Cl **FM**   *SC* **FM**   *P* **1**   *L* **27**   # 585

Anslow, Pete   Ciena

Comment Type   **E**   *Comment Status* **D**   *consent*

This list should contain all of the amendments assumed to be in front of the P802.3ca draft in the queue as determined by the IEEE 802.3 Chair.

SuggestedRemedy

Change to: "as amended by IEEE Std 802.3cb-2018, IEEE Std 802.3bt-2018, IEEE Std 802.3cd-2018, IEEE Std 802.3cn-20xx, IEEE Std 802.3cg-20xx, IEEE Std 802.3cq-20xx, IEEE Std 802.3cm-20xx, and IEEE Std 802.3ch-20xx."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **FM**   *SC* **FM**   *P* **7**   *L* **3**   # 586

Anslow, Pete   Ciena

Comment Type   **E**   *Comment Status* **D**   *consent*

The first paragraph of "Participants" is not in line with the latest boilerplate.

SuggestedRemedy

Change to:
"The following individuals were officers and members of the IEEE 802.3 Working Group at the beginning of the IEEE P802.3ca Working Group ballot."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **FM**   *SC* **FM**   *P* **7**   *L* **20**   # 587

Anslow, Pete   Ciena

Comment Type   **E**   *Comment Status* **D**   *consent*

The list of WG ballot members should not include the officers of the Working Group or the Task Force who are already listed.
Also, the column widths are not as per the latest 802.3 FrameMaker template.

SuggestedRemedy

Remove the 8 officers names from the WG ballot list of names.
Change the column widths to be in accordance with the latest 802.3 FrameMaker template (so that Kochuparambil, Elizabeth does not line wrap)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **FM**   *SC* **FM**   *P* **11**   *L* **53**   # 588

Anslow, Pete   Ciena

Comment Type   **E**   *Comment Status* **D**   *consent*

The text of the summary for P802.3cg does not match the latest version in P802.3cg D3.2

SuggestedRemedy

Change "balanced pair copper cable" to: "balanced pair of conductors"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **FM**   *SC* **FM**   *P* **12**   *L* **1**   # 589

Anslow, Pete   Ciena

Comment Type   **E**   *Comment Status* **D**   *consent*

IEEE Std 802.3ca is not going to be approved in 2019. Also, it is not likely to be Amendment 5.
Amendment numbers should only be added to drafts when the assumed order has been announced by the 802.3 Chair.

SuggestedRemedy

On line 1 change "201x" to "20xx"
On line 3 delete "Amendment 5-"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **1**   *SC* **1.4.90c**   *P* **24**   *L* **34**   # 591

Anslow, Pete   Ciena

Comment Type   **E**   *Comment Status* **D**   *consent*

1.4.90c should be 1.4.90b as per the editing instruction.

SuggestedRemedy

Re-number 1.4.90c to 1.4.90b

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 **1**
SC **1.4.90c**

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8/30/2019 4:08:02 PM

Cl **1**   *SC* **1.4.334a**   *P* **26**   *L* **13**   # 592

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *consent*

The sorting order for definitions in 1.4 is defined at:
http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html#sort
This means that "Multi-Channel Reconciliation Layer (MCRS)" comes before "MultiGBASE-T". Also, "MultiGBASE-T" has been re-numbered to 1.4.333 due to the deletion of 1.4.294 by IEEE Std 802.3bt-2018.

SuggestedRemedy

Change the editing instruction to:
"Insert the following new definition after 1.4.332 "modulation error ratio (MER)" (re-numbered from 1.4.333 due to the deletion of 1.4.294 by IEEE Std 802.3bt-2018) as follows:"
Re-number the new definition to 1.4.332a

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **1**   *SC* **1.4.334a**   *P* **26**   *L* **15**   # 593

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *consent*

"Multi-Channel Reconciliation Layer (MCRS)" should be: "Multi-Channel Reconciliation Sublayer (MCRS)" as per the expansion of the abbreviation in 1.4

SuggestedRemedy

Change "Multi-Channel Reconciliation Layer (MCRS)" to: "Multi-Channel Reconciliation Sublayer (MCRS)"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **1**   *SC* **1.5**   *P* **26**   *L* **42**   # 594

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *consent*

The expansion of LDPC should be "low-density parity check" rather than "low-density parity code"

SuggestedRemedy

Change "parity code" to "parity check"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **30**   *SC* **30.5.1.1.2**   *P* **31**   *L* **54**   # 502

Hajduczenia, Marek   Charter Communications

Comment Type **E**   *Comment Status* **D**   *consent*

Missing space in "1x25G continuous transmission /1x10G burst"

