Cl **126**　　　*SC* **126.3.5.2**　　　　　*P* **101**　　　*L* **26**　　　#　233
Zimmerman, George　　　　　　　CME Consulting/Aqua

Comment Type　**E**　　　*Comment Status*　**D**　　　　　*BQ ALIGN*
　Change "-41dBm" to "-41 dBm" (missing space) (BQ ALIGN, i-126)

SuggestedRemedy
　See comment (add space)

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

Cl **126**　　　*SC* **126.3.6.2.2**　　　　*P* **102**　　　*L* **48**　　　#　234
Zimmerman, George　　　　　　　CME Consulting/Aqua

Comment Type　**T**　　　*Comment Status*　**D**　　　　　*BQ ALIGN*
　"when the lfer_cnt exceeds 16" but lfer_cnt is defined as "Count up to a maximum of 16" so
　it cannot exceed 16. Figure 126-13 sets hi_lfer true at 16 (BQ ALIGN, i-80)

SuggestedRemedy
　Change "exceeds" to "reaches"

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

Cl **126**　　　*SC* **126.3.6.2.2**　　　　*P* **104**　　　*L* **32**　　　#　235
Zimmerman, George　　　　　　　CME Consulting/Aqua

Comment Type　**T**　　　*Comment Status*　**D**　　　　　*BQ ALIGN*
　There is no reference to register 1.147.2 in this draft. It appears in the base document but
　only points to the variable list in clause 55. A reference to clause 126 should be added.
　In addition, it would be better to define the functionality here, not just in clause 45. Since
　MDIO is optional, other means to access this variable may be provided.
　Similar issue exists for fr_enable (1.147.0) in 126.4.5.1. it is defined in 45.2.1.79.6 and
　does not reference clause 126. (BQ ALIGN, i-82)

SuggestedRemedy
　Change the first paragraph of the definition to:
　"If fast retrain is supported, this variable controls the block type the PMA sends on the
　receive path during fast retrain. if MDIO is supported, this variable is set based on the
　value in 1.147.2:1 as follows".
　Append a paragraph: "If MDIO is not supported, an equivalent method of controlling fast
　retrain functionality should be provided".
　Bring in 45.2.1.79.5 and add a reference to 126.3.6.2.2.
　Apply similar change to 45.2.1.79.6 and 126.4.5.1.

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

Cl **126**　　　*SC* **126.4.1**　　　　　*P* **115**　　　*L* **50**　　　#　236
Zimmerman, George　　　　　　　CME Consulting/Aqua

Comment Type　**E**　　　*Comment Status*　**D**　　　　　*BQ ALIGN*
　Test in NOTE2 is a full sentence but does not have a "." at the end. (BQ ALIGN, i-59)

SuggestedRemedy
　Please scrub existing NOTEs and Footnotes and make sure that full sentences are
　followed by a period.

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

Cl **126**　　　*SC* **126.4.2.3.1**　　　　*P* **118**　　　*L* **26**　　　#　237
Zimmerman, George　　　　　　　CME Consulting/Aqua

Comment Type　**E**　　　*Comment Status*　**D**　　　　　*BQ ALIGN*
　period at the end of the sentence should be a colon. (BQ ALIGN, i-113)

SuggestedRemedy
　See comment

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

Cl **126**　　　*SC* **126.4.2.4**　　　　*P* **119**　　　*L* **39**　　　#　238
Zimmerman, George　　　　　　　CME Consulting/Aqua

Comment Type　**E**　　　*Comment Status*　**D**　　　　　*BQ ALIGN*
　pairs BI_DA, BI_DB, BI_DC, and BI_DB. Second instance of "BI_DB" should be "BI_DD".
　(BQ ALIGN, i-114)

SuggestedRemedy
　Change second "BI_DB" to "BI_DD"

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: Page, Line

Pa **119**
Li **39**

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Cl **126**   *SC* **126.4.2.5**   *P* **120**   *L* **31**   # 239
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
The InfoField is denoted IF. While there is nothing wrong with this statement, the only use of "IF" instead of InfoField is twice in the following sentence. Is it necessary? (BQ ALIGN, i-115)

SuggestedRemedy
Remove the sentence, "The InfoField is denoted IF." and change the "IF" and "IFs" with "Infofield" and "Infofields" respectively

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

Cl **126**   *SC* **126.4.2.5.6**   *P* **122**   *L* **44**   # 240
Zimmerman, George   CME Consulting/Aqua

Comment Type **T**   *Comment Status* **D**   *BQ ALIGN*
The phrasing "Any other value shall not be transmitted and shall be ignored at the receiver" is imprecise. A device that ignores only 1 value not listed would comply. I suspect "all" is what is really intended. (BQ ALIGN, i-LATE)

SuggestedRemedy
Change "Any other value shall not be transmitted and shall be ignored at the receiver" to read
"No other value shall be transmitted, and all other values shall be ignored at the receiver."

