve Nokia |
| a newer version of ITU-T G.657 published 2016 makes numerous changes to the SMF specifications that may be relevant to this draft. SuggestedRemedy | Comment Type TR Comment Status A Tx overshow The editor's note is effectively a TBD that should have been considered lack of technical completeness for moving to WG ballot The editor's note is effectively a TBD that should have been considered lack of technical completeness for moving to WG ballot |
| Update the Normative Reference in Clause 1.3 from the base specfication (IEEE 802.3-2018) with the updated ITU-T G.657 document. | SuggestedRemedy Provide the test method for Tx over/under-shoot |
| Response Response Status C ACCEPT IN PRINCIPLE. | Response Response Status C ACCEPT IN PRINCIPLE. |
| Import subclause 1.3 from 802.3-2018 and: | See comment #47 |
| Replace ITU-T Recommendation G.657, 2009 with ITU-T Recommendation G.657, 2016 | |

| C/ 140 | SC 140.10b | P 51 | L14 | # 37 | C/ 151 | SC 151.13.4 | .5 P82 | L 44 | # 40 |
|------------------|---|--|-------------------|------------------------|------------|-------------------------------------|---|----------------------|-----------------------|
| Trowbridge | e, Steve | Nokia | | | Trowbridge | e, Steve | Nokia | | |
| Comment | Туре Т | Comment Status A | | Interop | Comment | Type TR | Comment Status A | | bucke |
| | e case that 100G ax loss specified? | BASE-FR1 can interoperate | with 100GBASE | E-DR with no extra | | | measurement mechanism een specified, you woud ne | | |
| Suggested | Remedy | | | | Suggested | IRemedy | | | |
| perhap | os worth adding a | rate up to DR reach without clause 140.10c with a singl | | | | n OM10 PICS ite added to 151.8.1 | em to this table pointing to 2. | the over/undershoo | ot measurement method |
| | propriate min/ma | | | | Response | | Response Status C | | |
| Response | | Response Status C | | | ACCE | PT IN PRINCIPI | _E. | | |
| | PT IN PRINCIPLI | | | | See c | omment #98. | | | |
| C/ 151 | SC 151.8.5 | P67 | L 29 | # 38 | C/ 140 | SC 140.11.4 | .4 P 54 | L 25 | # 41 |
| Trowbridge | e, Steve | Nokia | | | Trowbridge | e, Steve | Nokia | | |
| Comment | Type TR | Comment Status A | | Tx 10logCeq | Comment | Type TR | Comment Status A | | bucket |
| TDEC | Q-10log10(Ceq) i | s not a parameter for any PI | MD defined in thi | s clause. | | | incorporated into the P802 in 140.7.11 for over/under | | |
| Suggested | • | | | | | | Ift and an OM10 PICs item | | |
| Delete | e ", TDECQ-10log | 10(Ceq)," from the first sent | ence of 151.8.5 | | Suggested | IRemedy | | | |
| Response ACCE | PT IN PRINCIPLI | Response Status C E. | | | 0 | the table from Pant to 140.7.11. | 302.3cd clause 140.11.4.4 | into the draft and a | dd an OM10 PICS item |
| C • • • • | | | | | Response | | Response Status C | | |
| See co | omment #56 | | | | ACCE | PT IN PRINCIPI | _E. | | |
| C/ 151 | SC 151.8.12 | P 73 | L 44 | # 39 | 500 C | omment #91. | | | |
| Trowbridge | e, Steve | Nokia | | | 000 0 | bininent #01. | | | |
| Comment | Type TR | Comment Status A | | Tx overshoot | | | | | |
| | ditor's note is effe eteness for movir | ctively a TBD that should hang to WG ballot | ave been conside | ered lack of technical | | | | | |
| Suggested | Remedy | | | | | | | | |
| Provid | le the test method | for Tx over/under-shoot | | | | | | | |
| Response | | Response Status C | | | | | | | |
| ACCE | PT IN PRINCIPLI | Ε. | | | | | | | |
| See co | omment #47 | | | | | | | | |
| 200 00 | | | | | | | | | |

| CI 80 | SC 80.1.14 | P 25 | L 14 | # 42 | C/ 116 SC 116 | .1.4 | P 33 | L 28 | # 45 |
|---------------------------------------|--|---|-------------------|---------------------|---------------------------------------|-------------------|--|----------------|-------|
| rowbridge | e, Steve | Nokia | | | Marris, Arthur | | Cadence Des | ign Systems | |
| Comment | Type ER | Comment Status D | | | Comment Type E | Comm | ent Status A | | bucke |
| | | 1.4 from P802.3ba and P802.3 | | | There needs to be | e more underlin | ing in Table 116-4 | | |
| | n 6 of IEEE Std 8 I by P802.3cd and | 802.3-2018) are confusing whe | en read in the co | ontext of new PMDs | SuggestedRemedy | | | | |
| | , | u i 002.000 | | | Underline the tabl | e entries for the | e new PMDs in Tab | ble 116-4 | |
| Suggested Bring i | • | change the title of Table 80-4 | I to Nomenclatu | re and clause | Response | Respor | nse Status C | | |
| correla | ation (100GBASE | E-R optical). In this way, the two standard from clause 8.1.4. | | | ACCEPT. | | | | |
| Proposed | Response | Response Status Z | | | C/ 140 SC 140 | .10.2.2 | P 49 | L 45 | # 46 |
| REJE | CT. | | | | Slavick, Jeff | | Broadcom | | |
| This c | omment was WI | THDRAWN by the commente | r. | | Comment Type E Editors direction f | | ent Status A sub-clause is not | proper font | Bucke |
| C/ FM | SC FM | P1 | L30 | # 43 | SuggestedRemedy | | | | |
| /arris, Art | hur | Cadence Desi | gn Systems | | Change to proper | font for providi | ng directions to the | editorial team | |
| Comment | 51 | Comment Status A 0 and 802.3cq-2002 have not | w been approved | bucket | Response ACCEPT. | Respor | nse Status C | | |
| S <i>uggested</i> Chang the dra | ge 802.3cm-20XX | (to 802.3cm-2020 and 802.3c | cq-20XX to 802.3 | 3cq-2020 throughout | | | | | |
| Response ACCE | | Response Status C | | | | | | | |
| C/ FM | SC FM | P 12 | L1 | # 44 | | | | | |
| Marris, Art | hur | Cadence Desi | gn Systems | | | | | | |
| Comment | 51 | Comment Status A 9 has been approved | | bucket | | | | | |
| Suggested | 0 | | | | | | | | |
| | • | to 802.3cg-2019 throughout t | he draft | | | | | | |
| Response | | Response Status C | | | | | | | |
| ACCE | | | | | | | | | |

| C/ 140 | SC 140.7.11 | P 46 | L 36 | # 47 | C/ 151 | SC 151.8.12 | P73 | L 45 | # 48 |
|---------------------------------|--|---|--------------------|-------------------------|-------------------|--|--|-------------------|-----------------------|
| Slavick, Jeff | | Broadcom | | | Slavick, Je | eff | Broadcom | | |
| Comment Ty | vpe TR | Comment Status A | | Tx overshoot | Comment | Type TR | Comment Status A | | Tx overshoo |
| | note states a tes ler shoot require | st method is missing to for cl ements. | hecking that a de | evice complies to the | | s note states a to nder shoot requi | est method is missing to for o rements. | checking that a d | evice complies to the |
| SuggestedRe | emedy | | | | Suggested | Remedy | | | |
| Add a te | set method | | | | Add a | teset method | | | |
| Response | | Response Status 🛛 🛛 🛛 🛛 🛛 🖉 | | | Response | | Response Status W | | |
| ACCEPT | T IN PRINCIPLI | • | | | ACCE | PT IN PRINCIPI | • | | |
| | | Straw Polls #2, #3, and #4 | | | See co | omment #47 | | | |
| paramete | | consensus was to adopt botl | n relative and ab | Solute 1x oversnoot | C/ 00 | SC 0 | P 12 | L1 | # 49 |
| Impleme | ont the changes | in rodes_3cu_01_032420 a | nd in slide 6 of z | ivnv 01 032420 with | Maguire, V | /alerie | The Siemon | Company | |
| editorial | | III 10005_000_01_002420 ul | | wity_01_002+20, with | Comment 802.30 | <i>Type</i> E cg has published | Comment Status A | | bucket |
| Straw Po | oll #2 taken on l | Mar 17 Interim Teleconferen | ce : | | Suggested | Remedy | | | |
| | | | | | Repla | ce, "802.3cg-20> | x" with, "802.3cg-2019" | | |
| | t removing the r s: 10 | elative Tx overshoot/unders | hoot specificatio | n: | Response | | Response Status C | | |
| b) No: | : 26 .bstain) | | | | ACCE | PT. | | | |
| 01 D | | | | | C/ 151 | SC 151.5.1 | P 58 | L 45 | # 50 |
| Straw Po | oll #3 taken on I | Mar 17 Interim Teleconferen | ce: | | Maguire, V | /alerie | The Siemon | Company | |
| l suppor specifica a) Yes | ation | f an absolute value for Tx ov | ershoot/undersh | oot into the | Comment | | Comment Status A paragraphs. | | Bucket |
| b) No: | | | | | Suggested | Remedy | | | |
| (16 Ab | | | | | 00 | - | ns on lines 45 and 46. | | |
| Straw Po | oll #4 taken on l | Mar 17 Interim Teleconferen | ce: | | Response | | Response Status C | | |
| and abso | olute Tx oversh s: 12 | alues proposed in rodes_3cu oot/undershoot | u_01a_0320 (Sli | de 11) for the relative | ACCE | PT. | | | |
| c) Nee | ed more informa | ation: 23 | | | | | | | |

| discussed i http://www. in http://www. 10.log(Ceq) fails to accu impairment appropriate removed. T ggestedRem Delete row 100GBASE Delete "SE0 sponse ACCEPT IN See commo | I in http://ww in Dawe and ieee802.org w.ieee802.org w.ieee802.cc)" is an indir urately indic ts. Similarly e condition fo Fhis will align hedy for "SECQ - E-LR4-6 in T CQ - 10log1 | Comment Statu w.ieee802.org/3/cd I Echeverri-Chac?n /3/cu/public/Jan20/ org/3/cu/public/Jan2 ect and inaccurate ate how hard the E "SECQ - 10log10(C or defining limits for the Recever speci - 10log10(Ceq)f, lar able 151-8. 0(Ceq) (max), lane <i>Response Status</i> | /public/July18/k cited on cole_3cu_01b_0 20/cole_3cu_01b indicator of tran Q has to work, o eq)" has the sa Stressed Rece fications with To he under test (m under test" in th | 0120.pdf#page b_0120.pdf, "T nsmitter impairr or its likely resi ame shortcomir eiver Sensitivity ransmitter spec nax)" for 400GE | e=10, and expanded DECQ- ments. Therefore, it llience to receiver ngs and is not an and should be cifications. BASE-FR4 and |
|--|--|---|---|--|--|
| As outlined discussed i http://www.l in http://www.l in http://www.l 10.log(Ceq) fails to accu impairment appropriate removed. T ggestedRem Delete row 100GBASE Delete "SEC sponse ACCEPT IN See commo | I in http://ww in Dawe and ieee802.org w.ieee802.org w.ieee802.cc)" is an indir urately indic ts. Similarly e condition fo Fhis will align hedy for "SECQ - E-LR4-6 in T CQ - 10log1 | w.ieee802.org/3/cd I Echeverri-Chac?n /3/cu/public/Jan20/ org/3/cu/public/Jan22 ect and inaccurate ate how hard the Ei "SECQ - 10log10(C or defining limits for the Recever speci - 10log10(Ceq)f, lar able 151-8. 0(Ceq) (max), lane <i>Response Status</i> | /public/July18/k cited on cole_3cu_01b_0 20/cole_3cu_01b indicator of tran Q has to work, o eq)" has the sa Stressed Rece fications with To he under test (m under test" in th | 0120.pdf#page b_0120.pdf, "T nsmitter impairr or its likely resi ame shortcomir eiver Sensitivity ransmitter spec nax)" for 400GE | 0718.pdf, e=10, and expanded DECQ- ments. Therefore, it llience to receiver ngs and is not an v and should be cifications. BASE-FR4 and |
| http://www.in http://www.in http://www 10.log(Ceq) fails to accu impairment appropriate removed. T ggestedRem Delete row 100GBASE Delete "SEC sponse ACCEPT IN See commo | ieee802.org w.ieee802.cc)" is an indir urately indic ts. Similarly e condition for This will align nedy for "SECQ - E-LR4-6 in T CQ - 10log1 | /3/cu/public/Jan20/ org/3/cu/public/Jan2 ect and inaccurate ate how hard the E "SECQ - 10log10(C or defining limits for the Recever speci - 10log10(Ceq)f, lar able 151-8. 0(Ceq) (max), lane <i>Response Status</i> | cole_3cu_01b_ 20/cole_3cu_01t indicator of tran Q has to work, o Ceq)" has the sa Stressed Rece fications with T he under test (m under test" in th | b_0120.pdf, "T nsmitter impairr or its likely resi ame shortcomir eiver Sensitivity ransmitter spec nax)" for 400GE | DECQ- ments. Therefore, it llience to receiver ngs and is not an and should be cifications. BASE-FR4 and |
| fails to accu impairment appropriate removed. T ggestedRem Delete row 100GBASE Delete "SEC sponse ACCEPT IN See commo | urately indic ts. Similarly condition fo This will align for "SECQ - E-LR4-6 in T CQ - 10log1 N PRINCIPL | ate how hard the E "SECQ - 10log10(C or defining limits for h the Recever speci - 10log10(Ceq)f, lar able 151-8. 0(Ceq) (max), lane <i>Response Status</i> | Q has to work, c Ceq)" has the sa Stressed Rece fications with T he under test (m under test" in th | or its likely resi ame shortcomir eiver Sensitivity ransmitter spec nax)" for 400GE | ilience to receiver ngs and is not an and should be cifications. BASE-FR4 and |
| ggestedRem Delete row 100GBASE Delete "SE sponse ACCEPT IN See comme | nedy for "SECQ - E-LR4-6 in T CQ - 10log1 N PRINCIPL | - 10log10(Ceq)f, lar able 151-8. 0(Ceq) (max), lane <i>Response Statu</i> s | ne under test (m under test" in tl | nax)" for 400GE | BASE-FR4 and |
| Delete row 100GBASE Delete "SE sponse ACCEPT IN See commo | for "SECQ - E-LR4-6 in T CQ - 10log1 N PRINCIPL | able 151-8. 0(Ceq) (max), lane <i>Response Status</i> | under test" in th | , | |
| 100GBASE Delete "SE sponse ACCEPT IN See comme | E-LR4-6 in T CQ - 10log1 N PRINCIPL | able 151-8. 0(Ceq) (max), lane <i>Response Status</i> | under test" in th | , | |
| sponse ACCEPT IN See comme | N PRINCIPL | Response Statu | | he last bullet ite | em in 151.8.11.2. |
| | | | | | |
| 140 S | C 140.6 | Р | 41 | L18 | # 54 |
| niloff, Eric | | Cier | na | | |
| mment Type | | Comment Statu | | | Tx avg power |
| ~14 dB. Th | is is inconsi | ower max for 100GE stent with 100GBSI ich all use an infinite | E-LR1 as well a | as with 400GBA | SE-FR4 and |
| ggestedRem | nedy | | | | |
| | | | | | ax for 100GBASE- |
| sponse REJECT. | | Response Status | s C | | |
| The followir | ng supportin | ng presentation was | submitted, mai | niloff_3cu_01_0 | 040720. |
| 100GBASE | E-DR. It was | also noted that foo | tnotes "a" and " | | |
| There is no | consensus | to implement the s | uggested reme | dy at this time. | |
| | ggestedRem Use an infi FR1. Repla sponse REJECT. The followi There is m 100GBASE "b" in Table | ggestedRemedy Use an infinite extinction FR1. Replace the value esponse REJECT. The following supporting There is merit to invest 100GBASE-DR. It was "b" in Table 140-7 woul | ggestedRemedy Use an infinite extinction ratio to calculate FR1. Replace the value of -2.9 dBm in Tal esponse Response Status REJECT. The following supporting presentation was There is merit to investigating this topic bu 100GBASE-DR. It was also noted that foo "b" in Table 140-7 would need to be changed | ggestedRemedy Use an infinite extinction ratio to calculate the Average la FR1. Replace the value of -2.9 dBm in Table 140-6 with - esponse Response Status REJECT. The following supporting presentation was submitted, ma There is merit to investigating this topic but there is concert 100GBASE-DR. It was also noted that footnotes "a" and "b" in Table 140-7 would need to be changed. | Use an infinite extinction ratio to calculate the Average launch power ma FR1. Replace the value of -2.9 dBm in Table 140-6 with -3.2 dBm sponse Response Status C REJECT. The following supporting presentation was submitted, maniloff_3cu_01_ There is merit to investigating this topic but there is concern related to ir 100GBASE-DR. It was also noted that footnotes "a" and "b" in Table 14 |

