*Cl* **030**    *SC* **30.5.1.1.2**    *P* **43**    *L* **16**    # 2

Anslow, Pete                Ciena

*Comment Type* **E**    *Comment Status* **D**    *<bucket>*

Comment #20 against D2.0 changed all instances of "2-lane" to "two-lane" and all instances of "4-lane" to "four-lane" in new text.
This is ok for new clauses and new text in existing clauses where it is appropriate. However, there are two places in the draft where this makes the newly inserted text inconsistent with the surrounding existing text.
In 30.5.1.1.2, the existing list has:
100GBASE-CR10 "over 10 lane shielded copper"
100GBASE-SR4 "over 4 lane multimode fiber"
100GBASE-SR10 "over 10 lane multimode fiber"
etc.
Likewise in 80.1.3, the existing exceptions use "10 lane", "4 lane" etc.

*SuggestedRemedy*

In 30.5.1.1.2 and 80.1.3 change "two-lane" to "2 lane" and "four-lane" to "4 lane" throughout to be consistent with the surrounding text.

*Proposed Response*    *Response Status* **W**

PROPOSED ACCEPT.

---

*Cl* **030**    *SC* **30.5.1.1.15**    *P* **44**    *L* **36**    # 3

Anslow, Pete                Ciena

*Comment Type* **E**    *Comment Status* **D**    *<bucket>*

The base text (as amended by IEEE Std 802.3bs-201x) has ". Clause 108, and Clause 119 ..." but there is no "and" shown in the P802.3cd draft.

*SuggestedRemedy*

Change ". Clause 108, Clause 119 ." to ". Clause 108, and Clause 119 ." where "and " is in strikethrough font.

*Proposed Response*    *Response Status* **W**

PROPOSED ACCEPT.

---

*Cl* **031B**    *SC* **31B.4.3**    *P* **328**    *L* **40**    # 9

Anslow, Pete                Ciena

*Comment Type* **T**    *Comment Status* **D**    *<bucket>*

The addition of requirements for 50 Gb/s Ethernet to 31B.3.7 means that changes to the PICS in 31B.4.3 and 31B.4.6 should be made.

*SuggestedRemedy*

Insert new rows into the tables in 31B.4.3 and 31B.4.6 for "operating speeds of 50 Gb/s" using the changes made here by IEEE Std 802.3by-2016 as an example.

*Proposed Response*    *Response Status* **W**

PROPOSED ACCEPT.

---

*Cl* **045**    *SC* **45.2.1.102.6c**    *P* **59**    *L* **42**    # 4

Anslow, Pete                Ciena

*Comment Type* **E**    *Comment Status* **D**    *<bucket>*

Missing "." at the end of the last sentence.

*SuggestedRemedy*

Add the missing "."

*Proposed Response*    *Response Status* **W**

PROPOSED ACCEPT.

---

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

*Cl* **045**
*SC* **45.2.1.102.6c**

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*Cl* **069**  *SC* **69.2.3**  *P* **84**  *L* **46**  # 5

Anslow, Pete  Ciena

*Comment Type* **T**  *Comment Status* **D**  *<bucket>*

After this amendment is applied the table titles will be:
Table 69–1—Nomenclature and clause correlation for 1 Gb/s and 10 Gb/s Backplane Ethernet Physical Layers
Table 69–1a—Nomenclature and clause correlation for 25 Gb/s Backplane Ethernet Physical Layers
Table 69–2—Nomenclature and clause correlation for 40 Gb/s and 100 Gb/s Backplane Ethernet Physical Layers
Table 69–2a—Nomenclature and clause correlation for 2.5 Gb/s and 5 Gb/s Backplane Ethernet Physical Layers
Table 69–2b—Nomenclature and clause correlation for 50Gb/s Backplane Ethernet Physical Layers
Table 69–2c—Nomenclature and clause correlation for 100Gb/s two-lane Backplane Ethernet Physical Layers
Table 69–2d—Nomenclature and clause correlation for 200Gb/s Backplane Ethernet Physical Layers
To make this more consistent, I will comment against P802.3cb to move 2.5 Gb/s and 5 Gb/s between Table 69-1 and 69-1a.
Also, the title of Table 69-2 should be changed to clarify that it does not contain all 100G PHYs.

