Cl **FM**	*SC*	*P* **1**	*L* **13**	# 96

Marris, Arthur   Cadence Design Systems

Comment Type **T**   *Comment Status* **D**   *EZ*

I think the name of the amenedment could be improved from "Physical Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet".

This is an amendment for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s PHYs and the title should state that.

Also there is likely to be a project for a 25G automotive PHY in the future and this would also be greater than 1G.

SuggestedRemedy

Change the title of the amendment to:
"Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Automotive Ethernet"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Change: "Draft Standard for Ethernet Amendment:Physical Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet" To: Draft Standard for Ethernet Amendment:Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s and 10 Gb/s Automotive Ethernet."

Cl **FM**	*SC* **FM**	*P* **1**	*L* **8**	# 122

Carlson, Steven   High Speed Design, Inc; Marvell; Robert Bosch

Comment Type **E**   *Comment Status* **D**   *EZ*

The admendment title may cause confusion now that IEEE 802.3 has a study group focused on 10 Gb/s and greater automotive electrical PHYS. Amendment titles must be within the scope of the PAR. See [1] Subclause 4.2.3.2 'Review of draft standards' of the IEEE-SA Standards Board Operations Manual <https://standards.ieee.org/develop/policies/opman/sb_om.pdf> states 'Title of Document. The title on the draft document and submittal form shall be within the scope as stated on the most recently approved PAR, or action(s) shall be taken to ensure this.'.

[2] The IEEE-SA 2014 Style manual <https://development.standards.ieee.org/myproject/Public/mytools/draft/styleman.pdf> has similar text in subclause 9.2 'Title' that reads 'Per 4.2.3.2 of the IEEE-SA Standards Board Operations Manual, the title on the draft document shall be within the scope as stated on the most recently approved PAR.'. The proposed change is within the scope of the PAR.

[3] Item 2 Of the RevCom check list <https://development.standards.ieee.org/myproject/Public/mytools/approve/subchklst.pdf> reads 'Is the Title of the submitted draft within the Scope of the PAR?'. The proposed change is within the scope of the PAR.

SuggestedRemedy

Change: "Draft Standard for Ethernet Amendment:Physical Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet" To: Draft Standard for Ethernet Amendment:Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s and 10 Gb/s Automotive Ethernet."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **FM**   Page 1 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **FM**   7/6/2019 1:07:02 PM
SORT ORDER: Clause, Subclause, page, line

Cl **FM**	*SC* **FM**	*P* **2**	*L* **2**	# 259

den Besten, Gerrit   NXP Semiconductors

Comment Type **E**   *Comment Status* **D**   *EZ*

"operation on automotive cabling in an automotive
application". Other definitions in the spec refer to "single balanced pair". It seems useful to
make the abstract consistent with that.

SuggestedRemedy

Change to: "operation over single balanced pair cabling and suitable for automotive
applications."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change: on automotive cabling in an au-
tomotive application.
To: on a single balanced pair of conductors suitable for automotive applications.

Cl **FM**	*SC* **FM**	*P* **1**	*L* **18**	# 88

Trowbridge, Steve   Nokia

Comment Type **E**   *Comment Status* **D**   *EZ*

Now that there is another effort that will likely become a project for greater than 10 Gb/s
operation, the title may not be sufficiently unique

SuggestedRemedy

Consider a title listing 2.5 Gb/s, 5 Gb/s, 10 Gb/s operation to make it clear that the >10
Gb/s interfaces are not included

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change: "Draft Standard for Ethernet Amendment:Physical Layer Specifications and
Management Parameters for Greater Than 1 Gb/s Automotive Ethernet" To: Draft Standard
for Ethernet Amendment:Physical Layer Specifications and Management Parameters for
2.5 Gb/s, 5 Gb/s and 10 Gb/s Automotive Ethernet."

Cl **FM**	*SC* **FM**	*P* **10**	*L* **52**	# 82

Maguire, Valerie   The Siemon Company

Comment Type **E**   *Comment Status* **D**   *EZ*

802.3cg is specified for operation over a single balanced pair of conductors.

SuggestedRemedy

Replace, "operation on a single balanced pair copper cable" with "operation over a single
balanced pair of conductors".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **FM**	*SC* **FM**	*P* **19**	*L* **34**	# 89

Trowbridge, Steve   Nokia

Comment Type **E**   *Comment Status* **D**   *EZ*

In the ToC, 3rd level headings from 149.11.1 onwards run together with the text. This may
be the first time 6 digits appeared in a 3rd level heading.

SuggestedRemedy

Adjust the ToC format to provide space between the number and the text for these
headings.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Perform instructions provided by Pete: Take a fresh copy of the latest 802.3 template and
with your latest P802.3ch book open, open the TOC file from the template.
In the left hand pane, highlight the TOC file from your book. File, Import, Formats, Deselect
all, check Paragraph Formats, Import, OK.

Cl **FM**	*SC* **FM**	*P* **10**	*L* **50**	# 83

Maguire, Valerie   The Siemon Company

Comment Type **E**   *Comment Status* **D**   *EZ*

Extraneous comma.

SuggestedRemedy

Replace, "amendments, and adds" with "amendments and adds".

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 **FM**
SC **FM**

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7/6/2019 1:07:02 PM

Cl **1**	*SC* **1.5**	*P* **23**	*L* **44**	#	3

Hajduczenia, Marek   Charter Communications

Comment Type **E**   *Comment Status* **D**   *EZ*

Empty section 1.5

SuggestedRemedy

Please remove, no content

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **1**	*SC* **1.5**	*P* **23**	*L* **44**	#	10

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

As no new abbreviations are being added, remove 1.5

SuggestedRemedy

Remove 1.5 from the draft

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **1**	*SC* **1.5**	*P* **23**	*L* **44**	#	95

Marris, Arthur   Cadence Design Systems

Comment Type **E**   *Comment Status* **D**   *EZ*

Delete 1.5 if no new abbreviations are being added

SuggestedRemedy

Delete 1.5

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **30**	*SC* **30.5.1.1.2**	*P* **25**	*L* **12**	#	236

Zimmerman, George   ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S

Comment Type **E**   *Comment Status* **D**   *EZ*

It appears that the entry "Single balanced pair of conductors..." is a smaller font size (9pt) than the "2.5GBASE-T1"(10pt) - it should be the same. Same comment for 5GBASE-T1 and 10GBASE-T1 entries

SuggestedRemedy

fix the font size/style of "Single balanced pair of conductors" in the three entries to match the name of the aMAUType.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **44**	*SC* **44.3**	*P* **31**	*L* **3**	#	237

Zimmerman, George   ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S

Comment Type **E**   *Comment Status* **D**   *EZ*

Editing instruction says to insert "a" row - three rows are inserted. Also, the row for 2x interleave is overly tall.

SuggestedRemedy

Change "a row" to "new rows" in editing instruction, and adjust the height of the row for 2x interleave to match the others.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**	*SC* **45.2.1.18.aa**	*P* **33**	*L* **37**	#	169

Regev, Alon   Keysight Technologies

Comment Type **E**   *Comment Status* **D**   *EZ*

ability misspelled as "abilitiy" in 4 places: titles of clause 45.2.1.18.aa and 45.2.1.18.ab as well as the two related entries in the Table of Contents

SuggestedRemedy

change all occurances of "abilitiy" to "ability"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **45**   Page 3 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **45.2.1.18.aa**   7/6/2019 1:07:02 PM
SORT ORDER: Clause, Subclause, page, line

Cl **45**   *SC* **45.2.1.18.aa**   *P* **33**   *L* **37**   # 8

Kolesar, Paul   CommScope

Comment Type **E**   *Comment Status* **D**   *EZ*

typo

SuggestedRemedy

change abilitiy to ability

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.1.18.ab**   *P* **33**   *L* **43**   # 9

Kolesar, Paul   CommScope

Comment Type **E**   *Comment Status* **D**   *EZ*

typo

SuggestedRemedy

change abilitiy to ability

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.1.18aa**   *P* **33**   *L* **36**   # 189

Brandt, David   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   *EZ*

Misspelling

SuggestedRemedy

Change: "abilitiy", To: "ability"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.1.18ab**   *P* **33**   *L* **43**   # 190

Brandt, David   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   *EZ*

Misspelling

SuggestedRemedy

Change: "abilitiy", To: "ability"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.1.192.4**   *P* **36**   *L* **9**   # 238

Zimmerman, George   ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S

Comment Type **E**   *Comment Status* **D**   *EZ*

"Bits 1.2309.10:9 control the current precoder setting of the transmitter," - because "current" can have meaning both as time and as an electrical parameter, this isn't a great way to say this. The rest of the paragraph, particularly the sentence "Setting these bits forces the precoder to the mode set." is clarity enough, and the word "current" is unneeded.

SuggestedRemedy

Delete "current" on P36 L9

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.1.193.5**   *P* **37**   *L* **28**   # 43

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Missing article.

SuggestedRemedy

Change: that the polarity of receiver is reversed.
To: that the polarity of the receiver is reversed.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.1.195**   *P* **39**   *L* **9**   # 35

Remein, Duane   Futurewei Technologies, Inc.

Comment Type **TR**   *Comment Status* **D**   *EZ*

Does the following statement imply that once the device has seen an link up the bits in register 1.2112 are then valid forever? "The values in this register are not valid until link is up."

