Cl **00**　　　*SC* **FM**　　　　*P* **3**　　　*L* **3**　　　# 586
Healey, Adam　　　　　　　　　Broadcom Inc.

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

The abstract is inconsistent with the title of the amendment. This inconsistency is also present on the title page (page 1, line 34) and on page 23, line 13.

SuggestedRemedy

Change ".on single balanced pair copper cabling." to "over a single balanced pair of conductors." Correct similar inconsistencies throughout the draft.

Proposed Response　　　*Response Status*　**W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 586. Resolve with 363, 606, and 426.

Replace "on single balanced pair copper cabling" with "over a single balanced pair of conductors" on page 3, line 3

Replace "over Single Balanced Twisted-pair Cabling and Associated Power Delivery" with "and Associated Power Delivery over a Single Balanced Pair of Conductors" on page 23, line 10

See comments 425 and 447 for new text to replace the sentence on page 1, line 20

Cl **00**　　　*SC* **FM**　　　　*P* **3**　　　*L* **3**　　　# 587
Healey, Adam　　　　　　　　　Broadcom Inc.

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

It seems worthy to highlight that "Physical Layer Collision Avoidance (PLCA)" is defined in this amendment.

SuggestedRemedy

Consider adding "Physical Layer Collision Avoidance" and/or "PLCA" to the list of keywords.

Proposed Response　　　*Response Status*　**W**

PROPOSED ACCEPT IN PRINCIPLE.

Add ";PLCA; Physical Layer Collision Avoidance" to the list of keywords after Physical Medium Attachment

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Cl **00**　　　*SC* **FM**　　　　*P* **11**　　　*L* **33**　　　# 354
Yseboodt, Lennart　　　　　　　　　Signify

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

In the descriptive list of the amendments, the following is highlighted in yellow "x and its amendments", where only "x" should be highlighted.

Occurs on line 33, 39, and 47 of page 11.

SuggestedRemedy

Fix as appropriate.

Proposed Response　　　*Response Status*　**W**

PROPOSED ACCEPT IN PRINCIPLE.

Remove yellow highlighting from "z and its ammendments" on lines 33, 39, and 47 of page 11.

Replace "201x" with "2018" on lines 33, 39, and 47 of page 11.

Replace "IEEE Std 802.3btT-201x" with "IEEE Std 802.3btT-2018" on line 37 and remove yellow highlight.

Replace "IEEE Std 802.3cbT-201x" with "IEEE Std 802.3cbT-2018" on line on line 31 and remove yellow highlight.

Cl **00**　　　*SC* **FM**　　　　*P* **13**　　　*L* **56**　　　# 21
Anslow, Pete　　　　　　　　　Ciena

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

The variable copyright_year is set to 2017 in the TOC file

SuggestedRemedy

Set the variable copyright_year to 2018 in the TOC file

Proposed Response　　　*Response Status*　**W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general　　　*Cl* **00**　　Page 1 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected　　RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn　　*SC* **FM**　　8/29/2018 11:27:58 AM
SORT ORDER: Clause, Subclause, page, line

Cl **00**   *SC* **FM**   *P* **23**   *L* **1**   # 363
Trowbridge, Steve   Nokia

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

The title on page 23 does not match the title at the front of the draft. I think the title on page 1 is correct as the scope is no longer just twisted pair.

SuggestedRemedy

Change "Physical Layer Specifications and Management Parameters for 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associated Power Delivery" to "Physical Layer Specifications and Management Parameters for 10 Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 586. Resolve with 586, 426, and 606.

Replace "over Single Balanced Twisted-pair Cabling and Associated Power Delivery"

with "and Associated Power Delivery over a Single Balanced Pair of Conductors" on page 23, line 10

Cl **00**   *SC* **0**   *P*   *L*   # 664
Donahue, Curtis   UNH-IOL

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

There are many variants of Auto-Negotiation throughout the draft.

SuggestedRemedy

Scrub draft and change all variants of Auto-Negotiation to "Auto-Negotiation"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Globally search for "AutoNegotiation", "Auto Negotiation", "auto negotiation", and "Auto negotiation" and replace with "Auto-Negotiation".

Chief Editor to implement remedy when preparing the files for d2p1.

