

IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

CI **FM** SC **FM** P 1 L 2 # 7

Remein, Duane

Huawei

Comment Type **ER** Comment Status **X**

"Amendment of .. " Should list all pervious amendments.

*SuggestedRemedy*

Change to "Amendment of IEEE Std 802.3™-2015 as amended by IEEE Std 802.3bw™-2015, IEEE Std 802.3by™-2016, IEEE Std 802.3bq™-2016, IEEE Std 802.3bp™-2016, IEEE Std 802.3br™-2016, IEEE Std 802.3bz™-2016, and IEEE Std 802.3bn™-2016" (There might possibly be other, check with Pete Anslow for the full list)

Proposed Response Response Status **O**

CI **FM** SC **FM** P 1 L 25 # 28

Anslow, Pete

Ciena

Comment Type **E** Comment Status **X**

The initial text should list the other amendments (as announced so far).  
This draft is for Working Group ballot, not Task Force review.

*SuggestedRemedy*

Change "This draft is an amendment of IEEE Std 802.3-2015." to:  
"This draft is an amendment of IEEE Std 802.3-2015 as amended by IEEE Std 802.3bw-2015, IEEE Std 802.3by-2016, IEEE Std 802.3bq-2016, IEEE Std 802.3bp-2016, IEEE Std 802.3br-2016, IEEE Std 802.3bn-2016, IEEE Std 802.3bz-2016, IEEE Std 802.3bu-201x, and IEEE Std 802.3bv-201x."  
Also, change "Draft D2.0 is prepared for Task Force review." to: "Draft D2.1 is prepared for Working Group ballot recirculation."

Proposed Response Response Status **O**

CI **FM** SC **FM** P 7 L 13 # 29

Anslow, Pete

Ciena

Comment Type **E** Comment Status **X**

"P802.3cc Task Force name" should be "P802.3cc 25 Gb/s Ethernet over single-mode fiber Task Force"

*SuggestedRemedy*

Change "P802.3cc Task Force name" to "P802.3cc 25 Gb/s Ethernet over single-mode fiber Task Force" in two places

Proposed Response Response Status **O**

CI **FM** SC **FM** P 7 L 16 # 8

Remein, Duane

Huawei

Comment Type **ER** Comment Status **X**

Missing list of WG participants

*SuggestedRemedy*

Get list from Mr. Law (or Pete Anslow) and incorporate in draft.

Proposed Response Response Status **O**

CI **FM** SC **FM** P 10 L 31 # 30

Anslow, Pete

Ciena

Comment Type **E** Comment Status **X**

Insert the summaries for Amendments 4 (IEEE Std 802.3bp-2016) through 9 (IEEE Std 802.3bv-201x)

*SuggestedRemedy*

Insert the summaries for Amendments 4 (IEEE Std 802.3bp-2016) through 9 (IEEE Std 802.3bv-201x)

Proposed Response Response Status **O**

CI **FM** SC **FM** P 10 L 31 # 10

Remein, Duane

Huawei

Comment Type **ER** Comment Status **X**

I agree with the Editors note that you should list all amendment here.

*SuggestedRemedy*

Please update to current amendment list (get from Pete Anslow)

Proposed Response Response Status **O**

IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

Cl 00 SC 0 P1 L 31 # 9  
 Remein, Duane Huawei  
 Comment Type ER Comment Status X  
 Update copyright date  
 SuggestedRemedy  
 to 2017 in FM and footer of all Masters  
 Proposed Response Response Status O

Cl 1 SC 1.4.178a P15 L 16 # 1  
 Ran, Adeo Intel  
 Comment Type T Comment Status X  
 While having a definition for DGD is a good idea, this definition is unclear and not very helpful for a reader.  
 What are "fractions of a pulse"?  
 What are the "two principal state of polatization"?  
 Are the fractions transmitted in two polarization states or received in two polarization states?  
 Is this a characteristic of a medium or of a transmitter?  
 "At reception" seems like a definition of a point in time, but it's actually two points in time separated by the DGD.  
 I assume that it is the difference in propagation time over an optical medium, between two perpendicular polarization modes (e.g. x and y). This does not involve a pulse or its fractions, a transmitter or a receiver, just propagation time which is a basic physical property.  
 SuggestedRemedy  
 Consider rephrasing. Alternatively if this definition is based on some external document, refer to that document.  
 Proposed Response Response Status O