SuggestedRemedy

Change:
"The values in this register are not valid until link is up." to
"The values in this register are not valid when the link is down."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **45**   Page 4 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **45.2.1.195**   7/6/2019 1:07:02 PM
SORT ORDER: Clause, Subclause, page, line

Cl **45**   *SC* **45.2.1.198**   *P* **41**   *L* **8**   # 36

Remein, Duane   Futurewei Technologies, Inc.

Comment Type **TR**   *Comment Status* **D**   *EZ*

It strikes mea odd that 1.2314 (SNR) is in "offset binary notation" and Register 1.2315 is in "is in offset two's complement notation". Furthermore I could find no reference for "offset two's complement notation" (hence the "Must Be Satisfied = YES") while offset binary notation is at least informally described in Wikipedia.

SuggestedRemedy

Change
"offset two's complement notation" to
" offset binary notation"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.3.74.4**   *P* **44**   *L* **50**   # 100

Lo, William   Axonne Inc.

Comment Type **E**   *Comment Status* **D**   *EZ*

There is no change to this clause from 802.3bp so it should not show up in the document.

SuggestedRemedy

Remove clause

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.3.75**   *P* **45**   *L* **14**   # 123

Nicholl, Shawn   Xilinx

Comment Type **E**   *Comment Status* **D**   *EZ*

Table 45-244 contains message data received from the link partner, but the description says "transmitted first". Seems mis-leading / inconsistent.

SuggestedRemedy

Replace "transmitted first" with "received first" for all occurrences in the table.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.3.76**   *P* **45**   *L* **50**   # 11

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

Table 45-244a is split across two pages with only one body row on the first page.

SuggestedRemedy

Increase the Orphan rows setting in Table Designer to 4

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.3.77**   *P* **46**   *L* **15**   # 12

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

"The Link partner MultiGBASE-T1" should be "The link partner MultiGBASE-T1" (lower case l in link).

SuggestedRemedy

Change "Link" to "link"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.3.77**   *P* **46**   *L* **16**   # 250

den Besten, Gerrit   NXP Semiconductors

Comment Type **E**   *Comment Status* **D**   *EZ*

Missing reference to 149.3.9.2.12 like in sub-clause 45.2.3.76

SuggestedRemedy

Add the same reference to 45.2.3.77

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Add "See 149.3.9.2.12 for details on the OAM status message definition." before " See Table 45–244b."

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **45**   Page 5 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **45.2.3.77**   7/6/2019 1:07:02 PM
SORT ORDER: Clause, Subclause, page, line

Cl **45**　　*SC* **45.2.3.77**　　　　*P* **46**　　*L* **19**　　# 13

Anslow, Pete　　　　　　　　　　Ciena

Comment Type **E**　　*Comment Status* **D**　　　　　　*EZ*

"Link Partner" should be "Link partner" (lower case p in partner) in the title of Table 45-244b and also in the Name column (4 instances)

SuggestedRemedy

Change "Partner" to "partner" in the title of Table 45-244b and also in the Name column (4 instances)

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **45**　　*SC* **45.2.3.77**　　　　*P* **46**　　*L* **22**　　# 124

Nicholl, Shawn　　　　　　　　　Xilinx

Comment Type **E**　　*Comment Status* **D**　　　　　　*EZ*

Table 45-244b contains message data received from the link partner, but the description says "transmitted first". Seems mis-leading / inconsistent.

SuggestedRemedy

Replace "transmitted first" with "received first" for all occurrences in the table.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **45**　　*SC* **45.2.3.80.2**　　　*P* **49**　　*L* **31**　　# 191

Brandt, David　　　　　　　　　Rockwell Automation

Comment Type **E**　　*Comment Status* **D**　　　　　　*EZ*

Duplicate text

SuggestedRemedy

Change: "is detecting is detecting", To: "is detecting"

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **45**　　*SC* **45.2.3.80.2**　　　*P* **49**　　*L* **31**　　# 44

Wienckowski, Natalie　　　　　　General Motors

Comment Type **E**　　*Comment Status* **D**　　　　　　*EZ*

typo

SuggestedRemedy

Change: PCS receiver is detecting is detecting
To: PCS receiver is detecting

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **45**　　*SC* **45.2.3.80.4**　　　*P* **49**　　*L* **47**　　# 192

Brandt, David　　　　　　　　　Rockwell Automation

Comment Type **E**　　*Comment Status* **D**　　　　　　*EZ*

Description of non-latched source is wrong.

SuggestedRemedy

Change: "...PCS high BER status bit (3.2324.9)."
To: "...PCS high RFER status bit (3.2324.9)."

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **45**　　*SC* **45.5.3.3**　　　　*P* **52**　　*L* **8**　　# 14

Anslow, Pete　　　　　　　　　　Ciena

Comment Type **E**　　*Comment Status* **D**　　　　　　*EZ*

IEEE P802.3cg D3.0 is inserting PICS items MM152 through MM204 so the items being inserted by this draft should start at MM205

SuggestedRemedy

Change the editing instruction to:
"Insert PICS Items MM205 through MM227 after MM204 (inserted by IEEE Std 802.3cg-201x) in the table in 45.5.3.3 as follows:"
Renumber the PICS items accordingly.

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 **45**
SC **45.5.3.3**

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7/6/2019 1:07:02 PM

Cl **45**   *SC* **45.5.3.3**   *P* **52**   *L* **49**   # 15

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

When tables split across pages, the bottom ruling of the table on the first page should be "very thin"

SuggestedRemedy

Make the bottom ruling "very thin" for:
the table in 45.5.3.3 at the foot of page 52
the table in 45.5.3.7 at the foot of page 54
Table 78-4 on page 57
the table in 149.11.4.2.1 at the foot of page 173
the table in 149.11.4.3.4 at the foot of page 179
the table in 149.11.4.4.3 at the foot of page 184

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.5.3.3**   *P* **53**   *L* **28**   # 47

Wienckowski, Natalie   General Motors

Comment Type **T**   *Comment Status* **D**   *EZ*

Incorrect reference

SuggestedRemedy

Change Subclause from 45.2.1.194.5 to 45.2.1.195.4.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.5.3.3**   *P* **53**   *L* **29**   # 170

Regev, Alon   Keysight Technologies

Comment Type **E**   *Comment Status* **D**   *EZ*

advertising misspelled as "advertisingg"

SuggestedRemedy

change "advertisingg" to "advertising"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.5.3.3**   *P* **53**   *L* **31**   # 48

Wienckowski, Natalie   General Motors

Comment Type **T**   *Comment Status* **D**   *EZ*

Incorrect reference

SuggestedRemedy

Change Subclause from 45.2.1.194.5 to 45.2.1.195.5.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.5.3.7**   *P* **54**   *L* **7**   # 49

Wienckowski, Natalie   General Motors

Comment Type **T**   *Comment Status* **D**   *EZ*

Incorrect reference. This is not what is in P802.3:2018.

SuggestedRemedy

Change Subclause from 45.2.3.172.1 to 45.2.3.172.2.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.5.3.7**   *P* **54**   *L* **13**   # 16

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

In the editing instruction "after Item RM184" should be "after Item RM190"

SuggestedRemedy

In the editing instruction change "after Item RM184" to "after Item RM190"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.5.3.7**   *P* **55**   *L* **4**   # 86

Laubach, Mark   Broadcom

Comment Type **E**   *Comment Status* **D**   *EZ*

"the the"

SuggestedRemedy

Change to single "the"

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* **45**   *SC* **45.5.3.7**   Page 7 of 30
7/6/2019 1:07:03 PM

Cl **45**   *SC* **45.5.3.7**   *P* **55**   *L* **4**   # 171

Regev, Alon   Keysight Technologies

Comment Type **E**   *Comment Status* **D**   *EZ*

"the" is repeated as "the the" in 2 places in the draft

SuggestedRemedy

change all occurances of "the the" to "the"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.5.3.7**   *P* **55**   *L* **14**   # 87

Laubach, Mark   Broadcom

Comment Type **E**   *Comment Status* **D**   *EZ*

"the the"

SuggestedRemedy

Change to single "the"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **78**   *SC* **78.1.4**   *P* **56**   *L* **7**   # 17

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

Comment #65 against P802.3cj D2.0 defined the order of items in Table 78-1. See
http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID.pdf#page=14
Sort the result in "speed/reach" order using the following set of rules.
1. Increasing speed.
2. Increasing reach (maximum supported distance over the medium).
3. Decreasing number of lanes

The following supplemental rules address are included to address special cases.
4. PHY "family designations, by convention, are assigned a reach of 0.
5. "Copper" PHYs precede "Fiber" PHYs (all else being equal).
6. Alphanumeric sort (all else being equal).

Applying these rules puts 2.5GBASE-T1 before 2.5GBASE-T, 5GBASE-T1 before 5GBASE-
T, and 10GBASE-T1 before 10GBASE-T.

SuggestedRemedy

Change the editing instruction to:
"Insert a row for 2.5GBASE-T1 after 2.5GBASE-KX (as inserted by IEEE Std 802.3cb-
2018), insert a row for 5GBASE-T1 after 5GBASE-KR (as inserted by IEEE Std 802.3cb-
2018), and insert a row for 10GBASE-T1 after 10GBASE-KR in Table 78-1 as follows
(unchanged rows not shown):"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **78**   *SC* **78.2**   *P* **56**   *L* **29**   # 18

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

Comment #66 against P802.3cj D2.0 defined the order of items in Table 78-2. See
http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID.pdf#page=14
This defined the sort order to be the same as for Table 78-1
Applying these rules puts 2.5GBASE-T1 before 2.5GBASE-T, 5GBASE-T1 before 5GBASE-
T, and 10GBASE-T1 before 10GBASE-T.