| C/ 140 | SC 140.6. | 3 P44 | L16 | # 55 | C/ 140 | SC 140.6.2 | P 43 | L28 | # 56 |
|-----------------------------------|--|--|---------------------|------------------------|---|--|---|---|--|
| Maniloff, Er | ric | Ciena | | | Stassar, F | Peter | Huawei | | |
| Comment 7 | Гуре Е | Comment Status A | | Buc | et Comment | Type TR | Comment Status A | | Rx 10logCeq |
| for this loss for Suggested | is in 140.9. N r 100GBASE- <i>Remedy</i> e reference fo | ss for 100GBASE-DR is refere lote that 802.3ct had the corre DR. or 100GBASE-DR channel inso <i>Response Status</i> C | ect sub-clause refe | erenced for the channe | "TDE As ou sumn 10.log resilie There Stress | CQ - 10log10(Ce tlined in http://wy narized in http://w g(Ceq)" is not a g ence to receiver in fore "SECQ - 10l sed Receiver Ser | eeting in Geneva the cu Tas q) (max)" in Table 140-6 for ww.ieee802.org/3/cd/public/Ju ww.ieee802.org/3/cu/public/Jo ood indicator of how hard the npairments. og10(Ceq)" is not an approp sitivity and should be remov 0.log(Ceq)" as a metric for tra | 100GBASE-FR uly18/king_3cd_ Jan20/cole_3cu e EQ has to word riate condition for red, maintaining | & LR. 02a_0718.pdf, as _01b_0120.pdf, "TDECQ- k, nor of it's likely or defining limits for consistency with the |
| | | | | | Suggeste | dRemedy | | | |
| | | | | | | e the entries for " Table 140-7. | SECQ - 10log10(Ceq)f (max |)" for 100GBASI | E-FR and 100GBASE- |
| | | | | | sente 140-6 | nce "The TDECC " to "TDECQ sl | lause 140.7.5 in from IEEE S and TDECQ - 10log10(Ceq nall be within the limits given d in a way that the original se |) shall be within in Table 140-6. | the limits given in Table |
| | | | | | bullet "The eye c | to: required values o losure for PAM4 | 40.7.10 in from IEEE Std 80. f the "Stressed receiver sens (SECQ)" are as given in Tab d in a way that the original se | sitivity (OMAoute le 140-7." | er) (max)" and "Stressed |
| | | | | | Response | 9 | Response Status C | | |
| | | | | | ACCE | EPT IN PRINCIPI | .E. | | |
| | | | | | Force Gene decisi | consensus was va to remove "TD | f Straw Poll #1 taken on the to maintain the decision ma DECQ-10Log10(Ceq) and to ong other changes to remove). | de at the 802.3 clean up the dra | cu TF meeting in ft to correctly reflect this |
| | | | | | Imple | ment the change | s in nicholl_3cu_02a_032420 | 0 | |
| | | | | | Straw | Poll #1: | | | |
| | | | | | a) b) | Full removal from | lusion of TDECQ-10log(Ceq both Tx and Rx tables: 27 n Tx and Rx tables: 9 | / 1 / | upport: |

| C/ 151 SC 151 | .7.2 P64 | L35 | # 57 | C/ 151 | SC 15 | 51.8.5.4 | | P 69 | L18 | # 58 |
|--|---|---|---|---|--|---|--|---|---|---|
| Stassar, Peter | Huawei | | | Dawe, Piers | | | 1 | Mellanox | | |
| Comment Type T | R Comment Status A | | Rx 10logCeq | Comment T | vpe · | TR | Comment St | tatus A | | Tx oversho |
| "TDECQ - 10log As outlined in htt summarized in ht 10.log(Ceq)" is n resilience to rece Therefore "SECC Stressed Receive removal of "TDE SuggestedRemedy Delete row for "S 100GBASE-LR4- | 220 meeting in Geneva the cu Tas 10(Ceq) (max)" in Table 151-7 for p://www.ieee802.org/3/cd/public/J ttp://www.ieee802.org/3/cu/public/ ot a good indicator of how hard th iver impairments. 2 - 10log10(Ceq)" is not an approp er Sensitivity and should be remov CQ-10.log(Ceq)" as a metric for tr ECQ - 10log10(Ceq)f, lane under 6 in Table 151-8. e "SECQ - 10log10(Ceq) (max), la | 400GBASE-FR4 uly18/king_3cd_0 Jan20/cole_3cu_ e EQ has to work priate condition fo ved, maintaining of ansmitter quality. test (max)" for 40 | & LR4-6. D2a_0718.pdf, as 01b_0120.pdf, "TDECQ- , nor of it's likely r defining limits for consistency with the D0GBASE-FR4 and | specifie oversho (higher f If in futu limits in SuggestedF In 151.8 Tap 1, t at least Tap 1, t constrai | d in 121 ot spec. ot limit (or a bet re the o the prop <i>emedy</i> .5.4 and ap 2, or 0.8. to: ap 2, or ned to b | I.8.5.4 is Note th (if applied tter signa overshoot posed se d 140.7.5 tap 3 has | too low. No si lat 140.7.5.1 is d at TP3) woul- il). limit is propag- ntence could b d.1 (in 802.3cd) s the largest m s the largest m st 0.8, and for | gnal with le in IEEE St d bite first. gated to oth be consolida), change: nagnitude ta nagnitude ta | ss than about 0.9 d 802.3cd. If we d It would be better er PAM4 PMDs in ated again. | change this to 0.85, the to tighten this to 0.9 maintenance, the two ch is constrained to be 100GBASE-DR, this is |
| 151.8.11.2. | | | | Response | | | Response St | atus U | | |
| Response | Response Status C | | | ACCEP | T IN PR | RINCIPLE | | | | |
| ACCEPT IN PRI | | | | See con | nment # | # 47 | | | | |

| C/ 151 | SC 151.7.1 | P63 | L 29 | # 59 |
|-------------|----------------|------------------|-------------|-------------|
| Dawe, Piers | S | Mellanox | | |
| Comment 7 | Type TR | Comment Status R | | Tx 10logCeq |

The limit for TDECQ - 10log10(Ceq) (also known as K) has been deleted from this table, but it is still needed to protect the receiver from the bad signals that are not caught by the TDECQ limit or the overshoot limit. All other optical PAM4 transmitter specs have such a limit, which was introduced a long time ago, in July 2018 (P802.3cd/D3.4), and its continued presence is needed to protect equalizers, receivers and receiver designs that were/are designed relying on it. Particularly 400GBASE-LR4-6 where the TDECQ limit is higher than for any existing SMF PMD.

To summarize the situation, we need different limits to exclude different kinds of bad signal: K protects receiver back end, TDECQ protects receiver front end and optical budget, overshoot spec against over-emphasised signals not caught by the other specs, and so on. We need them all, but K and TDECQ come off the same measurement, so not an extra cost.

SuggestedRemedy

Restore the limits for TDECQ - 10log10(Ceq) as before (3.4 dB for 400GBASE-FR4 and 3.5 dB for 400GBASE-LR4-6, same as the TDECQ limits).

Response

Response Status U

REJECT.

See comment #87

| C/ 140 | SC 140.6.1 | P41 | L34 | # 60 |
|-------------|------------|------------------|-----|---------|
| Dawe, Piers | | Mellanox | | |
| Comment Ty | pe T | Comment Status R | | Tx TECQ |

IEEE Standards Style Manual, 12. Homogeneity:

"The same term should be used throughout each standard or series of standards to designate a given concept. The use of an alternative term (synonym) for a concept already defined should be avoided."

We have established that TECQ and SECQ are the same thing. While "TECQ" (transmitter) is a nice name for a signal measured at TP2, "SECQ" (stressed or signal) works for a signal measured at TP3 also, so it seems that's the one we must choose.

SuggestedRemedy

Change "TECQ" to "SECQ" throughout the document. In Table 140-6, "TECQ (max)" could be changed to "SECQ at TP2 (max)", although 140.5.1 and 140.7 make clear that it's at TP2.

In tables 140-10 and 151-11, change "Stressed receiver conformance test signal calibration" to "SECQ".

Response Response Status C

REJECT.

The task force adopted the terminology TECQ as a transmit characteristic in order to distinguish it from SECQ. It is a measured characteristic of a transmitter.

SECQ is a measurement taken on the signal used for testing stressed receiver sensitivity. It is a measured characteristic of a particular source.

| C/ 151 | SC 151.8.6 | P 69 | L39 | # 61 |
|------------|------------------------------|--------------------------------|----------------|-----------------------|
| Dawe, Pier | ſS | Mellanox | | |
| Comment | Туре Т | Comment Status A | | Tx TECQ |
| | is a subclause 1 use 140. | 51.8.6 Transmitter eye closure | e for PAM4 (TE | CQ) but no equivalent |

SuggestedRemedy

Move this subclause to 140.7.5a (after TDECQ). Refer to it from 151.

Response Response Status C

ACCEPT IN PRINCIPLE.

Insert a new subclause 140.7.5a with a title of "Transmitter eye closure for PAM4 (TECQ)" after subclause 140.7.5 with the following text:

"The TECQ of each lane shall be within the limits given in Table 140-6 for 100GBASE-FR1 and 100GBASE-LR1 if measured using a test pattern specified for TECQ in Table 140-10. The TECQ of each lane shall be measured using the methods specified for TDECQ in 140.7.5, except that the test fiber is not used."

| | | | | | - | | - | - . | | |
|-------------|------------------|--|------------------|--------------------------|---|-----------------------|--------------|---|--|---|
| C/ 151 | SC 151.7.1 | P63 | L 31 | # 62 | C/ 151 | SC | 151.7.1 | P 63 | L37 | # 64 |
| Dawe, Piers | ; | Mellanox | | | Dawe, Pie | rs | | Mellanox | | |
| Comment Ty | ype TR | Comment Status R | | Tx 10logCeq | Comment | Туре | т | Comment Status R | | Tx transition time |
| When lir | miting TECQ is | s needed, K(TP2) = TDECQ - | 10log10(Ceq) n | nust be limited too. | | | | on time, max 17 ps at TP2, is | | |
| uggestedR | Remedy | | | | | | | ersion PMD type: it's not far o If a transmitter is that slow, | | |
| | | Q in Table 140-6, insert a rov TECQ. Also in Table 151-7. | v for TECQ - 10 | og10(Ceq) (max), with | particu slower | larly in than a | 400GBAS | SE-LR4-6, makes the signal a ASE-DR4 or 100GBASE-DR | at the receiver e R signal could be | even slower, it would be e, yet still pass the |
| Response | | Response Status U | | | | | | imit. Any PMD (polarisation r | | |
| REJECT | Т. | | | | | | | plementers will create equal s for all 100G/lane, so we sh | | |
| | reacted romad | unranacia to odd o now trans | mitter perspect | | | | | I doubt that real transmitter | | |
| (max)" | gested remedy | y proposes to add a new trans | smiller paramete | er recu - rolog ro(ceq) | lf we v | vanted | to contain | the problem more precisely, | we could introd | luce a maximum cursor |
| . | | | | L 0000 | | | | ECQ at TP2 and TDECQ at T | | |
| | | opear to be counter to the dec sk Force in Geneva, to remo | | | across | 8 PMDs | s). | | | |
| | | hich was confirmed in Straw F | | | See ht | tp [.] //iee | e802 ora/ | 3/cn/public/tf interim/19 082 | 0/dawe 3cn 0 ² | 1 190820 pdf for an |
| teleconfe | erence. | | | | | | | sue; halve all the times for 10 | | |
| There is | s no consensus | to implement the proposed of | change. | | Suggested | Reme | dy | | | |
| | | | 5 | | Reduce the transition time limit, to 15 or 16 ps TBD, or introduce a maximum cursor tap | | | | | |
| Straw Po | oll #1 taken on | Mar 17 Interim: | | | limit. T | he limi | it (ps or cu | rsor) should be checked with | n a commercial | simulator. |
| With reg | gards to the inc | lusion of TDECQ-10log(Ceq) | parameter, I su | pport: | Response | | | Response Status C | | |
| , | | both Tx and Rx tables: 27 | | | REJE | CT. | | | | |
| , | Abstain) | n Tx and Rx tables: 9 | | | A simi | lar com | nment #i-3 | 7, against D3.0 of 802.3cn w | as rejected bas | ed on a review of the |
| | , | | | | preser | ntation | linked in th | nis comment. | 2 | |
| C/ 151 | SC 151.8.6 | P 69 | L39 | # 63 | The co | ommen | ter has no | t provided sufficient evidence | e to demonstrat | e that the transmitter |
| awe, Piers | | Mellanox | | | | | e is too loo | | | |
| Comment Ty | | Comment Status R | | Editorial | Thoro | was no | o support d | expressed during the meeting | a rolating to the | commont |
| | | nuch material in 151.8 that du ul reader's time. Transmitter | | | IIIele | washt | support | spressed during the meeting | | comment. |
| SuggestedR | - | | | a prime example. | | | | | | |
| 00 | , | definitions as appropriate. | | | | | | | | |
| , | | | | | | | | | | |
| Response | Ŧ | Response Status C | | | | | | | | |
| REJECT | | lauses, such as 138, 139 and | 140 has been | to duplicate the text of | | | | | | |
| short su | bclauses and i | nsert the changes needed for | the main claus | e. This avoids readers | | | | | | |
| | | between clauses to find what | | | | | | | | |
| | | ch as the definition of TDECQ only duplicated where needed | | ade to the original | | | | | | |
| 0.000.000 | | | | | | | | | | |
| | | | | | | | | | | |

