

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet 3rd Task Force review comments

CI **FM** SC **FM** P **1** L **31** # **10**
 Anslow, Pete Ciena

Comment Type **E** Comment Status **D** bucket

IEEE Std 802.3bu-2016 and IEEE Std 802.3bv-201x are missing from the list of amendments

SuggestedRemedy

Add IEEE Std 802.3bu-2016 and IEEE Std 802.3bv-201x to the list of amendments
 Change "IEEE Std 802.3butm-201x" to "IEEE Std 802.3buT-2016" on page 13

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **030** SC **30.5.1.1.15** P **42** L **36** # **11**
 Anslow, Pete Ciena

Comment Type **E** Comment Status **D** bucket

The text as modified by IEEE Std 802.3by-2016 ends: "(see 65.2, Clause 74, Clause 91, and Clause 108)". This includes a closing ")". Consequently the ")" in this draft should not be shown in underline font as it is not being inserted.

SuggestedRemedy

Remove the underline from ")"

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **045** SC **45** P **0** L **0** # **90**
 Slavick, Jeff Broadcom Limited

Comment Type **T** Comment Status **D** Bucket

Clause 136 training variables need to be added to the training_failure, start-up protocol status, frame_lock and receiver_status bit definitions in Clause 45

SuggestedRemedy

Add Clause 136.8.11.7.1 to 45.2.1.81.4, 45.2.1.81.3
 Add "and local_trained in 136.8.11.7.1" to 45.2.1.81.1
 Add "and local_tf_lock in 136.8.11.7.1" to 45.2.1.81.2

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **045** SC **45** P **0** L **0** # **89**
 Slavick, Jeff Broadcom Limited

Comment Type **T** Comment Status **D** bucket

BASE-R PMD control and status registers need to have Clause 136 and 137 added to the list of supported clauses.

SuggestedRemedy

Add Clause 136 and 137 to introduction paragraphs of 45.1.2.80 and 45.2.1.81

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **045** SC **45** P **62** L **23** # **13**
 Anslow, Pete Ciena

Comment Type **E** Comment Status **D** bucket

Several tables in Clause 45 of this draft have entries for "RW" in the "R/W" column. To be consistent with the rest of Clause 45 and also the footnotes to the tables, these should be "R/W"

SuggestedRemedy

Change "RW" to "R/W" throughout the Clause.
 This affects Tables 45-90ad, 45-90ae, 45-90af, 45-90ag, 4590-ai, 45-90aj, 45-90ak, 45-90am.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **045** SC **45.2.1** P **45** L **50** # **12**
 Anslow, Pete Ciena

Comment Type **E** Comment Status **D** bucket

The name of the registers should not include "registers". Also, there are three registers, each one ending "lane x". Follow the example on line 29 of this page.

SuggestedRemedy

Change "BASE-R PAM4 PMD training LP control registers, lanes 0 through 3" to "BASE-R PAM4 PMD training LP control, lane 0 through lane 3".
 On page 46, change the other three sets of register names to:
 "BASE-R PAM4 PMD training LP status, lane 0 through lane 3"
 "BASE-R PAM4 PMD training LD control, lane 0 through lane 3"
 "BASE-R PAM4 PMD training LD status, lane 0 through lane 3"

Proposed Response Response Status **W**

PROPOSED ACCEPT.

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Cl 045 SC 45.2.1.116h.1 P 62 L 35 # 14
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

Clause 45 level five headings that define a particular bit should match the entry for that bit in the "Name" column of the table giving the assignment of bits in the register.

SuggestedRemedy

Change the title of 45.2.1.116h.1 from "PMA precoder down Tx enable lane 3 (1.600.3)" to "Lane 3 down transmitter precoder enable (1.600.3)"

Make equivalent changes for the other bits in this register and all of the bits in 45.2.1.116i through 45.2.1.116k

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 045 SC 45.2.1.116i P 64 L 51 # 15
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

Clause 45 is consistent in having a footnote of "aRO = Read only" when all of the bits of a register are "RO"

SuggestedRemedy

Change the footnote to "aRO = Read only" for Tables 45-90ah, 45-90al, 45-90an

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 045 SC 45.2.1.118a P 66 L 11 # 16
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

The title of 45.2.1.118a is not consistent with three separately named registers. Table 45-90ak only shows the assignment of bits for the first of the three registers.