SuggestedRemedy

Change the editing instruction to:
"Insert a row for 2.5GBASE-T1 after 2.5GBASE-KX (as inserted by IEEE Std 802.3cb-
2018), insert a row for 5GBASE-T1 after 5GBASE-KR (as inserted by IEEE Std 802.3cb-
2018), and insert a row for 10GBASE-T1 after 10GBASE-KR in Table 78-2 as follows
(unchanged rows not shown):"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **78**   Page 8 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **78.2**   7/6/2019 1:07:03 PM
SORT ORDER: Clause, Subclause, page, line

Cl **78**	*SC* **78.2**	*P* **56**	*L* **49**	# 19

Anslow, Pete — Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

Table 78-2 is missing an ellipsis row at the bottom after the row for 10GBASE-T1

SuggestedRemedy

In Table 78-2 add an ellipsis row with default ruling at the bottom after the row for 10GBASE-T1

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **78**	*SC* **78.2**	*P* **56**	*L* **50**	# 50

Wienckowski, Natalie — General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Missing bottom row

SuggestedRemedy

Add row to bottom of table with single column and "…" in the cell.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **78**	*SC* **78.5**	*P* **57**	*L* **18**	# 20

Anslow, Pete — Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

There are nine paragraphs in 78.5 of the base standard, so the additional paragraph is number 10.
Case-1 and Case 2 start with "Case-x of the PHY in the MultiGBASE-T set applies when …" but cases 3 and 4 start with "Case-x in MultiGBASE-T1 is the same as ..."

SuggestedRemedy

Change the editing instruction to:
"Insert a 10th paragraph in 78.5 as follows:"
For Case-3 and Case-4, change:
"Case-x in MultiGBASE-T1 is the same as ..." to:
"Case-x of the PHY in the MultiGBASE-T set is the same as …"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **78**	*SC* **78.5**	*P* **57**	*L* **26**	# 21

Anslow, Pete — Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

Comment #66 against P802.3cj D2.0 defined the order of items in Table 78-4. See
http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID.pdf#page=14
This defined the sort order to be the same as for Table 78-1
Applying these rules puts 2.5GBASE-T1 before 2.5GBASE-T, 5GBASE-T1 before 5GBASE-T, and 10GBASE-T1 before 10GBASE-T.

SuggestedRemedy

Change the editing instruction to:
"Insert a row for 2.5GBASE-T1 after 2.5GBASE-KX (as inserted by IEEE Std 802.3cb-2018), insert a row for 5GBASE-T1 after 5GBASE-KR (as inserted by IEEE Std 802.3cb-2018), and insert a row for 10GBASE-T1 after 10GBASE-KR in Table 78-4 as follows (unchanged rows not shown):"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **78**	*SC* **78.5**	*P* **57**	*L* **38**	# 22

Anslow, Pete — Ciena

Comment Type **T**   *Comment Status* **D**   *EZ*

The cells for Tphy_shrink_tx (max) and Tphy_shrink_rx (max) in Table 78-4 should not be blank.
If the values for these parameters are 0, then these cells should all contain 0

SuggestedRemedy

Populate the cells for Tphy_shrink_tx (max) and Tphy_shrink_rx (max) in Table 78-4 for the new rows with "0"

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 **78**
SC **78.5**

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7/6/2019 1:07:03 PM

Cl **98**   *SC* **98.5.1**   *P* **61**   *L* **11**   # 224

McClellan, Brett   Marvell

Comment Type **T**   *Comment Status* **D**   *EZ*

Figure 149-34 references 'mGigT1'.
10GigT1 , 5GigT1 , and 2.5GigT1 are never referenced.

SuggestedRemedy

change:
"— 2.5GigT1;represents that the 2.5GBASE-T1 PMA is the signal source.
— 5GigT1; represents that the 5GBASE-T1 PMA is the signal source.
— 10GigT1; represents that the 10GBASE-T1 PMA is the signal source. "
to
"— mGigT1;represents that the 10/5/2.5GBASE-T1 PMA is the signal source."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **104**   *SC* **104.1.3**   *P* **62**   *L* **10**   # 240

Zimmerman, George   ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S

Comment Type **E**   *Comment Status* **D**   *EZ*

Capitalization of "type F PSE" is missing

SuggestedRemedy

Change "type F PSE" to "Type F PSE"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **104**   *SC* **104.5.6.4**   *P* **63**   *L* **27**   # 241

Zimmerman, George   ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S

Comment Type **E**   *Comment Status* **D**   *EZ*

All the "VPD", "PPD" references should have the "PD" in subscript.

SuggestedRemedy

Editor to check and make "PD" and "PSE" subscript where appropriate. (I think it's just PD)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **125**   *SC* **125.1.4**   *P* **67**   *L* **33**   # 42

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Incorrect table border on cell "149"

SuggestedRemedy

Change right side boarder on last cell in 2nd ro to be the wider outside border.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **125**   *SC* **125.1.4**   *P* **67**   *L* **33**   # 23

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

The right hand ruling for the second heading row in Table 125-2 should be set to the default.

SuggestedRemedy

Change the right hand ruling for the second heading row in Table 125-2 to the default.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **125**   *SC* **125.3**   *P* **68**   *L* **33**   # 77

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Table 125-3 does not match IEEE802.3's 2018 guidline for "Presentation of numbers".

SuggestedRemedy

Change Editorial instruction to be" Replace Table 125-3 (as modified by IEEE Std 802.3cb-2018) with the updated table, which adds 2.5GBASE-T1 and 5GBASE-T1 and corrects the number format and alignment to match IEEE 802.3 WG editorial guidelines, as follows:"
Correct Table 125-3 to match latest IEEE 802.3 WG editorial guidelines.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **125**   Page 10 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **125.3**   7/6/2019 1:07:03 PM
SORT ORDER: Clause, Subclause, page, line

Cl **125**   *SC* **125.3**   *P* **69**   *L* **8**   # 90

Trowbridge, Steve   Nokia

Comment Type **E**   *Comment Status* **D**   *EZ*

Other clauses have the pause quanta centered in the 3rd column. In the 4th column, some
of the ns numbers are left aligned and some are centered

SuggestedRemedy

Use consistent alignment in the columns of Table 125-3

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Same as comment #77.

Change Editorial instruction to be "Replace Table 125-3 (as modified by IEEE Std 802.3cb-
2018) with the updated table, which adds 2.5GBASE-T1 and 5GBASE-T1 and corrects the
number format and alignment to match IEEE 802.3 WG editorial guidelines, as follows:"
Correct Table 125-3 to match latest IEEE 802.3 WG editorial guidelines.

Cl **149**   *SC* **149.11.4.2.1**   *P* **173**   *L* **5**   # 139

Donahue, Curtis   UNH-IOL

Comment Type **E**   *Comment Status* **D**   *EZ*

Shall statement missing associated PICS item

SuggestedRemedy

Insert new PICS entry before PCT1 of Draft 2.0, with the following content:
Feature: PCS Reset
Subclause: 149.3.2.1
Value/Comment: Described in 149.3.2.1
Status: M
Support: Yes[] N/A[]

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.11.4.2.2**   *P* **175**   *L* **10**   # 140

Donahue, Curtis   UNH-IOL

Comment Type **E**   *Comment Status* **D**   *EZ*

Shall statement missing associated PICS item

SuggestedRemedy

Insert new PICS entry after PCR2 of Draft 2.0, with the following content:
Feature: Frame and block synchronization
Subclause: 149.3.2.3.1
Value/Comment: Described in 149.3.2.3.1
Status: M
Support: Yes[] N/A[]

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.11.4.2.2**   *P* **175**   *L* **17**   # 141

Donahue, Curtis   UNH-IOL

Comment Type **E**   *Comment Status* **D**   *EZ*

Incorrect subclause reference.

SuggestedRemedy

Change '149.3.2.3.2' to '149.3.2.3.3'.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.11.4.2.7**   *P* **177**   *L* **16**   # 142

Donahue, Curtis   UNH-IOL

Comment Type **E**   *Comment Status* **D**   *EZ*

Typo.

SuggestedRemedy

Capitalize the 'i' in 'ignore' in the Value/Comment field of PCSL4.

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 **149**
SC **149.11.4.2.7**

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7/6/2019 1:07:03 PM

Cl **149**   *SC* **149.11.4.2.8**   *P* **177**   *L* **33**   # 143

Donahue, Curtis   UNH-IOL

Comment Type   **E**   *Comment Status* **D**   *EZ*
Shall statement missing associated PICS item

SuggestedRemedy
Insert new PICS entry before OAM2 of Draft 2.0, with the following content:
Feature: Partially transmitted OAM frame
Subclause: 149.3.9.2.1
Value/Comment: Described in 149.3.9.2.1
Status: M
Support: Yes[] N/A[]

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

Cl **149**   *SC* **149.11.4.3.2**   *P* **178**   *L* **15**   # 144

Donahue, Curtis   UNH-IOL

Comment Type   **E**   *Comment Status* **D**   *EZ*
Duplicate PICS entry.

SuggestedRemedy
Remove PMAT1.

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

Cl **149**   *SC* **149.11.4.3.10**   *P* **182**   *L* **35**   # 145

Donahue, Curtis   UNH-IOL

Comment Type   **E**   *Comment Status* **D**   *EZ*
Typo.