| C/ 140 | SC 140.7.11 | P46 | L 30 | # 65 | | C/ 140 | SC 140.10 | P 50 | L35 | # 67 |
|---------------------|---------------------|---|---------------------|----------------------|---------------|--------------------------------------|--|---|--|------------------------|
| Dawe, Pie | rs | Mellanox | | | | Dawe, Pier | S | Mellanox | | |
| Comment | •• | Comment Status A | | | Bucket | Comment | Туре Т | Comment Status A | | Interop |
| | | for Transmitter over/under- | | | | and be | tween 100GBA | e for interoperation betwe SE-LR1 and 100GBASE-I | R1, but not betwee | n 100GBASE-FR1 and |
| Suggested | Remedy | | | | | | | rately, there are statemer .10a and 140.10b referen | | 1.0 IS NOL TETETETICED |
| | | related to T(D)ECQ measure Q) and before Extinction rati | | er Transmitter eye | e | Suggested | , | | | |
| Response | | Response Status C | | | | | | s-reference and update tw MD interoperates with th | | MD provided that the |
| ACCE | PT IN PRINCIPL | E. | | | | | | for 100GBASE-DR are m | | ND provided that the |
| Move | subclause 140.7. | 11 to subclause 140.7.5b af | ter the newly ins | erted 140.7.5a. | | channe | el requirements | MD interoperates with th defined in 140.10a.2 are | net. | |
| C/ 140 | SC 140.6.1 | P 41 | L 26 | # 66 | | | | MD interoperates with th defined in 140.10a.3 are i | | MD provided that the |
|)awe, Pie | | Mellanox | | | | Charme | errequirements | | net. | |
| comment | | Comment Status R | | Tx OMA - | TDECO | | | 40.10b as follows: | | |
| | 51 | t characteristics, the four rov | vs for OMA - TE | | | | BASE-LR1 | for interoperation betwee | II 100GDASE-DR, | TOUGDASE-FRT, and |
| combi | ned into three. D | oing so will help readers who | o are designing | or testing a transr | | The 10 | 0GBASE-DR, 1 | 00GBASE-FR1, and 100 | GBASE-LR1 PMDs | can interoperate with |
| | | ns at the same time. Similar ve link power budgets. | rly for the "alloca | ation for penalties' | " rows | | ther as describe | d here. Its for interoperation betw | oon 100CBASE_ER | 1 and 100GBASE-DR |
| | | ve link power budgets. | | | | | | ind 100GBASE-DR PMD | | |
| Suggested | inction ratio = 5 d | B -2.2 -1.6 -0.4 | | | | | e fiber optic cab | ing (channel) characteris | ics for 100GBASE- | DR (see 140.10) are |
| for 4.5 | | atio < 5 dB -1.9 -1.6 -0.4 | | | | | | ts for interoperation betw see140.10) are met, with. | | 1 and 100GBASE-DR |
| Response | | Response Status C | | | | 140.10 | | ts for interoperation betw | | 1 and 100GBASE- |
| REJE | CT. | , | | | | FR1 | | (see140.10) are met, with | | |
| 14 1 · · · · | 4 - 1 41 4 41 | | | | 4 | וסר וו | | | | |
| | | uggested remedy is an impro | | , , | | | nsistency, in 15 SBASE-FR4 (se | I.12, e 151.11) are met, with | | |
| | | of Table 140-6 it is clear whe PMD type (i.e. 5dB for 1000 | | | | Response | | Response Status C | | |
| | nd 100GBASE-LI | 51 (| | | | ACCEI | PT IN PRINCIPI | .E. | | |
| | | | | | | becaus | se the tables 14 | erences between 140.6 a 0-15 and 140-16 specify r of the suggested remedy | nin/max channel ins | ertion losses for |
| | | | | | | The 10 channe 140.10 The 10 | 00GBASE-FR1 F el requirements I). 00GBASE-LR1 F | paragraphs starting at lin 2MD interoperates with th for 100GBASE-DR are m 2MD interoperates with th defined in 140.10a.2 are n | e 100GBASE-DR Pl et (see Table 140-1: e 100GBASE-DR Pl | 2 and subclause |
| YPE: TR | /technical require | d ER/editorial required GR/ | general require | d T/technical E/e | editorial G/g | eneral | 114 | | mment ID 67 | Page 16 of 29 |

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

4/21/2020 11:33:26 AM

The 100GBASE-LR1 PMD interoperates with the 100GBASE-FR1 PMD provided that the channel requirements defined in 140.10a.3 are met.

Change 140.10a and 140.10b as follows:

140.10a Requirements for interoperation between 100GBASE-DR. 100GBASE-FR1. and 100GBASE-I R1

The 100GBASE-DR, 100GBASE-FR1, and 100GBASE-LR1 PMDs can interoperate with each other as described here.

140.10a.1 Requirements for interoperation between 100GBASE-FR1 and 100GBASE-DR The 100GBASE-FR1 and 100GBASE-DR PMDs can interoperate with each other provided that the fiber optic cabling (channel) characteristics for 100GBASE-DR (see Table 140-12 and subclause 140.10) are met.

Renumber existing 140.10a to 140.10a.2 add "(see 140.10)" after 100GBASE-DR on 2nd line

Renumber existing 140.10b to 140.10a.3 add "(see 140.10)" after 100GBASE-FR1 on 2nd line

Implement a similar change in clause 151.12 with editorial license.

| C/ 140 | SC 140.6.1 | P41 | L34 | # 68 | Re |
|-------------|------------|------------------|-----|-------------|----|
| Dawe, Piers | ; | Mellanox | | | |
| Comment T | ype TR | Comment Status R | | Tx 10logCeq | |

When limiting TECQ is needed, K(TP2) = TDECQ - 10log10(Ceq) must be limited too.

SuggestedRemedy

Under the row for TECQ in Table 140-6, insert a row for TECQ - 10log10(Ceq) (max), with the same limits as for TECQ. Also in Table 151-7.

Response Response Status U

REJECT

See response to comment #62

| C/ 140 | SC 140.6.1 | P 41 | L 32 | # 69 |
|-------------|------------|------------------|-------------|-------------|
| Dawe, Piers | | Mellanox | | |
| Comment Ty | pe TR | Comment Status R | | Tx 10loqCeq |

Comment Status R

The limit for TDECQ - 10log10(Ceq) (also known as K) is missing from two columns here, but it is still needed to protect the receiver from the bad signals that are not caught by the TDECQ limit or the overshoot limit. All other optical PAM4 transmitter specs have such a limit, which was introduced a long time ago, in July 2018 (P802.3cd/D3.4), and its continued presence is needed to protect equalizers, receivers and receiver designs that were/are designed relying on it.

To summarize the situation, we need different limits to exclude different kinds of bad signal: K protects receiver back end, TDECQ protects receiver front end and optical budget, overshoot spec against over-emphasised signals not caught by the other specs, and so on. We need them all, but K and TDECQ come off the same measurement, so not an extra cost.

SuggestedRemedy

Restore the limit for TDECQ - 10log10(Ceg) for 100GBASE-FR1 100GBASE-LR1, as before (3.4 dB, same as the TDECQ limit).

Response Response Status U

REJECT.

See comment #87

| C/ 140 | SC 140.7.11 | P46 | L33 | # 70 |
|-------------|-------------|------------------|-----|--------------|
| Dawe, Piers | ; | Mellanox | | |
| Comment T | ype TR | Comment Status A | | Tx overshoot |

We need to agree a measurement method for overshoot, and agree a limit. We should have an idea of what the threat is to design a useful defence, but here is a measurement proposal that at least should give consistent results.

First, notice that limiting overshoot at TP2 is pointless if chromatic dispersion can make it higher at TP3.

Also notice that a measurement on a square wave measures the worst of pre-emphasis and post-emphasis, but a real signal's overshoot can be determined by the sum of these. This is a bad choice of pattern anyway because PMAs may fail to lock on it and forward the signal correctly to the PMD.

Also notice that traditional peak measurements are distorted by scope noise, particularly for optical scopes at such high bandwidths.

SuggestedRemedy

Apply the spec to the same cases as TECQ and TDECQ: TP2, TP3 with most positive chromatic dispersion, and TP3 with most positive chromatic dispersion.

Use the same pattern and observation bandwidth as for T(D)ECQ so that determining the overshoot is another free by-product of measuring for T(D)ECQ, with a much simpler, non-iterative, calculation: in tables 140-10 and 151-11, remove the row for "Transmitter over/under-shoot", and here and in, delete "test pattern specified for transmitter over/under-shoot in Table 140-10".

Find the scope noise.

Create a vertical histogram from the measured waveform (not the equalized one). Convolve the histogram with the noise that could be added to it at maximum T(D)ECQ, RSS-reduced by the scope noise.

Find the two points where the CDFs come to a number such as 5e-5.

Response Status U

Either find the distance from the "three" level to the upper point, and from the lower point to the "zero" (these are the overshoot and undershoot before normalisation), or find the distance from the average level to the upper point, and from the lower point to the average (these are the peak excursions).

Normalise by either OMA or standard deviation of the waveform. The former is more familiar, the latter avoids the pattern dependency of the OMA definition.

Limit upper and lower separately because excursions on just one side could overload a receiver.

Adjust the limits according to information I haven't seen at time of writing, or insert an editor's note for tables 140-6 and 151-7: "The limit for transmitter over/under-shoot needs confirmation before Standards Association ballot".

Delete most of 151.8.12 but refer to 140.7.11.

Response

ACCEPT IN PRINCIPLE.

See comment #47

| | C/ 151 S | C 151.8.5 | P 67 | L29 | # 71 |
|---|----------------|-----------|------------------|-----|-------------|
| _ | Stassar, Peter | | Huawei | | |
| t | Comment Type | TR | Comment Status A | | Tx 10logCeg |

Since the agreement at the January 2020 meeting in Geneva to remove the row for "TDECQ - 10log10(Ceq) (max)" in Table 151-7, the inclusion of "TDECQ - 10log10(Ceq)" in the text of subclause 151.8.5 should be removed as well.

SuggestedRemedy

Delete "TDECQ - 10log10(Ceq)," in the first sentence of 151.8.5.

Response Response Status C

ACCEPT IN PRINCIPLE.

See comment #56

| C/ 140 | SC · | 140.6.1 | P 41 | L 42 | # 72 |
|------------|---------|---------|------------------|-------------|--------------|
| Ingham, Jo | onathan | | Broadcom | | |
| Comment | Туре | TR | Comment Status R | | Tx overshoot |

The material reviewed by the Task Force in order to justify the introduction of a Tx over/under-shoot limit is merely anecdotal and ultimately unconvincing.

In particular, I refer to cole_3cu_01b_0120, where Tx waveforms at 26.6 GBd (clearly of questionable relevance to this Task Force) are shown to lead to Rx LOL for 13.5% and 19% overshoot. The introduction of a new specification and the associated limit value of 12% on the basis of these isolated examples is the wrong conclusion. The observed LOL can be attributed to the performance of the particular Rx used for the measurements. Some implementers may have an Rx that performs poorly with 5% overshoot in the input waveform, whilst others may have an Rx that performs well with 30% overshoot. To set the limit based on the examples provided in cole_3cu_01b_0120 is inappropriate. In addition, it is not clear how overshoot is defined in this study, again rendering it difficult to justify the setting of a limit based on the results.

Constraining the Tx performance by introducing an additional specification potentially reduces yield and increases cost. Since there is no evidence that a new constraint is required for the PMD specifications under development by this Task Force, the over/under-shoot specification should be removed. 50 GBd PAM4 SMF PMDs have already undergone rigorous qualification and interoperability studies by end users, without the need being identified for any Tx over/under-shoot constraint other than the existing constraint on the largest magnitude tap coefficient in the reference equalizer.

Finally, with the continuing transition to optical interfaces that are reliant on Rx equalization, the interpretation of constraints on features of the TP2 waveform, especially if measured without the reference equalizer, is increasingly uncertain. This applies not only to traditional mask constraints but also to the constraint introduced in this draft. This is why the existing constraint on the largest magnitude tap coefficient in the reference equalizer is a superior method to control over/under-shoot.

SuggestedRemedy

In Table 140-6, delete the line with description "Transmitter over/under-shoot (max)". In Table 140-10, delete the line with parameter "Transmitter over/under-shoot". Delete subclause 140.7.11.

Response Status 🛛 🛛 🛛 🛛 🛛 🖉

REJECT.

There is no consensus to implement the suggested remedy.

See comment #47

| C/ 151 | SC · | 151.7.1 | P63 | L 38 | # 73 |
|-------------|--------|---------|------------------|------|--------------|
| Ingham, Jon | nathan | | Broadcom | | |
| Comment T | ype | TR | Comment Status R | | Tx overshoot |

The material reviewed by the Task Force in order to justify the introduction of a Tx over/under-shoot limit is merely anecdotal and ultimately unconvincing.