Cl **00**   *SC* **0**   *P*   *L*   # 62
Anslow, Pete   Ciena

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

Comment #10 against D1.0 of the 2008 revision:
http://www.ieee802.org/3/axay/comments/D1.0/802.3ay_D1p0.pdf
changed all instances of 'state machine' to 'state diagram' (except in deprecated text). This draft contains 48 instances of "state machine" and 77 instances of "state diagram"

SuggestedRemedy

Change all instances of 'state machine' to 'state diagram' throughout the draft.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **00**   *SC* **0**   *P*   *L*   # 518
Beruto, Piergiorgio   Canova Tech Srl

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

Timer done / not done events name in state diagrams are not inline with convenctions used in other clauses

SuggestedRemedy

Replace all occurrences of "XXX Done" with "XXX_done" (all lowercase) and similarly "!XXX Done" or "XXX not Done" with "XXX_done = FALSE" (all lowercase) throughout all the clauses. XXX is a placeholder for the timer name. NOTE: resolve this comment when all other comments are resolved already.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Jon Lewis to implement remedy when state diagrams in Clauses 147 and 148 are generated in FrameMaker.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **00**   Page 2 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **0**   8/29/2018 11:27:58 AM
SORT ORDER: Clause, Subclause, page, line

Cl **00**   *SC* **0**   *P* **0**   *L* **0**   # 633
Thompson, Geoff   GraCaSI S.A.

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

Draft does not have page numbers that show up on 100% magnification printout on 8.5X11 in paper. I am working from a printout (for cl. 147 at least) so my comments wont include a page number reference.

SuggestedRemedy

Have page numbers included in the draft page format that will show up on copies printed in default mode (i.e. 100%) on 8.5X11 paper.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Remove the extra paragraph mark between "subject to change" and the page number in both the odd and even master pages in all of the files in the draft.

Cl **00**   *SC* **0**   *P* **1**   *L* **34**   # 447
Booth, Brad   Microsoft

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

The PAR calls out "single balanced pair of conductors" but there are multiple instances where the term has been modified to be "single balanced twisted-pair". While twisted-pair cabling could be used, that is different than single balanced pair.

SuggestedRemedy

Make sure the use of "twisted-pair" applies to a medium used to support the PHY; otherwise, the use of the term is in conflict with the PAR.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 447. Resolve with 425.

Replace, "This amendment adds 10 Mb/s Physical Layer (PHY) specifications and management parameters associated optional provision of power, on single balanced twisted-pair copper cabling."

with, "This amendment adds 10 Mb/s Physical Layer (PHY) specifications and management parameters and associated optional provision of power for operation over a single balanced pair of conductors."

Cl **00**   *SC* **0**   *P* **23**   *L* **10**   # 606
Bains, Amrik   Cisco

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

"Single Balanced Twisted-pair Cabling"

SuggestedRemedy

"Single Balanced pair of Conductors"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 586. Resolve with 586, 426, and 363.

Replace "over Single Balanced Twisted-pair Cabling and Associated Power Delivery"

with "and Associated Power Delivery over a Single Balanced Pair of Conductors" on page 23, line 10

Cl **00**   *SC* **0**   *P* **34**   *L* **1**   # 44
Anslow, Pete   Ciena

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

Recent IEEE published amendments have not included any blank pages between sections and the IEEE 802.3 FrameMaker template was modified in this respect some time ago.

SuggestedRemedy

Remove blank pages between sections.

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 **00**
SC **0**

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8/29/2018 11:27:58 AM

Cl **00** *SC* **0** *P* **89** *L* **19** # 89
Anslow, Pete Ciena

Comment Type **E** *Comment Status* **D** *EZ*
IEEE uses an en-dash as a minus sign rather than a hyphen.

SuggestedRemedy
Scrub the draft for hyphens used as minus signs and replace them with en-dash (Ctrl-q Shft-p). This includes:
Page 89, line 19 "BI_DA-"
Page 92, line 7
Page 98, line 19
Page 104, line 31
Table 146-1 (many instances)
Table 146-2 (7 instances)
Table 146-3 (3 instances)
Figure 146-8 (2 instances of "Rxn-5")
Figure 146-9 (many instances of "Rxn-5")
Page 113, line 26 "BI_DA-"
Page 114, line 14 "BI_DA-"
Page 115, line 9 "BI_DA-"
Page 121, line 31 and line 35
Page 124, line 40, line 53
Page 125, line 17
Table 146-5 (4 instances)
Page 133, line 7 "BI_DA-", line 42 "BI_DA-"
Table 146-8 (2 instances of "BI_DA-")
Page 141, line 25, line 29
Page 143, line 35, line 39
Figure 147-9 (6 instances of "RXn-?")
Page 159, line 38 "BI_DA-"
Page 161, line 10 "BI_DA-"
Page 162, line 29
Page 165, line 29, line 31, line 32
Page 168, line 24 "BI_DA-"
Table 147-4 (2 instances of "BI_DA-")
Figure 148-7 (2 instances of "txdn-a")
Figure 146A-1 "RX-", "TX-"
Figure 146A-2 "RX-", "TX-"
Figure 146A-3 "RX-", "TX-"