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

Cl **126**   *SC* **126.4.5.1**   *P* **132**   *L* **10**   # 241
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
Inconsistent right margin and justification for the variable definitions. Line breaks seem to be present where they should not. (BQ ALIGN, i-90)

SuggestedRemedy
Apply paragraph formatting suitable for a list of variables as in other lists in this draft

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

Cl **126**   *SC* **126.4.5.1**   *P* **133**   *L* **47**   # 242
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
The definition of THP_next starts with "THP is a variable..." Should it be THP_next? (BQ ALIGN, i-116)

SuggestedRemedy
Change "THP" to "THP_next". Additionally, the same issue occurs in the THP_tx definition. Change "THP" to "THP_tx" there too.

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

Cl **126**   *SC* **126.4.6.2**   *P* **139**   *L* **1**   # 243
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
Inconsistencies in font size and text box styles in individual state diagrams, e.g., when comparing Figure 126-27 and Figure 126-28 (BQ ALIGN, i-60)

SuggestedRemedy
Please align font sizes and text box styles at least within this amendment.

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

Cl **00**   *SC* **0**   *P* **147**   *L* **21**   # 244
Zimmerman, George   CME Consulting/Aqua

Comment Type **ER**   *Comment Status* **D**   *BQ ALIGN*
Figure 126-34 title includes "need to update". What does this mean? (BQ ALIGN, i-91)

SuggestedRemedy
Delete (need to update)

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: Page, Line

Pa **147**
Li **21**

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3/5/2016 6:08:18 PM

Cl **126**   *SC* **126.5.3.3**   *P* **148**   *L* **39**   # 245

Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*

"The SLAVE mode RMS period jitter test shall be run using the test configuration shown in Figure 126–3" sounds a lot like a requirement on a person, not a conforming device. Behavior of people is outside the scope of this standard. (BQ ALIGN, i-LATE)

SuggestedRemedy

Change "shall be run to "is measured" (consistent with elsewhere in the standard

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **126**   *SC* **126.5.4.1**   *P* **150**   *L* **48**   # 246

Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*

the requirement "shall be satisfied" is going to be very hard to validate as no specification for "satisfaction" are given in this standard. I think the "shall" belongs in the previous sentence, and here we mean that the requirement is demonstrated by the frame error ration given. (BQ ALIGN, i-LATE)

SuggestedRemedy

Change "are received" to "shall be received"
Change "This specification shall be satisfied by" to "This specification can be verified by"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **126**   *SC* **126.5.4.3**   *P* **151**   *L* **24**   # 247

Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*

Change "6dBm" to "6 dBm" (missing space) (BQ ALIGN, i-118)

SuggestedRemedy

See comment (add space)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **126**   *SC* **126.5.4.4**   *P* **151**   *L* **32**   # 248

Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*

injected into each MDI inputs (should be a singular sense?) (BQ ALIGN, i-143)

SuggestedRemedy

Change to "injected into each MDI input"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **126**   *SC* **126.7.2**   *P* **158**   *L* **35**   # 249

Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*

Incorrect table format for Tables 126-18 and 126-19 (BQ ALIGN, i-62)

SuggestedRemedy

Please apply proper style (and fix offending line thickness) The same observation applies to both tables 126-18 and 126-19.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **126**   *SC* **126.8.2.2**   *P* **169**   *L* **26**   # 250

Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*

Change "Test- Mode 5" to "Test mode 5" to be consistant with other instances of "test mode" throughout the draft (BQ ALIGN, i-120)

SuggestedRemedy

See comment

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Pa* **169**   Page 3 of 9
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *Li* **26**   3/5/2016 6:08:18 PM
SORT ORDER: Page, Line