SuggestedRemedy

Should be "1x25G continuous transmission / 1x10G burst"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.3.45a**   *P* **49**   *L* **54**   # 596

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *consent*

Bottom ruling missing for Table 217a at the foot of page 49

SuggestedRemedy

Uncheck "Draw Bottom Ruling on Last Sheet Only"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.5.3.3**   *P* **53**   *L* **5**   # 597

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *consent*

This draft is assumed to be applied after P802.3cg and P802.3ch. The P802.3ch draft adds items up to "MM231" in the D2.1 version

SuggestedRemedy

Change "MM152" to be "MM232"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **67**   *SC* **67.1**   *P* **64**   *L* **16**   # 557

Kramer, Glen   Broadcom

Comment Type **E**   *Comment Status* **D**   *consent*

In table 67-1, link types 25/25PQ and 25/10PQ are missing hyphen before the "PQ"

SuggestedRemedy

Add hyphen in 4 places

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 **67**
SC **67.1**

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8/30/2019 4:08:02 PM

Cl **141** *SC* **141.1.3** *P* **65** *L* **34** # 562

Kramer, Glen Broadcom

Comment Type **E** *Comment Status* **D** *consent*

"Nx25G-EPON PHY Link Types supporting 50 Gb/s use wavelength division multiplexing on two wavelengths; two wavelengths are listed for these links in Table 141–1 through Table 141–5."

This sentence is confuisng, as it seems like to unrelated sentences joined into one. The original text came as comment #356 against D2.0 and it had the two senetences linked properly.

SuggestedRemedy

Link the two sentences as it was in the original comment:
"Nx25G-EPON PHY Link Types supporting 50 Gb/s use wavelength division multiplexing on two wavelengths *and hense* two wavelengths are listed for these links in Table 141–1 through Table 141–5."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Link the two sentences as it was in the original comment:
"Nx25G-EPON PHY Link Types supporting 50 Gb/s use wavelength division multiplexing on two wavelengths *and hence* two wavelengths are listed for these links in Table 141–1 through Table 141–5."

Cl **141** *SC* **141.3.1.3** *P* **72** *L* **41** # 600

Anslow, Pete Ciena

Comment Type **E** *Comment Status* **D** *consent*

In "PMD_UNITDATA[i].request(tx_bit) (where i = 0 or 1)" i is a variable and should be italic

SuggestedRemedy

Change "I" to be in italic font here (2 places) and anywhere else in the draft that this occurs

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **141** *SC* **141.5.2** *P* **78** *L* **11** # 512

Lee, Han Hyub ETRI

Comment Type **E** *Comment Status* **D** *consent*

To be consistent with other tables, the first parameter should be Signaling rate (range)

SuggestedRemedy

Change the order of Channel wavelength ranges and Signaling rate

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **141** *SC* **141.6.1** *P* **83** *L* **11** # 516

Lee, Han Hyub ETRI

Comment Type **E** *Comment Status* **D** *consent*

To be consistent with other tables, the first parameter should be Signaling rate (range)

SuggestedRemedy

Change the order of Channel wavelength ranges and Signaling rate

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **142** *SC* **142.1.1.2** *P* **111** *L* **40** # 507

Hajduczenia, Marek Charter Communications

Comment Type **E** *Comment Status* **D** *consent*

"… the following conventions are used in this clause" - well, it is not just in Clause 142, really.

SuggestedRemedy

Change to "the following conventions are used:"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **142** *SC* **142.1.1.6** *P* **115** *L* **28** # 508

Hajduczenia, Marek Charter Communications

Comment Type **E** *Comment Status* **D** *consent*

"...State diagrams used in this clause make extensive use of first-in, first-out…" - well, not just in this clause

SuggestedRemedy

Change to "State diagrams make extensive use of first-in, first-out"

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* **142** Page 3 of 7
SC **142.1.1.6** 8/30/2019 4:08:02 PM

Cl **142** *SC* **142.2.2**   *P* **119** *L* **12**   # 499

Hajduczenia, Marek   Charter Communications

Comment Type **E** *Comment Status* **D**   *consent*

"64B/66B encoder" should be "64B/66B Encoder" (capitalization issue)
"LDPC FEC encoder" should be "LDPC FEC Encoder" (capitaliation issue)

SuggestedRemedy

per comment

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **142** *SC* **142.2.2**   *P* **119** *L* **23**   # 498

Hajduczenia, Marek   Charter Communications

Comment Type **E** *Comment Status* **D**   *consent*

Different capitalizations of XBUFFER. There are 4 instances of XBUFFER and 13 instances of xBuffer (which is what I believe to be the right capitalization)

SuggestedRemedy

Change all instances (cap sensitive) of XBUFFER to xBuffer (all seem to be limited to Figure 142–5)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **142** *SC* **142.2.2**   *P* **119** *L* **33**   # 500

Hajduczenia, Marek   Charter Communications

Comment Type **E** *Comment Status* **D**   *consent*

I do not believe INPUT_FIFO and TX_FIFO exist (are defined) anymore.