In particular, I refer to cole_3cu_01b_0120, where Tx waveforms at 26.6 GBd (clearly of questionable relevance to this Task Force) are shown to lead to Rx LOL for 13.5% and 19% overshoot. The introduction of a new specification and the associated limit value of 12% on the basis of these isolated examples is the wrong conclusion. The observed LOL can be attributed to the performance of the particular Rx used for the measurements. Some implementers may have an Rx that performs poorly with 5% overshoot in the input waveform, whilst others may have an Rx that performs well with 30% overshoot. To set the limit based on the examples provided in cole_3cu_01b_0120 is inappropriate. In addition, it is not clear how overshoot is defined in this study, again rendering it difficult to justify the setting of a limit based on the results.

Constraining the Tx performance by introducing an additional specification potentially reduces yield and increases cost. Since there is no evidence that a new constraint is required for the PMD specifications under development by this Task Force, the over/under-shoot specification should be removed. 50 GBd PAM4 SMF PMDs have already undergone rigorous qualification and interoperability studies by end users, without the need being identified for any Tx over/under-shoot constraint other than the existing constraint on the largest magnitude tap coefficient in the reference equalizer.

Finally, with the continuing transition to optical interfaces that are reliant on Rx equalization, the interpretation of constraints on features of the TP2 waveform, especially if measured without the reference equalizer, is increasingly uncertain. This applies not only to traditional mask constraints but also to the constraint introduced in this draft. This is why the existing constraint on the largest magnitude tap coefficient in the reference equalizer is a superior method to control over/under-shoot.

SuggestedRemedy

In Table 151-7, delete the line with description "Transmitter over/under-shoot (max)". In Table 151-11, delete the line with parameter "Transmitter over/under-shoot". Delete subclause 151.8.12.

Response Response Status W REJECT. There is no consensus to implement the suggested remedy.

See comment #47

| C/ 140 SC | 140.7.5 | P45 | L25 | # 74 | C/ 151 | SC 151.7.2 | P64 | L 29 | # 77 |
|-----------------|----------------------------|---|------------------|-------------------------------|------------|-------------------------------------|--|-------------------|----------------------------|
| ewis, David | | Lumentum | | | Lewis, Dav | id | Lumentum | | |
| Comment Type | т | Comment Status A | | Tx Ref equalizer | Comment | Туре Т | Comment Status A | | Rx sensitivity |
| | | cd needs to be copied into the 0GBASE-LR1. | e draft and mo | dified to include | 1.4 dB | , but receivers n | les for Receiver sensitivity (meed to work with SECQ up to | 3.4 dB. The for | otnote pointing to the |
| SuggestedRemed | • | | | | | | onvoluted. It would be cleare and simplifying the footnote. | r to revert back | to having the equation |
| | | 0.7.5 from 802.3cd into the d for 100GBASE-DR is a 5 tag | | | Suggested | Remedy | | | |
| tap". | | | | | | | er sensitivity (OMAouter) (ma | | alues of -4.6 and -4.7 |
| Response | | Response Status C | | | with Ec | quation (151-1)a | nd Equation (151-2) respectiv | /ely. | |
| ACCEPT. | | | | | | e footnote c to: value of SECQ ເ | Receiver sensitivity (OMAour up to 3.4 dB. | er) (max) is defi | ned for a transmitter |
| C/ 140 SC | 140.7.1 | P 45 | L 2 | # 75 | Response | | Response Status C | | |
| Lewis, David | | Lumentum | | | ACCEI | PT IN PRINCIPL | .E. | | |
| Comment Type | T | Comment Status A | | Test patterns | lewis (| 3cu 01a 04142 |) was reviewed | | |
| Need to add | TECQ and | Receiver sensitivity to Table | 140-10. | | _ | | | | |
| SuggestedRemed | - | | | | Implen | nent the change | s proposed in lewis_3cu_01a | _041420, with e | ditorial license. |
| Add a row: T | ransmitter | eye closure for PAM4 (TECQ |), pattern 6, s | ubclause 140.7.12. | C/ 151 | SC 151.8.10 | P 70 | L35 | # 78 |
| Add a row: F | Receiver se | nsitivity (OMAouter) (max), pa | attern 3 or 5, s | ubclause 140.7.9. | Lewis, Dav | id | Lumentum | | |
| Response | | Response Status C | | | Comment | Туре Т | Comment Status A | | Rx sensitivity |
| ACCEPT. | | | | | Since I | receiver sensitiv | ity is normative, the word "sh | ould" needs to b | e replaced by "shall". |
| C/ 140 SC | 140.7.12 | P46 | L38 | # 76 | Suggested | Remedy | | | |
| Lewis, David | 140.7.12 | Lumentum | 200 | " 10 | | | sitivity should meet Equation | (1151-1)" with " | Receiver sensitivity |
| Comment Type | т | Comment Status A | | Tx TECQ | | | 51-1)" on line 35. sitivity should meet Equation | (151-2)" with "F | Receiver sensitivity shall |
| Description o | | | | 11 1200 | | Equation (151-2) | | | , |
| SuggestedRemed | | 5 | | | Response | | Response Status C | | |
| | • | 0.7.12 Transmitter eye closu | re for PAM4 (| (ECQ) | ACCEI | PT. | | | |
| and 100GBA | SE-LR1 if n sured using | shall be within the limits given neasured using the test patte the methods specified for TI | n for TECQ ir | Table 140-10. TECQ | | | | | |
| Response | | Response Status C | | | | | | | |
| ACCEPT IN I | PRINCIPLE | : | | | | | | | |
| See commen | it #61 | | | | | | | | |
| | | | | | | | | | |
| TVDE: TD/tochni | cal required | ER/editorial required GR/ge | eneral require | d T/technical E/editorial G/o | ieneral | | Comm | ent ID 78 | Page 20 of 29 |

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

| C/ 151 SC 151.8.10 | P70 | L 47 | # 79 | C/ 151 | SC 151 | P 55 | L· | 1 # 82 |
|---|--|--|--|--|---|---|---|---|
| Lewis, David | Lumentum | | | Lewis, David | | Lumen | tum | |
| Comment Type T The description of RS is | Comment Status D s not complete. | | withdrawn | | , al test data is | Comment Status now available and we apporting presentation | should revisit th | Reach ne limitation of 400GBASE-LR4- |
| SuggestedRemedy | | | | SuggestedR | | 11 51 | | |
| Replace "is the receiver line 47. | r sensitivity" with "is the recei | ver sensitivity (C | DMAouter) (max)", on | | | _R4-6 to 400GBASE-LF | 4 throughout. | |
| Proposed Response | Response Status Z | | | | | | | e a of Table 151-12, Table 151- |
| PROPOSED REJECT. | | | | In Table | | | | or minimum and maximum |
| This comment was WIT | HDRAWN by the commente | r. | | Response | | Response Status | с | |
| | | | | REJECT | | | | |
| C/ 151 SC 151.8.6 Lewis, David | P 69 Lumentum | L 41 | # 80 | Unfortua | intely the sup | porting presentation ref | erenced in the | comment was not available. |
| Comment Type T | Comment Status A | | Tx TECQ | The follo | wing present | ations were submitted, | chang_3cu_01 | _033120 and |
| | other subclauses in 151.8, we | e should referen | ce the limits and the | stassar_ | 3cu_01a_04 | 1420. | | |
| | | | | | | | | |
| test pattern for the test. | | | | There is | no consensu | s to implement the sug | pested remedy | at this time |
| test pattern for the test. SuggestedRemedy | | | | | | s to implement the sug | | |
| SuggestedRemedy Add a sentence at the t | beginning of the paragraph: " | | | There is <i>Cl</i> 140 | no consensu SC 140.6.2 | s to implement the sug P 43 | | |
| SuggestedRemedy Add a sentence at the t the limits given in Table | beginning of the paragraph: "" 9 151-7 for 400GBASE-FR4 a | and 400GBASE- | | | SC 140.6.2 | P43 Lumen | L2 | |
| SuggestedRemedy Add a sentence at the t the limits given in Table using a test pattern spe | beginning of the paragraph: " 151-7 for 400GBASE-FR4 a scified for TECQ in Table 151 | and 400GBASE- | | C/ 140 Lewis, David Comment Ty | SC 140.6.2 | P 43 Lumen Comment Status | L2 tum A | 21 # 83 Rx sensitivity |
| SuggestedRemedy Add a sentence at the t the limits given in Table | beginning of the paragraph: "" 9 151-7 for 400GBASE-FR4 a | and 400GBASE- | | <i>Cl</i> 140 Lewis, David <i>Comment Ty</i> In Table 100GBA | SC 140.6.2 <i>tpe</i> T 140-7 the va SE-LR1 only | P43 Lumen Comment Status lues for Receiver sensit apply for values of SEC | L2 tum A ivity (max) for 1 CQ up to 1.4 dE | 21 # 8 <u>3</u> <i>Rx sensitivit</i> y 100GBASE-FR1 and 3, but receivers need to work |
| SuggestedRemedy Add a sentence at the t the limits given in Table using a test pattern spe Response ACCEPT. | beginning of the paragraph: " 151-7 for 400GBASE-FR4 a scified for TECQ in Table 151 | and 400GBASE- | | CI 140 Lewis, David Comment Ty In Table 100GBA with SEC would be | SC 140.6.2 ype T 140-7 the va SE-LR1 only CQ up to 3.4 of the clearer to re | P43 Lumen Comment Status lues for Receiver sensit apply for values of SEC dB. The footnote pointi evert back to having the | L2 tum A CQ up to 1.4 dE ng to the releva | 21 # 83 <i>Rx sensitivity</i> 100GBASE-FR1 and 3, but receivers need to work ant equations is convoluted. It |
| SuggestedRemedy Add a sentence at the the the limits given in Table using a test pattern spe Response ACCEPT. Cl 151 SC 151.8.1 | beginning of the paragraph: " 9 151-7 for 400GBASE-FR4 a crified for TECQ in Table 151 Response Status C | and 400GBASE- -11. | LR4-6 if measured | CI 140 Lewis, David Comment Ty In Table 100GBA with SEC would be | <i>SC</i> 140.6.2 <i>tpe</i> T 140-7 the va SE-LR1 only CQ up to 3.4 of | P43 Lumen Comment Status lues for Receiver sensit apply for values of SEC dB. The footnote pointi evert back to having the | L2 tum A CQ up to 1.4 dE ng to the releva | 21 # 83 <i>Rx sensitivity</i> 100GBASE-FR1 and 3, but receivers need to work ant equations is convoluted. It |
| SuggestedRemedy Add a sentence at the t the limits given in Table using a test pattern spe Response ACCEPT. | peginning of the paragraph: " a 151-7 for 400GBASE-FR4 a cified for TECQ in Table 151 <i>Response Status</i> C <i>P</i> 66 | and 400GBASE- -11. | LR4-6 if measured | Cl 140 Lewis, David Comment Ty In Table 100GBA with SEC would be simplifyin SuggestedR | SC 140.6.2 rpe T 140-7 the va SE-LR1 only CQ up to 3.4 of the clearer to re- ing the footno- emedy | P43 Lumen Comment Status lues for Receiver sensit apply for values of SEC dB. The footnote pointi evert back to having the te. | L2 tum A Q up to 1.4 dE ng to the releva equation refere | 21 # 83 Rx sensitivity 100GBASE-FR1 and 3, but receivers need to work ant equations is convoluted. It ences in the table and |
| SuggestedRemedy Add a sentence at the the limits given in Table using a test pattern spe Response ACCEPT. C/ 151 SC 151.8.1 Lewis, David Comment Type T | peginning of the paragraph: " 151-7 for 400GBASE-FR4 a cified for TECQ in Table 151 <i>Response Status</i> C <i>P</i> 66 Lumentum | and 400GBASE- -11. | LR4-6 if measured # 81 | Cl 140 Lewis, David Comment Ty In Table 100GBA with SEC would be simplifyin SuggestedRe In Table | SC 140.6.2 ype T 140-7 the va SE-LR1 only CQ up to 3.4 of the clearer to re- ing the footno- emedy 140-7 Received | P43 Lumen Comment Status lues for Receiver sensit apply for values of SEC dB. The footnote pointi evert back to having the te. | L2 tum A Q up to 1.4 dE ng to the releva equation refere er) (max), repla | 21 # 83 <i>Rx sensitivity</i> 100GBASE-FR1 and 3, but receivers need to work ant equations is convoluted. It |
| SuggestedRemedy Add a sentence at the the limits given in Table using a test pattern spe Response ACCEPT. C/ 151 SC 151.8.1 Lewis, David Comment Type T | peginning of the paragraph: " a 151-7 for 400GBASE-FR4 a crified for TECQ in Table 151 <i>Response Status</i> C <i>P</i> 66 Lumentum <i>Comment Status</i> A | and 400GBASE- -11. | LR4-6 if measured # 81 | Cl 140 Lewis, David Comment Ty In Table 100GBA with SEC would be simplifyin SuggestedRe In Table | SC 140.6.2 ype T 140-7 the va SE-LR1 only CQ up to 3.4 of the clearer to re- ing the footno- emedy 140-7 Received | P43 Lumen Comment Status lues for Receiver sensit apply for values of SEC dB. The footnote pointi evert back to having the te. | L2 tum A Q up to 1.4 dE ng to the releva equation refere er) (max), repla | 21 # 83 Rx sensitivity 100GBASE-FR1 and 3, but receivers need to work ant equations is convoluted. It ences in the table and |
| SuggestedRemedy Add a sentence at the the limits given in Table using a test pattern spe Response ACCEPT. Cl 151 SC 151.8.1 Lewis, David Comment Type T Need entries in Table 1 SuggestedRemedy Add a row: Transmitter | peginning of the paragraph: " e 151-7 for 400GBASE-FR4 a scified for TECQ in Table 151 <i>Response Status</i> C <i>P</i> 66 Lumentum <i>Comment Status</i> A 51-11 for TECQ and Receive | and 400GBASE- -11. <i>L</i> 17 er sensitivity. Q), pattern 6, su | LR4-6 if measured # <u>81</u> <i>Test patterns</i> bclause 151.8.6. | Cl 140 Lewis, David Comment Ty In Table 100GBA with SEC would be simplifyin SuggestedRe In Table with Equ Change informati | SC 140.6.2 pe T 140-7 the va SE-LR1 only CQ up to 3.4 (c) a clearer to re- ing the footnor emedy 140-7 Receivi- lation (140-2) footnote c to: ive and for 10 | P43 Lumen Comment Status lues for Receiver sensit apply for values of SEC dB. The footnote pointi vert back to having the te. ver sensitivity (OMAoute and Equation (140-3) re Receiver sensitivity (O 00GBASE-FR1 and 100 | L2 tum A CQ up to 1.4 dE ng to the releva equation refere er) (max), repla spectively. DMAouter) (max GBASE-LR1 is | 21 # 83 Rx sensitivity 100GBASE-FR1 and 3, but receivers need to work ant equations is convoluted. It ences in the table and |
| SuggestedRemedy Add a sentence at the t the limits given in Table using a test pattern spe Response ACCEPT. Cl 151 SC 151.8.1 Lewis, David Comment Type T Need entries in Table 1 SuggestedRemedy Add a row: Transmitter Add a row: Receiver se | beginning of the paragraph: " 151-7 for 400GBASE-FR4 a scified for TECQ in Table 151 <i>Response Status</i> C P66 Lumentum <i>Comment Status</i> A 51-11 for TECQ and Receive reye closure for PAM4 (TECC ensitivity (OMAouter) (max), p | and 400GBASE- -11. <i>L</i> 17 er sensitivity. Q), pattern 6, su | LR4-6 if measured # <u>81</u> <i>Test patterns</i> bclause 151.8.6. | Cl 140 Lewis, David Comment Ty In Table 100GBA with SEC would be simplifyin SuggestedR In Table with Equ Change informati transmitt | SC 140.6.2 pe T 140-7 the va SE-LR1 only CQ up to 3.4 (c) a clearer to re- ing the footnor emedy 140-7 Receivi- lation (140-2) footnote c to: ive and for 10 | P43 Lumen Comment Status lues for Receiver sensit apply for values of SEC dB. The footnote pointi evert back to having the te. ver sensitivity (OMAoute and Equation (140-3) re Receiver sensitivity (O 00GBASE-FR1 and 100 ue of SECQ up to 3.4 dl | L2 tum A CQ up to 1.4 dE ng to the releva equation refere er) (max), repla spectively. DMAouter) (max GBASE-LR1 is 3. | 21 # 83 Rx sensitivity 100GBASE-FR1 and 3, but receivers need to work ant equations is convoluted. It ences in the table and ace the values of -4.5 and -6.1 x) for 100GBASE-DR is |
| SuggestedRemedy Add a sentence at the t the limits given in Table using a test pattern spe Response ACCEPT. Cl 151 SC 151.8.1 Lewis, David Comment Type T Need entries in Table 1 SuggestedRemedy Add a row: Transmitter Add a row: Receiver se Response | peginning of the paragraph: " e 151-7 for 400GBASE-FR4 a scified for TECQ in Table 151 <i>Response Status</i> C <i>P</i> 66 Lumentum <i>Comment Status</i> A 51-11 for TECQ and Receive | and 400GBASE- -11. <i>L</i> 17 er sensitivity. Q), pattern 6, su | LR4-6 if measured # <u>81</u> <i>Test patterns</i> bclause 151.8.6. | Cl 140 Lewis, David Comment Ty In Table 100GBA with SEC would be simplifyin SuggestedR In Table with Equ Change informati transmitt Response | SC 140.6.2 ype T 140-7 the va SE-LR1 only CQ up to 3.4 of a clearer to re- ing the footnoise emedy 140-7 Received lation (140-2) footnote c to: ive and for 10 ter with a value | P43 Lumen Comment Status lues for Receiver sensit apply for values of SEC dB. The footnote pointi wert back to having the te. ver sensitivity (OMAoute and Equation (140-3) re Receiver sensitivity (O 00GBASE-FR1 and 100 ue of SECQ up to 3.4 dl Response Status | L2 tum A CQ up to 1.4 dE ng to the releva equation refere er) (max), repla spectively. DMAouter) (max GBASE-LR1 is 3. | 21 # 83 Rx sensitivity 100GBASE-FR1 and 3, but receivers need to work ant equations is convoluted. It ences in the table and ace the values of -4.5 and -6.1 x) for 100GBASE-DR is |
| SuggestedRemedy Add a sentence at the t the limits given in Table using a test pattern spe Response ACCEPT. C/ 151 SC 151.8.1 Lewis, David Comment Type T Need entries in Table 1 SuggestedRemedy Add a row: Transmitter Add a row: Receiver se | beginning of the paragraph: " 151-7 for 400GBASE-FR4 a scified for TECQ in Table 151 <i>Response Status</i> C P66 Lumentum <i>Comment Status</i> A 51-11 for TECQ and Receive reye closure for PAM4 (TECC ensitivity (OMAouter) (max), p | and 400GBASE- -11. <i>L</i> 17 er sensitivity. Q), pattern 6, su | LR4-6 if measured # <u>81</u> <i>Test patterns</i> bclause 151.8.6. | Cl 140 Lewis, David Comment Ty In Table 100GBA with SEC would be simplifyin SuggestedR In Table with Equ Change informati transmitt Response | SC 140.6.2 pe T 140-7 the va SE-LR1 only CQ up to 3.4 (c) a clearer to re- ing the footnor emedy 140-7 Receivi- lation (140-2) footnote c to: ive and for 10 | P43 Lumen Comment Status lues for Receiver sensit apply for values of SEC dB. The footnote pointi wert back to having the te. ver sensitivity (OMAoute and Equation (140-3) re Receiver sensitivity (O 00GBASE-FR1 and 100 ue of SECQ up to 3.4 dl Response Status | L2 tum A CQ up to 1.4 dE ng to the releva equation refere er) (max), repla spectively. DMAouter) (max GBASE-LR1 is 3. | 21 # 83 Rx sensitivity 100GBASE-FR1 and 3, but receivers need to work ant equations is convoluted. It ences in the table and ace the values of -4.5 and -6.1 x) for 100GBASE-DR is |

