Cl **00**   *SC* **0**   *P*   *L*   # 11
Anslow, Pete   Ciena

Comment Type **ER**   *Comment Status* **A**

Comment #84 against D1.0 was accepted, but the part that says "Go through the rest of the draft ensuring that only change, delete, insert, or replace are used, that each modification has a corresponding editing instruction and that the text corresponding to each instruction matches the style in the added description." has not been implemented.

"Modify" is not a valid editing instruction.
When Insert is used, the text to be inserted is not shown in underline font.

SuggestedRemedy

There are 51 instances of "Modify" in the draft. Replace these with "Change" except for the instance in the strikethrough footnote to Table 75-10 which is the subject of another comment.
For the text associated with the "Insert" editing instruction, show in normal (not underline) font.   This applies to 45.2.1.11.a through 45.2.1.11.d, 60.4a, 60.4b, 60.10.4.5a through 60.10.4.5d, 75.10.4.4a, 75.10.4.7a, 75.10.4.9a and 75.10.4.12a.
In 56.1.3, the style of the text uses underline and strikethrough, so is appropriate to a Change editing instruction, not Insert. Replace both "Insert" editing instructions with "Change".
Replace only applies to figures or equations, so the changes to Table 60-2 and Table 75-4 should be "Change" instructions.

Response   *Response Status* **C**

ACCEPT.

Cl **00**   *SC* **0**   *P* **0**   *L* **0**   # 53
Brown, Alan   Aurora Networks

Comment Type **E**   *Comment Status* **A**

Correct improper serial comma use throughout document.

SuggestedRemedy

A, b, c, and d is correct.
A, b, c and d is not correct.

Response   *Response Status* **C**

ACCEPT.

l.41, p.4,
l.20, p.11,
l.50, p.11,
l.1, p.12,
l.13, p.18,
l.10, p.49,
l.4, p.60

Cl **00**   *SC* **0**   *P* **0**   *L* **0**   # 68
Hajduczenia, Marek   ZTE Corporation

Comment Type **ER**   *Comment Status* **A**

Page numbering in Clause 60 seems to be off by 2 pages. Please fix it in the next revision of the draft

SuggestedRemedy

Per comment

Response   *Response Status* **C**

ACCEPT IN PRINCIPLE.

It seems Clause75 that page numbering is off by 2 pages. Also, pages of 15 and 16 are repeated twice.

Cl **45**   *SC* **45.2.1.6**   *P* **19**   *L* **5**   # 58
Sugawa, Jun   Hitachi, Ltd.

Comment Type **E**   *Comment Status* **A**

"10GBASE--PR-D4" should be "10GBASE-PR-D4"

SuggestedRemedy

Changes per comment

Response   *Response Status* **C**

ACCEPT.

Cl **56**   *SC* **56.1.3**   *P* **23**   *L* **10**   # 43
Brown, Alan   Aurora Networks

Comment Type **E**   *Comment Status* **A**

Undesireable use of comma in "includes the combination of 1000BASE-PX10-D (Passive Optical Network Downstream 10 km), plus 1000BASE-PX10-U (PON Upstream 10 km)"

SuggestedRemedy

Delete comma.

Response   *Response Status* **C**

ACCEPT.

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

Cl **56**
SC **56.1.3**

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Cl **56**   *SC* **56.1.3**   *P* **26**   *L* **1**   # 63

Hajduczenia, Marek   ZTE Corporation

Comment Type **TR**   *Comment Status* **A**

In the modified Table 56–3, 1000BASE-PX30-D, 1000BASE-PX30-U, 1000BASE-PX40-D and 1000BASE-PX40-U list as mandatory (M) presence of Clause 60 1000BASE-PX20 PMD type. This is clearly incorrect, since PX30 should be listing mandatory 1000BASE-PX30 PMD, while PX40 should be listing mandatory 1000BASE-PX40 PMD.

SuggestedRemedy

Revise Table 56-3 as shown in P8023bk_1209_hajduczenia_1.pdf (changes are marked in red - two new columns and moving M entries into newly added columns accordingly). Frame source is also provided for convenience.

Response   *Response Status* **C**

ACCEPT.

Cl **60**   *SC* **60**   *P* **27**   *L* **1**   # 44

Brown, Alan   Aurora Networks

Comment Type **E**   *Comment Status* **A**   *missed space*

It appears that a space is needed in "1000BASE-PX20,1000BASE-PX30".

SuggestedRemedy

Change to "1000BASE-PX20, 1000BASE-PX30".

Response   *Response Status* **C**

ACCEPT.

Cl **60**   *SC* **60**   *P* **29**   *L* **32**   # 40

Brown, Alan   Aurora Networks

Comment Type **TR**   *Comment Status* **A**   *Table f*

Reference to "Table f" is incorrect. Two occurances, lines 32 and 34.

SuggestedRemedy

Change references to "Table 60-8d"

Response   *Response Status* **C**

ACCEPT.

Cl **60**   *SC* **60.1**   *P* **27**   *L* **22**   # 46

Brown, Alan   Aurora Networks

Comment Type **E**   *Comment Status* **A**

The sentence no longer reads well, since we've added so many PMDs.
"This clause specifies the following PMDs (including MDI): " blah, blah ", and the single-mode fiber medium."

SuggestedRemedy

Move list of PMDs to the end of the sentence, as in:
"This clause specifies the single-mode fiber medium and the following PMDs (including MDI): " blah, blah

Response   *Response Status* **C**

ACCEPT IN PRINCIPLE.

Change the sentence to:

"This clause specifies the single-mode fiber medium and the following PMDs (including MDI): 1000BASE-PX10-D, 1000BASE-PX10-U, 1000BASE-PX20-D, 1000BASE-PX20-U,1000BASE-PX30-D, 1000BASE-PX30-U, 1000BASE-PX40-D and, 1000BASE-PX40-U."

Cl **60**   *SC* **60.1**   *P* **27**   *L* **23**   # 45

Brown, Alan   Aurora Networks

Comment Type **E**   *Comment Status* **A**

Extra space in "1000BASE-PX10-U ,".
Note- It is very hard to definitively cite the line reference. It may be 23 or 24.

SuggestedRemedy

Delete extra space

Response   *Response Status* **C**

ACCEPT.

Related comment: #46

Cl **60**   *SC* **60.1**   *P* **27**   *L* **30**   # 47

Brown, Alan   Aurora Networks

Comment Type **E**   *Comment Status* **A**

The paragraph as written seems disjoint.

SuggestedRemedy

Break into two paragraphs before "Typically, the 1490 nm band is used to transmit".

Response   *Response Status* **C**

ACCEPT.

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

Cl **60**
SC **60.1**

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Cl **60**   *SC* **60.1**   *P* **27**   *L* **34**   # 48
Brown, Alan   Aurora Networks

Comment Type **T**   *Comment Status* **R**

The pre-existing text discusses interoperabily, in "A 1000BASE-PX20-D PMD is interoperable with a 1000BASEPX10-U PMD". Do we expect the new PMDs to interop, for example, PX30D interop on same PON with PX30U and PX20U? If so, we should add similar text.

SuggestedRemedy

Task Force discussion may be needed to determine answer to question above, and if positive, to suggest text.

Response   *Response Status* **C**

REJECT.

It seems that "A 1000BASE-PX20-D PMD is interoperable with a 1000BASEPX10-U PMD" is described in existing document because PX20-U specification is exactly the same as PX10-U. But Task Force discussion should be made as needed.

Cl **60**   *SC* **60.1**   *P* **27**   *L* **35**   # 84
Remein, Duane   Huawei Technologies

Comment Type **E**   *Comment Status* **R**

The text added in Draft 1.1, copied below, was not needed in the past, why is it needed now?
This allows certain upgrade possibilities from 10 km to 20 km PONs. Typically, the 1490 nm band is used to transmit away from the center of the network D and the 1310 nm band towards the center U. The suffixes D and U indicate the PMDs at each end of a link which transmit in these directions and receive in the opposite directions. The splitting ratio or reach length may be increased in an FEC enabled link. FEC refers to forward error correction for P2MP optical links and is described in 65.2. The maximum reach length is not limited by the protocol, see 64.3.3.