*SuggestedRemedy*

Either:
Add a change to the title of Table 69-2 to be:
"Table 69–2—Nomenclature and clause correlation for 40 Gb/s and 100 Gb/s four-lane Backplane Ethernet Physical Layers"
or:
Add a change to the title of Table 69-2 to be:
"Table 69–2—Nomenclature and clause correlation for 40 Gb/s and four-lane 100 Gb/s Backplane Ethernet Physical Layers"
Change the title of Table 69-2c to:
"Table 69–2c—Nomenclature and clause correlation for two-lane 100Gb/s Backplane Ethernet Physical Layers"

*Proposed Response*  *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Add a change to the title of Table 69-2 to be:
"Table 69–2—Nomenclature and clause correlation for 40 Gb/s and four-lane 100 Gb/s Backplane Ethernet Physical Layers"

Change the title of Table 69-2c to:
"Table 69–2c—Nomenclature and clause correlation for two-lane 100Gb/s Backplane Ethernet Physical Layers"

*Cl* **091**  *SC* **91.6.5a**  *P* **114**  *L* **7**  # 15

Ran, Adee  Intel

*Comment Type* **E**  *Comment Status* **D**  *<bucket>*

Paragraph is read as if MDIO mapping is only valid if the degraded SER ability is not supported.

The description should be aligned with other "ability" bits in clause 91.

*SuggestedRemedy*

Change the third sentence in this paragraph text

FROM
This variable is set to zero if this ability is not supported and is mapped to the bit defined in 45.2.1.102 (1.201.3).

TO
The variable is set to zero if this ability is not supported. This variable is mapped to the bit defined in 45.2.1.102 (1.201.3).

*Proposed Response*  *Response Status* **W**

PROPOSED ACCEPT.

*Cl* **093A**  *SC* **93A-1**  *P* **330**  *L* **12**  # 81

Dudek, Mike  Cavium

*Comment Type* **T**  *Comment Status* **D**  *<bucket>*

The other AUI C2C specs have C2C in their titles in table 93A-2, and C2C is in the titles of these annexes.

*SuggestedRemedy*

Add C2C to the 100GAUI-4 and 100GAUI-2 Physical layers in table 93A-2

*Proposed Response*  *Response Status* **W**

PROPOSED ACCEPT.

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

*Cl* **093A**
*SC* **93A-1**

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*Cl* **133**    *SC* **133.5.3**       *P* **19**     *L* **146**    # 6

Anslow, Pete                  Ciena

*Comment Type*  **E**    *Comment Status*  **D**           *<bucket>*

The ruling at the ned of a table should be "thin" not "very thin".
Same issue for the table in 133.5.4.8

*SuggestedRemedy*

Highlight the bottom row of the table, Table, Format, Custom Ruling & Shading, Apply
Ruling Style: "From Table" to "Bottom" edge.
Make the same change to the table in 133.5.4.8.

*Proposed Response*     *Response Status*  **W**

PROPOSED ACCEPT.

---

*Cl* **134**    *SC* **134.1.1**       *P* **150**     *L* **20**    # 57

Slavick, Jeff               Broadcom Limited

*Comment Type*  **E**    *Comment Status*  **D**           *<bucket>*

Repetition of the words "for the fact" in the last sentence.

*SuggestedRemedy*

Change ", and for the fact the alignment marker mapping to the" to ", and the alignment
marker mapping of the"

*Proposed Response*     *Response Status*  **W**

PROPOSED ACCEPT.

---

*Cl* **134**    *SC* **134.6**        *P* **162**     *L* **32**    # 7

Anslow, Pete                  Ciena

*Comment Type*  **E**    *Comment Status*  **D**           *<bucket>*

The title of Table 134-2 is missing the Table continuation variable.
Also, the number of orphan rows for the table should be set lower than 10.

*SuggestedRemedy*

Place the cursor at the end of table title on first page. Then click on the Variables Tab and
insert "Table Continuation" variable.
In Table designer, set the number of orphan rows to 5.

*Proposed Response*     *Response Status*  **W**

PROPOSED ACCEPT.