Cl **1** *SC* **1.4.74a** *P* **20** *L* **37** # **215**
Zimmerman, George   CME Consulting/Aqua

Comment Type **E** *Comment Status* **D** *BQ ALIGN*
Superflous comma between IEEE Std 802.3 and Clause (multiple instances) (BQ ALIGN, i-18)

SuggestedRemedy
Remove the comma, editor to scrub for multiple instances, P20 L37, 40, 46, 52; P21 L5 and L46

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

Cl **1** *SC* **1.4** *P* **21** *L* **50** # **213**
Zimmerman, George   CME Consulting/Aqua

Comment Type **E** *Comment Status* **D** *BQ ALIGN*
We normally place reference to something having been modified by another amendment in parenthesis, we usually end editing instructions with 'as follows:'. (BQ ALIGN, i-162)

SuggestedRemedy
Suggest the text '… as inserted by IEEE Std 802.3by-201X' be changed to read '…(as inserted by IEEE Std 802.3by-201X) as follows:'. And editor to search and scrub the draft to maintain consistency in editing instructions

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

Cl **1** *SC* **1.4** *P* **21** *L* **52** # **214**
Zimmerman, George   CME Consulting/Aqua

Comment Type **E** *Comment Status* **D** *BQ ALIGN*
Isn't BASE-T Ethernet 'PCS/PMA' just a 'BASE-T PHY'? (BQ ALIGN, i-164)

SuggestedRemedy
Change base text to align with 802.3bq D3.1, changing '… of specific BASE-T Ethernet PCS/PMAs at …' to read '… of specific BASE-T PHYs at …'

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

Cl **28** *SC* **28.3.1** *P* **25** *L* **8** # **251**
Zimmerman, George   CME Consulting/Aqua

Comment Type **E** *Comment Status* **D** *BQ ALIGN*
In the editing instruction "the first list" should be "in the first list", subclause numbers are not preceded by "subclause", and the location should be specified. (BQ ALIGN, i-1)

SuggestedRemedy
Change the editing instruction to: "Insert rows for 25Gig T and 40GigT in the first list in 28.3.1 below the row for 10GigT as follows:

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

Cl **30** *SC* **30.3.2.1.2** *P* **27** *L* **12** # **252**
Zimmerman, George   CME Consulting/Aqua

Comment Type **E** *Comment Status* **D** *BQ ALIGN*
IEEE Std 802.3bw has been approved by the SASB, so this should be "IEEE Std 802.3bw-2015" (BQ ALIGN, i-2)

SuggestedRemedy
Change all instances of "IEEE Std 802.3bw-201x" to "IEEE Std 802.3bw-2015" throughout the draft

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

Cl **30** *SC* **30.3.2.1.3** *P* **27** *L* **26** # **253**
Zimmerman, George   CME Consulting/Aqua

Comment Type **E** *Comment Status* **D** *BQ ALIGN*
Text needs updated based on the approval of IEEE Std 802.3bw last year and the likelihood that IEEE P802.3bq will be the third amendment to IEEE Std 802.3-2015, and it is yet unclear what additionally bz will follow. (BQ ALIGN, i-166)

SuggestedRemedy
The text '... (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3by-201X and TBD) ...' be changed to read '... (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3by-201X, IEEE Std 802.3bq-201X, and TBD) ...'.

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Pa* **27**   Page 4 of 9
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *Li* **26**   3/5/2016 6:08:18 PM
SORT ORDER: Page, Line

Cl **30**　　　*SC* **30.5.1.1.25**　　　*P* **28**　　　*L* **34**　　　# `254`
Zimmerman, George　　　　　CME Consulting/Aqua

Comment Type **E**　　　*Comment Status* **D**　　　　　*BQ ALIGN*

Base text does not agree with P802.3bq draft 3.1.　There is no 'PHY event counter' defined in IEEE Std 802.3-2015 subclause 55.4.5.1 'State diagram variables' or subclause 113.4.5.4 'Counters'. Instead I think the reference should be to fr_tx_counter defined in IEEE Std 802.3-2015 subclause 55.4.5.4 'Counters' and subclause 113.4.5.4 'Counters'. In addition, while the size of the counter isn't explicitly stated in the its definition in IEEE Std 802.3-2015 subclause 55.4.5.4 or subclause 113.4.5.4, in both cases it is stated that it 'is reflected in MDIO register 1.147.10:6 specified in 45.2.1.79.2' which implies it is a five bit counter.
Since the aLDFastRetrainCount attribute is defined as a counter with a maximum increment rate of 1000 counts per second, it will have to be considerable bigger than five bits to allow a reasonable polling speed through a management protocol without loss of information.
Based on this aLDFastRetrainCount can be derived by the local management agent from fr_tx_counter, or from the LD fast retrain count register, but can't be mapped to them directly.
A similar set of issues exist for 30.5.1.1.25 aLPFastRetrainCount. (BQ ALIGN, i-170)