SuggestedRemedy

Remove the text.

Response   *Response Status* **C**

REJECT.

The text is added based on resolution for comment #81 against D1.0 in San Diego, to show all the text described in 60.1.

Cl **60**   *SC* **60.1**   *P* **27**   *L* **42**   # 3
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **A**

Comment #81 added the missing text from 60.1 to the draft.
However the paragraph starting with "Two optional temperature ranges are defined;" is shown in underline font despite being unchanged.

SuggestedRemedy

Change this paragraph to normal font

Response   *Response Status* **C**

ACCEPT.

Cl **60**   *SC* **60.1**   *P* **27**   *L* **42**   # 85
Remein, Duane   Huawei Technologies

Comment Type **E**   *Comment Status* **R**

This text (copied below) has alway been the case, why is it needed now? While I can understand the mention of two optional temperature ranges I find the special mention of compliance declaration especially objectionable as this is always the case and need no special mention here, far from the PICS.
"Implementations may be declared as compliant over one or both complete ranges, or not so declared (compliant over parts of these ranges or another temperature range)."

SuggestedRemedy

Remove the text "Implementations may be declared as compliant over one or both complete ranges, or not so declared (compliant over parts of these ranges or another temperature range)."

Response   *Response Status* **C**

REJECT.

The text is added based on resolution for comment #81 against D1.0 in San Diego, to show all the text described in 60.1.

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl **60**
SC **60.1**

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Cl **60**   *SC* **60.1**   *P* **27**   *L* **48**   # 4
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **A**

The editing instruction says "Insert new rows ..." but columns have been added.
An insert editing instruction has been used, but the style of the text is appropriate to a change editing instruction.
The footnotes to Table 60-1 are shown in underline font, but most of them are unmodified.

SuggestedRemedy

Change the editing instruction to: "Change Table 60-1 ..."
Use normal font for the parts of the footnotes that are unmodified.

Response   *Response Status* **C**

ACCEPT.

Cl **60**   *SC* **60.1**   *P* **27**   *L* **48**   # 90
Remein, Duane   Huawei Technologies

Comment Type **ER**   *Comment Status* **A**

The editing instructios are incorrect, the insertion is a column:
"Insert new rows in Table 60-1 for 1000BASE-PX30-U, 1000BASE-PX30-D, 1000BASE-PX40-U, and 1000BASE-PX40-D PMDs, as shown below:"

SuggestedRemedy

Replace "rows" with "columns"

Response   *Response Status* **C**

ACCEPT.

Related comment: #4

Cl **60**   *SC* **60.1**   *P* **29**   *L* **35**   # 64
Hajduczenia, Marek   ZTE Corporation

Comment Type **E**   *Comment Status* **A**

The text "This allows certain upgrade possibilities from 10 km to 20 km PONs. Typically, the 1490 nm band is used to transmit away from the center of the network D and the 1310 nm band towards the center U. The suffixes D and U indicate the PMDs at each end of a link which transmit in these directions and receive in the opposite directions. The splitting ratio or reach length may be increased in an FEC enabled link. FEC refers to forward error correction for P2MP optical links and is described in 65.2. The maximum reach length is not limited by the protocol, see 64.3.3." as well as text "Two optional temperature ranges are defined; see 60.8.4 for further details. Implementations may be declared as compliant over one or both complete ranges, or not so declared (compliant over parts of these ranges or another temperature range)." is part of balloted standard and was not changed in this project. As such, it should not be marked with underline.

SuggestedRemedy

Remove underline for the text listed in the body of the comment

Response   *Response Status* **C**

ACCEPT.

Cl **60**   *SC* **60.1.4**   *P* **29**   *L* **32**   # 14
Kuang, Guohua   ZTE Corporation

Comment Type **T**   *Comment Status* **A**   *Table f*

There is no "Table f".

SuggestedRemedy

Change "Table f" to "Table "60-8e".

Response   *Response Status* **C**

ACCEPT.

See comment #40 resolution.

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl **60**
SC **60.1.4**

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Cl **60** *SC* **60.1.4** *P* **29** *L* **32** # 59

Sugawa, Jun Hitachi, Ltd.

Comment Type **E** *Comment Status* **A** *Table f*

In Table 60-2, Receive conditions of 1000BASE-PX40 is described as "Average input optical power < Signal Detect Threshold (min) in Table f at the specified receiver wavelength"

But "Table f" is not the correct reference.

SuggestedRemedy

In Table 60-2,
"Table f" should be changed to "Table 60-8e"

Response *Response Status* **C**

ACCEPT.

See comment #40 resolution.

Cl **60** *SC* **60.1.4** *P* **29** *L* **34** # 15

Kuang, Guohua ZTE Corporation

Comment Type **T** *Comment Status* **A** *Table f*

There is no "Table f".

SuggestedRemedy

Change "Table f" to "Table 60-8e".

Response *Response Status* **C**

ACCEPT.

Cl **60** *SC* **60.1.4** *P* **29** *L* **34** # 60

Sugawa, Jun Hitachi, Ltd.

Comment Type **E** *Comment Status* **A** *Table f*

In Table 60-2, Receive conditions of 1000BASE-PX40 is described as "Average input optical power > Receive sensitivity (max) in Table f with a compliant 1000BASE-X signal input at the specified receiver wavelength"

But "Table f" is not the correct reference

SuggestedRemedy

In Table 60-2,

"Table f" should be changed to "Table 60-8e".

Response *Response Status* **C**

ACCEPT.

Related comment: #15

Cl **60** *SC* **60.1.4** *P* **29** *L* **48** # 49

Brown, Alan Aurora Networks

Comment Type **TR** *Comment Status* **R**

Text is not clear: "The specifications for OMA have been derived from extinction ratio and average launch power (minimum) or
receiver sensitivity (maximum)." This occurs in multiple locations (such as page 33, line 10).

Is derived from A and (B or C)?
Is derived from (A and B) or C?

SuggestedRemedy

Clarify meaning, then use comma(s) appropriately to convey meaning.

Response *Response Status* **C**

REJECT.

The meaning of the text is clear by referring to 58.7.6 as described in the subsequent sentence.

To be very exact, it is derived from (A and B) or (A and C) in this case.

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl **60**
SC **60.1.4**

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Cl **60**　　*SC* **60.1.4**　　　　*P* **31**　　*L* **32**　　# 65
Hajduczenia, Marek　　　　ZTE Corporation

Comment Type **E**　　*Comment Status* **A**　　*Table f*

Broken reference in text: "Average input optical power =Signal Detect Threshold (min) in Table f at the specified receiver wavelength" - probably table 60-8e (?) should be referenced? Same in line 34

SuggestedRemedy

Per comment

Response　　　　*Response Status* **C**

ACCEPT.

In lines 32 and 34 on page 29, the incorrect references to "Table f" are changed to "Table 60-8e"

The comment refers to the incorrect page number, and it should be on page 29.

Cl **60**　　*SC* **60.10**　　　　*P* **41**　　*L* **34**　　# 76
Hajduczenia, Marek　　　　ZTE Corporation

Comment Type **E**　　*Comment Status* **A**

Missing space in line 34 in "1000BASE-PX20,1000BASE-PX30" - before "1000BASE-PX30"

SuggestedRemedy

Insert the missing space

Response　　　　*Response Status* **C**

ACCEPT.

Also, spaces are inserted to before "1000BASE-PX30" in the followings:
-in line 11 on page 35
-in lines 8 and 27 on page 36
-in lines 17, 29 and 34 on page 39

Cl **60**　　*SC* **60.10.3**　　　　*P* **40**　　*L* **29**　　# 12
Anslow, Pete　　　　Ciena

Comment Type **T**　　*Comment Status* **A**

Item "*INS" has a subclause reference of "60.3.1" in IEEE Std 802.3-2008 and the same in the revision D 3.2.
However, D1.1 has the subclause as "60.4a.1" in normal font (not underlined) which would be an unmarked change.