| C/ 140 SC 140.7. | 9 P45 | L37 | # 84 | C/ 140 | SC 140.6.1 | | P 41 | L32 | # 87 |
|--|---|--|---|--|---|--|--|------------------------------------|---|
| _ewis, David | Lumentum | | | Nicholl, Ga | ry | (| Cisco System | IS | |
| Comment Type T | Comment Status A | | Rx sensitivity | Comment 1 | ype TR | Comment Si | tatus R | | Tx 10logCe |
| | itivity is normative for 100GBAS e replaced by "shall". | E-FR1 and 100G | BASE-LR1, the word | TDEC0 Table 1 | | (Max) was remo | ved for 100Gl | BASE-FR1 and | 100GBASE-LR1 in |
| SuggestedRemedy | | | | Suggested | Remedy | | | | |
| meet Equation (140 | sensitivity should meet Equation | . , | | values Atlanta | from 802.3cu E | 1.1. A supportir | ng presentatio | | GBASE-LR1 using the ed for the TF meeting in |
| Response | Response Status C | | | Response | - - | Response St | atus C | | |
| ACCEPT IN PRINC | , | | | REJEC | , I. | | | | |
| See response to co | | | | Force | consensus was | to maintain the | decision mad | le at the 802.3c | |
| C/ 140 SC 140.7. | 9 P45 | L 47 | # 85 | | | | | | t to correctly reflect this 0(Ceq)" from the |
| _ewis, David | Lumentum | | | | r specifications | | | U | |
| Comment Type T | Comment Status D | | withdrawn | Straw F | Poll #1· | | | | |
| The description of F | RS is not complete. | | | | | | | | |
| | | | | vvith re | dards to the ind | clusion of TDEC | Q-10loa(Cea) | parameter. I su | pport: |
| | siver sensitivity" with "is the rece | iver sensitivity (C | MAouter) (max)", on | a) Fi b) R | ull removal from | both Tx and Rx Tx and Rx table | tables: 27 | parameter, I su | pport: |
| Replace "is the rece line 47. | eiver sensitivity" with "is the rece <i>Response Status</i> Z | iver sensitivity (C | 0MAouter) (max)", on | a) Fi b) R | ull removal from einstate for bot | both Tx and Rx | tables: 27 | parameter, I su | |
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| Replace "is the rece line 47. Proposed Response PROPOSED REJE | Response Status Z | | DMAouter) (max)", on | a) Fi b) R (17 <i>Cl</i> 140 Nicholl, Ga | ull removal from einstate for both Abstain) SC 140.6.1 ry | n both Tx and Rx n Tx and Rx table | tables: 27 es: 9 P 41 Cisco System | L 42 | # 88 |
| Replace "is the rece line 47. Proposed Response PROPOSED REJE This comment was | Response Status Z CT. WITHDRAWN by the commente | ər. | | a) Fi b) R (17 <i>Cl</i> 140 Nicholl, Ga <i>Comment T</i> Transm | ull removal from einstate for both Abstain) SC 140.6.1 ry Type TR | n both Tx and Rx n Tx and Rx table (Comment Si | tables: 27 es: 9 P 41 Cisco System tatus A | L 42 Is | # 88 |
| line 47. Proposed Response PROPOSED REJE This comment was Cl 140 SC 140.7. | Response Status Z CT. WITHDRAWN by the commente 9 P45 | | 0MAouter) (max)", on # <u>86</u> | a) Fi b) R (17 <i>Cl</i> 140 Nicholl, Ga <i>Comment T</i> Transm | ull removal from einstate for both Abstain) SC 140.6.1 ry Type TR hitter over/unde e too stringent. | n both Tx and Rx n Tx and Rx table (Comment Si | tables: 27 es: 9 P 41 Cisco System tatus A | L 42 Is | # 88 Tx overshoo |
| Replace "is the rece line 47. Proposed Response PROPOSED REJEC This comment was C/ 140 SC 140.7. Lewis, David | Response Status Z CT. WITHDRAWN by the commente | ər. | | a) Fu b) R (17 <i>Cl</i> 140 Nicholl, Ga <i>Comment T</i> Transm LR1 an <i>Suggestedi</i> Change | ull removal from einstate for both Abstain) SC 140.6.1 ry Type TR hitter over/unde e too stringent. Remedy | n both Tx and Rx n Tx and Rx table <i>Comment St</i> r-shoot (max) sp ver/under-shoot | tables: 27 es: 9 P41 Cisco System tatus A ecifications fo | L 42 Is or 100GBASE-F | # <u>88</u> <i>Tx overshoo</i> R1 and 100GBASE- |
| Replace "is the rece line 47. Proposed Response PROPOSED REJEC This comment was C/ 140 SC 140.7. Lewis, David Comment Type ER There is underlining | Response Status Z CT. WITHDRAWN by the commente 9 P45 Lumentum | er. L 50 | # <u>86</u> Bucket | a) Fu b) R (17 <i>Cl</i> 140 Nicholl, Ga <i>Comment T</i> Transm LR1 an <i>Suggestedi</i> Change | ull removal from einstate for both Abstain) SC 140.6.1 ry Type TR hitter over/unde e too stringent. Remedy e Transmitter over | n both Tx and Rx n Tx and Rx table <i>Comment St</i> r-shoot (max) sp ver/under-shoot | tables: 27 es: 9 P41 Disco System tatus A ecifications fo (max) specific | L 42 Is or 100GBASE-F | # <u>88</u> <i>Tx overshoo</i> R1 and 100GBASE- |
| Replace "is the rece line 47. Proposed Response PROPOSED REJEC This comment was C/ 140 SC 140.7. Lewis, David Comment Type ER There is underlining 802.3cd. | Response Status Z CT. WITHDRAWN by the commente 9 P45 Lumentum Comment Status A | er. L 50 | # <u>86</u> Bucket | a) Fu b) R (17 <i>Cl</i> 140 Nicholl, Ga <i>Comment T</i> Transm LR1 an <i>Suggestedl</i> Changu 100GB <i>Response</i> | ull removal from einstate for both Abstain) SC 140.6.1 ry Type TR hitter over/unde e too stringent. Remedy e Transmitter over | n both Tx and Rx n Tx and Rx table (<i>Comment Si</i> r-shoot (max) sp ver/under-shoot 12% to 30% <i>Response St</i> | tables: 27 es: 9 P41 Disco System tatus A ecifications fo (max) specific | L 42 Is or 100GBASE-F | # <u>88</u> <i>Tx overshoo</i> R1 and 100GBASE- |
| Replace "is the rece line 47. Proposed Response PROPOSED REJEC This comment was Cl 140 SC 140.7. ewis, David Comment Type ER There is underlining 802.3cd. SuggestedRemedy | Response Status Z CT. WITHDRAWN by the commente 9 P45 Lumentum Comment Status A | er. <i>L</i> 50 e 50 for changes | # 86 Bucket from the original text in | a) Fu b) R (17 C/ 140 Nicholl, Ga Comment T Transm LR1 ard Suggested/ Change 100GB Response ACCEF | ull removal from einstate for both Abstain) SC 140.6.1 ry Type TR hitter over/unde e too stringent. Remedy e Transmitter of ASE-LR1 from | n both Tx and Rx n Tx and Rx table (<i>Comment Si</i> r-shoot (max) sp ver/under-shoot 12% to 30% <i>Response St</i> | tables: 27 es: 9 P41 Disco System tatus A ecifications fo (max) specific | L 42 Is or 100GBASE-F | # <u>88</u> <i>Tx oversho</i> R1 and 100GBASE- |
| Replace "is the rece line 47. Proposed Response PROPOSED REJEC This comment was Cl 140 SC 140.7. Lewis, David Comment Type ER There is underlining 802.3cd. SuggestedRemedy Underline "the 1000 | Response Status Z CT. WITHDRAWN by the commente 9 P45 Lumentum Comment Status A required in the paragraph at line | er. <i>L</i> 50 e 50 for changes | # 86 Bucket from the original text in | a) Fu b) R (17 C/ 140 Nicholl, Ga Comment T Transm LR1 ard Suggested/ Change 100GB Response ACCEF | ull removal from einstate for both Abstain) SC 140.6.1 ry Type TR nitter over/unde e too stringent. Remedy e Transmitter of ASE-LR1 from PT IN PRINCIP | n both Tx and Rx n Tx and Rx table (<i>Comment Si</i> r-shoot (max) sp ver/under-shoot 12% to 30% <i>Response St</i> | tables: 27 es: 9 P41 Disco System tatus A ecifications fo (max) specific | L 42 Is or 100GBASE-F | # <u>88</u> <i>Tx overshoo</i> R1 and 100GBASE- |