SuggestedRemedy

Change base text to align with 802.3bq D3.1.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **30**　　　*SC* **30.5.1.1.4**　　　*P* **28**　　　*L* **38**　　　# `255`
Zimmerman, George　　　　　CME Consulting/Aqua

Comment Type **ER**　　　*Comment Status* **D**　　　　　*BQ ALIGN*

Make consistent with modifications in 802.3by and 802.3bq (BQ ALIGN, i-74)

SuggestedRemedy

Add editing instruction to: Change the eighth paragraph of 30.5.1.1.4 (as modified by IEEE Std 802.3by-201X and IEEE Std 802.3bq-201X) as follows:　"For \U 2.5 Gb/s, 5 Gb/s, \U 10 Gb/s \U,\U and 25 Gb/s the enumerations map..."

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **45**　　　*SC* **45.2.1.65.1**　　　*P* **36**　　　*L* **8**　　　# `256`
Zimmerman, George　　　　　CME Consulting/Aqua

Comment Type **E**　　　*Comment Status* **D**　　　　　*BQ ALIGN*

In "Change text of clauses 45.2.1.65.1 and 45.2.1.65.2 ...", 45.2.1.65.1 and 45.2.1.65.2 are not clauses.　(2 instances) (BQ ALIGN, i-5)

SuggestedRemedy

Delete the word clauses, used multiply throughtout this section (L8, L17)

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **45**　　　*SC* **45.2.1.78**　　　*P* **37**　　　*L* **34**　　　# `257`
Zimmerman, George　　　　　CME Consulting/Aqua

Comment Type **E**　　　*Comment Status* **D**　　　　　*BQ ALIGN*

Base text to match text of IEEE P802.3bq draft 3.1 - Missing space between value and units.
Missing period at the end of this paragraph. (BQ ALIGN, i-26)

SuggestedRemedy

Change "1.25ns" to "1.25 ns".
Change "2.5ns" to "2.5 ns".
Add period after the last word.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **45**　　　*SC* **45.2.1.79.1**　　　*P* **37**　　　*L* **47**　　　# `258`
Zimmerman, George　　　　　CME Consulting/Aqua

Comment Type **E**　　　*Comment Status* **D**　　　　　*BQ ALIGN*

Base text to match text of IEE P802.3bq draft 3.1 - The fr_rx_counter is defined in subclause 55.4.5.4 'Counters' of IEEE Std 802.3-2015. (BQ ALIGN, i-172)

SuggestedRemedy

text '... fr_rx_counter as defined in 55.4.5.1 for 10GBASE-T ...' should be changed to read '... fr_rx_counter as defined in 55.4.5.4 for 10GBASE-T ...'.

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: Page, Line

Pa **37**
Li **47**

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3/5/2016 6:08:18 PM

Cl **45**　　*SC* **45.2.3.1.2**　　　　*P* **38**　　　*L* **40**　　　# `295`
Anslow, Pete　　　　　　　　　　Ciena

Comment Type **E**　　*Comment Status* **D**　　　　*BQ ALIGN*

"The speed of the loopback is selected by the PCS control 1 (Register 3.0) defined in 45.2.3.1." is already being inserted by the P802.3bq draft.

SuggestedRemedy

Remove the underline from "The speed of the loopback is selected by the PCS control 1 (Register 3.0) defined in 45.2.3.1."

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

Cl **45**　　*SC* **45.2.1.79.2**　　　*P* **38**　　　*L* **6**　　　# `259`
Zimmerman, George　　　　　　　CME Consulting/Aqua

Comment Type **E**　　*Comment Status* **D**　　　　*BQ ALIGN*

Base text to match text of IEE P802.3bq draft 3.1 - The fr_tx_counter is defined in subclause 55.4.5.4 'Counters' of IEEE Std 802.3-2015. (BQ ALIGN, i-173)

SuggestedRemedy

text '... fr_tx_counter as defined in 55.4.5.1 for 10GBASE-T ...' should be changed to read '... fr_tx_counter as defined in 55.4.5.4 for 10GBASE-T ...'.