SuggestedRemedy

Either change the subclause to "60.3.1" or mark it as a change.

Response　　　　*Response Status* **C**

ACCEPT IN PRINCIPLE.

Change the subclause number "60.4a.1" to "60.3.1".
Also, change the descriptions for PX10U and PX10D from "60.2" to "60.3".
Descriptions for PX20U and PX20D seem to have changed from 60.3 to 60.4 in editing process.

Cl **60**　　*SC* **60.10.4**　　　　*P* **40**　　*L* **41**　　# 1
Anslow, Pete　　　　Ciena

Comment Type **E**　　*Comment Status* **A**

Comment #85 against D1.0 was accepted, but the part that says "Include the location of the insertion in each "Insert" editing instruction" has not been fully implemented.

SuggestedRemedy

In 60.10.4, change:
"Insert new PICS subclauses 60.10.4.5a, 60.10.4.5b, 60.10.4.5c, and 60.10.4.5d, ..." to:
"Insert new PICS subclauses 60.10.4.5a, 60.10.4.5b, 60.10.4.5c, and 60.10.4.5d after 60.10.4.5 ..."

Response　　　　*Response Status* **C**

ACCEPT.

Cl **60**　　*SC* **60.10.4.5c**　　　　*P* **41**　　*L* **45**　　# 61
Sugawa, Jun　　　　Hitachi, Ltd.

Comment Type **E**　　*Comment Status* **A**　　*Table f*

In the value/Comments of PX40D2, "Meets specifications in Table f" is described. But "Table f" is not the correct reference.

SuggestedRemedy

"Table f" should be changed to "Table 60-8e".

Response　　　　*Response Status* **C**

ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general　　　*Cl* **60**　　Page 6 of 21
COMMENT STATUS: D/dispatched A/accepted R/rejected　　RESPONSE STATUS: O/open W/written C/closed Z/withdrawn　　*SC* **60.10.4.5c**　　24-09-2012 13:32:30
SORT ORDER: Clause, Subclause, page, line

Cl **60**   *SC* **60.10.4.5c**   *P* **41**   *L* **46**   # 26

Kuang, Guohua   ZTE Corporation

Comment Type   **E**   *Comment Status*   **A**   *Table f*

There is no "Table f".

SuggestedRemedy

Change "Table f" to "Table 60-8e".

Response   *Response Status*   **C**

ACCEPT.

Related comment: #61 and #77

Cl **60**   *SC* **60.10.4.5c**   *P* **41**   *L* **47**   # 54

Sugawa, Jun   Hitachi, Ltd.

Comment Type   **E**   *Comment Status*   **A**   *Table f*

The Value/Comment of PX40D3 is described as "Meets specifications in
Table f", but "Table f" is not the correct reference.

SuggestedRemedy

"Table f" should be changed to "Table 60-8e".

Response   *Response Status*   **C**

ACCEPT.

Cl **60**   *SC* **60.10.4.5c**   *P* **41**   *L* **50**   # 55

Sugawa, Jun   Hitachi, Ltd.

Comment Type   **E**   *Comment Status*   **A**   *Table f*

The Value/Comment of PX40D4 is described as "If the receiver does not
meet the damage requirements in Table f then label accordingly". But "Table f" is not the
correct reference.

SuggestedRemedy

"Table f" should be changed to "Table 60-8e".

Response   *Response Status*   **C**

ACCEPT.

Cl **60**   *SC* **60.10.4.5c**   *P* **41**   *L* **52**   # 27

Kuang, Guohua   ZTE Corporation

Comment Type   **E**   *Comment Status*   **A**   *Table f*

There is no "Table f".

SuggestedRemedy

Change "Table f" to "Table 60-8e".

Response   *Response Status*   **C**

ACCEPT.

Related comment: #55 and #77

Cl **60**   *SC* **60.10.4.5c**   *P* **43**   *L* **46**   # 77

Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status*   **A**   *Table f*

Wrong reference in PICS items. Is "Table f" and should be "Table 60-8e" in lines 46, 48,
and 52 on page 43

SuggestedRemedy

Fix per comment. Make sure the inserted links are live.

Response   *Response Status*   **C**

ACCEPT.

Related comment:
#61 and #26
#54
#55 and #27

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl **60**
SC **60.10.4.5c**

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Cl **60**   *SC* **60.4a**   *P* **29**   *L* **38**   # 5

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **A**

The editing instruction says "Insert a new subclause, 60.4a, after the text in 60.4.2, as shown below", but the new subclause should be after Table 60-8 and Figure 60-4.

SuggestedRemedy

Change to "Insert a new subclause, 60.4a, after 60.4.2, as shown below"
Make equivalent change to editing instruction for 60.4b

Response   *Response Status* **C**

ACCEPT.

Good point.

Change editing instruction for 60.4b to:
"Insert a new subclause, 60.4b, after 60.4a.2, as shown below"

In resolution, go to page 308 (60.4.2) and show all the content in 60.4.2

Cl **60**   *SC* **60.4a**   *P* **30**   *L* **35**   # 923

Tajima, Akio   NEC Corporation

Comment Type **E**   *Comment Status* **A**

"The maximum" is written doubly as "The maximum The maximum RMS spectralwidth".

SuggestedRemedy

The maximum RMS spectralwidth

Response   *Response Status* **C**

ACCEPT.

Change
"The maximum The maximum RMS spectral width"

to
"The maximum RMS spectral width"

Cl **60**   *SC* **60.4a.1**   *P* **29**   *L* **53**   # 50

Brown, Alan   Aurora Networks

Comment Type **E**   *Comment Status* **R**

This paragraph is mixing singular and plural uses (two items as possessive singular "transmitter's") ("Its"). Also, not properly using serial comma (comman missing after "eye"). Also, missing article "the" before "measurement". This occurs in multiple locations, such as page 33 line 14.

SuggestedRemedy

Rewrite as:
The signaling speed, operating wavelength, spectral width, average launch power, extinction ratio, return loss tolerance, OMA, eye, and TDP of the 1000BASE-PX30-D and 1000BASE-PX30-U transmitters shall meet the specifications defined in Table 60–8a per the measurement techniques described in 60.7. The RIN15OMA of the transmitters should meet the value listed in Table 60–8a per the measurement techniques described in 60.7.7. Editor to use judgement to correct other locations.

Response   *Response Status* **C**

REJECT.

The comment is quite reasonable and much appreciated, but TF believes that the consistency of the descriptions with the existing text in Clause60 takes precedence.

=802.3ah=
60.4.1 Transmit optical specifications
The 1000BASE-PX20-D and 1000BASE-PX20-U transmitter's signaling speed, operating wavelength, spectral width, average launch power, extinction ratio, return loss tolerance, OMA, eye and TDP shall meet the specifications defined in Table 60–6 per measurement techniques described in 60.7. Its RIN15OMA should meet the value listed in Table 60–6 per measurement techniques described in 60.7.7.

=P802.3bk=
60.4a.1 Transmitter optical specifications
The 1000BASE-PX30-D and 1000BASE-PX30-U transmitter's signaling speed, operating wavelength, spectral width, average launch power, extinction ratio, return loss tolerance, OMA, eye and TDP shall meet the specifications defined in Table 60–8a per measurement techniques described in 60.7. Its RIN15OMA should meet the value listed in Table 60–8a per measurement techniques described in 60.7.7.

=Alan's suggestion=
60.4a.1 Transmitter optical specifications
The signaling speed, operating wavelength, spectral width, average launch power, extinction ratio, return loss tolerance, OMA, eye, and TDP of the 1000BASE-PX30-D and 1000BASE-PX30-U transmitters shall meet the specifications defined in Table 60–8a per the measurement techniques described in 60.7. The RIN15OMA of the transmitters should meet the value listed in Table 60–8a per the measurement techniques described in 60.7.7.