SuggestedRemedy

Change the title to: "BASE-R PAM4 PMD training LP control, lane 0 through lane 3 registers (Register 1.1120 through 1.1123)".

On line 14, change the start of the sentence to: "The BASE-R PAM4 PMD training LP control, lane 0 through lane 3 registers reflect..."

On line 19, change the sentence to: "The assignment of bits in the BASE-R PAM4 PMD training LP control, lane 0 register is shown in Table 45-90ak. The assignment of bits in the registers for lane 1 through lane 3 is equivalent to the assignment for lane 0.

Change the title of Table 45-90ak to "BASE-R PAM4 PMD training LP control, lane 0 register bit definitions"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 045 SC 45.2.1.118a P 66 L 14 # 17
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

"16-bit" should not split across two lines.

SuggestedRemedy

us a non-breaking hyphen (Esc - h)

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 045 SC 45.2.1.118a P 66 L 22 # 18
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

The Table in 45.2.1.118a is after Table 45-90a as inserted by P802.3bv in 45.2.1.117a. This means that it should be Table 45-90b

SuggestedRemedy

Renumber Tables 45-90ak through 45-90an to be Tables 45-90b through 45-90e

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 045 SC 45.2.1.118a P 66 L 26 # 19
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

In Table 45-90ak, "1.1120.15:41" should be "1.1120.15"

SuggestedRemedy

Change "1.1120.15:41" to "1.1120.15"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "1.1120.15:41" to "1.1120.15:14"

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CI 045 SC 45.2.1.118a P 66 L 53 # 20
 Anslow, Pete Ciena
 Comment Type E Comment Status D bucket
 The sentence "Normally the bits in this register are read only; however, when training is disabled the registers become writeable." needs to be changed.
 SuggestedRemedy
 Change to "When training is not disabled, the bits in registers 1.1120 through 1.1123 are read only; however, when training is disabled the R/W bits become writeable."
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 045 SC 45.2.1.119a P 67 L 3 # 21
 Anslow, Pete Ciena
 Comment Type E Comment Status D bucket
 The title of 45.2.1.119a is not consistent with three separately named registers.
 Table 45-90al only shows the assignment of bits for the first of the three registers.
 SuggestedRemedy
 Change the title to: "BASE-R PAM4 PMD training LP status, lane 0 through lane 3 registers (Register 1.1220 through 1.1223)".
 On line 6, change the start of the sentence to: "The BASE-R PAM4 PMD training LP status, lane 0 through lane 3 registers reflect..."
 On line 11, change the sentence to: "The assignment of bits in the BASE-R PAM4 PMD training LP status, lane 0 register is shown in Table 45-90al. The assignment of bits in the registers for lane 1 through lane 3 is equivalent to the assignment for lane 0."
 Change the title of Table 45-90al to "BASE-R PAM4 PMD training LP status, lane 0 register bit definitions"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 045 SC 45.2.1.119a P 67 L 43 # 22
 Anslow, Pete Ciena
 Comment Type E Comment Status D bucket
 In the row for 1.1220.2:0 in Table 45-90al, "Coefficient at limit and equalization limit" wraps onto the next line. This should be changed so that "limit" aligns with "Coefficient" rather than appearing in the bit columns
 SuggestedRemedy
 Move "limit" to align with "Coefficient"
 Make the same change in Table 45-90an
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

Either implement suggested remedy or widen "Description" column so that "limit" does not wrap

CI 045 SC 45.2.1.120a P 68 L 3 # 23
 Anslow, Pete Ciena
 Comment Type E Comment Status D bucket
 The title of 45.2.1.120a is not consistent with three separately named registers.
 Table 45-90am only shows the assignment of bits for the first of the three registers.
 SuggestedRemedy
 Change the title to: "BASE-R PAM4 PMD training LD control, lane 0 through lane 3 registers (Register 1.1320 through 1.1323)".
 On line 6, change the start of the sentence to: "The BASE-R PAM4 PMD training LD control, lane 0 through lane 3 registers reflect..."
 On line 10, change the sentence to: "The assignment of bits in the BASE-R PAM4 PMD training LD control, lane 0 register is shown in Table 45-90am. The assignment of bits in the registers for lane 1 through lane 3 is equivalent to the assignment for lane 0."
 Change the title of Table 45-90am to "BASE-R PAM4 PMD training LD control, lane 0 register bit definitions"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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CI 045 SC 45.2.1.121a P 69 L 3 # 24
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

The title of 45.2.1.121a is not consistent with three separately named registers.
 Table 45-90an only shows the assignment of bits for the first of the three registers.