SuggestedRemedy

Change INPUT_FIFO to InputFifo
Change TX_FIFO to TxFifo

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **142** *SC* **142.2.4.1**   *P* **120** *L* **16**   # 577

Wienckowski, Natalie   General Motors

Comment Type **E** *Comment Status* **D**   *consent*

In text, where this improves clarity, follow the IEEE Editorial Style Manual: Use spaces instead of commas between numbers in tens or hundreds of thousands (e.g., 62 000, 100 000, but 4000).   The groups should be separated by a space, and not a comma, period, or dash.

SuggestedRemedy

Change: = 3072 × 17664
To: = 3 072 × 17 664

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **142** *SC* **142.2.4.2**   *P* **123** *L* **8**   # 578

Wienckowski, Natalie   General Motors

Comment Type **E** *Comment Status* **D**   *consent*

In text, where this improves clarity, follow the IEEE Editorial Style Manual: Use spaces instead of commas between numbers in tens or hundreds of thousands (e.g., 62 000, 100 000, but 4000).   The groups should be separated by a space, and not a comma, period, or dash.

SuggestedRemedy

Change: 14592
To: 14 592
Also on P123 L12

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **142** *SC* **142.2.4.2**   *P* **123** *L* **10**   # 579

Wienckowski, Natalie   General Motors

Comment Type **E** *Comment Status* **D**   *consent*

In text, where this improves clarity, follow the IEEE Editorial Style Manual: Use spaces instead of commas between numbers in tens or hundreds of thousands (e.g., 62 000, 100 000, but 4000).   The groups should be separated by a space, and not a comma, period, or dash.

SuggestedRemedy

Change: 17664
To: 17 664

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **142**   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* **142.2.4.2**   8/30/2019 4:08:02 PM
SORT ORDER: Clause, Subclause, page, line

Cl **142**   *SC* **142.2.4.2**   *P* **123**   *L* **11**   # 580

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *consent*

In text, where this improves clarity, follow the IEEE Editorial Style Manual: Use spaces instead of commas between numbers in tens or hundreds of thousands (e.g., 62 000, 100 000, but 4000).   The groups should be separated by a space, and not a comma, period, or dash.

SuggestedRemedy

Change: 14392
To: 14 392

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **142**   *SC* **142.2.4.2**   *P* **123**   *L* **17**   # 581

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *consent*

In text, where this improves clarity, follow the IEEE Editorial Style Manual: Use spaces instead of commas between numbers in tens or hundreds of thousands (e.g., 62 000, 100 000, but 4000).   The groups should be separated by a space, and not a comma, period, or dash.

SuggestedRemedy

Change: 16962
To: 16 962

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **142**   *SC* **142.4.1.1.1**   *P* **146**   *L* **52**   # 566

Kramer, Glen   Broadcom

Comment Type **E**   *Comment Status* **D**   *consent*

In "PCS Transmit State Diagram", the "state diagram" should be lower case

SuggestedRemedy

Change to lower case

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **142**   *SC* **142.4.1.2.1**   *P* **146**   *L* **45**   # 603

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *consent*

"Figure 142-15" should be a cross-reference

SuggestedRemedy

Change "Figure 142-15" to be a cross-reference

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **143**   *SC* **143.3.1.2.3**   *P* **165**   *L* **36**   # 509

Hajduczenia, Marek   Charter Communications

Comment Type **E**   *Comment Status* **D**   *consent*

Inconsistent primitive formatting. We had rules on variable formatting, etc. but right now it seems that primitives are formatted inconsistently. In some locations, the whole primitive is italicised, in others it is not.

SuggestedRemedy

For consistenty, it seems a better approach would be to italicize names of primitives as a whole.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **143**   *SC* **143.3.3.3**   *P* **170**   *L* **32**   # 510

Hajduczenia, Marek   Charter Communications

Comment Type **E**   *Comment Status* **D**   *consent*

Compcount adjective: application specific

SuggestedRemedy

Change to "application-specific"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **143**   Page 5 of 7
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **143.3.3.3**   8/30/2019 4:08:02 PM
SORT ORDER: Clause, Subclause, page, line

Cl **143**   *SC* **143.3.3.4**   *P* **171**   *L* **41**   # 547

Powell, William   Nokia

Comment Type **E**   *Comment Status* **D**   *consent*

rRow Variable:
Current Last Sentence:
The value of this variable is synchronized to wRow and is equal
wRow - 1.