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl **60**
SC **60.4a.1**

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Cl **60**　　　*SC* **60.4a.1**　　　　　　*P* **30**　　*L* **25**　　　　# `16`
Kuang, Guohua　　　　　　　ZTE Corporation

Comment Type　**T**　　　*Comment Status*　**A**
　In table 60-9 (page 35), the minimum Optical return of ODN is more than 20dB for PX10,
　PX20, PX30 and PX40.
　This value in the table 6-8a should be kept same with in table 60-9. The optical return loss
　(min) of ODN for 1000BASE-PX30-U should be 20 dB.

SuggestedRemedy
　Change "TBD" to "20".

Response　　　　　　*Response Status*　**C**
　ACCEPT.

Cl **60**　　　*SC* **60.4a.1**　　　　　　*P* **30**　　*L* **36**　　　　# `51`
Brown, Alan　　　　　　　Aurora Networks

Comment Type　**E**　　　*Comment Status*　**R**
　Run on sentence.

SuggestedRemedy
　Replace "," with ";".

Response　　　　　　*Response Status*　**C**
　REJECT.

　The comment is quite reasonable and much appreciated, but TF believes that the
　consistency of the descriptions with the existing text in Clause60 takes precedence.

　==802.3ah==
　60.4.1 Transmit optical specifications
　The maximum RMS spectral width vs. wavelength for 1000BASE-PX20 is shown in Table
　60–7 and for
　1000BASE-PX20-U in Figure 60–4. The equation used to generate these values is
　included in 60.7.2. The
　central column values are normative, the right hand column is informative.

　==P802.3bk==
　60.4a.1 Transmitter optical specifications
　The maximum The maximum RMS spectral width vs. wavelength for 1000BASE-PX30 is
　shown in Table 60–8b and for 1000BASE-PX30-U in Figure 60–4a. The equation used to
　generate these values is included in 60.7.2. The central column values are normative, the
　right hand column is informative.

　==Alan's suggestion==
　60.4a.1 Transmitter optical specifications
　The maximum The maximum RMS spectral width vs. wavelength for 1000BASE-PX30 is
　shown in Table 60–8b and for 1000BASE-PX30-U in Figure 60–4a. The equation used to
　generate these values is included in 60.7.2. The central column values are normative; the
　right hand column is informative.

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl **60**
SC **60.4a.1**

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Cl **60**   *SC* **60.4a.1**   *P* **32**   *L* **25**   # 66

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **A**

"Optical return loss of ODN (min)" for 1000BASE-PX30-U is still TBD.

SuggestedRemedy

Chang ethe "TBD" to "20", following the minimum required value applicable to all other EPON PMD types. There is no reason to use a different value.

Response   *Response Status* **C**

ACCEPT.

Related comment: #16

Cl **60**   *SC* **60.4a.1**   *P* **33**   *L* **17**   # 67

Hajduczenia, Marek   ZTE Corporation

Comment Type **ER**   *Comment Status* **A**

Remove editorial note - the text and values have been already circulated at least once and generated no negative feedback. Additionally, the values in Table 60–8b and in Figure 60-4a were taken verbatim from 802.3av specification and were never debated.

SuggestedRemedy

Per comment

Response   *Response Status* **C**

ACCEPT.

Cl **60**   *SC* **60.4a.2**   *P* **31**   *L* **51**   # 52

Brown, Alan   Aurora Networks

Comment Type **E**   *Comment Status* **R**

This paragraph is mixing singular and plural uses (two items as possessive singular "receiver's") ("Its"). Improper serial comma use. Missing article. This occurs in multiple locations, such as page 34 line 3.

SuggestedRemedy

Rewrite as:
The signaling speed, operating wavelength, overload, sensitivity, reflectance, and signal detect of the 1000BASE-PX30-D and 1000BASE-PX30-U receivers shall meet the specifications defined in Table 60–8c per the measurement techniques defined in 60.7.10. The stressed receive characteristics should meet the values listed in Table 60–8c per the measurement techniques

Editor to use judgement to correct other locations.

Response   *Response Status* **C**

REJECT.

The comment is quite reasonable and much appreciated, but TF believes that the consistency of the descriptions with the existing text in Clause60 takes precedence.

Related comment: #50

The comment is quite reasonable and much appreciated, but TF discussions seem necessary since this suggestion would affect the consistency of the descriptions in Clause 60.

==
60.4.2
"This clause specifies the single-mode fiber medium and the following PMDs (including MDI): 1000BASE-PX10-D, 1000BASE-PX10-U, 1000BASE-PX20-D, 1000BASE-PX20-U,1000BASE-PX30-D, 1000BASE-PX30-U, 1000BASE-PX40-D, and 1000BASE-PX40-U."

60.4a.2
"The 1000BASE-PX30-D and 1000BASE-PX30-U receiver's signaling speed, operating wavelength, overload, sensitivity, reflectance and signal detect shall meet the specifications defined in Table 60–8c per measurement techniques defined in 60.7.10. Its stressed receive characteristics should meet the values listed"

Alan's suggestion to 60.4a.2:
"The signaling speed, operating wavelength, overload, sensitivity, reflectance, and signal detect of the 1000BASE-PX30-D and 1000BASE-PX30-U receivers shall meet the specifications defined in Table 60–8c per the measurement techniques defined in 60.7.10. The stressed receive characteristics should meet the values listed in Table 60–8c per the measurement techniques"

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl **60**   Page 10 of 21
SC **60.4a.2**   24-09-2012 13:32:30

==

| *Cl* **60** | *SC* **60.4a.2** | *P* **32** | *L* **5** | # 86 |

Remein, Duane   Huawei Technologies

Comment Type   **E**   *Comment Status*   **R**

This cautionary statement reads wrong, surely receiver are not damaged because direct ONU-OLT connections are not guarented by the spec. If that were the case optical component manufacturese would never be able to make operable receivers.
"The damage threshold included inTable 60–8c does not guarantee direct ONU–OLT connection, which may result in damage of the receiver. If direct ONU–OLT connection is necessary, optical attenuators and/or equivalent loss components should be inserted to decrease receive power below the damage threshold."
Similar text exists in 60.4b.2 pg 34 line 10.

SuggestedRemedy

Change to read:
"The damage threshold included in Table 60–8c does not guarantee direct ONU–OLT connection. If direct ONU–OLT connection which may result in damage of the receiver is necessary, optical attenuators and/or equivalent loss components should be inserted to decrease receive power below the damage threshold."
Make similar text changes in 60.4b.2 pg 39 line 1.

Response   *Response Status*   **C**

REJECT.

This comment has a point, but current description looks correct because this is "cautionary" statement as the commenter suggests.

| *Cl* **60** | *SC* **60.4a.2** | *P* **34** | *L* **22** | # 69 |

Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status*   **A**

The value of "Receiver sensitivity OMA (max)" for 1000BASE-PX30-U should be formatted in two lines and it is now in just one.

SuggestedRemedy

Change
"−26.22 (2.39)"
to
"−26.22
(2.39)"

Response   *Response Status*   **C**

ACCEPT.

| *Cl* **60** | *SC* **60.4b** | *P* **33** | *L* **4** | # 23 |

Kuang, Guohua   ZTE Corporation

Comment Type   **T**   *Comment Status*   **A**

The operating range for 1000BASE-PX40 is defined in Table 60-1.

SuggestedRemedy

Change "60-8d" to "60-1".

Response   *Response Status*   **C**

ACCEPT.

| *Cl* **60** | *SC* **60.4b.1** | *P* **33** | *L* **15** | # 25 |

Kuang, Guohua   ZTE Corporation

Comment Type   **T**   *Comment Status*   **A**

There is no "spectral width" in Table 60-8d.

SuggestedRemedy

Change "spectral width" to "side mode suppression ratio".

Response   *Response Status*   **C**

ACCEPT IN PRINCIPLE.

Replace "spectral width" with "Side Mode Suppression Ratio (min)".