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: Comment ID

| C/ 140 | SC 1 | 140.6.1 | P 41 | L 42 | # 89 | C/ 140 | SC | 140.11.4.6 | 6 P 54 | | L 28 | # 91 |
|-------------------------------|------------------------------------|---|--|--|---|-------------------|---------------|------------|--|-------------|----------------|---|
| Nicholl, Ga | ary | | Cisco System | S | | Nicholl, Ga | ry | | Cisco | Systems | | |
| Comment | Туре | TR | Comment Status R | | Tx overshoot | Comment T | уре | т | Comment Status | Α | | bucket |
| | | | shoot (max) specifications for as normative. | r 100GBASE-FI | R1 and 100GBASE- | Missing | PICS | items for | Overshoot, TECQ ar | d Receiver | Sensitivity te | ests |
| | | | as normalive. | | | Suggested | Remea | ly | | | | |
| for a d | nitter ov lifferent | /er/under- PAM4 PM | shoot (max) specifications a ID. Change the specification | s to informative | | new PI | CS iter | ns for Ove | 4 from 802.3cd befor rshoot, TECQ and Re SE-FR1 and 100GBA | eceiver Sen | sitivity. Make | nd amend to include e this PICS items |
| | te for bo | oth 100BA | SE-FR1 and 100GBASE-LR | 1. | | Response | | | Response Status | с | | |
| Response | • T | | Response Status C | | | ACCEF | PT. | | | | | |
| REJEC | | | | | | C/ 151 | SC | 151.7.1 | P63 | | L15 | # 92 |
| There | is no co | onsensus | to implement the suggested | remedy. | | Nicholl, Ga | ry | | Cisco | Systems | | |
| See co | omment | #47 | | | | Comment 7 | - уре | т | Comment Status | A | | Tx avg power |
| Cl 140 Nicholl, Ga | | 140.7.11 | P 46 Cisco System | L 35 | # 90 | LR4-6 | is inco | | vith that used for 400 | | | (max) for 400GBASE- E-DR, 100GBASE- |
| Comment | , | TR | Comment Status A | 5 | Tx overshoot | | | | | | | |
| | 51 | | shoot measurement method | lacking many de | | | | | SE-LF4-6 the average | | | higher than the OMA han the PMA max. |
| Suggested | Remedy | У | | | | Suggested | Remea | ly | | | | |
| Replac | ce the e | ditors not | e with the following text: | | | Make t | ne follo | owing char | nges in Table 151-7: | | | |
| level (t scaling oversh | the conv g the sig noot leve | volution of gma of the el meets t | shoot is measured by applyi the oscilloscope noise and a noise until the cumulative d he CDF of the signal at the S lly centered at 0.45 UI and 0. | an ideal gaussia stribution function ER of the PMD | n distribution) and on (CDF) of the type, and is measured | 4.2 dBi | n. e the T | Ū | unch power, each lan ge launch power (ma | 、 , | | LR4-6 from 5.6 dBm to 6 from 11.6 dBm to |
| The ov over/u | /er/unde nder-sho | er-shoot te oot level i | est passes if the CDF reache n both of the measurement v | s the prescribed vindows. The co | SER below the mbined response of | Make t | ne follo | owing char | nges in Table 151-8: | | | |
| | | | oscilloscope has a 3 dB band sel-Thompson response to at | | | Change to 4.2d | | Average re | ceive power, each la | ne (max) fo | r 400GBASE | -LR4-6 from 5.6 dBm |
| | | | z the response should not ex from an ideal fourth-order Be | | | | | Damage th | iresholda, each lane | for 400GBA | SE-LR4-6 fr | om 6.6 dBm to 5.2dBm. |
| Response | | | Response Status C | | | Make t | ne follo | owing char | nges to Table 151-16 | in Section | 151.12: | |
| | | | Ε. | | | Chang dB to 0 | | 00GBASE | -LR4-6 transmitter to | 400GBASE | E-FR4 receiv | er Min loss from 2.1 |
| See co | omment | #47 | | | | Response | . | | Response Status | С | | |
| | | | | | | ACCER | 1. | | | | | |

| C/ 151 | SC 151.7.1 | P63 | L28 | # 93 | C/ 151 | SC | 151.7.1 | | P63 | L38 | # 95 |
|---------------|------------------------------------|--|------------------|------------------|--|--------------------------------------|-----------------------------|-------------------------------------|----------------------------------|--|--|
| Nicholl, Gary | | Cisco Systems | | π 33 | Nicholl, Ga | | 101.7.1 | | Cisco Systen | | # 35 |
| Comment Ty | | Comment Status R | <u>,</u> | Tx 10logCeq | Comment 1 | | TR | Comment S | | | Tx overshoo |
| TDECQ | , -10log10(Ceq) | (Max) was removed from Tabl | e 151-7. | | Transn | nitter o | ver/under- | | ecifications f | or 400GBASE-FI | R4 and 400GBASE- |
| 151-7, a | e TDECQ-10k nd using the v | pg10(Ceq)(Max) for 400GBAS alues from 802.3cu D1.1 ion will be provided for the TF | | | <i>Suggested</i> Transn for a di | <i>Remec</i> nitter o ifferent | ly ver/under- PAM4 PN | -shoot (max) sp | ecifications a specification | s to informative v | ised by one customer, vith an appropriate |
| Response | ing presenta | Response Status C | meeting in Au | anta. | Response | .0 101 0 | | Response St | | | |
| REJECT | г. | | | | REJEC | CT. | | | | | |
| See con | nment #87 | | | | There i | is no co | onsensus | to implement th | ne suggested | remedy. | |
| C/ 151 | SC 151.7.1 | P63 | L 38 | # 94 | See co | mmen | t #47 | | | | |
| Nicholl, Gary | / | Cisco Systems | 6 | | C/ 151 | SC | 151.8.10 | | P70 | L32 | # 96 |
| Comment Ty | • | Comment Status A | | Tx overshoot | Nicholl, Ga | rv | | | Cisco Systen | าร | |
| | tter over/under re too stringen | r-shoot (max) specifications fo t | r 400GBASE-F | R4 and 400GBASE- | Comment 1 | | т | Comment S | , | | Rx sensitivit |
| SuggestedR | emedy | ver/under-shoot (max) specific | cations for 4000 | BASE-FR4 and | | | | | | mative. Yet the s ve specification. | tatements use the |
| | SE-LR4-6 fror | | | | | | | | | | d informative is clear |
| | | Response Status C .E. | | | should suitable | indicat e witho | tes that ar out mentio | mong several po ning or excludir | ossibilities, o ng others; or | | |
| See con | nment #47 | | | | Suggested | Remed | ły | | | | |
| | | | | | lf a nor ("shall" | | | ion is intended, | then chang | e the statements | above to normative |
| | | | | | Response | | | Response St | atus C | | |
| | | | | | | | PRINCIPL uld" to "sh | E. all" in 151.8.10 | - line 35 and | line 38. | |

| C/ 151 | SC 151.8.12 | P73 | L 44 | # 97 | C/ FM | SC FM | P 12 | L13 | # 99 |
|---|--|---|---|---|---|---|--|-------------------------------|--|
| Nicholl, Ga | ary | Cisco System | s | | Dudek, Mik | ke | Marvell. | | |
| Comment | 51 | Comment Status A | | Tx overshoot | Comment | | Comment Status A | | buck |
| Transn | nitter over/under- | -shoot measurement method | lacking many de | efinitions | 802.3c | cm project is | complete | | |
| Suggested | Remedy | | | | Suggested | Remedy | | | |
| Replac | ce the editors not | te with the following text: | | | Chang | je 20xx to the | e appropriate date. | | |
| Transn | nitter over/under- | -shoot is measured by applyi | ng a noise functi | ion to an overshoot | Response | | Response Status C | | |
| | | f the oscilloscope noise and a | | | ACCEI | PT. | | | |
| | | e noise until the cumulative d the CDF of the signal at the S | | | C/ 00 | SC 0 | P 44 | L18 | # 100 |
| | | Illy centered at 0.45 UI and 0. est passes if the CDF reache | | | Dudek, Mik | ke | Marvell. | | |
| | | in both of the measurement v | | | Comment | | Comment Status A | | buck |
| 41 0/1 | E convortor and (| oscilloscope has a 3 dB band | width of annrovi | imately 26 5625 GHz | Incorre | oct roforonco | in table 140-8 | | |
| | | | | | Incorre | | | | |
| with a | fourth-order Bess | sel-Thompson response to at | least 1.3 x 53.1 | 25 GHz. At frequencies | | | | | |
| with a above | fourth-order Bess 1.3 x 53.125 GH | | least 1.3 x 53.1 ceed -20 dB. Co | 25 GHz. At frequencies propensation may be | Suggested | Remedy | um discrete reflectance from | "see 140.10.3" to "s | see 140.10.2.2 |
| with a above | fourth-order Bess 1.3 x 53.125 GH | sel-Thompson response to a z the response should not ex | least 1.3 x 53.1 ceed -20 dB. Co | 25 GHz. At frequencies propensation may be | Suggested | <i>IRemedy</i> je the maxim | um discrete reflectance from | "see 140.10.3" to "s | see 140.10.2.2 |
| with a above made t Response | fourth-order Bess 1.3 x 53.125 GH | sel-Thompson response to al z the response should not ex from an ideal fourth-order Be <i>Response Status</i> C | least 1.3 x 53.1 ceed -20 dB. Co | 25 GHz. At frequencies propensation may be | <i>Suggested</i> Chang | <i>IRemedy</i> Je the maxim | | "see 140.10.3" to "s | see 140.10.2.2 |
| with a above made t <i>Response</i> ACCEI | fourth-order Bess 1.3 x 53.125 GH for any deviation | sel-Thompson response to al z the response should not ex from an ideal fourth-order Be <i>Response Status</i> C | least 1.3 x 53.1 ceed -20 dB. Co | 25 GHz. At frequencies propensation may be | Suggested Chang Response | <i>IRemedy</i> Je the maxim | um discrete reflectance from Response Status C | "see 140.10.3" to "s | see 140.10.2.2 # 101 |
| with a above made t <i>Response</i> ACCEI | fourth-order Bess 1.3 x 53.125 GH for any deviation PT IN PRINCIPL | sel-Thompson response to al z the response should not ex from an ideal fourth-order Be <i>Response Status</i> C E. | least 1.3 x 53.1 ceed -20 dB. Co | 25 GHz. At frequencies propensation may be | Suggested Chang Response ACCEI | IRemedy ge the maxim PT. SC 140.7 | um discrete reflectance from Response Status C | | |
| with a above made t <i>Response</i> ACCEI See co | fourth-order Bess 1.3 x 53.125 GH for any deviation PT IN PRINCIPL pmment #47 SC 151.13.4. | sel-Thompson response to al z the response should not ex from an ideal fourth-order Be <i>Response Status</i> C E. | Least 1.3 x 53.1 ceed -20 dB. Co essel-Thompson | 25 GHz. At frequencies ompensation may be response. | Suggested Chang Response ACCEI Cl 140 | IRemedy je the maxim PT. SC 140.7 ke | um discrete reflectance from <i>Response Status</i> C .5.1 <i>P</i> 45 | | |
| with a above made f Response ACCEI See cc C/ 151 | fourth-order Bess 1.3 x 53.125 GH for any deviation PT IN PRINCIPL omment #47 SC 151.13.4 .5 | sel-Thompson response to al z the response should not ex from an ideal fourth-order Be <i>Response Status</i> C E. 5 <i>P</i> 82 | Least 1.3 x 53.1 ceed -20 dB. Co essel-Thompson | 25 GHz. At frequencies ompensation may be response. | Suggested Chang Response ACCEI Cl 140 Dudek, Mik Comment | IRemedy ge the maxim PT. SC 140.7 ke Type T | um discrete reflectance from <i>Response Status</i> C .5.1 <i>P</i> 45 Marvell. | L 25 | # <u>101</u> Tx Ref equalize |
| with a above made f Response ACCEI See co C/ 151 Nicholl, Ga Comment | fourth-order Bess 1.3 x 53.125 GH for any deviation PT IN PRINCIPL omment #47 SC 151.13.4 . ary <i>Type</i> T | sel-Thompson response to al z the response should not ex from an ideal fourth-order Be <i>Response Status</i> C E. 5 <i>P</i> 82 Cisco System | Least 1.3 x 53.1 ceed -20 dB. Co ssel-Thompson | 25 GHz. At frequencies ompensation may be response. # <u>98</u> <i>bucket</i> | Suggested Chang Response ACCEI Cl 140 Dudek, Mik Comment | IRemedy ge the maxim PT. SC 140.7 ke Type T ference equa | um discrete reflectance from <i>Response Status</i> C .5.1 <i>P</i> 45 Marvell. <i>Comment Status</i> A | L 25 | # <u>101</u> Tx Ref equalize |
| with a above made f Response ACCEI See co C/ 151 Nicholl, Ga Comment | fourth-order Bess 1.3 x 53.125 GH for any deviation PT IN PRINCIPL pmment #47 SC 151.13.4.4 ary Type T g PICS items for | sel-Thompson response to al z the response should not ex from an ideal fourth-order Be <i>Response Status</i> C E. 5 <i>P</i> 82 Cisco System <i>Comment Status</i> A | Least 1.3 x 53.1 ceed -20 dB. Co ssel-Thompson | 25 GHz. At frequencies ompensation may be response. # <u>98</u> <i>bucket</i> | Suggested Chang Response ACCEI Cl 140 Dudek, Mik Comment The res | IRemedy ge the maxim PT. SC 140.7 ke Type T Iference equa | um discrete reflectance from <i>Response Status</i> C .5.1 <i>P</i> 45 Marvell. <i>Comment Status</i> A | L 25 100GBASE-LR1 n | # <u>101</u> <i>Tx Ref equalize</i> needs to be defined. |
| with a above made f Response ACCEI See co C/ 151 Nicholl, Ga Comment Missing | fourth-order Bess 1.3 x 53.125 GH for any deviation PT IN PRINCIPL pmment #47 SC 151.13.4.4 ary Type T g PICS items for <i>IRemedy</i> | sel-Thompson response to al z the response should not ex from an ideal fourth-order Be <i>Response Status</i> C E. 5 <i>P</i> 82 Cisco System <i>Comment Status</i> A | L24 L24 s | 25 GHz. At frequencies ompensation may be response. # <u>98</u> <i>bucket</i> ests | Suggested Chang Response ACCEI CI 140 Dudek, Mik Comment The re Suggested Bring 1 | IRemedy ge the maxim PT. SC 140.7 ke Type T Iference equa | um discrete reflectance from <i>Response Status</i> C .5.1 <i>P</i> 45 Marvell. <i>Comment Status</i> A alizer for 100GBASE-FR1 and the draft and change "100GB | L 25 100GBASE-LR1 n | # <u>101</u> <i>Tx Ref equalize</i> needs to be defined. |
| with a above made f Response ACCEI See co C/ 151 Nicholl, Ga Comment Missing | fourth-order Bess 1.3 x 53.125 GH for any deviation PT IN PRINCIPL pmment #47 SC 151.13.4.4 ary Type T g PICS items for <i>IRemedy</i> | sel-Thompson response to al z the response should not ex from an ideal fourth-order Be <i>Response Status</i> C E. 5 <i>P</i> 82 Cisco System <i>Comment Status</i> A Overshoot, TECQ and Rece or Overshoot, TECQ and Rece | L24 L24 s | 25 GHz. At frequencies ompensation may be response. # <u>98</u> <i>bucket</i> ests | Suggested Chang Response ACCEI Cl 140 Dudek, Mik Comment The re Suggested Bring 1 FR1 ar Response | IRemedy je the maxim PT. SC 140.7 ke Type T oference equa IRemedy 140.7.5.1 into nd 100GBAS | um discrete reflectance from <i>Response Status</i> C .5.1 <i>P</i> 45 Marvell. <i>Comment Status</i> A alizer for 100GBASE-FR1 and the draft and change "100GI E-LR1" <i>Response Status</i> C | L 25 100GBASE-LR1 n | # <u>101</u> <i>Tx Ref equalize</i> needs to be defined. |
| with a above made to Response ACCEI See co C/ 151 Nicholl, Ga Comment Missing Suggested Add ne | fourth-order Bess 1.3 x 53.125 GH for any deviation PT IN PRINCIPL promment #47 SC 151.13.4.4 Type T g PICS items for <i>Remedy</i> ew PICS items for | sel-Thompson response to al z the response should not ex from an ideal fourth-order Be <i>Response Status</i> C E. 5 <i>P</i> 82 Cisco System <i>Comment Status</i> A Overshoot, TECQ and Rece | L24 L24 s | 25 GHz. At frequencies ompensation may be response. # <u>98</u> <i>bucket</i> ests | Suggested Chang Response ACCEI Cl 140 Dudek, Mik Comment The re Suggested Bring 1 FR1 ar Response ACCEI | IRemedy je the maxim PT. SC 140.7 ke Type T ofference equa IRemedy 140.7.5.1 into nd 100GBAS | um discrete reflectance from <i>Response Status</i> C .5.1 <i>P</i> 45 Marvell. <i>Comment Status</i> A alizer for 100GBASE-FR1 and the draft and change "100GI E-LR1" <i>Response Status</i> C CIPLE. | L 25 100GBASE-LR1 n | # <u>101</u> <i>Tx Ref equalize</i> needs to be defined. |