---

*Cl* **134**    *SC* **134.6.1**       *P* **163**     *L* **50**    # 8

Anslow, Pete                  Ciena

*Comment Type*  **E**    *Comment Status*  **D**           *<bucket>*

There are several instances in 134.6 of text such as "the bit defined in 45.2.1.101
(1.200.1)". But 45.2.1.101 defines a whole register (1.200) not just one bit. Bit 1.200.1 is
defined in 45.2.1.101.1 and it would be more helpful to change the cross-reference to this,
despite the fact that the equivalent subclauses in Clause 91 reference the register.

*SuggestedRemedy*

In 134.6.1, change "45.2.1.101" to "45.2.1.101.1" (in forest green).
In 134.6.2, change "45.2.1.101" to "45.2.1.101.aa".
In 134.6.6, change "45.2.1.102" to "45.2.1.102.8" (in forest green).
In 134.6.7, change "45.2.1.102" to "45.2.1.102.7" (in forest green).
In 134.6.8, change "45.2.1.102" to "45.2.1.102.6c".
In 134.6.9, change "45.2.1.102" to "45.2.1.102.6b".
In 134.6.10, change "45.2.1.102" to "45.2.1.102.6a".
In 134.6.12, change "45.2.1.102" to "45.2.1.102.2".
In 134.6.17, change "45.2.1.102" to "45.2.1.102.1".

*Proposed Response*     *Response Status*  **W**

PROPOSED ACCEPT.

---

*Cl* **135E**    *SC* **135E.1**      *P* **357**     *L* **1**    # 72

Dudek, Mike                 Cavium

*Comment Type*  **E**    *Comment Status*  **D**           *<bucket>*

Normally things are "shown" in figures not in sections

*SuggestedRemedy*

Change "shown" to "described"   Make the same change in annex 135G  on page 370 line
3.

*Proposed Response*     *Response Status*  **W**

PROPOSED ACCEPT.

---

TYPE: TR/technical required  ER/editorial required  GR/general required  T/technical  E/editorial  G/general    *Cl*  **135E**    Page 3 of 7
COMMENT STATUS: D/dispatched  A/accepted  R/rejected    RESPONSE STATUS: O/open  W/written  C/closed  U/unsatisfied  Z/withdrawn    *SC*  **135E.1**    2017-09-06 11:59:28 A
SORT ORDER: Clause, Subclause, page, line

*Cl* **135E**    *SC* **135E.1**        *P* **357**      *L* **50**     # 83
Dudek, Mike                 Cavium

*Comment Type* **T**     *Comment Status* **D**      *&lt;bucket&gt;*
   The 50GAUI-2 and 100GAUI-4 don't use PAM4 signalling

*SuggestedRemedy*
   Change "PAM4" to "NRZ".

*Proposed Response*     *Response Status* **W**
   PROPOSED ACCEPT IN PRINCIPLE.

   On page 357 line 48 delete "using NRZ signaling".
   On page 357 line 50 change "PAM4" to "NRZ".

*Cl* **135E**    *SC* **135E.5.4.3**     *P* **362**      *L* **16**     # 84
Dudek, Mike                 Cavium

*Comment Type* **T**     *Comment Status* **D**      *&lt;bucket&gt;*
   Wrong reference

*SuggestedRemedy*
   Change 120C.3.3 to 120C.3.4

*Proposed Response*     *Response Status* **W**
   PROPOSED ACCEPT.

*Cl* **135F**    *SC* **135F.5.4.1**     *P* **367**      *L* **41**     # 85
Dudek, Mike                 Cavium

*Comment Type* **T**     *Comment Status* **D**      *&lt;bucket&gt;*
   The equation reference is now wrong (as 802.3bs now has a different local equation)

*SuggestedRemedy*
   Change equation 93-3 to equation 120D-2  Also in PICS RC1

*Proposed Response*     *Response Status* **W**
   PROPOSED ACCEPT IN PRINCIPLE.

   Change TC1 and RC1 Value/Comment to:
   "Meets Equation 120D-2 constraints"

*Cl* **135G**    *SC* **135G.5.4.**     *P* **373**      *L* **28**     # 86
Dudek, Mike                 Cavium

*Comment Type* **E**     *Comment Status* **D**      *&lt;bucket&gt;*
   The order of the PICS is different from Clause 120E

*SuggestedRemedy*
   Re-order the PICS to match Clause 120E

*Proposed Response*     *Response Status* **W**
   PROPOSED ACCEPT.