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl **60**
SC **60.4b.1**

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Cl **60**   *SC* **60.4b.1**   *P* **33**   *L* **27**   # 20
Kuang, Guohua   ZTE Corporation

Comment Type **T**   *Comment Status* **A**
Minimum Channel insertion loss = Average launch power(max) - Average receive power(max)
PX40 DS minimum channel insertion loss is 18dB (in Table 60-1)
Average launch power (max) of 1000BASE-PX40-D is 7 dBm (in Table 60-8d)
Average receive power (max) of 1000BASE-PX40-U is -8 dBm (in Table 60-8e)
So, Minimum Channel insertion loss of PX40 DS = 7-(-8) = 15 dB, it is not meet 18 dB in Table 60-1.
Solution 1:
Increase the OLT average launch power range from 4-7dBm to 4-9 dBm
And reduce the ONU maximum average receive power from -8 dBm to -9 dBm
Correlatively, the maximum damage threshold of ONU can be reduced from -3 to -4 dBm
Minimum Channel insertion loss of PX40 DS = 9-(-9) = 18 dB

SuggestedRemedy
Change the Average launch power (max) for 1000BASE-PX40-D from "7" to "9".
See 8023bk_ZTE_201208.pdf for details.

Response   *Response Status* **C**
ACCEPT IN PRINCIPLE.

Average launch power (max) for 1000BASE-PX40-D is changed from 7 dBm to 10 dBm.
No changes to 1000BASE-PX40-U receiver specifications.
Items to explore:
-The use of PX-30 ONU for PX-40 power budget class (verify if -34 dBm sensitivity at the OLT is possible for 1-G upstream)
-Verify if it is possible to lower the minimum channel insertion loss for PX-40, PR-40, and PRX-40 from 18 to 15 dB.

Cl **60**   *SC* **60.4b.1**   *P* **33**   *L* **29**   # 17
Kuang, Guohua   ZTE Corporation

Comment Type **T**   *Comment Status* **A**
Average launch power of OFF transmitter for 1000BASE-PX10-D, 1000BASE-PX20-D and 1000BASE-PX30-D are defined less than -39 dBm.

SuggestedRemedy
Change Average launch power of OFF transmitter for 1000BASE-PX40-D from "-45" to "-39".

Response   *Response Status* **C**
ACCEPT.

A technical discussion in Task Force seems necessary before the final resolution.

Cl **60**   *SC* **60.4b.1**   *P* **33**   *L* **48**   # 24
Kuang, Guohua   ZTE Corporation

Comment Type **T**   *Comment Status* **A**
PX40-U and PX40-D are all used DFB laser. There is no need the note for spectral width.

SuggestedRemedy
Remove Note b.

Response   *Response Status* **C**
ACCEPT.

Cl **60**   *SC* **60.4b.1**   *P* **35**   *L* **33**   # 70
Hajduczenia, Marek   ZTE Corporation

Comment Type **E**   *Comment Status* **A**
The value of "Launch OMA (min)" for 1000BASE-PX40-U and 1000BASE-PX40-D should be formatted in two lines and it is now in just one.

SuggestedRemedy
Change
"4.78 (3.01)"
to
"4.78
(3.01)"

Change
"2.78 (1.90)"
to
"2.78
(1.90)"

Response   *Response Status* **C**
ACCEPT.

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

Cl **60**
SC **60.4b.1**

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Cl **60** *SC* **60.4b.2** *P* **34** *L* **23** # 21
Kuang, Guohua ZTE Corporation

Comment Type **T** *Comment Status* **A**

Minimum Channel insertion loss = Average launch power(max) - Average receive power(max)
PX40 DS minimum channel insertion loss is 18dB (in Table 60-1)
Average launch power (max) of 1000BASE-PX40-D is 7 dBm (in Table 60-8d)
Average receive power (max) of 1000BASE-PX40-U is -8 dBm (Table 60-8e)
So, Minimum Channel insertion loss of PX DS = 7-(-8) = 15 dB, it is not meet 18 dB in Table 60-1.
solution 2:
Keep the OLT average launch power, reduce the ONU maximun average receive power from -8 dBm to -11 dBm.
Minimum Channel insertion loss of PX DS = 7-(-11) = 18 dB

SuggestedRemedy

Change Average receive power (max) for 1000BASE-PX40-U from "-8" to "-11".
See 8023bk_ZTE_201208.pdf for details.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Related comment: #20

Cl **60** *SC* **60.4b.2** *P* **34** *L* **23** # 18
Kuang, Guohua ZTE Corporation

Comment Type **T** *Comment Status* **A**

Minimum Channel insertion loss = Maximum Average launch power - Average receive power.
PX40 US minimum channel insertion loss is 18dB (in Table 60-1).
Maximum Average launch power of 1000BASE-PX40-U is 7 dBm (in Table 60-8d)
Average receive power of 1000BASE-PX40-D is -8 dBm (in Table 60-8e)
So, minimum channel insertion loss for PX40 US = 7 - (-8) = 15 dB, it is not meet the 18 dB in table 60-1.

SuggestedRemedy

Change the Average receive power of 1000BASE -PX40-D from "-8" to "-11".
Correlatively, the Damage threshold (max) of 1000BASE-PX40-D should be reduced from "-3" to "-6" dBm.
See 8023bk_ZTE_201208.pdf for details.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Related comment: #20

Cl **60** *SC* **60.4b.2** *P* **34** *L* **23** # 19
Kuang, Guohua ZTE Corporation

Comment Type **T** *Comment Status* **A**

Minimum Channel insertion loss = Average launch power(max) - Average receive power(max)
PX40 DS minimum channel insertion loss is 18dB (in Table 60-1)
Average launch power (max) of 1000BASE-PX40-D is 7 dBm (in Table 60-8d)
Average receive power (max) of 1000BASE-PX40-U is -8 dBm (in Table 60-8e)
So, Minimum Channel insertion loss of PX40 DS = 7-(-8) = 15 dB, it is not meet 18 dB in Table 60-1.
Solution 1:
Increase the OLT average launch power range from 4-7 dBm to 4-9 dBm
And reduce the ONU maximum average receive power from -8 dBm to -9 dBm
Correlatively, the maximum damage threshold of ONU can be reduced from -3 to -4 dBm
Minimum Channel insertion loss of PX40 DS = 9-(-9) = 18 dB

SuggestedRemedy

Change the Average receive power of 1000BASE -PX40-U from "-8" to "-9".
See 8023bk_ZTE_201208.pdf for details.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Related comment: #20

Cl **60** *SC* **60.4b.2** *P* **34** *L* **24** # 30
Kuang, Guohua ZTE Corporation

Comment Type **T** *Comment Status* **A**

If Changed Average receive power (max) for 1000BASE-PX40-U from "-8" to "-11".
Correlatively, the maximum damage threshold of 1000BASE-PX40-U should be changed from -3 to -6 dBm
See 8023bk_ZTE_201208.pdf for details.

SuggestedRemedy

Change the maximum damage threshold of 1000BASE-PX40-U from "-3" to "-6".

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Related comment: #20

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **60**   Page 13 of 21
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   *SC* **60.4b.2**   24-09-2012 13:32:30
SORT ORDER: Clause, Subclause, page, line

Cl **60** *SC* **60.4b.2** *P* **34** *L* **24** # 29

Kuang, Guohua ZTE Corporation

Comment Type **T** *Comment Status* **A**

If reduced the 1000BASE-PX40-U maximum average receive power from -8 dBm to -9 dBm Correlatively, the maximum damage threshold of ONU should be changed from -3 to -4 dBm.
See 8023bk_ZTE_201208.pdf for details.

SuggestedRemedy

Change damage threshold for 1000BASE-PX40-U from "-3" to "-4".

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Related comment: #20

Cl **60** *SC* **60.4b.2** *P* **34** *L* **24** # 28

Kuang, Guohua ZTE Corporation

Comment Type **T** *Comment Status* **A**

If Change the Average receive power of 1000BASE -PX40-D from "-8" to "-11".
Correlatively, the Damage threshold (max) of 1000BASE-PX40-D should be reduced from "-3" to "-6" dBm.
See 8023bk_ZTE_201208.pdf for details.