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

Cl **45**　　*SC* **45.2.7.11.2**　　　*P* **45**　　　*L* **47**　　　# `260`
Zimmerman, George　　　　　　　CME Consulting/Aqua

Comment Type **E**　　*Comment Status* **D**　　　　*BQ ALIGN*

Base text to match text of IEE P802.3bq draft 3.1 - In both of these long conditional sentences, the logic structure is "if (master/slave) and (complete) and if (no fault)...". The second "if" is confusing and should not be there.
Also, what if either "AN complete" is 0 or "fault" is 1? (BQ ALIGN, i-30)

SuggestedRemedy

Change based text to match IEEE P802.3bq D3.1 - change "and if" to "and" twice in this subclause.
Append the following text: "In all other cases, neither SLAVE mode nor MASTER mode has been selected".

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

Cl **45**　　*SC* **45.2.7.11.7bc**　　*P* **46**　　　*L* **17**　　　# `261`
Zimmerman, George　　　　　　　CME Consulting/Aqua

Comment Type **E**　　*Comment Status* **D**　　　　*BQ ALIGN*

when read as 1 bit "is used to indicate" where where when read as 0 just "indicates". be consistent. (BQ ALIGN, i-31)

SuggestedRemedy

Replace "is used to indicate" with "indicates" in 45.2.7.11.bc and 45.2.7.11.bd

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

Cl **45**　　*SC* **45.2.7.13**　　　*P* **46**　　　*L* **35**　　　# `262`
Zimmerman, George　　　　　　　CME Consulting/Aqua

Comment Type **E**　　*Comment Status* **D**　　　　*BQ ALIGN*

Base text to match IEEE P802.3bq D3.1 - The non-underlined text does not match the original content of 45.2.7.13 (as of IEEE Draft P802.3/D3.2). The original text includes "or sent as part of the 10GBASE-T and 1000BASET technology message code as defined in 28C.11". (BQ ALIGN, i-33)

SuggestedRemedy

Change paragraph text to read (base text from IEEE P802.3bq D3.1, \U denotes underlined text inserted by 802.3bz) : "This register defines the EEE advertisement for several device types. Devices that use Clause 28 Auto-Negotiation send EEE advertisement in the Unformatted Next Page following a EEE technology message code as defined in 28C.12 as part of the 10GBASE-T and 1000BASE-T technology message code as defined in 28C.11. Devices that use Clause 73 Auto-Negotiation send EEE advertisement in the unformatted code field of Message Next Page with EEE technology message code as defined in 73A.4. 25GBASE-T and 40GBASE-T EEE advertisement is exchanged in the Infofield during training as defined in 113.4.2.5.10. \U For 2.5GBASE-T and 5GBASE-T, the EEE
advertisement is exchanged in the InfoField during training as defined in 126.4.2.5.10.\U
The assignment of bits in the EEE advertisement register and the correspondence with the bits in the Next Page messages or in the training Infofield are shown in Table 45–210."

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general　　　　　　*Pa* **46**　　　Page 6 of 9
COMMENT STATUS: D/dispatched A/accepted R/rejected　　RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn　　*Li* **35**　　　3/5/2016 6:08:18 PM
SORT ORDER: Page, Line

Cl **45**   *SC* **45.2.7.14**   *P* **47**   *L* **19**   # `263`
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
Base text to match IEEE P802.3bq D3.1 - "All of the bits in the EEE LP ability register are read-only. A write to the EEE LP ability register shall have no effect. Except for 10GBASE-T, members of the MultiGBASE-T PHY set exchange the EEE ability in the Infofield during link training. For these PHYs, the EEE LP ability register is updated after link is established. For all other PHYs, wWhen the AN process has been completed, this register shall reflect the contents of the link partner's EEE advertisement register. The assignment of bits in the EEE link partner ability register and the correspondence with the bits in the Next Page messages are shown in Table 45–211." (BQ ALIGN, i-34)

SuggestedRemedy
Change base text to match IEEE P802.3bq D3.1

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

Cl **45**   *SC* **45.2.7.14a**   *P* **49**   *L* **35**   # `264`
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
"RW" is used in Table 45-211a (BQ ALIGN, i-122)

SuggestedRemedy
In the second and third row of the table change "RW" to "R/W" and change the footnote at the bottom of the table to "R/W = Read/Write, RO = Read only".