*Cl* **135G**    *SC* **135G.5.4.1**     *P* **374**      *L* **17**     # 87
Dudek, Mike                 Cavium

*Comment Type* **T**     *Comment Status* **D**      *&lt;bucket&gt;*
   The PICS don't match the requirements (problem commented on in 802.3bs on Annex
   120E as well)

*SuggestedRemedy*
   Change TH11 to 0.22UI, TH12 to 32mV, TM10 to 70mV.

*Proposed Response*     *Response Status* **W**
   PROPOSED ACCEPT.

*Cl* **135G**    *SC* **135G.5.4.2**     *P* **374**      *L* **24**     # 88
Dudek, Mike                 Cavium

*Comment Type* **T**     *Comment Status* **D**      *&lt;bucket&gt;*
   The host output does not have a Vertical eye closure specification

*SuggestedRemedy*
   Delete TH14

*Proposed Response*     *Response Status* **W**
   PROPOSED ACCEPT.

TYPE: TR/technical required  ER/editorial required  GR/general required  T/technical  E/editorial  G/general    *Cl* **135G**    Page 4 of 7
COMMENT STATUS: D/dispatched  A/accepted  R/rejected    RESPONSE STATUS: O/open  W/written  C/closed  U/unsatisfied  Z/withdrawn    *SC* **135G.5.4.2**    2017-09-06 11:59:28 A
SORT ORDER: Clause, Subclause, page, line

*Cl* **136**    *SC* **136.9.3**         *P* **224**       *L* **6**         # 46

Dawe, Piers                           Mellanox

*Comment Type* **E**      *Comment Status* **D**                *<bucket>*

Please put the abbreviation that one will string-search for (SNDR) in the table, as done for
RLM and SNRISI.
Other examples:
Side-mode suppression ratio (SMSR), (min) Transmitter and dispersion eye closure for
PAM4 (TDECQ), each lane (max) Transmitter and dispersion eye closure (TDEC), each
lane (max) Vertical eye closure penalty (VECP), each lane Transmitter and dispersion
penalty (TDP), each lane (max)

*SuggestedRemedy*

Signal-to-noise-and-distortion ratio (SNDR), (min.)

*Proposed Response*       *Response Status* **W**

PROPOSED ACCEPT.

---

*Cl* **136D**   *SC* **136D.3**         *P* **395**       *L* **28**        # 19

Ran, Adee                             Intel

*Comment Type* **E**      *Comment Status* **D**                *<bucket>*

"The examples are;" should be "The examples are:" (colon instead of semicolon)

*SuggestedRemedy*

per comment

*Proposed Response*       *Response Status* **W**

PROPOSED ACCEPT.

---

*Cl* **137**    *SC* **137.8.3**         *P* **247**       *L* **52**        # 75

Dudek, Mike                           Cavium

*Comment Type* **T**      *Comment Status* **D**                *<bucket>*

The section heading is for PMD receive function as is the reference to 136.8.3 but the text
is talking about the transmit function.   Also the MDI exception is in 137.8.2 and for
consistency should be in this section as well.

*SuggestedRemedy*

Change the sentence to "The PMD receive function specification is identical to that of
136.8.3 with the exception that electrical signals are received from the MDI, according to
the receive electrical specifications in 137.9.3"

*Proposed Response*       *Response Status* **W**

PROPOSED ACCEPT.

---

*Cl* **137**    *SC* **137.8.3**         *P* **247**       *L* **52**        # 31

Hidaka, Yasuo                         Fujitsu Lab. of Americ

*Comment Type* **E**      *Comment Status* **D**                *<bucket>*

137.8.3 describes the PMD receive function.

*SuggestedRemedy*

Change "transmit" to "receive" in the first paragraph of 137.8.3.

*Proposed Response*       *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

See comment #75.

---

*Cl* **137**    *SC* **137.8.4**         *P* **248**       *L* **25**        # 32

Hidaka, Yasuo                         Fujitsu Lab. of Americ

*Comment Type* **E**      *Comment Status* **D**                *<bucket>*

137.8.4 describes the PMD global signal detect function.

*SuggestedRemedy*

Change "global signal" to "global signal detect" in the first paragraph of 137.8.4.

*Proposed Response*       *Response Status* **W**

PROPOSED ACCEPT.