SuggestedRemedy

Change the Damage threshold (max) of 1000BASE-PX40-D from "-3" to "-6".

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Related comment: #20

Cl **60** *SC* **60.4b.2** *P* **34** *L* **36** # 22

Kuang, Guohua ZTE Corporation

Comment Type **T** *Comment Status* **A**

Power in dBm = 10 x LOG10 (Power in mW), -28.22 dBm = 1.51 uW.

SuggestedRemedy

Change Stressed receive sensitivity OMA (max) for 1000BASE-PX40-U from "-28.22(1.55)" to "-28.22(1.51)".

Response *Response Status* **C**

ACCEPT.

Cl **60** *SC* **60.4b.2** *P* **36** *L* **27** # 71

Hajduczenia, Marek ZTE Corporation

Comment Type **E** *Comment Status* **A**

The value of "Receiver sensitivity OMA (max)" for 1000BASE-PX40-U and 1000BASE-PX40-D should be formatted in two lines and it is now in just one. Same for "Stressed receive sensitivity OMA (max)" for both PMDs

SuggestedRemedy

Change
"−31.22 (0.76)"
to
−31.22
(0.76)

Change
"−29.22 (1.20)"
to
"−29.22
(1.20)"

Change
"−30.22 (0.95)"
to
"−30.22
(0.95)"

Change
"−28.22 (1.55)"
to
"−28.22
(1.55)"

Response *Response Status* **C**

ACCEPT.

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

Cl **60**
SC **60.4b.2**

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Cl **60** *SC* **60.5** *P* **35** *L* **6** # 87
Remein, Duane Huawei Technologies

Comment Type **E** *Comment Status* **A**
Appears to be a dash (removed space?) instead of a white space.
1000BASE-PX20,-1000BASE-PX30,

Same issue in table 60-9 title.

SuggestedRemedy
Please don't remove the spaces, they are needed.

Response *Response Status* **C**
ACCEPT.

It indicates a removed space, and a space is inserted.
Related comment: #76

Cl **60** *SC* **60.5** *P* **37** *L* **17** # 73
Hajduczenia, Marek ZTE Corporation

Comment Type **ER** *Comment Status* **A**
Table 60–9 becomes a bit akward to read with "Upstream" and "Downstream" in written in vertical manner. Suggest to replace "Upstream" with "US" and "Downstream" with "DS" and attach footnote to the first instance of US and DS expanding them to full word. Then "US" and "DS" can be written horizontally and not vertically.
See Table 75B-1 for an example of how it should be done.

SuggestedRemedy
Similar change is suggested for Table 60-1, for Transmit Direction parameter

Response *Response Status* **C**
ACCEPT.

Good point.

Cl **60** *SC* **60.5** *P* **37** *L* **40** # 72
Hajduczenia, Marek ZTE Corporation

Comment Type **E** *Comment Status* **A**
missing space in "PX10, PX20,PX30, and PX40", between "PX20" and "PX30"

SuggestedRemedy
Insert the missing space per comment

Response *Response Status* **C**
ACCEPT.

Cl **60** *SC* **60.7.2** *P* **39** *L* **22** # 74
Hajduczenia, Marek ZTE Corporation

Comment Type **T** *Comment Status* **A**
Missing space in "Table 60-6,and Table 60–8a" - before "and".
Also, probably missing also reference to Table 60-8d - TDP is also specified for PX40 PMD.

SuggestedRemedy
Change the text in line 22 to read "specified in Table 60-3, Table 60-6, Table 60–8a,and Table 60-8d, and described in 58.7.9"

Response *Response Status* **C**
ACCEPT.

Cl **60** *SC* **60.9.4** *P* **41** *L* **29** # 75
Hajduczenia, Marek ZTE Corporation

Comment Type **E** *Comment Status* **A**
Missing space in line 29 in "PX20,1000BASE-PX30, and 1000BASE-PX40", before "1000BASE-PX30"

SuggestedRemedy
Insert the missing space

Response *Response Status* **C**
ACCEPT.

Cl **60** *SC* **Table 60-8d** *P* **33** *L* **49** # 924
Tajima, Akio NEC Corporation

Comment Type **T** *Comment Status* **R**
The notation of "Chirp" has broader meaning.

SuggestedRemedy
Add "Wavelength" at the beginning of the sentence.

Response *Response Status* **C**
REJECT.

TF discussions seem necessary.

The comment is quite reasonable and much appreciated, but this change would cause an inconsistency throughout the 802.3 standard document. The text "Transmitter is a single longitudinal mode device. Chirp is allowed such that the total optical path penalty does not exceed that found in Table 75B–2." in Table75-8 is already balloted and approved.

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl **60**
SC **Table 60-8d**

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Cl **75**   *SC* **75.1.2**   *P* **43**   *L* **15**   # **88**

Remein, Duane   Huawei Technologies

Comment Type **E**   *Comment Status* **A**

Appears to be a missing comma between 1:16 and 1:32 in "split ratios of at least 1:16
1:32, and 1:64, ..."

SuggestedRemedy

Add the comma to read:
"ssplit ratios of at least 1:16, 1:32, and at least 1:64, ..."

Response   *Response Status* **C**

ACCEPT IN PRINCIPLE.

Change to read:

"split ratios of at least 1:16, 1:32, and 1:64,.."

Cl **75**   *SC* **75.1.3**   *P* **45**   *L* **18**   # **6**

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **A**

The editing instruction says: "Add a new bullet on extended power budget class in 75.1.3,
as shown below:"
"Add" is not a valid editing instruction. The style of the text is appropriate to a change
editing instruction.

SuggestedRemedy

Change to:
"Change 75.1.3 to add a new bullet on extended power budget class, as follows:"

Response   *Response Status* **C**

ACCEPT.

Cl **75**   *SC* **75.1.3**   *P* **45**   *L* **31**   # **7**

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **A**

The added power budget class doesn't have the same text format as the existing ones.

SuggestedRemedy

Change "Extended power budget class" to italic font.

Response   *Response Status* **C**

ACCEPT.

Cl **75**   *SC* **75.1.3**   *P* **45**   *L* **31**   # **78**

Hajduczenia, Marek   ZTE Corporation

Comment Type **E**   *Comment Status* **A**

Words "Extended power budget class" should be written in italics, following the format
used in previous 3 bullets
Additionally, missing "." at the end of line 32.

SuggestedRemedy

Fix the style for the selected words and add missing ".".

Response   *Response Status* **C**

ACCEPT.

Related comment: #7

Cl **75**   *SC* **75.2.1.1**   *P* **47**   *L* **17**   # **8**

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **A**

The editing instruction says: "Modify the structure of Table 75-2 in 75.2.1.1, as shown
below:"
Modify isn't a valid editing instruction - another comment proposes to change this to a
"Change" editing instruction.
Saying "the structure" is confusing as text has been added.

SuggestedRemedy

Change to: "Change Table 75-2 in 75.2.1.1, as follows:"
Make the equivalent change to the editing instruction for Table 75-3

Response   *Response Status* **C**

ACCEPT.

Cl **75**   *SC* **75.4.1**   *P* **49**   *L* **10**   # **37**

Kuang, Guohua   ZTE Corporation

Comment Type **T**   *Comment Status* **A**

10/1GBASE-PRX-D4 is missing.

SuggestedRemedy

Change "10GBASE-PR-D4 and 10/1GBASE-PRX-D2."
to "10GBASE-PR-D4, 10/1GBASE-PRX-D2 and 10/1GBASE-PRX-D4.".

Response   *Response Status* **C**

ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **75**   Page 16 of 21
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   *SC* **75.4.1**   24-09-2012 13:32:30
SORT ORDER: Clause, Subclause, page, line

Cl **75**   *SC* **75.4.1**   *P* **49**   *L* **18**   # 38
Kuang, Guohua   ZTE Corporation

Comment Type   **T**   *Comment Status* **A**
  10/1GBASE-PRX-D4 is missing in Table 75-5.