Missing preposition "to"

SuggestedRemedy

Change wording to:
The value of this variable is synchronized to wRow and is equal to wRow - 1.
  -or-
The value of this variable is synchronized to wRow and equals wRow - 1.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change wording to:
The value of this variable is synchronized to wRow and is equal to wRow - 1.

Cl **143**   *SC* **143.3.4.4**   *P* **179**   *L* **42**   # 511

Hajduczenia, Marek   Charter Communications

Comment Type **E**   *Comment Status* **D**   *consent*

Comment #366 fixed one location in the draft; one more instance is missing

SuggestedRemedy

Change "octet_index = 0; octet_index < 8," to "octet_index = 0; octet_index < 8;"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **144**   *SC* **144.3.1.1**   *P* **202**   *L* **31**   # 605

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *consent*

The IEEE style manual has:
"Only one occurrence of any level of an ordered list may be presented in any subclause to avoid confusing cross-references [e.g., it is OK to have an a) level list followed by a 1) level list , etc., but there should not be more than one a) level list in the same clause or subclause]."

SuggestedRemedy

Change the second numbered list (starting at line 31) to a lettered list.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **144**   *SC* **144.3.1.1**   *P* **202**   *L* **33**   # 604

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *consent*

IEEE uses an en-dash as a minus sign

SuggestedRemedy

Change the minus signs to en-dashes (Ctrl-q Shft-p) (5 instances)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **144**   Page 6 of 7
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **144.3.1.1**   8/30/2019 4:08:02 PM
SORT ORDER: Clause, Subclause, page, line

Cl **144**   *SC* **144.3.6.1**   *P* **209**   *L* **12**   # 571

Kramer, Glen   Broadcom
Comment Type   **E**   *Comment Status* **D**   *consent*

Where a subset of bits is taken to represent a single field or a single numericvalue, we should use the notation "M:N" instead of "N to M". This will make it consistent with C45 and vector notation used throughout the draft.

SuggestedRemedy

Apply the following changes:
1) Table 144-2: change "2 to 7" to "7:2"
2) Table 144-4: change "3 to 4" to "4:3"
3) Table 144-4: change "7 to 15" to "15:7"
4) Table 144-7: change "3 to 4" to "4:3"
5) Table 144-7: change "7 to 13" to "13:7"
6) Table 144-8: change "0 to 1" to "1:0"
7) Table 144-8: change "3 to 4" to "4:3"
8) Table 144-8: change "5 to 6" to "6:5"
9) Table 144-8: change "8 to 14" to "14:8"
10) Table 144-11: change "0 to 3" to "3:0"
11) Table 144-11: change "4 to 6" to "6:4"
12) Table 144-12: change "0 to 3" to "3:0"
13) Table 144-12: change "4 to 7" to "7:4"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **144**   *SC* **144.3.8**   *P* **232**   *L* **3**   # 575

Kramer, Glen   Broadcom
Comment Type   **E**   *Comment Status* **D**   *consent*

A couple of missing commas in sub-clause 144.3.8

SuggestedRemedy

Insert the following commas:

1) After "As noted in 144.1.1.1", line 3
2) Before "which" in "state diagram (see 144.3.8.11) which results", line 25

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **144**   *SC* **144.3.8**   *P* **232**   *L* **28**   # 574

Kramer, Glen   Broadcom
Comment Type   **E**   *Comment Status* **D**   *consent*

Sentence "In the OLT transmission is continuous,…" either needs a comma after the OLT, or better, should be re-phrased.

Missing comma after "In the case of the OLT"

The text includes a reference to the OLT
Envelope Commitment process, but is missing a reference to the Envelope Activation process

SuggestedRemedy

Change the paragraph staring with "Grants are not explicitly used by the OLT…" with

"Since the OLT transmits continuously, grants are not explicitly used by the OLT in the downstream direction. However, the OLT does use the envelope descriptors, OLT Envelope Commitment process (see 144.3.8.9), and Envelope Activation process (see 144.3.8.11) in a manner similar to how these processes are used in the ONUs. In the case of the OLT, the transition from Inter-Envelope Idle to data transmission begins with the issuing of an envelope descriptor by the OLT MPMC Client (MPCP). The envelope descriptor is processed by the OLT Envelope Commitment state diagram and Envelope Activation state diagram as described for the ONU."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **144**   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* **144.3.8**   8/30/2019 4:08:02 PM
SORT ORDER: Clause, Subclause, page, line