---

*Cl* **137**    *SC* **137.8.5**         *P* **248**       *L* **29**        # 76

Dudek, Mike                           Cavium

*Comment Type* **E**      *Comment Status* **D**                *<bucket>*

Missing word.

*SuggestedRemedy*

Change "signal function" to "signal detect function"

*Proposed Response*       *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

See comment #33.

---

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

*Cl* **137**
*SC* **137.8.5**

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*Cl* **137**    *SC* **137.8.5**    *P* **248**    *L* **29**    # 33
Hidaka, Yasuo    Fujitsu Lab. of Americ

*Comment Type* **E**    *Comment Status* **D**    *<bucket>*
137.8.5 describes the PMD lane-by-lane signal detect function.

*SuggestedRemedy*
Change "lane-by-lane signal" to "lane-by-lane signal detect" in the first paragraph of 137.8.5.

*Proposed Response*    *Response Status* **W**
PROPOSED ACCEPT.

---

*Cl* **137**    *SC* **137.8.7**    *P* **248**    *L* **37**    # 77
Dudek, Mike    Cavium

*Comment Type* **E**    *Comment Status* **D**    *<bucket>*
All the other optional functions on this page state that they are optional in the text. This one doesn't

*SuggestedRemedy*
For consistency change to "The PMD lane-by-lane transmit disable function is optional. Its specification is identical to that of 136.8.7."

*Proposed Response*    *Response Status* **W**
PROPOSED ACCEPT.

---

*Cl* **137**    *SC* **137.9.3**    *P* **249**    *L* **37**    # 78
Dudek, Mike    Cavium

*Comment Type* **E**    *Comment Status* **D**    *<bucket>*
This is the KR clause not the CR clause

*SuggestedRemedy*
Change "50GBASE-CR and 100GBASE-CR2" to ""50GBASEKR and 100GBASE-KR2"

*Proposed Response*    *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.

Change "50GBASE-CR and 100GBASE-CR2" to "50GBASE-KR and 100GBASE-KR2".

---

*Cl* **137**    *SC* **137.12.4.3**    *P* **257**    *L* **50**    # 73
Dudek, Mike    Cavium

*Comment Type* **T**    *Comment Status* **D**    *<bucket>*
The return loss requirement in the spec is to meet Table 120D-1. The reference here in the PICS for TC3 is to 93.8.1.4 which has a different equation.

*SuggestedRemedy*
Change the section to 120D.3.1.1

*Proposed Response*    *Response Status* **W**
PROPOSED ACCEPT.

Change the reference clause for item TC3 to 120D.3.1.1.

---

*Cl* **137**    *SC* **137.12.4.3**    *P* **257**    *L* **50**    # 79
Dudek, Mike    Cavium

*Comment Type* **T**    *Comment Status* **D**    *<bucket>*
Wrong reference in PICS.

*SuggestedRemedy*
Change 93.8.1.4 to 120D.3.1.1

*Proposed Response*    *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.

Comment seems to be a duplicate of #73. Apply the remedy in #73.

---

*Cl* **137**    *SC* **137.12.4.3**    *P* **258**    *L* **15**    # 80
Dudek, Mike    Cavium

*Comment Type* **E**    *Comment Status* **D**    *<bucket>*
The subclause reference is wrong

*SuggestedRemedy*
Change 120D.3.1.1 to 120D.3.1.8

*Proposed Response*    *Response Status* **W**
PROPOSED ACCEPT.

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

*Cl* **137**
*SC* **137.12.4.3**

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*Cl* **139**        *SC* **139.6.1**              *P* **291**        *L* **36**              # 39

Dawe, Piers                                      Mellanox

*Comment Type*    **E**        *Comment Status*   **D**                          <bucket>

There's only one lane here.

*SuggestedRemedy*

Change "Total average launch power (max)" to "Average launch power (max)".

*Proposed Response*       *Response Status*   **W**

PROPOSED ACCEPT.

TYPE: TR/technical required  ER/editorial required  GR/general required  T/technical  E/editorial  G/general          *Cl*  **139**          Page 7 of 7
COMMENT STATUS: D/dispatched  A/accepted  R/rejected     RESPONSE STATUS: O/open  W/written  C/closed  U/unsatisfied  Z/withdrawn          *SC*  **139.6.1**          2017-09-06  11:59:28 A
SORT ORDER: Clause, Subclause, page, line