SuggestedRemedy
  Change "10GBASE-PR-D2, 10GBASE-PR-D4, 10/1GBASE-PRX-D2" in Table 75-5
  to "10GBASE-PR-D2, 10GBASE-PR-D4, 10/1GBASE-PRX-D2, 10/1GBASE-PRX-D4".

Response   *Response Status* **C**
  ACCEPT.

Cl **75**   *SC* **75.4.1**   *P* **49**   *L* **49**   # 39
Kuang, Guohua   ZTE Corporation

Comment Type   **T**   *Comment Status* **A**
  Parameters in Table 75B-1 are defined for PR10, PR20, PR30 and PR40, and in Table
  75B-2 are defined for PRX10, PRX20, PRX30 and PRX40.
  The note a in Table 75-5 should be changed to "Chirp is allowed such that the total optical
  path penalty does not exceed that found in Table 75B-1 and Table 75B-2".

SuggestedRemedy
  Change "Table 75B-2" to "Table 75B-1 and Table 75B-2".

Response   *Response Status* **C**
  ACCEPT.

Cl **75**   *SC* **75.4.2**   *P* **50**   *L* **17**   # 56
Sugawa, Jun   Hitachi, Ltd.

Comment Type   **T**   *Comment Status* **A**
  In Table 75-6,
  The value of the damage threshold is 1dB higher than the value of the average receive
  power(max) in 10GBASE-PR-D1, 10GBASE-PR-D3, etc.
  But the value of the damage threshold(max) in 10GBASE-PR-D4 and 10/1GBASE-PRX-D4
  is 4dB higher than the value of average receiver power(max).
  I think the damage threshold of -5dBm is feasible for APD receiver, but I'm afraid that the
  damage threshold is specified as unnecesarrily high value.

SuggestedRemedy
  change the value of the damage threshold(max) in 10GBASE-PR-D4 from "-5" to "-8".

Response   *Response Status* **C**
  ACCEPT.

Cl **75**   *SC* **75.4.2**   *P* **50**   *L* **21**   # 922
Nishihara, Susumu   NTT

Comment Type   **TR**   *Comment Status* **A**
  In Table75-6, Receiver sensitivity OMA (max) for 10GBASE-PR-D4 should be -28.22 (1.51)
  instead of -28.22 (1.26).

SuggestedRemedy
  Per comment.

Response   *Response Status* **C**
  ACCEPT.

Cl **75**   *SC* **75.4.2**   *P* **50**   *L* **22**   # 34
Kuang, Guohua   ZTE Corporation

Comment Type   **T**   *Comment Status* **A**
  Power in dBm = 10 x LOG10 (Power in mW), -28.22 dBm = 1.51 uW.

SuggestedRemedy
  Change the Receiver sensitivity OMA (max) for 10GBASE-PR-D4 from "-28.22(1.26)" to "-
  28.22(1.51)".

Response   *Response Status* **C**
  ACCEPT.

  Related comment: #922

Cl **75**   *SC* **75.4.2**   *P* **50**   *L* **39**   # 79
Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status* **A**
  The value "4" in line 39 was not modifed under this project and should not be marked with
  underline

SuggestedRemedy
  Remove the formatting of the value "4" in line 39

Response   *Response Status* **C**
  ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **75**   Page 17 of 21
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   *SC* **75.4.2**   24-09-2012 13:32:30
SORT ORDER: Clause, Subclause, page, line

Cl **75** *SC* **75.4.2** *P* **51** *L* **1** # 91
Remein, Duane Huawei Technologies

Comment Type **ER** *Comment Status* **A**

Table 75-7 seems to be a waste of space, in the draft 2012 spec edition it had some value, here it is just a new way to create an indirect reference (go see here, which says go see there ...).
I realize there are a lot of refererences to table 75-7 but if we decided to move all parametric values out of the table it seems kind of mean hearted to keep it in just because we con't want to finish the job.

Same comment on Table 75-9 pg 53

SuggestedRemedy

Add editorial note to remove the table and replace it with the following text.
"PMD reveice chaaristice for 10/1GBASE-PRX-D1 are the same as 1000BASE-PX10D found in Table 60-5.
PMD reveice chaaristice for 10/1GBASE-PRX-D2 are the same as 1000BASE-PX20D found in Table 60-8.
PMD reveice chaaristice for 10/1GBASE-PRX-D3 are the same as 1000BASE-PX30D found in Table 60-8c.
PMD reveice chaaristice for 10/1GBASE-PRX-D4 are the same as 1000BASE-PX40D found in Table f."

Editor to remove all references to Table 75-7 and replace with appropriate reference per above text.
May need to move notes from table also.

Response *Response Status* **C**
ACCEPT IN PRINCIPLE.

Modify Table75-7 per "8023bk_1209_remein_01.pdf". Apply same change to Table75-9.

Cl **75** *SC* **75.4.2** *P* **51** *L* **31** # 80
Hajduczenia, Marek ZTE Corporation

Comment Type **E** *Comment Status* **A** *Table f*
Wrong reference in "same as 1000BASE–PX40–D receive parameters (see Table f)" - "Table f" should be "Table 60-8e"

SuggestedRemedy
Fix per comment

Response *Response Status* **C**
ACCEPT.

Cl **75** *SC* **75.4.2** *P* **51** *L* **32** # 13
Anslow, Pete Ciena

Comment Type **T** *Comment Status* **A** *Table f*
Table 75-7 for 10/1GBASE–PRX–D4 says "(see Table f)"

SuggestedRemedy
Correct this cross reference.

Response *Response Status* **C**
ACCEPT.

Related comment: #80

Cl **75** *SC* **75.4.2** *P* **51** *L* **32** # 36
Kuang, Guohua ZTE Corporation

Comment Type **E** *Comment Status* **A** *Table f*
There is no "Table f".

SuggestedRemedy
Change "Table f" to "Table 60-8e".

Response *Response Status* **C**
ACCEPT.

Related comment: #80

Cl **75** *SC* **75.4.2** *P* **51** *L* **6** # 57
Sugawa, Jun Hitachi, Ltd.

Comment Type **E** *Comment Status* **A** *Table f*
In Table75-7, the spcification of 10/1GBASE-PRX-D4 is described as "same as 1000BASE-PX40-D receive parameters (see Table f)". But "Table f" is not the correct reference.

SuggestedRemedy
"Table f" should be changed to "Table 60-8e".

Response *Response Status* **C**
ACCEPT.

See comment #80 resolution.

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line

Cl **75**
SC **75.4.2**

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24-09-2012 13:32:30

Cl **75**　　　*SC* **75.5.1**　　　　　*P* **53**　　　*L* **39**　　　# 81
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**T**　　　*Comment Status*　**A**

Text on RMS spectral width seems incorrect as written right now: "The maximum RMS spectral width vs. wavelength for 10/1GBASE–PRX–U1, 10/1GBASE–PRX–U2,and 10/1GBASE–PRX–U3 PMDs are shown, respectively, in Table 60–4, Table 60–7 and, and Table 75–10 Table 60–8b, and in Table 60–4. " - there is reference to Table 60-4 which is not correct

SuggestedRemedy

Modify the text in lines 39 - 42 by removing the statement ", and in Table 60–4"

Response　　　　　　*Response Status*　**C**

ACCEPT.

Cl **75**　　　*SC* **75.5.1**　　　　　*P* **53**　　　*L* **41**　　　# 33
Kuang, Guohua　　　　　　ZTE Corporation

Comment Type　**T**　　　*Comment Status*　**A**

"Table 60-4" is listed twice.

SuggestedRemedy

Change "Table 60-8b, and in Table 60-4" to "and Table 60-8b".

Response　　　　　　*Response Status*　**C**

ACCEPT.