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

Cl **00** *SC* **0** *P* **153** *L* **54** # 138
Anslow, Pete Ciena

Comment Type **E** *Comment Status* **D** *EZ*
There are 4 instances in the draft where "i.e. " should be "i.e., " (comma missing)

SuggestedRemedy
Change "i.e. " to "i.e., " in:
147.3.2.5 (page 153, line 54)
147.3.3.1 (page 154, line 22)
147.3.3.5 (page 155, line 38)
148.4.5.1 (page 180, line 40)

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

Cl **00** *SC* **A** *P* **195** *L* **1** # 127
Anslow, Pete Ciena

Comment Type **ER** *Comment Status* **D** *EZ*
Either add some bibliography entries or delete Annex A before going to Sponsor ballot.

SuggestedRemedy
Either add some bibliography entries or delete Annex A before going to Sponsor ballot.

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

Master comment 6. Resolve with 6 and 590.

Delete Annex A.

Cl **00** *SC* **A** *P* **195** *L* **1** # 6
Hajduczenia, Marek Charter

Comment Type **E** *Comment Status* **D** *EZ*
Annex A has no content

SuggestedRemedy
Remove Annex A unless explicitly needed

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

Master comment 6. Resolve with 127 and 590.

Delete Annex A.

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 **00**
SC **A**

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8/29/2018 11:27:58 AM

Cl **00** *SC* **A** *P* **195** *L* **12** # 590
Healey, Adam Broadcom Inc.

Comment Type **T** *Comment Status* **D** *EZ*
Bibliography entry "[B22a]" is not cited in the document and it seems unlikely to have the title "Name-Title".

SuggestedRemedy
Remove amendments to Annex A or list any informative references cited in the draft.

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

Master comment 6. Resolve with 6 and 127.

Delete Annex A.

Cl **00** *SC* **cover page** *P* **1** *L* **34** # 425
Wienckowski, Natalie General Motors

Comment Type **E** *Comment Status* **D** *EZ*
still have twisted-pair

SuggestedRemedy
Change "single balanced twisted-pair copper cabling" to "single balanced pair of conductors".

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

Master comment 447. Resolve with 447

Replace, "This amendment adds 10 Mb/s Physical Layer (PHY) specifications and management parameters associated optional provision of power, on single balanced twisted-pair copper cabling."

with, "This amendment adds 10 Mb/s Physical Layer (PHY) specifications and management parameters and associated optional provision of power for operation over a single balanced pair of conductors."

Cl **00** *SC* **Keywords** *P* **3** *L* **4** # 156
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type **E** *Comment Status* **D** *EZ*
[EASY] 10BASE-T1; .; MASTER-SLAVE

SuggestedRemedy
10BASE-T1L; 10BASE-T1S; .; Master-Slave

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

Replace "10BASE-T1" with "10BASE-T1L; 10BASE-T1S" on line 4.

Cl **01** *SC* **1** *P* **23** *L* **13** # 426
Wienckowski, Natalie General Motors

Comment Type **E** *Comment Status* **X** *EZ*
still have twisted-pair

SuggestedRemedy
Change "single balanced twisted-pair cabling" to "single balanced pair of conductors".

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

Master comment 586. Resolve with 586, 363, and 606.

Replace "over Single Balanced Twisted-pair Cabling and Associated Power Delivery"

with "and Associated Power Delivery over a Single Balanced Pair of Conductors" on page 23, line 10

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general *Cl* **01** Page 5 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn *SC* **1** 8/29/2018 11:27:58 AM
SORT ORDER: Clause, Subclause, page, line

Cl **01**   *SC* **1.3**   *P* **24**   *L* **3**   # 588

Healey, Adam   Broadcom Inc.

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

This amendment appears to add no new normative references.

SuggestedRemedy

Remove 1.3, or list the normative references added by this amendment.

Proposed Response   *Response Status*   **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 588. Resolve with 22.

Chief Editor to submit Maintenance Request to add references to IEC 60068-2-1:2007, IEC 60068-2-27:2008, IEC 60068-2-30:2005, IEC 60068-2-38:2009, IEC 60068-2-52:2017, IEC 60068-2-64:2008, and IEC 60068-2-78:2012 to next edition of 802.3.

Add the following normative references starting at line 9:

IEC 60068-2-2:2007, Environmental testing - Part 2-2: Tests - Test B: Dry heat.

IEC 60068-2-6:2007, Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal).

IEC 60068-2-14:2009, Environmental testing - Part 2-14: Tests - Test N: Change of temperature.

IEC 60068-2-27:2008, Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock.