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

Cl **45**   *SC* **45.5.3.9**   *P* **51**   *L* **39**   # `265`
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
"add" is not a valid editing instruction (BQ ALIGN, i-8)

SuggestedRemedy
Change "and add rows" to "and insert rows"

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

Cl **126**   *SC* **126.1**   *P* **65**   *L* **28**   # `216`
Zimmerman, George   CME Consulting/Aqua

Comment Type **T**   *Comment Status* **D**   *BQ ALIGN*
It is not immediately clear that advertising lack of support for fast retrain is done in autonegotiation. Only looking at 45.2.7.10 reveals that. Clause 45 is optional, and gthe way auto-negotiation is controlled can be different, perhaps with a different register address or without any register. (BQ ALIGN, i-40)

SuggestedRemedy
Change "advertising lack of support in register 7.32" to "advertising lack of support during auto-negotiation".

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

Cl **126**   *SC* **126.1.3**   *P* **67**   *L* **11**   # `219`
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
"two second retrain" is confusing. "Second" is a unit, and according to the style guide should be abbreviated. (BQ ALIGN, i-43)

SuggestedRemedy
Change "two second" to "two-second"

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

Cl **126**   *SC* **126.1.3.1**   *P* **70**   *L* **24**   # `220`
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
"Details of the PCS function are covered in 126.3" This sentence does not seem to belong in this paragraph, which deals with the PMA. The former several paragraphs dealt with the PCS transmit operation (as a summary/overview). The next two paragraph summarize the receiver operation and include "The PCS functions and state diagrams are specified in 126.3". Reference to the detailed description should be put at the end. (BQ ALIGN, i-48)

SuggestedRemedy
Merge the two sentences "Details of the PCS function are covered in 126.3" and "The PCS functions and state diagrams are specified in 126.3", and move the result to a separate paragraph ending this subclause.
Move the sentence "The interface to the PMA is an abstract message-passing interface specified in 126.2" to this final paragraph too.

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: Page, Line

Pa **70**
Li **24**

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Cl **126**   *SC* **126.1.3.2**   *P* **70**   *L* **46**   # 221
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
"discrete time value" can be confusing. (BQ-ALIGN, i-49)

SuggestedRemedy
change to "discrete-time value"

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

Cl **126**   *SC* **126.1.3.3**   *P* **72**   *L* **4**   # 222
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
"Infofield" occurs several times in the draft, and is used here for the first time in Clause 126. 802.3bq d3p1 now defines this term in Clause 1.4, without reference to 802.3bz. Capitalization is inconsistent across the draft. Also "link startup" is vague, Infofields are used in training mode. (BQ ALIGN, i-51)

SuggestedRemedy
Import definition of infofield (1.4.237a) into draft as inserted by 802.3bq, which change instruction to insert cross reference to Clause 126. Change all "InfoField" to "Infofield" in draft.

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

Cl **126**   *SC* **126.1.6**   *P* **73**   *L* **8**   # 217
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
"specifically specified" is redundant. (BQ ALIGN, i-53)

SuggestedRemedy
Change to "unless specified"

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

Cl **126**   *SC* **126.2.2.11.1**   *P* **81**   *L* **21**   # 224
Zimmerman, George   CME Consulting/Aqua

Comment Type **ER**   *Comment Status* **D**   *BQ ALIGN*
Semantics details of primitives are missing. Also in 126.2.2.12.1 (BQ ALIGN, i-55)

SuggestedRemedy
Add pcs_data_mode values to 126.2.2.11.1
(after line 21)
The pcs_data_mode parameter can take on one of two values of the form:
TRUE = PHY is in state PCS_Data (see Figure 126-26)
FALSE = PCS is not in state PCS_Data (see Figure 126-26).
Similarly fr_active values to 126.2.2.12.1, for values:
TRUE = PHY is currently performing a fast retrain
FALSE = PHY is not currently performing a fast retrain

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

Cl **126**   *SC* **126.3.2.2**   *P* **84**   *L* **44**   # 225
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
65B bits? (BQ ALIGN, i-66)