SuggestedRemedy
Change 'Expire s97.5' to 'Expires 97.5'

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

Cl **149**   *SC* **149.11.4.4.3**   *P* **184**   *L* **35**   # 146

Donahue, Curtis   UNH-IOL

Comment Type   **E**   *Comment Status* **D**   *EZ*
Update subclause reference

SuggestedRemedy
Change the subclause reference in the Subclause column from '149.5.2.3' to '149.5.2.3.1'
for TES12, TES13, TES14, and TES15.

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

Cl **149**   *SC* **149.11.4.4.3**   *P* **185**   *L* **1**   # 148

Donahue, Curtis   UNH-IOL

Comment Type   **E**   *Comment Status* **X**   *EZ*
Shall statement missing associated PICS item

SuggestedRemedy
Insert new PICS entry after TSE15 of Draft 2.0, with the following content:
Feature: EOJpk-pk Jitter
Subclause: 149.5.2.3.2
Value/Comment: Less than 4/S ps
Status: M
Support: Yes[] N/A[]

Proposed Response   *Response Status* **O**

Cl **149**   *SC* **149.11.4.4.3**   *P* **185**   *L* **1**   # 147

Donahue, Curtis   UNH-IOL

Comment Type   **E**   *Comment Status* **D**   *EZ*
Shall statement missing associated PICS item

SuggestedRemedy
Insert new PICS entry after TSE15 of Draft 2.0, with the following content:
Feature: DJpk-pk Jitter
Subclause: 149.5.2.3.2
Value/Comment: Less than 9/S ps
Status: M
Support: Yes[] N/A[]

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **149**   Page 12 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **149.11.4.4.3**   7/6/2019 1:07:03 PM
SORT ORDER: Clause, Subclause, page, line

Cl **149**	*SC* **149.11.4.5**	*P* **186**	*L* **18**	# 150

Donahue, Curtis   UNH-IOL

Comment Type **E**   *Comment Status* **D**   *EZ*

Typo.

SuggestedRemedy

Change '2.5G return loss' to '2.5GBASE-T1 return loss'

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**	*SC* **149.11.4.5**	*P* **186**	*L* **20**	# 151

Donahue, Curtis   UNH-IOL

Comment Type **E**   *Comment Status* **D**   *EZ*

Typo

SuggestedRemedy

Change '5G return loss' to '5GBASE-T1 return loss'

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**	*SC* **149.11.4.5**	*P* **186**	*L* **22**	# 153

Donahue, Curtis   UNH-IOL

Comment Type **E**   *Comment Status* **D**   *EZ*

Typo.

SuggestedRemedy

Change "Equation (149-21)' to 'Equation (149-22)'

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**	*SC* **149.11.4.5**	*P* **186**	*L* **22**	# 152

Donahue, Curtis   UNH-IOL

Comment Type **E**   *Comment Status* **X**   *EZ*

Typo.

SuggestedRemedy

Change '10G return loss' to '10GBASE-T1 return loss'

Proposed Response   *Response Status* **O**

Cl **149**	*SC* **149.11.4.5**	*P* **186**	*L* **29**	# 154

Donahue, Curtis   UNH-IOL

Comment Type **E**   *Comment Status* **D**   *EZ*

Shall statement missing associated PICS item

SuggestedRemedy

Insert new PICS entry after LSC6 of Draft 2.0, with the following content:
Feature: PSANEXT
Subclause: 149.7.2.1
Value/Comment: See Equation (149-25)
Status: M
Support: Yes[] N/A[]

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**	*SC* **149.11.4.5**	*P* **186**	*L* **29**	# 155

Donahue, Curtis   UNH-IOL

Comment Type **E**   *Comment Status* **D**   *EZ*

Shall statement missing associated PICS item

SuggestedRemedy

Insert new PICS entry after LSC6 of Draft 2.0, with the following content:
Feature: PSAACR-F
Subclause: 149.7.2.2
Value/Comment: See Equation (149-26)
Status: M
Support: Yes[] N/A[]

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**	*SC* **149**	*P* **70**	*L* **1**	# 37

Remein, Duane   Futurewei Technologies, Inc.

Comment Type **E**   *Comment Status* **D**   *EZ*

It is customary to include an editing Instruction prior to new clauses as noted in the WG Template v3.9.

SuggestedRemedy

Insert before Clause 149
"Insert new clauses and corresponding annexes as follows:"

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 **149**
SC **149**

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| *Cl* **149** | *SC* **149.1** | *P* **70** | *L* **12** | # | 251 |

den Besten, Gerrit   NXP Semiconductors

Comment Type **E**   *Comment Status* **D**   *EZ*

The word 'type' seems strange and unnecessary in this sentence.

SuggestedRemedy

Remove the word 'type'

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

| *Cl* **149** | *SC* **149.1.1** | *P* **70** | *L* **32** | # | 175 |

Baggett, Tim   Microchip

Comment Type **E**   *Comment Status* **D**   *EZ*

"PHYs" should be possessive as "PHY's"

SuggestedRemedy

Change "...PHYs data rate..." to "...PHY's data rate..."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

| *Cl* **149** | *SC* **149.1.3** | *P* **71** | *L* **27** | # | 193 |

Brandt, David   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   *EZ*

PCS layer label is inconsistent with Figure 44-1 and Figure 125-1.

SuggestedRemedy

Change: "RS-FEC PCS"
To: "64B/65B RS-FEC PCS"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

| *Cl* **149** | *SC* **149.1.3** | *P* **71** | *L* **27** | # | 242 |

Zimmerman, George   ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S

Comment Type **E**   *Comment Status* **D**   *EZ*

In other diagrams the PCS is referred to as 64B/65B RS-FEC PCS. Here it is just RS-FEC PCS. We should be consistent.

SuggestedRemedy

Change "RS-FEC PCS" to "64B/65B RS-FEC PCS" in Figure 149-1.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

| *Cl* **149** | *SC* **149.1.3** | *P* **72** | *L* **3** | # | 243 |

Zimmerman, George   ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S

Comment Type **T**   *Comment Status* **D**   *EZ*

"The MASTER and SLAVE are synchronized by the PHY Link Synchronization function in the PHY (see 149.4.2.6)." - this sentence stands alone from the previous sentence, and needs to be qualified or linked - else it is incorrect (149.4.2.6 only applies in FORCE mode). It is only true when Auto-Negotiation is not used.

SuggestedRemedy

Change "PHYS. The MASTER and SLAVE are..." to "PHYS, and the MASTER and SLAVE are..."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

| *Cl* **149** | *SC* **149.1.3** | *P* **149** | *L* **27** | # | 92 |

D'Ambrosia, John   Futurewei, U.S. Subsidiary of Huawei

Comment Type **E**   *Comment Status* **D**   *EZ*

The naming of the PCS block in Fig 149-1 is inconsistent with the naming of the PCS block in Fig 44-1 (PDF Page 28, Line 37), which includes "64B/65B", and PCS Blocks in Fig 125-1 (PDF Pge 66 ,Line 14) which also includes the "64B/65B" text

SuggestedRemedy

Change the naming of the PCS block in Fig 149--1 to read "64B/65B RS-FEC PCS"

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 **149**
SC **149.1.3**

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7/6/2019 1:07:04 PM

Cl **149**   *SC* **149.1.3.1**   *P* **72**   *L* **30**   # 225

McClellan, Brett   Marvell

Comment Type   **E**   *Comment Status* **D**   *EZ*
   text in this section appears to be a different font size than other text.

SuggestedRemedy
   adjust font

Proposed Response   *Response Status* **W**
   PROPOSED REJECT.

   I checked the text in FrameMaker and it is the same as the rest of the text. This must be
   due to the pdf creation or your viewer.

Cl **149**   *SC* **149.1.3.1**   *P* **72**   *L* **38**   # 184

Brandt, David   Rockwell Automation

Comment Type   **E**   *Comment Status* **D**   *EZ*
   Missing dashes.

SuggestedRemedy
   Change: "3260 bit block"
   To: "3260-bit block", in 2 locations

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

Cl **149**   *SC* **149.1.3.1**   *P* **72**   *L* **48**   # 226

McClellan, Brett   Marvell

Comment Type   **E**   *Comment Status* **D**   *EZ*
   The PMA interface is defined in 149.2, not 149.4.

SuggestedRemedy
   change '149.4' to '149.2'

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

Cl **149**   *SC* **149.1.3.4**   *P* **75**   *L* **13**   # 51

Wienckowski, Natalie   General Motors

Comment Type   **E**   *Comment Status* **D**   *EZ*
   fix crooked line

SuggestedRemedy
   Make the horizontal line under "tx_mode" straight.

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

Cl **149**   *SC* **149.2.2.12.3**   *P* **85**   *L* **17**   # 24

Anslow, Pete   Ciena

Comment Type   **E**   *Comment Status* **D**   *EZ*
   "149.3.2.3" and "Figure 149-17" should be cross-references.

SuggestedRemedy
   Make "149.3.2.3" and "Figure 149-17" cross-references.

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

Cl **149**   *SC* **149.3.2.2**   *P* **87**   *L* **14**   # 209

McClellan, Brett   Marvell

Comment Type   **E**   *Comment Status* **D**   *EZ*
   "RS_FEC" is inconsistent with other text using "RS-FEC"

SuggestedRemedy
   change "RS_FEC" to "RS-FEC"

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

Cl **149**   *SC* **149.3.2.2**   *P* **87**   *L* **38**   # 178

Baggett, Tim   Microchip

Comment Type   **E**   *Comment Status* **D**   *EZ*
   Mispelling "fame"

SuggestedRemedy
   Change "FEC fame" to " FEC frame"

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **149**   Page 15 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **149.3.2.2**   7/6/2019 1:07:04 PM
SORT ORDER: Clause, Subclause, page, line

Cl **149**   *SC* **149.3.2.2**   *P* **87**   *L* **39**   # 177

Baggett, Tim   Microchip

Comment Type **E**   *Comment Status* **D**   *EZ*

I think it would be useful to indicate that the block of 3600 bits are encoded into a block of 1800 PAM4 symbols.