SuggestedRemedy

Change the title to: "BASE-R PAM4 PMD training LD status, lane 0 through lane 3 registers (Register 1.1420 through 1.1423)".
 On line 6, change the start of the sentence to: "The BASE-R PAM4 PMD training LD status, lane 0 through lane 3 registers reflect..."
 On line 11, change the sentence to: "The assignment of bits in the BASE-R PAM4 PMD training LD status, lane 0 register is shown in Table 45-90an. The assignment of bits in the registers for lane 1 through lane 3 is equivalent to the assignment for lane 0."
 Change the title of Table 45-90an to "BASE-R PAM4 PMD training LD status, lane 0 register bit definitions"

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 069 SC 69.1.2 P 78 L 39 # 25
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

The inserted figure number in the P802.3cb draft has been changed from "Figure 69-2a" to "Figure 69-3"

SuggestedRemedy

Change "Figure 69-2a" to "Figure 69-3" here and on page 79, line 1

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 078 SC 78.1.4 P 90 L 17 # 26
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

For some inserted rows in Table 78-1 (e.g. 50GBASE-KRb), the entry in the "PHY or interface type" column ends with a dot at the same vertical position as the underline.

SuggestedRemedy

Remove the dots

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 091 SC 91.7.4.1 P 108 L 16 # 27
 Anslow, Pete Ciena

Comment Type T Comment Status D bucket

PICS item TF11 has been modified to include 100GBASE-CR2, 100GBASE-KR2, 100GBASE-SR2, or 100GBASE-DR in the Feature column. However, the Status column contains "KP4:M" and "KP4" is "Used to form complete 100GBASE-KP4 PHY" which excludes the newly added PHY types.

SuggestedRemedy

In 91.7.3, change "KP4":
 Feature entry to "100GBASE-KP4, 100GBASE-CR2, 100GBASE-KR2, 100GBASE-SR2, or 100GBASE-DR"
 Value/Comment entry to "Used to form complete 100GBASE-KP4, 100GBASE-CR2, 100GBASE-KR2, 100GBASE-SR2, or 100GBASE-DR PHY"
 Also change PICS items RF4, RF12 to include the additional PHY types in the Feature column.

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 093A SC 93A.1.4.2 P 318 L 41 # 39
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

Equation 93A-21 appears to be truncated at the top and the equation number appears twice.

SuggestedRemedy

"Shrink wrap" the equation and remove the second version of the equation number

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 131 SC 131.1.2 P 117 L 18 # 68
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

"The MDI as specified in . use a 1-lane data path." should be "The MDI as specified in . uses a 1-lane data path."

SuggestedRemedy

Change "use" to "uses"

Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 131 SC 131.5 P 124 L 4 # 69
 Anslow, Pete Ciena
 Comment Type E Comment Status D bucket
 "PMA below to the RS-FEC" should be "PMA below the RS-FEC"
 SuggestedRemedy
 Delete "to"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 131 SC 131.5 P 124 L 24 # 28
 Anslow, Pete Ciena
 Comment Type T Comment Status D bucket
 The principle used to calculate the UI equivalents in previous Skew tables (such as Table 80-6) was to find the exact UI value and then round to the nearest integer. If this is done for SP1 in Table 131-5, the result is 770.31 UI, which rounds to 770 UI (not 771 UI as shown in the table).
 SuggestedRemedy
 In Table 131-5 , change the Maximum Skew for 50GBASE-R FEC lane (UI) to:
 770 for SP1
 1142 for SP2
 1434 for SP3
 3559 for SP4
 4781 for "At FEC receive"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 131 SC 131.5 P 125 L 9 # 29
 Anslow, Pete Ciena
 Comment Type T Comment Status D bucket
 The principle used to calculate the UI equivalents in previous Skew Variation tables (such as Table 80-7) was to find the exact UI value and then round to the nearest integer. If this is done for SP0 in Table 131-6, the result is 5.16 UI, which rounds to 5 UI (not 6 UI as shown in the table).
 SuggestedRemedy
 In Table 131-6 , change the Maximum Skew Variation (UI) to:
 5 for SP0
 5 for SP1
 90 for SP4
 106 for "At FEC receive"
 10 for "At PCS receive"
 Also, add the missing curly equals in front of the 10 for "At PCS receive"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 134 SC 134.2 P 143 L 41 # 61
 Anslow, Pete Ciena
 Comment Type T Comment Status D bucket
 The parameters are defined by 131.3 which refers to 116.3.3.1 through 116.3.3.3. This means that "rx_bit" should be "rx_symbol"
 SuggestedRemedy
 Change "rx_bit" to "rx_symbol"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 134 SC 134.7.2.2 P 157 L 11 # 56
 Anslow, Pete Ciena
 Comment Type E Comment Status D bucket
 "IEEE Std 802.3-201x" should be "IEEE Std 802.3cd-201x"
 SuggestedRemedy
 Change "IEEE Std 802.3-201x" to "IEEE Std 802.3cd-201x"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 135 SC 135.5.7.2 P 172 L 36 # 32
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

The list of PMDs on lines 35 and 36 includes 200GBASE-CR4 and 200GBASE-KR4, but this clause covers "PMA sublayer, type 50GBASE-R and 100GBASE-P" so including requirements for 200G PHY types here is inappropriate.

SuggestedRemedy

Delete "200GBASE-CR4, or 200GBASE-KR4 PMD" and add "or " before "100GBASE-KR2"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 135E SC 135E.1 P 344 L 18 # 77
 Ghiasi, Ali Ghiasi Quantum LLC

Comment Type ER Comment Status D bucket

Type "asso0ciated"

SuggestedRemedy

associated

Proposed Response Response Status W

PROPOSED ACCEPT.

[Editor changed clause from 136, subclause from 136.11, page from 209, and Type from TR to ER]

Cl 135G SC 135G.5.3 P 361 L 6 # 102
 Dudek, Mike Cavium

Comment Type T Comment Status D bucket

The number of AC-coupled lanes is wrong.

SuggestedRemedy

Change to 2 independent lanes for 50GAUI-1 and 4 for 100GAUI-2.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 136 SC 136.7 P 191 L 41 # 34
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

The "PMA/PMD register name" for registers 1.1220 through 1.1223 are incorrect as are the "MDIO status variable" names.

SuggestedRemedy

In the "PMA/PMD register name" column for bits from registers 1.1220 through 1.1223, change "PMD" to "BASE-R PAM4 PMD" and add a comma before "lane" (20 instances)
 In the "MDIO status variable" column for bits from registers 1.1220 through 1.1223, remove the numbers from the end as the variables in Clause 45 do not have these numbers. (20 instances)

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 136 SC 136.8.1 P 192 L 40 # 142
 Hidaka, Yasuo Fujitsu Labs. of Ameri

Comment Type T Comment Status D bucket

It is written as the test fixture specified in 136B.1.1 on line 40 and line 43, but 136B.1.1 specifies Mated test fixtures. It seems that a relevant reference may be 136B.1 which specifies Test fixtures and includes a reference to the test fixture specified in 110B.1.1 and 92.11.1.

SuggestedRemedy

Change the reference to 136B.1.1 on line 40 with a reference to 136B.1.

Change the reference to 136B.1.1 on line 43 with a reference to 136B.1.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 136 SC 136.8.1 P 192 L 53 # 143
 Hidaka, Yasuo Fujitsu Labs. of Ameri

Comment Type T Comment Status D bucket

It is written as the cable assembly test fixture of 136B.1.1, but 136B.1.1 specifies Mated test fixtures. It seems that a relevant reference may be 136B.1 which specifies Test fixtures and includes a reference to the cable assembly test fixture specified in 110B.1.2 and 92.11.2.

SuggestedRemedy

Change the reference to 136B.1.1 on line 53 with a referencer to 136B.1.

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 136 SC 136.8.11.7.2 P 206 L 21 # 84
 Slavick, Jeff Broadcom Limited

Comment Type T Comment Status D bucket

The algorithm for setting the ic_sts is in 136.8.11.4, the current reference is to the definition of ic_sts field in the Status message. That definition does point you to 136.8.11.4 as well.