SuggestedRemedy
Change "the 65B bits are scrambled" to "the 65B encoded bits are scrambled "

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

Cl **126**   *SC* **126.3.2.2.8**   *P* **88**   *L* **50**   # 228
Zimmerman, George   CME Consulting/Aqua

Comment Type **E**   *Comment Status* **D**   *BQ ALIGN*
"to account for self-synchronizing scrambler error propagation" - this may be the motivation for this rule (part of the rule), but should not be the rule itself. For people unfamiliar with "self-synchronizing scrambler error propagation" this adds an unnecessary confusion. (BQ ALIGN, i-67)

SuggestedRemedy
Delete "to account for self-synchronizing scrambler error propagation"

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: Page, Line

Pa **88**
Li **50**

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Cl **126** *SC* **126.3.2.2.10** *P* **89** *L* **48** # 226
Zimmerman, George CME Consulting/Aqua

Comment Type **ER** *Comment Status* **D** *BQ ALIGN*
EEE "compliant" PHYs? It is an optional capability. (BQ ALIGN, i-69)

SuggestedRemedy
Change "EEE compliant PHYs" to "PHYs that support EEE" p89 L48 and on p93 L48

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

Cl **126** *SC* **126.3.2.2.17** *P* **92** *L* **36** # 227
Zimmerman, George CME Consulting/Aqua

Comment Type **T** *Comment Status* **D** *BQ ALIGN*
"The use of the auxiliary bit is for vendor-specific communication is outside the scope of this document." It is not clear what these sentence mean in the context of the LDPC encoder. They do not seem to be encoded. Is the encoder required or expected to use specific values or are they left to implementation choice? The decoder behavior should be stated in the decoder subclause, not the encoder subclause. The descriptive language of this section covers more than just the encoder but also the LDPC frame structure. (BQ ALIGN, i-71)

SuggestedRemedy
Change title of 126.3.2.2.17 to "LDPC framing and LDPC encoder"

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

Cl **126** *SC* **126.3.2** *P* **97** *L* **9** # 229
Zimmerman, George CME Consulting/Aqua

Comment Type **E** *Comment Status* **D** *BQ ALIGN*
Missing terminating period (BQ ALIGN, i-76)

SuggestedRemedy
Add a period afer "126.5.2"

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

Cl **126** *SC* **126.3.4** *P* **98** *L* **1** # 230
Zimmerman, George CME Consulting/Aqua

Comment Type **E** *Comment Status* **D** *BQ ALIGN*
The italics vs. Roman font type in Figure 126-11 is inconsistent both internally and with regards to the text preceding it. As a result the italics distract rather than help. In the text, n is a variable that appears in italics, but in the figure it sometime is and sometimes isn't. Likewise, Scr is not italicized (not a variable) in the text, but in the figure it sometimes is and sometimes isn't.
The number "1" appears italicized in the figure within "n-1", it looks like the letter l.
Numbers should never be italicized.
The word "otherwise" is in italics although it is not a variable. (BQ ALIGN, i-77)

SuggestedRemedy
Make the variable "n" always italicized in Figure 126-11.
If "Scr" is a variable then make it consistently italicized (and likewise for Sa, Sb, Sc, Sd) in the figure and in the clause text; otherwise make it consistently Roman.
Make everything else Roman.

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

Cl **126** *SC* **126.3.4.2** *P* **99** *L* **2** # 231
Zimmerman, George CME Consulting/Aqua

Comment Type **TR** *Comment Status* **D** *BQ ALIGN*
"If requested by the link partner, the PCS shall reset the training mode scrambler every 16384 periods..."
This functionality is deprecated for 10G. Should it exist here? (BQ ALIGN, i-78)

SuggestedRemedy
Delete the second sentence on P 99

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

Cl **126** *SC* **126.3.5** *P* **99** *L* **48** # 232
Zimmerman, George CME Consulting/Aqua

Comment Type **E** *Comment Status* **D** *BQ ALIGN*
"R" label in the box seems to refer to the refresh cycle, but it is not readily apparent. The detailed description of "Pair A" does not include "R". (BQ ALIGN, i-79)

SuggestedRemedy
Change "refresh" on pair A to "refresh (R)"

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: Page, Line

Pa **99**
Li **48**

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