| | 7.9 P45 | L 50 | # 102 | C/ 140 SC 140 | .10b | P 51 | L32 | # 105 |
|--|---|--|--|---|--|---|-----------------|---|
| Dudek, Mike | Marvell. | | | Dudek, Mike | М | arvell. | | |
| Comment Type T | Comment Status A | | Rx sensitivity | Comment Type T | Comment Sta | ntus A | | Interop |
| | biguous as to whether sensitivity it is normative on line 50, but "sh | | | SECQ. The max | R1 receiver has 1.6dE attenuation should be nels are the same exc | 1.6dB more th | nan the max Fl | han FR1 at the same R channel attenuation |
| SuggestedRemedy | | | | SuggestedRemedy | | | | |
| Change "should m | neet" to "shall meet" on lines 37 a | nd 42. | | Change the maxi | mum loss from 5.1dB t | o 5.6dB. | | |
| Response | Response Status C | | | Response | Response Sta | tus C | | |
| ACCEPT IN PRIN | CIPLE. | | | ACCEPT. | | | | |
| See response to c | omment #29. | | | C/ 140 SC 140 | .10b | P51 | L33 | # 106 |
| C/ 140 SC 140. | 10a P51 | L11 | # 103 | Dudek, Mike | Μ | arvell. | | |
| Dudek, Mike | Marvell. | | | Comment Type T | | | | Interop |
| Comment Type T | Comment Status A | | Interop | | | | - | .2 over FR1. The max |
| The 100GBASE-L | R1 receiver has 2.2dB better stre | essed sensitivity t | , han DR at the same | | d be 1.2dB more than same except for attent | | channel attenu | lation (4dB) as the |
| | attenuation should be 2.2dB more | | | SuggestedRemedy | | | | |
| (2 6dB in table 14) | | no oveent for ette | | | | | | |
| , | 0-12) as the channels are the san | ne except for alle | enuation. | | mum loss from 4.9 dB | to 5.2dB | | |
| SuggestedRemedy | , | ne except for alle | nuation. | Change the maxi | mum loss from 4.9 dB | | | |
| SuggestedRemedy | num loss from 4.5dB to 4.8dB. | ne except for alle | nualion. | Change the maxi Response | mum loss from 4.9 dB <i>Response Sta</i> | | | |
| SuggestedRemedy Change the maxim | , | | nualion. | Change the maxi | | | | |
| SuggestedRemedy Change the maxim | , num loss from 4.5dB to 4.8dB. | | nualion. | Change the maxi Response | Response Sta | | L 40 | # 107 |
| SuggestedRemedy Change the maxin Response ACCEPT. | num loss from 4.5dB to 4.8dB. Response Status C | L 10 | # 104 | Change the maxi <i>Response</i> ACCEPT. | Response Sta | tus C | L 40 | # <u>107</u> |
| SuggestedRemedy Change the maxim Response ACCEPT. Cl 140 SC 140. | num loss from 4.5dB to 4.8dB. Response Status C | | | Change the maxi Response ACCEPT. Cl 140 SC 140 | Response Sta .11.4.6 M | <i>tus</i> C <i>P</i> 54 arvell. | L40 | # <u>107</u> bucket |
| SuggestedRemedy Change the maxin Response ACCEPT. | num loss from 4.5dB to 4.8dB. Response Status C | | | Change the maxi Response ACCEPT. Cl 140 SC 140 Dudek, Mike Comment Type T The requirements | Response Sta .11.4.6 M <i>Comment Sta</i> s for the maximum disc | tus C P54 arvell. itus A irete reflectance | | bucket |
| SuggestedRemedy Change the maxim Response ACCEPT. C/ 140 SC 140. Dudek, Mike Comment Type T | num loss from 4.5dB to 4.8dB. Response Status C 10a P 51 Marvell. | L 10 | # 104 Interop | Change the maxi Response ACCEPT. Cl 140 SC 140 Dudek, Mike Comment Type T The requirements LR1/FR1 which a | Response Sta 11.4.6 M Comment Sta | tus C P54 arvell. itus A irete reflectance | | bucket |
| SuggestedRemedy Change the maxim Response ACCEPT. Cl 140 SC 140. Dudek, Mike Comment Type T The 100GBASE-Li (when extinction ra | num loss from 4.5dB to 4.8dB. <i>Response Status</i> C 10a <i>P</i> 51 Marvell. <i>Comment Status</i> A R1 transmitter has a minimum OI atio is between 4.5 and 5dB). The | L 10 MA-TDECQ incre e max attenuatior | # <u>104</u> <i>Interop</i> ease of 1.5 dB over DR n should be 1.5dB more | Change the maxi Response ACCEPT. Cl 140 SC 140 Dudek, Mike Comment Type T The requirements LR1/FR1 which a SuggestedRemedy | Response Sta .11.4.6 M Comment Sta for the maximum disc re given in Table 140-7 | <i>P</i> 54 arvell. <i>itus</i> A rete reflectanc | | bucke |
| SuggestedRemedy Change the maxim Response ACCEPT. C/ 140 SC 140. Dudek, Mike Comment Type T The 100GBASE-LI (when extinction ra than the max DR of | num loss from 4.5dB to 4.8dB. <i>Response Status</i> C 10a <i>P</i> 51 Marvell. <i>Comment Status</i> A R1 transmitter has a minimum OI atio is between 4.5 and 5dB). The channel attenuation (2.6dB in tabl | L 10 MA-TDECQ incre e max attenuatior | # <u>104</u> <i>Interop</i> ease of 1.5 dB over DR n should be 1.5dB more | Change the maxi Response ACCEPT. Cl 140 SC 140 Dudek, Mike Comment Type T The requirements LR1/FR1 which a SuggestedRemedy | Response Sta .11.4.6 M <i>Comment Sta</i> s for the maximum disc | <i>P</i> 54 arvell. <i>itus</i> A rete reflectanc | | bucke |
| SuggestedRemedy Change the maxim Response ACCEPT. Cl 140 SC 140. Dudek, Mike Comment Type T The 100GBASE-LI (when extinction ra than the max DR c except for attenual | num loss from 4.5dB to 4.8dB. <i>Response Status</i> C 10a <i>P</i> 51 Marvell. <i>Comment Status</i> A R1 transmitter has a minimum OI atio is between 4.5 and 5dB). The channel attenuation (2.6dB in tabl | L 10 MA-TDECQ incre e max attenuatior | # <u>104</u> <i>Interop</i> ease of 1.5 dB over DR n should be 1.5dB more | Change the maxi Response ACCEPT. CI 140 SC 140 Dudek, Mike Comment Type T The requirements LR1/FR1 which a SuggestedRemedy Change the PICs Response | Response Sta .11.4.6 M Comment Sta to the maximum disc re given in Table 140-7 to match the requirem Response Sta | <i>tus</i> C <i>P</i> 54 arvell. <i>itus</i> A rete reflectanc 4 ents. | | bucke |
| SuggestedRemedy Change the maxim Response ACCEPT. Cl 140 SC 140. Dudek, Mike Comment Type T The 100GBASE-LI (when extinction ra than the max DR c except for attenuat SuggestedRemedy | num loss from 4.5dB to 4.8dB. <i>Response Status</i> C 10a <i>P</i> 51 Marvell. <i>Comment Status</i> A R1 transmitter has a minimum Of atio is between 4.5 and 5dB). The channel attenuation (2.6dB in tabl tion. | L 10 MA-TDECQ incre e max attenuatior | # <u>104</u> <i>Interop</i> ease of 1.5 dB over DR n should be 1.5dB more | Change the maxi Response ACCEPT. Cl 140 SC 140 Dudek, Mike Comment Type T The requirements LR1/FR1 which a SuggestedRemedy Change the PICs | Response Sta .11.4.6 M Comment Sta to the maximum disc re given in Table 140-7 to match the requirem Response Sta | <i>tus</i> C <i>P</i> 54 arvell. <i>itus</i> A rete reflectanc 4 ents. | | bucke |
| SuggestedRemedy Change the maxim Response ACCEPT. Cl 140 SC 140. Dudek, Mike Comment Type T The 100GBASE-LI (when extinction ra than the max DR c except for attenual SuggestedRemedy Change the maxim | num loss from 4.5dB to 4.8dB. <i>Response Status</i> C 10a <i>P</i> 51 Marvell. <i>Comment Status</i> A R1 transmitter has a minimum OI atio is between 4.5 and 5dB). The channel attenuation (2.6dB in tabl tion. num loss from 3.9dB to 4.1dB. | L 10 MA-TDECQ incre e max attenuatior | # <u>104</u> <i>Interop</i> ease of 1.5 dB over DR n should be 1.5dB more | Change the maxi Response ACCEPT. CI 140 SC 140 Dudek, Mike Comment Type T The requirements LR1/FR1 which a SuggestedRemedy Change the PICs Response ACCEPT IN PRIM | Response Sta .11.4.6 M Comment Sta for the maximum disc re given in Table 140-7 to match the requirem Response Sta NCIPLE. | tus C P54 arvell. atus A rete reflectanc 4 ents. tus C | ce in table 140 | bucket |
| SuggestedRemedy Change the maxim Response ACCEPT. Cl 140 SC 140. Dudek, Mike Comment Type T The 100GBASE-LI (when extinction ra than the max DR c except for attenuat SuggestedRemedy | num loss from 4.5dB to 4.8dB. <i>Response Status</i> C 10a <i>P</i> 51 Marvell. <i>Comment Status</i> A R1 transmitter has a minimum Of atio is between 4.5 and 5dB). The channel attenuation (2.6dB in tabl tion. | L 10 MA-TDECQ incre e max attenuatior | # <u>104</u> <i>Interop</i> ease of 1.5 dB over DR n should be 1.5dB more | Change the maxi Response ACCEPT. CI 140 SC 140 Dudek, Mike Comment Type T The requirements LR1/FR1 which a SuggestedRemedy Change the PICs Response ACCEPT IN PRIM | Response Sta .11.4.6 M Comment Sta to re given in Table 140-7 to match the requirem Response Sta | tus C P54 arvell. atus A rete reflectanc 4 ents. tus C | ce in table 140 | bucke |

| C/ 151 | SC 151.5.4 | P60 | L12 | # 108 | C/ 151 | SC | 151.8.10 | P70 | L35 | # 111 |
|---|---|---|-------------------------------------|---------------------|------------------|-----------|-------------|--|--------|----------------|
| Dudek, Mike | e | Marvell. | | | Dudek, Mil | ke | | Marvell. | | |
| Comment Ty | уре Т | Comment Status A | | Bucket | Comment | Туре | т | Comment Status A | | Rx sensitivity |
| launch p | | I detect fail is Average Optica ansmitter is -16dBm in table negate. | | | and LF | R1. It is | | at ambiguous as to whether ar that it is normative on pag 8. | | |
| SuggestedR | Remedy | | | | Suggested | IRemea | ly | | | |
| Change | -30dBm to -16 | dBm | | | Chang | je "shou | uld meet" t | o "shall meet" on lines 35 ar | nd 38. | |
| Response ACCEP | Т. | Response Status C | | | Response ACCE | PT. | | Response Status C | | |
| C/ 151 | SC 151.7.1 | P63 | L14 | # 109 | C/ 151 | SC | 151.8.11 | P71 | L38 | # 112 |
| Dudek, Mike | e | Marvell. | | | Dudek, Mil | ke | | Marvell. | | |
| Comment Ty | уре Т | Comment Status A | | Tx avg power | Comment | Туре | Е | Comment Status A | | Bucke |
| have to SuggestedR Conside power a | be >5.1dB Remedy er why there is s and requiring hig | wever which is the min ER. such a difference in philosoph h overload and damage poir e specifications as appropria | ny between allo ts versus requir | wing a high average | Response ACCE | , , | to "either" | Response Status C | | |
| Response | | Response Status C | | | | | | | | |
| | T IN PRINCIPL ponse to comm | | | | | | | | | |
| C/ 151 | SC 151.8.2 | P66 | L 42 | # 110 | | | | | | |
| Dudek, Mike | e | Marvell. | | | | | | | | |
| Comment Ty Table 1 | ype T 51-5 does not s | Comment Status A pecify SMSR | | Bucket | | | | | | |
| SuggestedR Change | Remedy the table refere | ence to 151-7 | | | | | | | | |
| Response ACCEP | Т. | Response Status C | | | | | | | | |