SuggestedRemedy

Change the reference to be 136.8.11.4 so you have 1 less level of indirection.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 136 SC 136.9.1 P 211 L 48 # 154
 Dawe, Piers Mellanox

Comment Type E Comment Status D bucket

120D.3.1.2.1

SuggestedRemedy

120D.3.1.2

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 136 SC 136.9.3.1.1 P 213 L 39 # 144
 Hidaka, Yasuo Fujitsu Labs. of Ameri

Comment Type T Comment Status D bucket

In equation (136-1), the term "+ j - M * i" should be a part of the index of r(m).

SuggestedRemedy

Change "r(m) + j - M * i" to "r(m + j - M * i)".

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 136 SC 136.9.4.2.3 P 217 L 4 # 157
 Dawe, Piers Mellanox

Comment Type E Comment Status D bucket

If this list by letters is in the right order, equations 136-7, 136-5 and 136-6 aren't.

SuggestedRemedy

Make 136-7 come before 136-5 and 136-6, renumbering.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 136 SC 136.9.4.3.1 P 218 L 34 # 158
 Dawe, Piers Mellanox

Comment Type E Comment Status D bucket

Sinusoidal

SuggestedRemedy

sinusoidal

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 136 SC 136.10 P 219 L 6 # 72
 Zambell, Andrew Amphenol

Comment Type T Comment Status D bucket

The spec states "The channel insertion loss, return loss, COM, and the transmitter and receiver differential impedance printed circuit board parameters are provided informatively in 136A.1 through 136A.4."

Transmitter and receiver differential printed circuit board trace loss is 136A.4.
 Channel insertion loss is 136A.5
 Channel return loss is 136A.6
 Channel Operating Margin (COM) is 136A.7.

SuggestedRemedy

Change "136A.1 through 136A.4" to "136A.4 through 136A.7"

Proposed Response Response Status W

PROPOSED ACCEPT.

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CI 136 SC 136.14.4.1 P 228 L 52 # 35
 Anslow, Pete Ciena
 Comment Type E Comment Status D bucket
 In items PF8, PF9, and PF10, "45.2.1.2.3", "45.2.1.7.4", and "45.2.1.7.5" should be cross-references
 SuggestedRemedy
 Make them cross-references
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 137 SC 137.12.4.1 P 245 L 48 # 37
 Anslow, Pete Ciena
 Comment Type E Comment Status D bucket
 In items PF8, PF9, and PF10, "45.2.1.2.3", "45.2.1.7.4", and "45.2.1.7.5" should be cross-references
 SuggestedRemedy
 Make them cross-references
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 136 SC 136.14.4.4 P 230 L 38 # 36
 Anslow, Pete Ciena
 Comment Type E Comment Status D bucket
 +/- 100 ppm should not be on the next line
 SuggestedRemedy
 Remove the line break
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 138 SC 138.1 P 249 L 8 # 65
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 The single mode clauses have a sentence such as: "The optical signals generated by these two PMD types are modulated using a 4-level pulse amplitude modulation (PAM4) format. " as the second sentence of the introduction to make it clear that this is PAM4.
 SuggestedRemedy
 Add a new second sentence "The optical signals generated by these three PMD types are modulated using a 4-level pulse amplitude modulation (PAM4) format. "
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 137 SC 137.8.7 P 237 L 37 # 99
 Dudek, Mike Cavium
 Comment Type T Comment Status D bucket
 The sub-section is labelled lane by lane transmit disable for the text says global transmit diable and conflicts with 137.8.6
 SuggestedRemedy
 Change "global" to "lane-by-lane"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 138 SC 138.1.1 P 252 L 1 # 40
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 "Clause 120" and "Clause 119" on line 4 should be cross-references
 Also applies to "116.4" page 253, line18
 SuggestedRemedy
 Make them cross-references
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 138 SC 138.2 P 252 L 52 # 60
 Anslow, Pete Ciena
 Comment Type T Comment Status D Bucket
 The parameters are defined by 131.3 which refers to 116.3.3.1 through 116.3.3.3. This means that "rx_bit" should be "rx_symbol"
 SuggestedRemedy
 Change "rx_bit" to "rx_symbol"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.2 P 252 L 52 # 171
 Dawe, Piers Mellanox
 Comment Type E Comment Status D Bucket
 Font size
 SuggestedRemedy
 Remove the override for:
 a poor quality link to provide sufficient light for a SIGNAL_DETECT = OK indication and still not meet the BER defined in 138.1.1.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.5 P 254 L 41 # 41
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 This says "The 100GBASE-SR4 PMD performs.". While this is true, it is not the topic of this clause.
 SuggestedRemedy
 Change "The 100GBASE-SR4 PMD performs ..." to "The 50GBASE-SR, 100GBASE-SR2, and 200GBASE-SR4 PMDs perform."
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.5.1 P 254 L 44 # 178
 Dawe, Piers Mellanox
 Comment Type E Comment Status D Bucket
 diagram4
 SuggestedRemedy
 Remove the 4? Or should there be a footnote?
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Remove the 4