SuggestedRemedy

Change:
"The 3600 bits in this frame are then encoded into PAM4 symbols and transferred to the PMA."
to:
"The 3600 bits in this frame are then encoded into 1800 PAM4 symbols and transferred sequentially to the PMA."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.2.2.2**   *P* **88**   *L* **40**   # 210

McClellan, Brett   Marvell

Comment Type **T**   *Comment Status* **D**   *EZ*

"In addition, the code enables the receiver to achieve PCS synchronization alignment on the incoming PHY bit stream."
This text is not correct. Alignment is found during training.

SuggestedRemedy

delete this sentence.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.2.2.3**   *P* **89**   *L* **8**   # 52

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Missing Oxford comma.

SuggestedRemedy

Change: Contents of block type fields, data octets and control characters are shown as hexadecimal values.
To: Contents of block type fields, data octets, and control characters are shown as hexadecimal values.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.2.2.4**   *P* **89**   *L* **24**   # 185

Brandt, David   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   *EZ*

Figure 149-6 lacks arrow ends on TXD<32> and TXD<63>.

SuggestedRemedy

Add arrow ends on TXD<32> and TXD<63>.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.2.2.4**   *P* **89**   *L* **44**   # 136

Wu, Peter   Marvell

Comment Type **E**   *Comment Status* **D**   *EZ*

Some arrows in the diagram are too long

SuggestedRemedy

Need to be aligned

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.2.2.4**   *P* **90**   *L* **43**   # 91

Trowbridge, Steve   Nokia

Comment Type **E**   *Comment Status* **D**   *EZ*

Many elements of Figure 149-7 don't quite line up

SuggestedRemedy

Use the recommended Pete Anslow tricks of exact pixel position and size to get everything to align

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.2.2.13**   *P* **94**   *L* **13**   # 212

McClellan, Brett   Marvell

Comment Type **E**   *Comment Status* **D**   *EZ*

change "transcoder/scrambler" to "transcoder and scrambler"

SuggestedRemedy

change "transcoder/scrambler" to "transcoder and scrambler"

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 **149**
SC **149.3.2.2.13**

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Cl **149**　　　*SC* **149.3.2.2.14**　　　*P* **94**　　　*L* **23**　　　*#* 213

McClellan, Brett　　　　　　　　　Marvell

Comment Type **E**　　　*Comment Status* **D**　　　　　　　　　*EZ*

"For both x and c the encoder shall follow the notation described in 149.3.2.2.2 where the LSB (leftmost element of the vectors x and c) is the first bit into the RS-FEC encoder and the first transmitted bit."
x and c are not yet defined and need a reference. Notation is defined in 149.3.2.2.3, not 149.3.2.2.2.

SuggestedRemedy

change "149.3.2.2.2" to "149.3.2.2.3"
change "For both x and c" to "For both x and c (in 149.3.2.2.15)"

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.3.2.2.15**　　　*P* **94**　　　*L* **41**　　　*#* 179

Baggett, Tim　　　　　　　　　Microchip

Comment Type **E**　　　*Comment Status* **D**　　　　　　　　　*EZ*

Reference to equation 149-3 is incorrect. The referenced equation does not have an alpha term.

SuggestedRemedy

reference "Equation (149-1)"

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.3.2.2.15**　　　*P* **94**　　　*L* **41**　　　*#* 214

McClellan, Brett　　　　　　　　　Marvell

Comment Type **E**　　　*Comment Status* **D**　　　　　　　　　*EZ*

page 94 line 41
alpha does not appear in equation 149-3.

SuggestedRemedy

change "In Equation (149–3)," to "In Equation (149–1),"

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.3.2.2.15**　　　*P* **94**　　　*L* **41**　　　*#* 53

Wienckowski, Natalie　　　　　　　　　General Motors

Comment Type **T**　　　*Comment Status* **D**　　　　　　　　　*EZ*

Incorrect reference

SuggestedRemedy

Change: In Equation (149-3)
To: In Equation (149-1)

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.3.2.2.15**　　　*P* **94**　　　*L* **51**　　　*#* 137

Wu, Peter　　　　　　　　　Marvell

Comment Type **T**　　　*Comment Status* **D**　　　　　　　　　*EZ*

The equation is wrong
$m_{i,j}$ = tx_RSmessage $<(359 - i) 10 + j>$, i = 0 to 325, j = 0 to 9.　index out of range

SuggestedRemedy

It should be changed to:
$m_{i,j}$ = tx_RSmessage $<(325 - i) 10 + j>$, i = 0 to 325, j = 0 to 9.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.3.2.2.15**　　　*P* **94**　　　*L* **52**　　　*#* 180

Baggett, Tim　　　　　　　　　Microchip

Comment Type **E**　　　*Comment Status* **D**　　　　　　　　　*EZ*

Equation $m_{sub(i,j)}$ could be written a bit more clear.

SuggestedRemedy

Change:
"tx_RSmessage $<(359-i) 10 +j>$,i = 0 to 325,j = 0 to 9."
To:
"tx_RSmessage $<(359-i) \times 10 +j>$, for i = 0 to 325, and j = 0 to 9."
(Add multiply operator "x", "for", and "and")

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Make the suggested editorial changes, but don't overwrite the technical change made by Comment #137 changing the first "359" to "325".

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 **149**
SC **149.3.2.2.15**

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Cl **149**   *SC* **149.3.2.2.15**   *P* **95**   *L* **6**   # 125

Nicholl, Shawn   Xilinx

Comment Type **E**   *Comment Status* **D**   *EZ*

There is an orphan statement containing that mentions tx_scrambled, but makes no other mention to tx_scrambled in the sub-clause. Also, the cross-reference is wrong since 149.3.2.2.14 says nothing about tx_scrambled.

SuggestedRemedy

Remove the statement "tx_scrambled<3599:0> is defined in 149.3.2.2.14."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.2.2.15**   *P* **96**   *L* **1**   # 78

Slavick, Jeff   Broadcom

Comment Type **E**   *Comment Status* **D**   *EZ*

Table 149-3 spans over two pages. It'd be useful to have all information on a single page.

SuggestedRemedy

Make Table 149-3 have 4 columns so the table can fit on a single page

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Put in additional columns to fit on one page. See table 119-3 for example.

Cl **149**   *SC* **149.3.2.2.16**   *P* **95**   *L* **45**   # 126

Nicholl, Shawn   Xilinx

Comment Type **E**   *Comment Status* **D**   *EZ*

Sub-clauses 149.3.2.2.13 through 149.3.2.2.20 appear to be walking through the Tx functions in order. However, 149.3.2.2.16 is in the wrong place. The superframe formation and interleaving (if present) occurs before the RS encoder.

SuggestedRemedy

Move sub-clause "149.3.2.2.16 RS-FEC superframe and round robin interleaving" before sub-clause "149.3.2.2.15 Reed Solomon encoder"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.2.2.21**   *P* **99**   *L* **33**   # 218

McClellan, Brett   Marvell

Comment Type **E**   *Comment Status* **D**   *EZ*

"After the alert signal," is unclear

SuggestedRemedy

change "After the alert signal," to "After transmitting the alert signal,"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.2.2.21**   *P* **99**   *L* **36**   # 219

McClellan, Brett   Marvell

Comment Type **E**   *Comment Status* **D**   *EZ*

"Lpi_wake_time" is a variable and should not be capitalized

SuggestedRemedy

change "Lpi_wake_time" to "lpi_wake_time"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.2.2.21**   *P* **99**   *L* **41**   # 220

McClellan, Brett   Marvell

Comment Type **TR**   *Comment Status* **D**   *EZ*

"lpi_wake_timer" is not a defined variable. Is this supposed to be lpi_tx_wake_timer?

SuggestedRemedy

change lpi_wake_timer to lpi_tx_wake_timer

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.5**   *P* **103**   *L* **31**   # 233

McClellan, Brett   Marvell

Comment Type **E**   *Comment Status* **D**   *EZ*

typo

SuggestedRemedy

change "raining" to "training"

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 **149**
SC **149.3.5**

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Cl **149**   *SC* **149.3.5**   *P* **103**   *L* **31**   # 54

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

typo

SuggestedRemedy

Change: among raining frame
To: among training frame

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.5**   *P* **103**   *L* **31**   # 254

den Besten, Gerrit   NXP Semiconductors

Comment Type **E**   *Comment Status* **D**   *EZ*

typo: raining

SuggestedRemedy

Replace by: training

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.5**   *P* **103**   *L* **31**   # 115

Dudek, Mike   Marvell

Comment Type **E**   *Comment Status* **D**   *EZ*

typo

SuggestedRemedy

change "raining" into training"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.5**   *P* **103**   *L* **32**   # 25

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

"are shown in 149–12" should be "are shown in Figure 149–12"

SuggestedRemedy

Change the cross-reference format to "FigureNumber"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.5**   *P* **103**   *L* **48**   # 255

den Besten, Gerrit   NXP Semiconductors

Comment Type **E**   *Comment Status* **D**   *EZ*

typo: (bits of) PHY frame is

SuggestedRemedy

Replace by: (bits of) PHY frame are

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.5**   *P* **103**   *L* **48**   # 55

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Subject verb agreeement

SuggestedRemedy

Change: The first 96 bits of the 16th partial PHY frame is
To: The first 96 bits of the 16th partial PHY frame are

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.6.1**   *P* **105**   *L* **45**   # 84

Maguire, Valerie   The Siemon Company

Comment Type **E**   *Comment Status* **D**   *EZ*

Use preferred terminology for mandatory criteria.