| C/ 151 | SC 151.8.11.2 | P73 | L12 | # 113 | C/ 151 | SC 151.11.2 | .1 P76 | L13 | # 114 |
|-------------------|--|--|--|--|------------------|-------------------|--|--|------------------------|
| Dudek, Mi | ke | Marvell. | | | Dudek, Mi | ike | Marvell. | | |
| Comment | Туре Е | Comment Status A | | Tx RINxx.x | Comment | Туре Т | Comment Status D | 1 | Connector loss |
| RINxx | .x is not defined in | this clause (or the glossary | у) | | | | low only 2dB connection gin which is included for | | FR4 has 3dB when LR4- |
| Suggested | - | | | | some | thing we haven't | thought of which true un | allocated margin is fo | or.) Based on the spec |
| Define | e what it is here. | | | | | | with more than 5dB loss unallocated margin. | is out of spec, althou | gh Table 151-13 does |
| lesponse | | Response Status C | | | | | manocated margin. | | |
| ACCE | PT IN PRINCIPLE | | | | Suggestee | • | e connection loss from 2 | dB to 3.3dB In tab | le 151-9 change |
| RINxx docun | | RINxOMA to be consistent | with other clause | es in the base | Chan | | to 6.3dB and unallocate | | |
| In cub | clause 151.8.11.2 | | | | Proposed | Response | Response Status Z | | |
| in sub | clause 151.0.11.2 | | | | REJE | CT. | | | |
| | , the Gaussian nois | e generator on and the sinເ MA of the SRS test source | | | This c | comment was W | ITHDRAWN by the com | menter. | |
| | | for400GBASE-FR4 and 40 | | | C/ 151 | SC 151.12 | P 73 | L 52 | # 115 |
| to | | | | | Dudek, Mi | ike | Marvell. | | |
| "With | the Gaussian nois | e generator on and the sinu | usoidal jitter and | sinusoidal interferer | Comment | Туре Т | Comment Status A | L Contraction of the second seco | Interop |
| tolera | l off, the RINxOMA nce from Table 15 [.] 3ASE-FR4 and 40 [.] | of the SRS test source (w 1-7) shall be no greater tha 0GBASE-I R4-6 " | here x is the valu In the value spec | e for optical return loss fied in Table 151-7 for | SECO | Q. The max atter | 6 receiver has 2.1dB bet nuation should be 2.1dB are the same except for | more than the max F | |
| | | | | | Suggester | | | | |
| Need | to make the same | change in clause 140. | | | | • | loss from 4dB to 6.1dB. | | |
| | | C C | | | Response |) | Response Status C | | |
| Impor | t subclause 140.7. | 10 from 802.3cd-2018 and | make the followi | ng change. | ACCE | EPT. | | | |
| Chang | | | | - to a set of a late to the set of a second | C/ 151 | SC 151.12 | P 77 | L 50 | # 440 |
| | | e generator on and the sinu MA of the SRS test source | | | | | | 250 | # 116 |
| | ied in Table 140-6 | | C C | | Dudek, Mi | | Marvell. Comment Status A | | Intoron |
| to | | | | | Comment The 4 | | 6 transmitter has an OM | | Interop |
| | | e generator on and the sinu | | | max a | attenuation shoul | d be 0.5dB more than th | | |
| turned loss to | l off, the RINXOM | A of the SRS test source (w e 140-6) should be no grea | where x is the val ater than the valu | ue for optical return e specified in Table 140- | | | e except for attenuation. | | |
| | | 0GBASE-FR1 and 100GB/ | | | Suggester | • | | | |
| Repla | ce RINxx xOMA wi | ith RINxOMA throughout th | e draft with edito | rial license | | - | loss from 4 dB to 4.5dB | | |
| Коріа | | | | | Response | | Response Status C | | |
| | | | | | ACCE | EPT. | | | |
| | | | | | | | | | |
| | /technical required | ER/editorial required CP | /deneral required | T/technical E/editorial G/ | neneral | | C | omment ID 116 | Page 28 of 29 |
| | | | | ISE STATUS: O/open W/w | | d U/unsatisfied | | | 4/21/2020 11:33:2 |
| ORT OR | DER: Comment ID |) | | | | | | | |

| | | | | - | | | | |
|---|--|---|---|---|---|---|--|---|
| C/ 140 SC 140.1 | P37 | L 1 | # 117 | C/ 151 | SC 151.8.5 | P67 | L29 | # 120 |
| Zimmerman, George | CME Cons./A | DI, Cisco, Comr | mscope, Marvell, SenTe | Chang, Fra | nk | Source | | |
| Comment Type E If it is only the title an is "unchanged rows n | Comment Status D nd header of Table 140-1, say th not shown") | hat and don't sh | <i>withdrawn</i> now all the rows. (usual | Comment 7 TDEC ^I Suggested | Q -10log(Ceq)" : | Comment Status A should not be there anymor | e | Tx 10logCe |
| shown (unchanged ro | uction to "Change Title and seco ows not shown)" ows beginning at first body row. | ond column hea | ader of Table 140-1 as | Delete Response | "TDECQ -10log | Response Status C | | |
| Proposed Response | Response Status Z | | | 0 | | | | |
| PROPOSED REJEC | , Т. | | | See co | mment #56 | | | |
| This comment was W | VITHDRAWN by the commente | <i>:</i> ۲. | | C/ 151 Chang, Fra <i>Comment 1</i> | | 2 P73 Source Comment Status A | L 17 | # <u>121</u> <i>Rx 10logCe</i> |
| C/ 151 SC 151 | P 55 | L1 | # 118 | | 51 | (max), lane under test" see | ems not needed a | 0 |
| Zimmerman, George | CME Cons./A | DI, Cisco, Comr | mscope, Marvell, SenTe | Suggested | | | | |
| Comment Type E | Comment Status A | | Duckat | 00 | | O(Cog) (max) long under t | oot" | |
| Insert instruction for c | | | Bucket | Delete Response | "SECQ - 1010g1 | 0(Ceq) (max), lane under te <i>Response Status</i> C | 251 | |
| Insert instruction for c SuggestedRemedy | clause 151 is missing ruction before header to clause | 151 - "Insert ne | | Response ACCEF | PT IN PRINCIPL | Response Status C | 551 | |
| Insert instruction for c SuggestedRemedy Add new editing instru numeric order as follo Response | clause 151 is missing ruction before header to clause | 151 - "Insert ne | | Response ACCEF | PT IN PRINCIPL | Response Status C | L 38 | # 122 |
| Insert instruction for c SuggestedRemedy Add new editing instru- numeric order as follo | clause 151 is missing ruction before header to clause ows" | 151 - "Insert ne | | Response ACCEF See co Cl 151 | PT IN PRINCIPL mment #56 SC 151.7.1 | Response Status C E. | | # 122 |
| Insert instruction for c SuggestedRemedy Add new editing instru- numeric order as follo Response ACCEPT. | clause 151 is missing ruction before header to clause ows" <i>Response Status</i> C | 151 - "Insert ne <i>L</i> 35 | | Response ACCEF See co | PT IN PRINCIPL mment #56 SC 151.7.1 | Response Status C E. P63 | | # <u>122</u> Tx overshoo |
| Insert instruction for c SuggestedRemedy Add new editing instru- numeric order as follo Response ACCEPT. | clause 151 is missing ruction before header to clause ows" <i>Response Status</i> C | | ew clause 151 in | Response ACCEF See co C/ 151 Zivny, Pave Comment 7 Table 1 | PT IN PRINCIPL mment #56 SC 151.7.1 el Fype T 151.7 , entry "Tra | Response Status C E. P63 Tektronix Comment Status A ansmitter over/under-shoot | <i>L</i> 38 (max)" , value "12 | <i>Tx overshoc</i> 2%" (both reaches). |
| Insert instruction for c SuggestedRemedy Add new editing instru- numeric order as follo Response ACCEPT. C/ 151 SC 151.7.2 Chang, Frank Comment Type T For FR4 and LR4-6, t not capable to preven | clause 151 is missing ruction before header to clause ows" <i>Response Status</i> C 2 P64 | L 35 s questionable, ' | # <u>119</u> <i>Rx 10logCeq</i> "SECQ-10Log(Ceq)" is | Response ACCEF See co Cl 151 Zivny, Pave Comment 7 Table 1 In the p the link overhoo | PT IN PRINCIPL mment #56 SC 151.7.1 SC 151.7.1 SI Sype T St.7 , entry "Tra presentation "ziv performance m | Response Status C .E. P63 Tektronix Comment Status A ansmitter over/under-shoot my_3cu_01_0320" we show tore significantly in cases of show that the peaking impa | L 38 (max)" , value "12 that the transmit absolute oversho | <i>Tx overshoc</i> 2%" (both reaches). ter overshoot degrades pot (rather than relative |
| Insert instruction for c SuggestedRemedy Add new editing instru- numeric order as follo Response ACCEPT. C/ 151 SC 151.7.2 Chang, Frank Comment Type T For FR4 and LR4-6, t not capable to preven results for this. | clause 151 is missing ruction before header to clause ows" <i>Response Status</i> C 2 <i>P</i> 64 Source <i>Comment Status</i> A the usefulness of 10Log(Ceq) is | L 35 s questionable, ' | # <u>119</u> <i>Rx 10logCeq</i> "SECQ-10Log(Ceq)" is | Response ACCEF See co Cl 151 Zivny, Pave Comment 7 Table 1 In the p the link overhoo | PT IN PRINCIPL mment #56 SC 151.7.1 el S/ype T 151.7 , entry "Tra presentation "ziv performance m ot). We further argin, 4.3 dBm | Response Status C .E. P63 Tektronix Comment Status A ansmitter over/under-shoot my_3cu_01_0320" we show tore significantly in cases of show that the peaking impa | L 38 (max)" , value "12 that the transmit absolute oversho | <i>Tx oversho</i> 2%" (both reaches). ter overshoot degrades pot (rather than relative |
| Insert instruction for of SuggestedRemedy Add new editing instru- numeric order as follo Response ACCEPT. C/ 151 SC 151.7.2 Chang, Frank Comment Type T For FR4 and LR4-6, t not capable to preven results for this. SuggestedRemedy Take "SECQ-10Log(0 | clause 151 is missing ruction before header to clause ows" <i>Response Status</i> C 2 <i>P</i> 64 Source <i>Comment Status</i> A the usefulness of 10Log(Ceq) is | L 35 s questionable, ' nterop, we will p | # <u>119</u> <i>Rx 10logCeq</i> "SECQ-10Log(Ceq)" is bresent some test | Response ACCEF See co Cl 151 Zivny, Pave Comment 7 Table 1 In the p the link overhoo (with m Suggested 1. remo 2. in its "Trans | PT IN PRINCIPL mment #56 SC 151.7.1 SC 151.7.1 STOPE T STOPE T | Response Status C .E. P63 Tektronix Comment Status A ansmitter over/under-shoot my_3cu_01_0320" we show fore significantly in cases of show that the peaking impa is desirable) ershoot value (same table) s overshoot specification: ot (max)", value "4.3 dBm" | L 38 (max)" , value "12 t that the transmit absolute overshe ct starts at the le | <i>Tx overshoo</i> 2%" (both reaches). ter overshoot degrades bot (rather than relative vel of about 4.5 dBm. |
| Insert instruction for of SuggestedRemedy Add new editing instru- numeric order as follo Response ACCEPT. C/ 151 SC 151.7.2 Chang, Frank Comment Type T For FR4 and LR4-6, t not capable to preven results for this. SuggestedRemedy Take "SECQ-10Log(0 | clause 151 is missing ruction before header to clause ows" <i>Response Status</i> C 2. <i>P</i> 64 Source <i>Comment Status</i> A the usefulness of 10Log(Ceq) is nt excess peaking and ensure in Ceq)" out of specs for FR4 and <i>Response Status</i> C | L 35 s questionable, ' nterop, we will p | # <u>119</u> <i>Rx 10logCeq</i> "SECQ-10Log(Ceq)" is bresent some test | Response ACCEF See co Cl 151 Zivny, Pave Comment 7 Table 1 In the p the link overhoo (with m Suggested/ 1. remo 2. in its "Trans 3. follow | PT IN PRINCIPL mment #56 SC 151.7.1 SC 151.7.1 STOPE T STOPE T | Response Status C .E. P63 Tektronix Comment Status A ansmitter over/under-shoot my_3cu_01_0320" we show tore significantly in cases of show that the peaking impa- is desirable) ershoot value (same table) s overshoot specification: ot (max)", value "4.3 dBm" he presentation (see aobve | L 38 (max)" , value "12 t that the transmit absolute overshe ct starts at the le | <i>Tx overshoo</i> 2%" (both reaches). ter overshoot degrades bot (rather than relative vel of about 4.5 dBm. |
| Insert instruction for of SuggestedRemedy Add new editing instru- numeric order as follo Response ACCEPT. C/ 151 SC 151.7.2 Chang, Frank Comment Type T For FR4 and LR4-6, t not capable to preven results for this. SuggestedRemedy Take "SECQ-10Log(C Response | clause 151 is missing ruction before header to clause ows" <i>Response Status</i> C 2. <i>P</i> 64 Source <i>Comment Status</i> A the usefulness of 10Log(Ceq) is nt excess peaking and ensure in Ceq)" out of specs for FR4 and <i>Response Status</i> C | L 35 s questionable, ' nterop, we will p | # <u>119</u> <i>Rx 10logCeq</i> "SECQ-10Log(Ceq)" is bresent some test | Response ACCEF See co Cl 151 Zivny, Pave Comment 7 Table 1 In the p the link overhoo (with m SuggestedH 1. remo 2. in its "Trans 3. follow Response | PT IN PRINCIPL mment #56 SC 151.7.1 SC 151.7.1 STOPE T STOPE T | Response Status C .E. P63 Tektronix Comment Status A ansmitter over/under-shoot my_3cu_01_0320" we show tore significantly in cases of show that the peaking impa is desirable) ershoot value (same table) s overshoot specification: ot (max)", value "4.3 dBm" he presentation (see aobve Response Status C | L 38 (max)" , value "12 t that the transmit absolute overshe ct starts at the le | <i>Tx overshoo</i> 2%" (both reaches). ter overshoot degrades bot (rather than relative vel of about 4.5 dBm. |

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: Comment ID