Cl 30 SC 30.5.1.1.2 P16 L 12 # 31  
 Anslow, Pete Ciena  
 Comment Type E Comment Status X  
 IEEE Std 802.3bq-2016 has inserted an entry for 25GBASE-T after the entry for 25GBASE-SR. In order to be clear, the editing instruction needs to account for this.  
 SuggestedRemedy  
 Add "and before the entry for 25GBASE-T (as inserted by IEEE Std 802.3bq-2016)" to the end of the editing instruction.  
 Proposed Response Response Status O

Cl 45 SC 45.2.1.6 P17 L 10 # 11  
 Remein, Duane Huawei  
 Comment Type E Comment Status X  
 Not quite all changes rows are shown as the reserved row will also change.  
 SuggestedRemedy  
 Change editing instruction: "Change the PMA/PMD type selection row in Table 45-7 to add 25GBASE PMDs as follows (only Bits, Name, R/W and, added Description text in row is shown). Change "reserved" line(s) as appropriate for values defined by this and other approved amendments:" Note this is quoted from most recent amendment with PMD name changed.  
 Proposed Response Response Status O

Cl 45 SC 45.2.1.6 P17 L 17 # 20  
 Lusted, Kent Intel  
 Comment Type ER Comment Status X  
 In table 45-7, the PMA/PMD control 2 register bit definitions does not list the reserved values.  
 There already is an editors note to add these bit definitions "later". Now is a great time to do it! :)  
 SuggestedRemedy  
 Add the reserved bit definitions to Table 45-7  
 Proposed Response Response Status O

IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

CI 45 SC 45.2.1.7.4 P 17 L 26 # 32  
 Anslow, Pete Ciena  
 Comment Type E Comment Status X  
 IEEE Std 802.3bq-2016 has inserted a row for 25GBASE-T after the row for 25GBASE-SR.  
 In order to be clear, the editing instruction needs to account for this.  
 SuggestedRemedy  
 Change "as follows" to "and before 25GBASE-T (as inserted by IEEE Std 802.3bq-2016)  
 as follows".  
 Proposed Response Response Status O

CI 45 SC 45.2.1.7.5 P 17 L 40 # 33  
 Anslow, Pete Ciena  
 Comment Type E Comment Status X  
 IEEE Std 802.3bq-2016 has inserted a row for 25GBASE-T after the row for 25GBASE-SR.  
 In order to be clear, the editing instruction needs to account for this.  
 SuggestedRemedy  
 Change "as follows" to "and before 25GBASE-T (as inserted by IEEE Std 802.3bq-2016)  
 as follows".  
 Proposed Response Response Status O

CI 45 SC 45.2.1.8 P 17 L 53 # 34  
 Anslow, Pete Ciena  
 Comment Type E Comment Status X  
 IEEE Std 802.3bq-2016 has inserted a row for 25GBASE-T after the row for 25GBASE-SR.  
 In order to be clear, the editing instruction needs to account for this.  
 SuggestedRemedy  
 Change "as follows" to "and before 25GBASE-T (as inserted by IEEE Std 802.3bq-2016)  
 as follows".  
 Proposed Response Response Status O

CI 45 SC 45.2.1.14b.aa P 18 L 36 # 35  
 Anslow, Pete Ciena  
 Comment Type T Comment Status X  
 25GBASE-ER ability is bit 1.19.7 and 25GBASE-LR ability is bit 1.19.6  
 SuggestedRemedy  
 In the title and text of 45.2.1.14b.aa change 1.19.6 to 1.19.7 (in 3 places).  
 In the title and text of 45.2.1.14b.ab change 1.19.5 to 1.19.6 (in 3 places).  
 Proposed Response Response Status O

CI 78 SC 78.1.4 P 19 L 7 # 36  
 Anslow, Pete Ciena  
 Comment Type E Comment Status X  
 IEEE Std 802.3bq-2016 has inserted a row for 25GBASE-T after the row for 25GBASE-SR.  
 In order to be clear, the editing instruction needs to account for this.  
 SuggestedRemedy  
 Change "as follows" to "and before 25GBASE-T (as inserted by IEEE Std 802.3bq-2016)  
 as follows".  
 Proposed Response Response Status O