SuggestedRemedy

Replace, "EEE-capable PHYs must synchronize" with, "EEE-capable PHYs shall synchronize" and adjust PICS, if necessary.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **149**   Page 19 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **149.3.6.1**   7/6/2019 1:07:05 PM
SORT ORDER: Clause, Subclause, page, line

Cl **149**   *SC* **149.3.7.2.2**   *P* **109**   *L* **22**   # 174

Regev, Alon   Keysight Technologies

Comment Type **TR**   *Comment Status* **D**   *EZ*

"rs-fec_frame_done" should be "rs_fec_frame_done"

SuggestedRemedy

change "rs-fec_frame_done" to "rs_fec_frame_done"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.8.2**   *P* **113**   *L* **42**   # 162

Law, David   Hewlett Packard Enterprise

Comment Type **E**   *Comment Status* **D**   *EZ*

Change the text '... time RFER_BAD_RF of the ...' to read '... time the RFER_BAD_RF state of the ...'.

SuggestedRemedy

See comment.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.8.2**   *P* **114**   *L* **3**   # 164

Law, David   Hewlett Packard Enterprise

Comment Type **T**   *Comment Status* **D**   *EZ*

Subclause 149.3.7.2.2 'Variables' defines pcs_reset as a Boolean variable with no further definition of the values, which I understand to mean that the two possible values default to true and false. This seems to be confirmed in subclause 149.3.2.1 'PCS Reset function' which states that ' PCS Reset sets pcs_reset = TRUE while any of the above ...' and its use in the PCS 64B/65B Transmit and receive State diagrams where the open arrow entry is based on ' pcs_reset + ..'. Based on its use in the open arrow entry to the RFER_MT_INIT state in Figure 149–15 'RFER monitor state diagram' needs to be changed from 'pcs_reset = ON + ...' to 'pcs_reset + ...'.

SuggestedRemedy

Change 'pcs_reset = ON + ...'. to read 'pcs_reset + ...'.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.8.2**   *P* **115**   *L* **5**   # 166

Law, David   Hewlett Packard Enterprise

Comment Type **E**   *Comment Status* **D**   *EZ*

Please vertically and horizontally centre align all state names.

SuggestedRemedy

See comment.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.8.2**   *P* **117**   *L* **28**   # 167

Law, David   Hewlett Packard Enterprise

Comment Type **E**   *Comment Status* **D**   *EZ*

Suggest that a font be used for the each symbols in the state diagram to ease any future maintenance on the state diagram.

SuggestedRemedy

Suggest that the two instances of the symbol '=' in symbol font be changed to Airal font. They are used in 'R_TYPE_NEXT = ...' in the transition from RX_D to RX_E and the transition from RX_E to RX_E.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.8.2**   *P* **117**   *L* **41**   # 168

Law, David   Hewlett Packard Enterprise

Comment Type **E**   *Comment Status* **D**   *EZ*

Typo.

SuggestedRemedy

Suggests that 'R_TYPE(rx_coded)= S' be changed to read 'R_TYPE(rx_coded) = S' (add a space between ")" and '=') on the transition from the RX_T to RX_D states.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **149**   Page 20 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **149.3.8.2**   7/6/2019 1:07:05 PM
SORT ORDER: Clause, Subclause, page, line

Cl **149**   *SC* **149.3.8.2**   *P* **118**   *L* **7**   # 156

Law, David   Hewlett Packard Enterprise

Comment Type **T**   *Comment Status* **D**   *EZ*

The LP_BLOCK_R constant assigned to rx_raw in the RX_L state isn't defined in subclause 149.3.7.2.1 'Constants', there is however a LPBLOCK_R constant defined in subclause 149.3.7.2. that isn't used.

SuggestedRemedy

Either change LP_BLOCK_R in the RX_L state to LPBLOCK_R, or change LPBLOCK_R in subclause 149.3.7.2.1 to LP_BLOCK_R.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change LPBLOCK_R in subclause 149.3.7.2.1 to LP_BLOCK_R.

Cl **149**   *SC* **149.3.8.2**   *P* **118**   *L* **13**   # 157

Law, David   Hewlett Packard Enterprise

Comment Type **T**   *Comment Status* **D**   *EZ*

The I_BLOCK_R constant assigned to rx_raw in the RX_W state isn't defined in subclause 149.3.7.2.1 'Constants', there is however an IBLOCK_R constant defined in subclause 149.3.7.2. that isn't used.

SuggestedRemedy

Either change I_BLOCK_R in the RX_R state to IBLOCK_R, or change IBLOCK_R in subclause 149.3.7.2.1 to I_BLOCK_R.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change IBLOCK_R in subclause 149.3.7.2.1 to I_BLOCK_R.

Cl **149**   *SC* **149.3.8.2**   *P* **118**   *L* **19**   # 158

Law, David   Hewlett Packard Enterprise

Comment Type **E**   *Comment Status* **D**   *EZ*

Typo.

SuggestedRemedy

Suggests that 'R_TYPE(rx_coded)=I' be changed to read 'R_TYPE(rx_coded) = I' (add a space before and after the '=') on both exit conditions from the RX_W state.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.8.2**   *P* **119**   *L* **20**   # 161

Law, David   Hewlett Packard Enterprise

Comment Type **E**   *Comment Status* **D**   *EZ*

Delete the spurious AND symbol from the end of the equation for the transition from SEND_SLEEP to SEND_QR.

SuggestedRemedy

Change the text '... * tx_lpi_req*'. to read ' * tx_lpi_req'.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.9**   *P* **120**   *L* **20**   # 194

Brandt, David   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   *EZ*

Missing space

SuggestedRemedy

Change: "OAM10-bit"
To: "OAM 10-bit"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.9**   *P* **120**   *L* **23**   # 58

Wienckowski, Natalie   General Motors

Comment Type **T**   *Comment Status* **D**   *EZ*

unclear terminology used

SuggestedRemedy

Change: exchange, at a minimum, the link partner health status.
To: exchange, at a minimum, the link partner OAM status.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **149**   Page 21 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **149.3.9**   7/6/2019 1:07:05 PM
SORT ORDER: Clause, Subclause, page, line

Cl **149**   *SC* **149.3.9.2.1**   *P* **121**   *L* **2**   # 57

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

poor alignment of lines in figure

SuggestedRemedy

Adjust lines/boxes in figure 149-21 so they are properly aligned and there don't appear to be different line widths.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.9.2.1**   *P* **121**   *L* **38**   # 56

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

typo

SuggestedRemedy

Change: full OAM frame can packed into 8 super frames
To: full OAM frame can be packed into 8 super frames

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.9.2.1**   *P* **121**   *L* **38**   # 106

Lo, William   Axonne Inc.

Comment Type **E**   *Comment Status* **D**   *EZ*

Grammar

SuggestedRemedy

Change "can packed into" to "can be packed into"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.9.2.1**   *P* **121**   *L* **52**   # 257

den Besten, Gerrit   NXP Semiconductors

Comment Type **E**   *Comment Status* **D**   *EZ*

typo: symbol

SuggestedRemedy

replace by: symbols

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.9.2.1**   *P* **121**   *L* **52**   # 258

den Besten, Gerrit   NXP Semiconductors

Comment Type **E**   *Comment Status* **D**   *EZ*

typo: symbol

SuggestedRemedy

replace by: symbols

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.9.2.1**   *P* **122**   *L* **13**   # 134

Grau, Olaf   Robert Bosch GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*

Bold OAM Bitfield delimiter

SuggestedRemedy

Only Bold delimiter for a OAM Superframe field

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.3.9.2.1**   *P* **122**   *L* **28**   # 107

Lo, William   Axonne Inc.

Comment Type **TR**   *Comment Status* **D**   *EZ*

OAM field no longer has parity

SuggestedRemedy

Delete the clause
" and the symbol parity will not change"

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* **149**   *SC* **149.3.9.2.1**   Page 22 of 30   7/6/2019 1:07:05 PM

Cl **149**　　　*SC* **149.3.9.2.13**　　　　*P* **125**　　　*L* **38**　　　# 59

Wienckowski, Natalie　　　　　　　General Motors

Comment Type **E**　　　*Comment Status* **D**　　　　　　　　　*EZ*
poor wording

SuggestedRemedy
Change: is required only when the EEE is implemented.
To: is required only when EEE is implemented.

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

Cl **149**　　　*SC* **149.4.2.1**　　　　*P* **139**　　　*L* **16**　　　# 60

Wienckowski, Natalie　　　　　　　General Motors

Comment Type **E**　　　*Comment Status* **D**　　　　　　　　　*EZ*
misspelled word, sall -> shall

SuggestedRemedy
Change: The MultiGBASE-T1 PMA sall take no longer
To: The MultiGBASE-T1 PMA shall take no longer

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

Cl **149**　　　*SC* **149.4.2.1**　　　　*P* **139**　　　*L* **16**　　　# 108

Lo, William　　　　　　　Axonne Inc.