Cl 138 SC 138.5.1 P 254 L 44 # 42
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 "PMD block diagram4" has a spurious "4" at the end
 SuggestedRemedy
 Change to "PMD block diagram"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.5.2 P 256 L 7 # 44
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 In: "The higher optical power level in each signal shall correspond to tx_symbol = three and the lowest shall correspond to tx_symbol = zero." we have "higher" and "lowest". The P802.3bs draft is consistent in using "highest" and "lowest" here.
 SuggestedRemedy
 Change "higher" to "highest" on page 256 lines 7 and 15, page 270 line 52, page 271 line 8. Also in Clause 139, page 278 line 33 Also in Clause 140, page 301 line 33
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 138 SC 138.5.4 P 256 L 26 # 46
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 "On all four lanes" is only appropriate for 200GBASE-SR4
 SuggestedRemedy
 Change to "on all lanes"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.7.1 P 259 L 13 # 47
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 "(OMA)" should be "(OMAouter)" on both max and min rows
 SuggestedRemedy
 Change "(OMA)" to "(OMAouter)", where "outer" is subscripted, on both max and min rows
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.7.1 P 259 L 25 # 217
 Dawe, Piers Mellanox
 Comment Type E Comment Status D Bucket
 TDEC
 SuggestedRemedy
 TDECQ
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.8.1 P 261 L 18 # 48
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 The references in Table 138-11 to Clause 120 for test patterns need to be updated.
 SuggestedRemedy
 Change "120.5.11.2.4" to "120.5.11.2.2"
 Change "120.5.11.2.3" to "120.5.11.2.1"
 Change "120.5.11.2.5" to "120.5.11.2.3"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.8.1.1 P 262 L 1 # 50
 Anslow, Pete Ciena
 Comment Type T Comment Status D bucket
 This says "Where not otherwise specified, the maximum amplitude (OMA or VMA) for a particular situation is used, and for counter-propagating lanes, the minimum transition time is used."
 "OMA" should be "OMAouter"
 There are no specifications in Clause 138 where "VMA" is appropriate.
 There is no minimum transition time requirement.