CI 99 SC P 7 L 13 # 51  
 Jones, Peter Cisco  
 Comment Type E Comment Status X  
 Text says  
 David Lewis, IEEE P802.3cc Task Force name Task Force Chair  
 Kohichi R. Tamura, IEEE P802.3cc Task Force name Task Force Editor-in-Chief  
 SuggestedRemedy  
 remove the repeated "Task Force name" from these two lines.  
 Proposed Response Response Status O

IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

Cl 105 SC 105.1.1 P 20 L 7 # 37

Anslow, Pete

Ciena

Comment Type E Comment Status X

The first paragraph of 105.1.1 has been modified by IEEE Std 802.3bq-2016

SuggestedRemedy

In the editing instruction change "(as added by IEEE Std 802.3by-2016)" to "(as added by IEEE Std 802.3by-2016 and modified by IEEE Std 802.3bq-2016)"

In the text, take account of the addition of ", and 25GBASE-T" by 802.3bq and remove the underline from the final "."

Proposed Response Response Status O

Cl 105 SC 105.1.1 P 20 L 12 # 19

Lewis, Jon

Dell EMC

Comment Type E Comment Status X

On the bottom line of the paragraph you have 2 spaces before 25GBASE-SR once the edits are complete: 25GBASE-KR-S, and 25GBASE-SR

SuggestedRemedy

Remove one space.

Proposed Response Response Status O

Cl 105 SC 105.1.3 P 21 L 1 # 38

Anslow, Pete

Ciena

Comment Type E Comment Status X

IEEE Std 802.3bq-2016 has inserted a row for 25GBASE-T after the row for 25GBASE-SR. In order to be clear, the editing instruction needs to account for this.

SuggestedRemedy

Change "as follows" to "and before 25GBASE-T (as inserted by IEEE Std 802.3bq-2016) as follows".

Proposed Response Response Status O

Cl 105 SC 105.2 P 21 L 17 # 39

Anslow, Pete

Ciena

Comment Type E Comment Status X

Table 105-2 has been modified by IEEE Std 802.3bq-2016

SuggestedRemedy

In the editing instruction change "(as inserted by IEEE Std 802.3by-2016)" to "(as inserted by IEEE Std 802.3by-2016 and modified by IEEE Std 802.3bq-2016)"

In Table 105-2, change the heading "Clause" to "Clause/Annex"

Proposed Response Response Status O

Cl 105 SC 105.3.5 P 22 L 5 # 40

Anslow, Pete

Ciena

Comment Type E Comment Status X

"Modify" is not a valid editing instruction.

SuggestedRemedy

Change "Modify" to "Change"

Proposed Response Response Status O

Cl 105 SC 105.5 P 22 L 12 # 41

Anslow, Pete

Ciena

Comment Type E Comment Status X

The insertion by 802.3bq is "25GBASE-T PHY" not "25GBASE-T PMD".

Also, the 25GBASE-T entry in this table is different from the other PMD entries because it includes several other sublayer functions such as PCS, FEC and PMA. Consequently, and to be consistent with previous tables the new entries would be better above 25GBASE-T.

SuggestedRemedy

Change the editing instruction to: "Insert two new rows below 25GBASE-SR PMD in Table 105-3 (as added by IEEE Std 802.3bq-2016) and above 25GBASE-T (as inserted by IEEE Std 802.3bq-2016) as follows:

Proposed Response Response Status O

IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

Cl 108 SC 108.7.3 P 24 L 13 # 12  
 Remein, Duane Huawei  
 Comment Type E Comment Status X  
 Subclause references should be linked  
 SuggestedRemedy  
 Change "108.5.3.2" to hot link in 3 places (line 13, 15, & 29).  
 Proposed Response Response Status O

Cl 108 SC 108.7.4.2 P 24 L 30 # 5  
 Slavick, Jeff Broadcom Limited  
 Comment Type TR Comment Status X  
 The "OR" operator is a + sign.  
 SuggestedRemedy  
 Change the 2 instances of "or" in the status column for RF3 to be + instead.  
 Proposed Response Response Status O

Cl 108 SC 108.7.3 P 24 L 13 # 42  
 Anslow, Pete Ciena  
 Comment Type E Comment Status X  
 The other PICS items for optional PMD support do not have entries in the Subclause column and 108.5.3.2 here does not help much.  
 SuggestedRemedy  
 Remove the two entries for 108.5.3.2 in 108.7.3 (or at least make them cross-references).  
 Proposed Response Response Status O