Related comment: #81

Cl **75**　　　*SC* **75.5.2**　　　　　*P* **54**　　　*L* **22**　　　# 9
Anslow, Pete　　　　　　Ciena

Comment Type　**E**　　　*Comment Status*　**A**

For the deleted Table 75-10, footnote "a" has some spurious extra text in strikethrough font: "Modify Table 75-11 as shown below:"

SuggestedRemedy

Remove the spurious text.

Response　　　　　　*Response Status*　**C**

ACCEPT.

Cl **75**　　　*SC* **75.5.2**　　　　　*P* **55**　　　*L* **23**　　　# 35
Kuang, Guohua　　　　　　ZTE Corporation

Comment Type　**T**　　　*Comment Status*　**A**

Power in dBm = 10 x LOG10 (Power in mW), -27.59 dBm = 1.74 uW.

SuggestedRemedy

Change the Receiver sensitivity OMA (max) for 10GBASE-PR-U4 and 10/1GBASE-PRX-U4 from "-27.59(1.12)" to "-27.59(1.74)".

Response　　　　　　*Response Status*　**C**

ACCEPT.

Cl **75**　　　*SC* **75.6.2**　　　　　*P* **56**　　　*L* **19**　　　# 32
Kuang, Guohua　　　　　　ZTE Corporation

Comment Type　**T**　　　*Comment Status*　**A**

There is no "Table 60-8f".

SuggestedRemedy

Change "Table 60-8f" to "Table 60-8e".

Response　　　　　　*Response Status*　**C**

ACCEPT.

Cl **75**　　　*SC* **75.6.2**　　　　　*P* **56**　　　*L* **19**　　　# 82
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**E**　　　*Comment Status*　**A**

Incorrect reference: is "Table 60-8f" and should be "Table 60-8e" Similar problem on page 65, line 21

SuggestedRemedy

Per comment

Response　　　　　　*Response Status*　**C**

ACCEPT.

Related comment: #32

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general　　　　*Cl* **75**　　　Page 19 of 21
COMMENT STATUS: D/dispatched A/accepted R/rejected　　　RESPONSE STATUS: O/open W/written C/closed Z/withdrawn　　*SC* **75.6.2**　　24-09-2012 13:32:30
SORT ORDER: Clause, Subclause, page, line

Cl **75**   *SC* **75.6.2**   *P* **56**   *L* **22**   # 31
Kuang, Guohua   ZTE Corporation

Comment Type **T**   *Comment Status* **A**
There is no "Table 60-8f".

SuggestedRemedy
Change "Table 60-8f" to "Table 60-8e".

Response   *Response Status* **C**
ACCEPT.

Cl **75**   *SC* **Table 75-8**   *P* **52**   *L* **34**   # 925
Tajima, Akio   NEC Corporation

Comment Type **T**   *Comment Status* **A**
"3.0 dB - TDP" is efffective in the case of PR-U1 and PR-U2. In the case of PR-U4, the amount is "2.0 dB- TDP".

SuggestedRemedy
"3.0 dB - TDP" for 10GBASE-PR-U1 and 10GBASE-PR-U2 and "2.0 dB- TDP" for 10G-BASE-PR-U4.

Response   *Response Status* **C**
ACCEPT.

Cl **75A**   *SC* **75A.1**   *P* **63**   *L* **8**   # 10
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **A**
The editing instruction says "Modify the text in 75A.1 as follows:"
Modify isn't a valid editing instruction - another comment proposes to change this to a "Change" editing instruction.
Only some of the text in 75A.1 is shown

SuggestedRemedy
Change the editing instruction to:
"Change the third and the last paragraphs in 75A.1 as follows:"
and show the whole of the text of those paragraphs.

Response   *Response Status* **C**
ACCEPT.

Note:
Show the original text in 75A.1, in 802.3av, in resolution

Cl **75B**   *SC* **75B.1**   *P* **67**   *L* **16**   # 83
Hajduczenia, Marek   ZTE Corporation

Comment Type **E**   *Comment Status* **A**
Missing space in "PRX30,and PRX40", before "and"
Similar problem in line 25, same page
Similar problem in line 51, page 68
Similar problem in line 9, page 71 (two instances)
Similar problem in line 9, page 69, in text "1000BASE-PX30-U,10GBASE-PRX-U1"

SuggestedRemedy
Insert missing space.

Response   *Response Status* **C**
ACCEPT.

Cl **75B**   *SC* **75B.2.2**   *P* **67**   *L* **13**   # 89
Remein, Duane   Huawei Technologies

Comment Type **E**   *Comment Status* **R**
The statement below is somewhat incorrect. While the WDM cannot be used in the standard because of the overlap compliant ONUs could certainly be multiplexed with WDM. For example an ONU operating at 1265nm +-5nm could be WDM'd with another that operates at 1275nm +-5nm, both ONUs would be fully compliant.

"The 1260-1360 wavelength band and the 1260-1280 wavelength band overlap, thus WDM channel multiplexing cannot be used to separate the two data rates for 1000BASE-PX10-U, 1000BASE-PX20-U, 1000BASE-PX30-U compliant ONUs and 10GBASE-PRX-U1, 10GBASE-PRX-U2, 10GBASE-PRX-U3 compliant ONUs."

SuggestedRemedy
Change "thus WDM channel multiplexing cannot be used to separate the two data rates" to "thus WDM channel multiplexing cannot be used to specify separattion of the two data rates"

Response   *Response Status* **C**
REJECT.

The original text reads fine. The standard defines the maximum width of wavelength ranges which need to be supported. While more narrowband solutions are possible and compliant with the standard, we typically do not list all possible combination of such more stringent implementations in the specification. Moreover, the text is informative only and does not affect in any way interoperability between individual devices.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
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SORT ORDER: Clause, Subclause, page, line

Cl **75B**   Page 20 of 21
SC **75B.2.2**   24-09-2012 13:32:30

Cl **99** *SC* **99** *P* **15** *L* **1** # 42
Brown, Alan   Aurora Networks

Comment Type **ER** *Comment Status* **A**

 Page 15 occurs twice in this document with distinct content. Same problem for page 16.

SuggestedRemedy

 Correct page numbering.

Response   *Response Status* **C**

 ACCEPT.

Cl **99** *SC* **99** *P* **15** *L* **23** # 2
Anslow, Pete   Ciena

Comment Type **E** *Comment Status* **A**

 Two spaces missing in editing instructions description in "andreplace" and "existingmaterial."

SuggestedRemedy

 insert two spaces

Response   *Response Status* **C**

 ACCEPT.

Cl **99** *SC* **99** *P* **3** *L* **15** # 62
Hajduczenia, Marek   ZTE Corporation

Comment Type **E** *Comment Status* **A**

 The text in the box says: " Media Access Control (MAC) service interface and management parameters to support time synchronization protocols" and described P802.3bf project and not P802.3bk

SuggestedRemedy

 Replace the selected text with "Physical Layer Specifications and Management Parameters for Extended Ethernet Passive Optical Networks"

Response   *Response Status* **C**

 ACCEPT.

Cl **99** *SC* **99** *P* **5** *L* **51** # 41
Brown, Alan   Aurora Networks

Comment Type **E** *Comment Status* **R**

 As of 1 January, 2012, IEEE is no longer accepting requests for interpretations. Do IEEE, 802, or 802.3 have improved text for this section? It seems to me that we should state the fact.

SuggestedRemedy

 If no other suggested text, add
 "As of 1 January 2012, IEEE no longer accepts requests for interpretations of IEEE standards. Refer to the IEEE page on Standards Interpretations for more information."
 Note- "Standards Interpretation" should be a hyperlink to URL http://standards.ieee.org/findstds/interps/.

Response   *Response Status* **C**

 REJECT.

 The Frontmatter is the responsibility of the 802.3 WG chair and the IEEE staff. The comment will be provided to them to enhance the Frontmatter.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general *Cl* **99** Page 21 of 21
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn *SC* **99** 24-09-2012 13:32:30
SORT ORDER: Clause, Subclause, page, line