Comment Type **ER**　　　*Comment Status* **D**　　　　　　　　　*EZ*
Typo

SuggestedRemedy
Change "sall" to "shall"

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

Cl **149**　　　*SC* **149.4.2.1**　　　　*P* **139**　　　*L* **16**　　　# 172

Regev, Alon　　　　　　　Keysight Technologies

Comment Type **TR**　　　*Comment Status* **D**　　　　　　　　　*EZ*
"shall" is misspelled as "sall"

SuggestedRemedy
change "sall" to "shall"

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

Cl **149**　　　*SC* **149.4.2.1**　　　　*P* **139**　　　*L* **16**　　　# 262

den Besten, Gerrit　　　　　　　NXP Semiconductors

Comment Type **E**　　　*Comment Status* **D**　　　　　　　　　*EZ*
typo: sall

SuggestedRemedy
Replace by: shall

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

Cl **149**　　　*SC* **149.4.2.2**　　　　*P* **139**　　　*L* **32**　　　# 61

Wienckowski, Natalie　　　　　　　General Motors

Comment Type **T**　　　*Comment Status* **D**　　　　　　　　　*EZ*
The clock jitter requirements are in 149.5.2.3, not 149.5.2.2.

SuggestedRemedy
Change: while meeting the transmit jitter requirements of 149.5.2.2.
To: while meeting the transmit jitter requirements of 149.5.2.3.
Make the same change on line 36.

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 **149**
SC **149.4.2.2**

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Cl **149**   *SC* **149.4.2.3**   *P* **139**   *L* **48**   # 26

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

In "less than 2x10-10" the "x" should be a multiply sign (Ctrl-q 0) and the minus sign should be an en-dash (Ctrl-q Shft-p).
Same issue in 149.11.4.3.3 item PMAR1

SuggestedRemedy

In "less than 2x10-10" change the "x" to a multiply sign (Ctrl-q 0) and change the minus sign to an en-dash (Ctrl-q Shft-p).
Make the same changes in 149.11.4.3.3 item PMAR1

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.2.4.7**   *P* **143**   *L* **6**   # 109

Lo, William   Axonne Inc.

Comment Type **TR**   *Comment Status* **D**   *EZ*

Typo in bit index

SuggestedRemedy

Change "Oct8<1:0>, Oct9<1:0>, Oct10<7:0>" to "Oct8<7:0>, Oct9<7:0>, Oct10<7:0>"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.2.4.8**   *P* **143**   *L* **14**   # 62

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

missing comma

SuggestedRemedy

Add comma after "Afterwards" in: Afterwards Oct4 through Oct10

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change: "Afterwards Oct4 through Oct10 are used to compute the CRC16 with the switch connected, which is setting CRCgen in Figure 149–30."
to: "After initialization, the switch is set to CRCgen, as shown in Figure 149-30, and Oct4 through Oct10 are used to compute the CRC16 output."

Cl **149**   *SC* **149.4.2.4.8**   *P* **143**   *L* **15**   # 63

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

unnecessary article

SuggestedRemedy

Change: After all the 7 octets
To: After all 7 octets

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.2.4.10**   *P* **144**   *L* **25**   # 64

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

repeated words

SuggestedRemedy

Change: PHY Control state diagram state diagram
To: PHY Control state diagram

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.2.5**   *P* **144**   *L* **42**   # 65

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Subject verb agreeement

SuggestedRemedy

Change: and the Link
Monitor state machines begins monitoring
To: and the Link
Monitor state machine begins monitoring

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 **149**
SC **149.4.2.5**

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7/6/2019 1:07:06 PM

Cl **149**   *SC* **149.4.2.6**   *P* **145**   *L* **19**   # 111

Lo, William   Axonne Inc.

Comment Type **E**   *Comment Status* **D**   *EZ*

Inconsistent Sn subscript style.
Lines 19, 20 does not subscript the n in Sn where everywhere else
the n is in subscript.

SuggestedRemedy

Subscript the n in Sn in lines 19 and 20

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.2.6**   *P* **145**   *L* **20**   # 110

Lo, William   Axonne Inc.

Comment Type **TR**   *Comment Status* **D**   *EZ*

Missing subscript

SuggestedRemedy

Change S[7:0] to Sn[7:0]
Note that the n in Sn should be subscripted.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.2.8**   *P* **149**   *L* **11**   # 263

den Besten, Gerrit   NXP Semiconductors

Comment Type **E**   *Comment Status* **D**   *EZ*

RS FER is called RFER at other places in the spec

SuggestedRemedy

Replace RS FER by RFER

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.3.1**   *P* **149**   *L* **27**   # 66

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

It appears that in hT(t), "h" and "(t)" are superscripts and "T" is a subscript.

SuggestedRemedy

Change "h" and "(t)" to normal with "T" as a subscript.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.4.1**   *P* **150**   *L* **32**   # 68

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Missing return

SuggestedRemedy

Move "OK:…" to be on the line after "Values:

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.4.1**   *P* **150**   *L* **38**   # 69

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Missing return

SuggestedRemedy

Move "OK:…" to be on the line after "Values:

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.4.1**   *P* **150**   *L* **43**   # 27

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

"pcs_data_mode" should not be split across two lines

SuggestedRemedy

Prevent "pcs_data_mode" from being split across lines.
(Click somewhere within "pcs_data_mode" and type Esc n s)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **149**   Page 25 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **149.4.4.1**   7/6/2019 1:07:06 PM
SORT ORDER: Clause, Subclause, page, line

Cl **149**   *SC* **149.4.4.1**   *P***150**   *L***44**   # 160

Law, David   Hewlett Packard Enterprise

Comment Type **E**   *Comment Status* **D**   *EZ*

Typo, 'PCSDATAMODE.indicate' should read 'PCSDATAMODE.indication', see IEEE Std 802.3 subclause 1.2.2.1 'Classification of service primitives'.

SuggestedRemedy

See comment.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.4.1**   *P***151**   *L***7**   # 112

Lo, William   Axonne Inc.

Comment Type **TR**   *Comment Status* **D**   *EZ*

The watchdog function is removed from the state diagrams.
There is no longer a need for the watchdog variable.

SuggestedRemedy

Remove the entire paragraph on PMA_watchdog_status

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.4.1**   *P***151**   *L***25**   # 67

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Missing return

SuggestedRemedy

Move "OK:…" to be on the line after "Values:

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.4.4.2**   *P***151**   *L***41**   # 113

Lo, William   Axonne Inc.

Comment Type **TR**   *Comment Status* **D**   *EZ*

The maxwait timer was removed in previous drafts but all reference to this was not cleanly removed.
Side note: the maxwait_timer functionality is actually in the autoneg and Link Synchronization state diagrams so it is redundant here.

SuggestedRemedy

Page 151 line 45 - Delete maxwait_timer paragraph
Page 144 line 21 - Delete ", until maxwait_timer expires"
Page 144 lines 24 to 27 - Delete paragraph
Page 153 line 13 - Delete INIT_MAXWAIT_TIMER state, delete UCT arrow and reconnect arrow from DISABLE_TRANSMITTER to SILENT
Page 153 line 51 - Delete "stop maxwait_timer" in box
Page 182 line 35 - Delete maxwait_timer row

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.5.1**   *P***155**   *L***38**   # 70

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Add non-breaking space in the number per the IEEE-SA Style Manual.

SuggestedRemedy

Change: 175.78125 MHz.
To: 175.781 25 MHz.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149**   *SC* **149.5.2.3.2**   *P***158**   *L***29**   # 71

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

The word "Clause" doesn't belong before a subclause reference.

SuggestedRemedy

Change: Clause 94.3.12.6.1 to 94.3.12.6.1. Also, "1" should be made part of the "External reference".

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 **149**
SC **149.5.2.3.2**

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Cl **149**　　　*SC* **149.5.2.3.2**　　　*P* **158**　　　*L* **29**　　　# 28

Anslow, Pete　　　　　　　　　　　　Ciena

Comment Type **E**　　　*Comment Status* **D**　　　　　　　*EZ*

"as specified in Clause 94.3.12.6.1" should be "as specified in 94.3.12.6.1" and the final "1" should be in forest green font.
On line 35 "as specified in Clause 94.3.12.6.2" should be "as specified in 94.3.12.6.2"

SuggestedRemedy

Change "as specified in Clause 94.3.12.6.1" to "as specified in 94.3.12.6.1" and apply the character tag External to the final "1".
On line 35 change "as specified in Clause 94.3.12.6.2" to "as specified in 94.3.12.6.2" .

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.5.2.3.2**　　　*P* **158**　　　*L* **35**　　　# 72

Wienckowski, Natalie　　　　　　　　General Motors

Comment Type **E**　　　*Comment Status* **D**　　　　　　　*EZ*

The word "Clause" doesn't belong before a subclause reference.

SuggestedRemedy

Change: Clause 94.3.12.6.2 to 94.3.12.6.2.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.5.2.4**　　　*P* **158**　　　*L* **42**　　　# 73

Wienckowski, Natalie　　　　　　　　General Motors

Comment Type **E**　　　*Comment Status* **D**　　　　　　　*EZ*

unnecessary article

SuggestedRemedy

Change: using the test fixture 4
To: using test fixture 4

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.5.3.2**　　　*P* **160**　　　*L* **17**　　　# 74

Wienckowski, Natalie　　　　　　　　General Motors

Comment Type **E**　　　*Comment Status* **D**　　　　　　　*EZ*

Missing Oxford comma.