Cl 114 SC 5.6 P 29 L 33 # 52  
 Stassar, Peter Huawei  
 Comment Type ER Comment Status X  
 There is a spurious "the" in strike-through  
 SuggestedRemedy  
 Remove the "the" in strike-through  
 Proposed Response Response Status O

Cl 108 SC 108.7.4.2 P 24 L 24 # 43  
 Anslow, Pete Ciena  
 Comment Type E Comment Status X  
 "Modify" is not a valid editing instruction.  
 The entry in the Status column is not shown as a change from the version in 802.3by.  
 SuggestedRemedy  
 Change "Modify" to "Change".  
 Show the entry in the Status column as a change from the version in 802.3by.  
 Proposed Response Response Status O

IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

Cl 114 SC 6 P 30 L 7 # 53  
 Stassar, Peter Huawei

Comment Type TR Comment Status X

The following statement is included: The 25GBASE-ER PMD interoperates with the 25GBASE-LR PMD provided that the channel requirements for 25GBASE-LR are met. The current parameter values in Tables 114-6 and Table 114-7 do not support this statement.  
 The Average Launch power (max) of the ER transmitter is 6 dBm, which is above the damage threshold of the LR receiver and the maximum average receiver power of the LR receiver (2dBm), not allowing zero loss in the link. Actually in this case the minimum loss would need to be 4 dB which would be not acceptable. In a similar way the max OMA value of the ER transmitter is 3.8dB higher than the maximum receive OMA of the LR receiver. The other way around the maximum power into a ER receiver from an LR transmitter is 2 dBm, 5 dB above the damage threshold of the ER receiver and even 6dB above the maximum receive power of -4dB of the ER receiver.

SuggestedRemedy

Option 1: significantly increase the values of the ER receiver for Damage Threshold, maximum average receive power and Receive power (OMA), (Max) to match the performance of the LR receiver.  
 Additionally reduce the Average launch power (max) and the OMA max of the ER transmitter to be below the maximum power values for the LR receiver.

The first of the 2 required changes may be extremely difficult for implementations deploying APD receivers and therefore the following option 2 is provided for consideration:  
 Option 2: remove the statement "The 25GBASE-ER PMD interoperates with the 25GBASE-LR PMD provided that the channel requirements for 25GBASE-LR are met." plus reduce the center wavelength range for the ER receiver in Table 114-7 from 1295 - 1325 nm to 1295 - 1310nm (as specified for the ER transmitter)

Proposed Response Response Status O

Cl 114 SC 114.1 P 25 L 35 # 13  
 Remein, Duane Huawei

Comment Type E Comment Status X

Is there some special reason clauses are all listed in ascending order except for Cl 78?

SuggestedRemedy

Move Cl 78 to top of table

Proposed Response Response Status O

Cl 114 SC 114.1 P 25 L 43 # 44  
 Anslow, Pete Ciena

Comment Type E Comment Status X

The cross reference to 105.2 should be to 105.3

SuggestedRemedy

Change the cross reference to be to 105.3.

Proposed Response Response Status O

Cl 114 SC 114.1 P 25 L 49 # 54  
 Trowbridge, Steve Nokia

Comment Type E Comment Status X

Unnecessary sentence "Further relevant information may be found in Clause 1 (terminology and conventions, references, definitions and abbreviations) and Annex A (Bibliography, referenced as [B1], [B2], etc.)." While this isn't untrue, it adds nothing to say it. Most similar clauses do not seem to have a sentence like this. 802.3by (unnecessarily) does.

SuggestedRemedy

Delete the sentence

Proposed Response Response Status O

Cl 114 SC 114.1 P 37 L 1 # 3  
 Ran, Adee Intel

Comment Type E Comment Status X

Table numbering discontinuity. This should be Table 114-11.

SuggestedRemedy

Renumber.

Proposed Response Response Status O

IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

CI 114 SC 114.1 P37 L 14 # 18  
 Remein, Duane Huawei

Comment Type E Comment Status X

Superfluous TLAs should be avoided. Here in Table 114-2 is the only instance of DGD. In order to use this text saving acronym you add 1.4.178a (pg 15) and footnote c to table 114-12. It would be much simpler just to use the real words.

SuggestedRemedy

Remove 1.4.178a and its associated Editing Instruction and footnote c in Table 114-12. Change "DCD\_max" to "Differential group delay (max)".