SuggestedRemedy
 Change to: "Where not otherwise specified, the maximum amplitude (OMAouter) for a particular situation is used."
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.8.5 P 262 L 28 # 51
 Anslow, Pete Ciena
 Comment Type T Comment Status D bucket
 Line 28 says "and equalized with the reference equalizer specified in 121.8.5" but line 38 is an exception that says the reference equalizer is specified in "138.8.5.1"
 SuggestedRemedy
 On line 28, change "specified in 121.8.5" to "specified in 138.8.5.1"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 138 SC 138.8.5 P 262 L 33 # 52
 Anslow, Pete Ciena
 Comment Type T Comment Status D Bucket
 This says "The polarization controller and test fiber shown in Figure 121-4" but Figure 121-4 has a "polarization rotator"
 SuggestedRemedy
 Change "polarization controller" to "polarization rotator"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.10 P 265 L 6 # 54
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 "138.10.3" should be a cross-reference
 SuggestedRemedy
 Make it a cross-reference
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.11.2.2 P 269 L 36 # 55
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 "IEEE Std 802.3-201x" should be "IEEE Std 802.3cd-201x"
 SuggestedRemedy
 Change "IEEE Std 802.3-201x" to "IEEE Std 802.3cd-201x" on line 36 and line 44
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 138 SC 138.11.4.6 P 273 L 13 # 57
 Anslow, Pete Ciena
 Comment Type E Comment Status D bucket
 Item OC4 is specific to SR2
 Item OC5 is specific to SR4
 Item OC6 is specific to SR
 Items OC8 and OC11 are specific to SR2 and SR4
 SuggestedRemedy
 In 138.11.3, change "SR" to "**SR", change "SR2" to "**SR2", and change "SR4" to "**SR4"
 In the OC4 Status cell change "M" to "SR2:M"
 In the OC5 Status cell change "M" to "SR4:M"
 In the OC6 Status cell change "M" to "SR:M"
 In the OC8 Status cell change "M" to "(SR2 or SR4):M"
 In the OC11 Status cell change "INS:M" to "INS*(SR2 or SR4):M"
 Add "N/A []" to the Support cell for OC4, OC5, OC6, and OC8
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 139 SC 139.1 P 274 L 45 # 58
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 "139.2" should be "131.2"
 SuggestedRemedy
 Change the cross-reference from "139.2" to "131.2"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 139 SC 139.2 P 276 L 22 # 59
 Anslow, Pete Ciena
 Comment Type T Comment Status D Bucket
 The parameters are defined by 131.3 which refers to 116.3.3.1 through 116.3.3.3. This means that "rx_bit" should be "rx_symbol"
 SuggestedRemedy
 Change "rx_bit" to "rx_symbol"
 Make the same change in 140.2 (page 299, line 22)
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 139 SC 139.3.1 P 276 L 32 # 62
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 "PMD2" should be "PMDs"
 SuggestedRemedy
 Change "PMD2" to "PMDs"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 139 SC 139.6.3 P 282 L 23 # 193
 Dawe, Piers Mellanox
 Comment Type E Comment Status D Bucket
 Make the table footnotes look better.
 SuggestedRemedy
 Make the table full width; widen the Parameter column.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 139 SC 139.3.1 P 276 L 32 # 192
 Dawe, Piers Mellanox
 Comment Type E Comment Status D Bucket
 PMD2
 SuggestedRemedy
 PMD
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 See comment #62

Cl 139 SC 139.6.3 P 282 L 24 # 64
 Anslow, Pete Ciena
 Comment Type T Comment Status D Bucket
 Table 139-8 footnote b says "fiber attenuation of 0.43 dB/km at 1295 nm" but the shortest wavelength for this PMD is 1304.5 nm.
 Fibre loss at 1304.5 nm is 0.423 for G.552 fibre, so this can still be rounded up to 0.43 dB/km
 SuggestedRemedy
 Change "at 1295 nm" to "at 1304.5 nm"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 139 SC 139.5.1 P 277 L 45 # 63
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 Missing "." after "Figure 139-2"
 SuggestedRemedy
 Add "."
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 139 SC 139.7.1 P 282 L 47 # 49
 Anslow, Pete Ciena
 Comment Type E Comment Status D Bucket
 The references in Table 139-9 and Table 140-9 to Clause 120 for test patterns need to be updated.
 SuggestedRemedy
 In both Table 139-9 and Table 140-9:
 Change "120.5.11.2.6" to "120.5.11.2.4"
 Change "120.5.11.2.4" to "120.5.11.2.2"
 Change "120.5.11.2.3" to "120.5.11.2.1"
 Change "120.5.11.2.5" to "120.5.11.2.3"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 140 **SC 140.1** **P 297** **L 30** # 66
Anslow, Pete Ciena
Comment Type **E** **Comment Status** **D** *Bucket*
Space missing in "CAUI-4C2M"
SuggestedRemedy
Add the space
Proposed Response **Response Status** **W**
PROPOSED ACCEPT.

Cl 140 **SC 140.11.4.6** **P 314** **L 42** # 67
Anslow, Pete Ciena
Comment Type **E** **Comment Status** **D** *Bucket*
OC1 Value/Comment is "Meets requirements specified in Table 124-11" but the requirements are in Table 140-11
SuggestedRemedy
Change "Table 124-11" to "Table 140-11"
Proposed Response **Response Status** **W**
PROPOSED ACCEPT.