SuggestedRemedy

Change: Gaussian distribution, bandwidths and magnitudes
To: Gaussian distribution, bandwidths, and magnitudes

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.7.1.4**　　　*P* **164**　　　*L* **32**　　　# 244

Zimmerman, George　　　　　　　　ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S

Comment Type **T**　　　*Comment Status* **D**　　　　　　　*EZ*

"The coupling attenuation is tested... Additional coupling attenuation test methodologies..." seems contradictory - it implies that the annex contains other ways to test the coupling attenuation. I believe we are requiring that the cable pass testing according to the IEC spec, with the parameters specified in Annex 149A. (or else Annex 149A can't be normative)

SuggestedRemedy

Change "In order to limit the noise at the receiver as well as emissions, the MultiGBASE-T1 link segment shall meet
the coupling attenuation values determined by using Equation (149–24). The coupling attenuation is tested
as specified in IEC 62153-4-7 using triaxial tube in tube method. Additional coupling attenuation test methodologies
are defined in Annex 149A."
to: "In order to limit the noise at the receiver as well as emissions, when tested using the IEC 62153-4-7 triaxial tube in tube method as specified in Annex 149A, the MultiGBASE-T1 link segment shall meet the coupling attenuation values determined by using Equation (149–24)."

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 **149**
SC **149.7.1.4**

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Cl **149**　　　*SC* **149.11.3**　　　*P* **172**　　　*L* **6**　　　# 29

Anslow, Pete　　　　　　　　　　　　Ciena

Comment Type **E**　　*Comment Status* **D**　　　　　　　　　*EZ*

"AN" and "EEE" appear in the Status column in 149.11.4.1, so they should be "*AN" and "*EEE" (preceded by "*")

SuggestedRemedy

Change "AN" and "EEE" to "*AN" and "*EEE"

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.11.4.1**　　　*P* **172**　　　*L* **28**　　　# 30

Anslow, Pete　　　　　　　　　　　　Ciena

Comment Type **T**　　*Comment Status* **D**　　　　　　　　　*EZ*

The PICS proforma tables in 149.11.4.1 do not have the appropriate entries in the "Support" column.
Same issue in every other subclause of the Clause 149 PICS and also the Annex 149A PICS

SuggestedRemedy

In 149.11.4.1, every other subclause of the Clause 149 PICS and also the Annex 149A PICS for items with status of:
"M" change the Support entry to "Yes [ ]"
"O" change the Support entry to "Yes [ ] No [ ]"
"Something:M" change the Support entry to "Yes [ ] N/A [ ]"
"Something:O" change the Support entry to "Yes [ ] No [ ] N/A [ ]"

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.11.4.2.1**　　　*P* **174**　　　*L* **3**　　　# 31

Anslow, Pete　　　　　　　　　　　　Ciena

Comment Type **E**　　*Comment Status* **D**　　　　　　　　　*EZ*

The entries in the subclause column on page 174 wrap across two lines

SuggestedRemedy

widen the subclause column so that the entries do not wrap across two lines.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.A.2**　　　*P* **189**　　　*L* **18**　　　# 130

Shariff, Masood　　　　　　　　　　CommScope

Comment Type **TR**　　*Comment Status* **D**　　　　　　　　*EZ*

Incorrect statement. Alien Crosstalk defines coupling between disturbed and disturber link segments and cannot be measured using coupling attenuation test fixtures. Figure 149-41 in Clause 149.7.2 shows an illustration for alien cross talk measurements and also refers to Clause 97B for additional details. There is no reference to Annex 149A

SuggestedRemedy

From: Coupling and screening attenuation are the main parameters for a shielded differential link segment to define its alien crosstalk and EMC properties.　To: Coupling and screening attenuation are the main parameters for a shielded differential link segment to define
its EMC properties.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149**　　　*SC* **149.A.4**　　　*P* **191**　　　*L* **8**　　　# 131

Shariff, Masood　　　　　　　　　　CommScope

Comment Type **ER**　　*Comment Status* **D**　　　　　　　　*EZ*

Correct standards specifications avoiding ambiguity.

SuggestedRemedy

From: Placing the termination resistors inside the connector,in order to omit the transition to the PCB, is not allowed.　To:　Termination resistors shall not be placed inside the connector in order to omit the transition to the PCB.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **149A**　　　*SC* **149A.2**　　　*P* **189**　　　*L* **26**　　　# 234

Zimmerman, George　　　　　　　　ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S

Comment Type **E**　　*Comment Status* **D**　　　　　　　　　*EZ*

"Measurements to be performed... 75%" isn't a sentence.

SuggestedRemedy

Change "Measurements to be performed" to "Measurements are performed"

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 **149A**
SC **149A.2**

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Cl **149A**   *SC* **149A.2**   *P* **189**   *L* **26**   # 75

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

Per the IEEE-SA Style Manual, "If tolerances are provided, the unit shall be given with both the basic value and the tolerance"

SuggestedRemedy

After 23, add the degree symbol and then "C".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149A**   *SC* **149A.3**   *P* **189**   *L* **31**   # 235

Zimmerman, George   ADI, APL Gp, Aquantia, BMW, Cisco, Commscope, S

Comment Type **E**   *Comment Status* **D**   *EZ*

"The reference cable assembly is intended to be a simplified representation of the components, that are used within a wiring harness, which are cable, PCB connectors, and inline connectors." is grammatically awkward

SuggestedRemedy

Suggest changing to "The reference cable assembly is intended to be a simplified representation of the components used within a wiring harness. These include cable, PCB connectors, and inline connectors."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149A**   *SC* **149A.3**   *P* **189**   *L* **31**   # 76

Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*

unnecessary comma

SuggestedRemedy

Change: simplified representation of the components, that are used
To: simplified representation of the components that are used

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149A**   *SC* **149A.3**   *P* **189**   *L* **32**   # 132

Shariff, Masood   CommScope

Comment Type **ER**   *Comment Status* **D**   *EZ*

Incomplete and ambiguous statement

SuggestedRemedy

From: This also ensures that connectors and cable are matched in terms of balance and shielding, in order to reach sufficient coupling and screening attenuation. To: This also ensures that connectors and cable are matched in terms of balance and shielding, in order to reach sufficient accuracy to measure coupling and screening attenuation.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149A**   *SC* **149A.5**   *P* **192**   *L* **2**   # 32

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

The annex title is quoted in four places in the PICS and each should match the actual annex title.

SuggestedRemedy

In the title of 149A.5, the first sentence of 149A.5.1, the top row of the table in 149A.5.2.2, and the title of 149A.5.4 change:
"Coupling attenuation test methodology" to:
"Coupling and screening attenuation test methodology"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149A**   *SC* **149A.5.4**   *P* **194**   *L* **4**   # 1

Hajduczenia, Marek   Charter Communications

Comment Type **E**   *Comment Status* **D**   *EZ*

Text of column Feature seems to be a few points larger than the other columns in the same table.

SuggestedRemedy

Please align the font size

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 **149A**
SC **149A.5.4**

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Cl **149A**   *SC* **149A.5.4**   *P* **195**   *L* **1**   # 33

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*

Recent standards published by IEEE (and the 802.3 template) do not force each Clause to start on even or odd pages, so there should be no blank pages between clauses.

SuggestedRemedy

Remove the blank pages between clauses

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149B**   *SC* **149B.1**   *P* **196**   *L* **12**   # 181

Baggett, Tim   Microchip

Comment Type **E**   *Comment Status* **D**   *EZ*

Mispelling: "MutliGBase-T1"
Occurs also on line 46

SuggestedRemedy

Search document for "MutliGBASE" anre replace with "MultiGBASE"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149B**   *SC* **149B.1**   *P* **196**   *L* **17**   # 283

Souvignier, Tom   Broadcom

Comment Type **ER**   *Comment Status* **D**   *EZ*

There is a typo on line 17.

SuggestedRemedy

Change from "…is loaded to 3.2318 and 3.23.19 for transmission…"
To ""…is loaded to 3.2318 and 3.2319 for transmission…"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149B**   *SC* **149B.1**   *P* **196**   *L* **18**   # 284

Souvignier, Tom   Broadcom

Comment Type **ER**   *Comment Status* **D**   *EZ*

There is a typo on line 18.

SuggestedRemedy

Change from "…is read from 3.2320 and 3.23.21…"
To "…is read from 3.2320 and 3.2321…"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149B**   *SC* **149B.2.7**   *P* **197**   *L* **49**   # 182

Baggett, Tim   Microchip

Comment Type **E**   *Comment Status* **D**   *EZ*

REC hasn't been defined yet before this section, and would benefit from being defined in parenthesis.

SuggestedRemedy

Change:
"REC in OAM<13:12><7:0>"
To:
"REC (Receive Error Counter) in OAM<13:12><7:0>"

Or: add a line referring the reader to section 149B.2.9

Also on Page 198, Line 4

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **149B**   *SC* **149B.3.2.3**   *P* **199**   *L* **26**   # 183

Baggett, Tim   Microchip

Comment Type **E**   *Comment Status* **D**   *EZ*

Section heading "149B.3.2.3 State Diagrams" is orphaned from the diagrams it contains. Move to the next page.

SuggestedRemedy

Move heading "149B.3.2.3 State Diagrams" to top of page 200 with diagrams 149B-2 and 149B-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* **149B**   Page 30 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **149B.3.2.3**   7/6/2019 1:07:07 PM
SORT ORDER: Clause, Subclause, page, line