Proposed Response Response Status O

CI 114 SC 114.1.1 P26 L 36 # 15  
 Remein, Duane Huawei

Comment Type TR Comment Status X

Untestable requirement; "The bit error ratio (BER) shall be less than ..." (also on line 40). Per text5 on pg 27 line 52 there is no requirement that this requirement can tested "TP1 and TP4 are informative reference points... (these test points will not typically be accessible in an implemented system)." All requirements should be testable, hence this should not be a requirement.

SuggestedRemedy

Change language to be informative, remove PICS CF3

Proposed Response Response Status O

CI 114 SC 114.1.1 P26 L 36 # 14  
 Remein, Duane Huawei

Comment Type TR Comment Status X

BER Objective is: "Support a BER of better than or equal to 10-12 at the MAC/PLS service interface (or the frame loss ration equivalent)". Here you state a BER of 5 x 10-5. Perhaps this is because here you refer to some other point (pre FEC?).

SuggestedRemedy

Clarify that this BER target is pre FEC. For example change "The bit error ratio (BER) shall be less than ..." to "The bit error ratio (BER) measured at the PMD service interface shall be less than ..."

Proposed Response Response Status O

CI 114 SC 114.2.1 P38 L 37 # 24  
 Winkel, Ludwig Siemens AG

Comment Type ER Comment Status X

Note shall not provide provisions and requirements. Note shall only provide statements of facts.

SuggestedRemedy

Reformat the note to a text.

Proposed Response Response Status O

CI 114 SC 114.5.1 P28 L 19 # 21  
 Winkel, Ludwig Siemens AG

Comment Type E Comment Status X

The text "For clarity, only one ..." is not appropriate as a key element of a Figure.

SuggestedRemedy

Move the text below or above the Figure and mark it as a NOTE

Proposed Response Response Status O

CI 114 SC 114.5.6 P29 L 32 # 45  
 Anslow, Pete Ciena

Comment Type E Comment Status X

In item a) "in Table 114.6" is a cross-reference to heading 114.6 but it should be a cross-reference to Table 114-6.  
 In item b) there is a spurious "the" in strikethrough font.

SuggestedRemedy

In item a) change the cross-reference to be to Table 114-6.  
 In item b) delete the spurious "the" in strikethrough font.

Proposed Response Response Status O

IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

CI 114 SC 114.5.6 P 29 L 33 # 16  
 Remein, Duane Huawei  
 Comment Type E Comment Status X  
 Spurious strike-thru font "the" in "b) If a PMD\_fault is detected, then the PMD may set the PMD\_global\_transmit\_disable ..."  
 SuggestedRemedy  
 Remove the "the" that is in strike-thru font.  
 Proposed Response Response Status O

CI 114 SC 114.6 P 30 L 4 # 2  
 Ran, Adeel Intel  
 Comment Type T Comment Status X  
 "type B1.1, B1.3, or B6\_a single-mode fibers"  
 Where are these types defined? The reference to Table 114-12 does not help.  
 In 88.11.1 these types are mentioned with a reference IEC 60793-2-50.  
 SuggestedRemedy  
 Insert "IEC 60793-2-50" before the quoted text.  
 Proposed Response Response Status O

CI 114 SC 114.6 P 30 L 8 # 46  
 Anslow, Pete Ciena  
 Comment Type TR Comment Status X  
 This says "The 25GBASE-ER PMD interoperates with the 25GBASE-LR PMD provided that the channel requirements for 25GBASE-LR are met".  
 However, a 25GBASE-ER transmitter can launch 6 dBm average power and the channel requirements for 25GBASE-LR allow 0 dB loss, so the 25GBASE-LR receiver could see 6 dBm average power, which is above the 2 dBm average power (max) spec.  
 SuggestedRemedy  
 Either remove the statement about interoperation or modify the specifications so that the PMDs will interoperate.  
 Proposed Response Response Status O

CI 114 SC 114.6.1 P 30 L 35 # 22  
 Winkel, Ludwig Siemens AG  
 Comment Type E Comment Status X  
 Inconsistent way to provide additional information to the description of the given values for example  
 "Signaling rate (range) "  
 "Side-mode suppression ratio (SMSR), (min)"  
 where in the 2nd occurrence a comma is used to separate the text in brackets and others are not using a comma to separate the brackets.  
 SuggestedRemedy

Harmonize! My preference is to use a comma. Alternatively consider to use the term in brackets as part of the sentence for example:  
 "Range of signaling rate".  
 Proposed Response Response Status O

CI 114 SC 114.6.1 P 30 L 39 # 23  
 Winkel, Ludwig Siemens AG  
 Comment Type E Comment Status X  
 The abbreviation min (also in other lines max) is not appropriate.  
 SuggestedRemedy  
 Write the full term instead of abbreviation "minimum" (respectively in other lines "maximum").  
 Proposed Response Response Status O

CI 114 SC 114.6.1 P 30 L 40 # 25  
 Kimber, Mark Semtech  
 Comment Type T Comment Status X  
 SuggestedRemedy  
 Proposed Response Response Status O



IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

Cl 114 SC 114.6.1 P 30 L 42 # 61  
 Huang, Xi Huawei Technologies  
 Comment Type **TR** Comment Status **X**  
 (Only for 25GBASE-ER )To allow lower cost PIN based implementation, the Average launch power (min) need to increase from -3dBm to -0.2dBm (2.8dB increment).  
 SuggestedRemedy  
 -0.2  
 Proposed Response Response Status **O**

Cl 114 SC 114.6.1 P 30 L 46 # 62  
 Huang, Xi Huawei Technologies  
 Comment Type **TR** Comment Status **X**  
 (Only for 25GBASE-ER ) Based on DML or EML, Tx side has the capability to achieve 2.8dBm in OMA. See our corresponding proposal for clarification  
 SuggestedRemedy  
 2.8  
 Proposed Response Response Status **O**

Cl 114 SC 114.6.1 P 30 L 47 # 57  
 Huang, Xi Huawei Technologies  
 Comment Type **TR** Comment Status **X**  
 (Only for 25GBASE-ER ) It is the same reason with Line 46, the OMA min is shifted 2.8dB, so as OMA min-TDP  
 SuggestedRemedy  
 1.8  
 Proposed Response Response Status **O**

Cl 114 SC 114.6.2 P 32 L 14 # 47  
 Anslow, Pete Ciena  
 Comment Type **T** Comment Status **X**  
 The damage threshold for 25GBASE-LR is a long way above the maximum average power of 2 dBm, but is not enough to protect against accidental connection with a 25GBASE-ER transmitter which could emit 6 dBm average power.  
 SuggestedRemedy  
 If it is feasible, increase the damage threshold to 6 dBm to protect against accidental connection with a 25GBASE-ER transmitter.  
 If this is not feasible, then reduce the damage threshold to something more reasonable.  
 Proposed Response Response Status **O**

Cl 114 SC 114.6.2 P 32 L 16 # 55  
 Dudek, Mike Cavium  
 Comment Type **TR** Comment Status **X**  
 Section 114.6 says that the ER and LR will interoperate provided the channel meets the LR specifications. The LR specifications do not include a minimum attenuation, therefore it must be assumed that the minimum attenuation is 0dB. The Receivers must therefore not overload with the highest OMA and average power that either LR or ER provides.  
 SuggestedRemedy  
 Change the damage threshold to 7dBm for both LR and ER. Change the average receive power (max) to 6dBm for both LR and ER. Change the Receive power (OMA) Max to 6dBm for both LR and ER. Add afootnote to these rows equivalent to footnote b in table 88-8  
 Proposed Response Response Status **O**

Cl 114 SC 114.6.2 P 32 L 18 # 48  
 Anslow, Pete Ciena  
 Comment Type **TR** Comment Status **X**  
 The average receive power (min) for 25GBASE-ER is -19.6 dBm. However, the average launch power (min) is -3 dBm and the channel insertion loss (max) is 18 dB, so this should be -21 dBm.  
 SuggestedRemedy  
 Change the average receive power (min) for 25GBASE-ER to -21 dBm.  
 Proposed Response Response Status **O**

IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

CI 114 SC 114.6.2 P 32 L 18 # 58  
 Huang, Xi Huawei Technologies

Comment Type **TR** Comment Status **X**  
 (Only for 25GBASE-ER ), we change the average power in Tx side to 2.8dB in Line 46, Page 30, to keep 18dB link power budget, the Average receiver power (Min) should be +2.8-18=-16.8dBm

SuggestedRemedy  
 -16.8

Proposed Response Response Status **O**

CI 114 SC 114.6.2 P 32 L 19 # 56  
 Tamura, Kohichi Oclaro

Comment Type **TR** Comment Status **X**  
 "Average receive power (min)" is -19.6dBm, but it should be -21dBm because "Average launch power (min)" is -3dBm and "Channel loss" is 18dB.

SuggestedRemedy  
 Change "Average receive power (min)" to -21dBm.

Proposed Response Response Status **O**

CI 114 SC 114.6.2 P 32 L 24 # 59  
 Huang, Xi Huawei Technologies

Comment Type **TR** Comment Status **X**  
 (Only for 25GBASE-ER ),To allow lower cost pin based implementation for 25G SMF 40Km, link budget shifts the 2.8 dB of OMA from the receiver to the transmitter. Thus, supports all 4 combination of the device type, i.e., EML/DML+PIN and EML/DML+APD. We think Receiver sensitivity (OMA), (max) of -16.2dBm is reasonable. See our corresponding proposal for clarification.

SuggestedRemedy  
 -16.2

Proposed Response Response Status **O**

CI 114 SC 114.6.2 P 32 L 26 # 60  
 Huang, Xi Huawei Technologies

Comment Type **TR** Comment Status **X**  
 (Only for 25GBASE-ER ),In D2.0, the gap between Receiver sensitivity (OMA), (max) and Stressed receiver sensitivity (OMA), (max) is 2.5dB. We use the same value to shift the Stressed receiver sensitivity (OMA), (max) from -16.5dBm to -13.7dBm.

SuggestedRemedy  
 -13.7

Proposed Response Response Status **O**

CI 114 SC 114.6.2 P 32 L 26 # 49  
 Anslow, Pete Ciena

Comment Type **T** Comment Status **X**  
 For 25GBASE-LR the receiver sensitivity (OMA) is -11.3 dBm and the Vertical eye closure penalty is 1.9 dB. This means that the stressed receiver sensitivity should be -9.4 dBm. For 25GBASE-ER the receiver sensitivity (OMA) is -19 dBm and the Vertical eye closure penalty is 1.9 dB. This means that the stressed receiver sensitivity should be -17.1 dBm.

SuggestedRemedy  
 For 25GBASE-LR change the stressed receiver sensitivity to -9.4 dBm.  
 For 25GBASE-ER change the stressed receiver sensitivity to -17.1 dBm.

Proposed Response Response Status **O**

CI 114 SC 114.7.5.4 P 35 L 22 # 17  
 Remein, Duane Huawei

Comment Type **E** Comment Status **X**  
 It would be a kindness to the reader to inform him/her what is being tested here.

SuggestedRemedy  
 Change section title from "Test procedure" to "TDP test procedure"

Proposed Response Response Status **O**

IEEE P802.3cc D2.0 25Gb/s Ethernet Over Single-Mode Fiber Initial Working Group ballot comments

Cl 114 SC 114.8 P 36 L 30 # 4  
 Slavick, Jeff Broadcom Limited  
 Comment Type **TR** Comment Status **X**  
 Have a shall statement but no matching PICS  
 SuggestedRemedy  
 Add COM10 for subclause 114.8  
 Proposed Response Response Status

Cl 114 SC 114.11.4.6 P 42 L 30 # 6  
 Slavick, Jeff Broadcom Limited  
 Comment Type **E** Comment Status **X**  
 Status column for CES\* doesn't appear to be center justified  
 SuggestedRemedy  
 Make it center justified  
 Proposed Response Response Status

Cl 114 SC 114.9 P 36 L 35 # 50  
 Anslow, Pete Ciena  
 Comment Type **E** Comment Status **X**  
 "100GBASE-LR and 100GBASE-ER" should be "100GBASE-LR4 and 100GBASE-ER4"  
 SuggestedRemedy  
 Change "100GBASE-LR and 100GBASE-ER" to "100GBASE-LR4 and 100GBASE-ER4"  
 Proposed Response Response Status

Cl 114 SC 114.10 P 37 L 13 # 26  
 Anslow, Pete Ciena  
 Comment Type **E** Comment Status **X**  
 Minus signs should be en-dash  
 SuggestedRemedy  
 Change the three minus signs in Table 114-12 to be en-dash (Ctrl-q Shft-p)  
 Proposed Response Response Status

Cl 114 SC 114.11.4.1 P 40 L 7 # 27  
 Anslow, Pete Ciena  
 Comment Type **E** Comment Status **X**  
 In item CF1, the comma after "PCS" is in underline font.  
 SuggestedRemedy  
 Remove the underline.  
 Proposed Response Response Status