IEC 60068-2-31:2008, Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens.

IEC 60079-0: 2014, Explosive atmospheres. Part 1. Equipment protection by flameproof enclosures.

IEC 60079-11: 2011, Explosive Atmospheres - Part 11: Equipment protection by intrinsic safety.

IEC 60529:2013, Degrees of Protection Provided by Enclosures (IP Code).

IEC 61000-4-4:2012, Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test.

IEC 61000-4-5: 2017, Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test.

IEC 61000-4-6:2013, Electromagnetic compatibility (EMC) - Part 4-6: Testing and

measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields.

IEC 61000-6-4:2018,Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments.

IEC 61010-1:2017, Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements.

IEC 61156-13:201x, Multicore and symmetrical pair/quad cables for digital communications - Part 13: Symmetrical single pair cables with transmission characteristics up to 20 MHz - Horizontal floor wiring - Sectional specification.

IEC 62368-1:2014, Audio/video, information and communication technology equipment - Part 1: Safety requirements.

ISO 4892:1982, Plastics - Methods of exposure to laboratory light.

Insert the following Editor's note after IEC 61156-13:201x, Editor's Note (to be removed prior to publication): IEC NP 61156-13 is still in development and the specification reference will likely change prior to publication. The references will be considered for inclusion in the draft based on Task Force review of relevancy
prior to publication.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **01**   Page 6 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **1.3**   8/29/2018 11:27:58 AM
SORT ORDER: Clause, Subclause, page, line

Cl **01** *SC* **1.3** *P* **24** *L* **5** # 22

Anslow, Pete Ciena

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

There are references in the draft that are not already in the base standard that should be added here. For example: IEC 62368-1 is referenced on page 133, line 52.

SuggestedRemedy

Scrub the draft for references that are not already in the base standard and add them to 1.3

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 588. Resolve with 588.

Chief Editor to submit Maintenance Request to add references to IEC 60068-2-1:2007, IEC 60068-2-27:2008, IEC 60068-2-30:2005, IEC 60068-2-38:2009, IEC 60068-2-52:2017, IEC 60068-2-64:2008, and IEC 60068-2-78:2012 to next edition of 802.3.

Add the following normative references starting at line 9:

IEC 60068-2-2:2007, Environmental testing - Part 2-2: Tests - Test B: Dry heat.

IEC 60068-2-6:2007, Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal).

IEC 60068-2-14:2009, Environmental testing - Part 2-14: Tests - Test N: Change of temperature.

IEC 60068-2-27:2008, Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock.

IEC 60068-2-31:2008, Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens.

IEC 60079-0: 2014, Explosive atmospheres. Part 1. Equipment protection by flameproof enclosures.

IEC 60079-11: 2011, Explosive Atmospheres - Part 11: Equipment protection by intrinsic safety.

IEC 60529:2013, Degrees of Protection Provided by Enclosures (IP Code).

IEC 61000-4-4:2012, Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test.

IEC 61000-4-5: 2017, Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test.

IEC 61000-4-6:2013, Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields.

IEC 61000-6-4:2018,Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments.

IEC 61010-1:2017, Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements.

IEC 61156-13:201x, Multicore and symmetrical pair/quad cables for digital communications - Part 13: Symmetrical single pair cables with transmission characteristics up to 20 MHz - Horizontal floor wiring - Sectional specification.

IEC 62368-1:2014, Audio/video, information and communication technology equipment - Part 1: Safety requirements.

ISO 4892:1982, Plastics - Methods of exposure to laboratory light.

Insert the following Editor's note after IEC 61156-13:201x, Editor's Note (to be removed prior to publication): IEC NP 61156-13 is still in development and the specification reference will likely change prior to publication. The references will be considered for inclusion in the draft based on Task Force review of relevancy prior to publication.

Cl **01** *SC* **1.4** *P* **24** *L* **12** # 23

Anslow, Pete Ciena

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

The definition numbering has been changed in the revision project. Also, P802.3bt D3.7 is deleting the definition for IPort (1.4.294), which affects the numbering for PLCA

SuggestedRemedy

Change the editing instruction on line 12 to:
"Insert the 10BASE-T1L and 10BASE-T1S definitions into the list after 1.4.50 10BASE-T as follows:"
re-number the definitions for 10BASE-T1L and 10BASE-T1S to be 1.4.50a and 1.4.50b, respectively.
Change the editing instruction on line 20 to:
"Insert the Physical Layer Collision Avoidance (PLCA) definition into the list after 1.4.389 physical header subframe (PHS) (re-numbered from 1.4.390 due to the deletion of 1.4.294 by IEEE Std 802.3bt-201x) as follows:"
re-number the definition for PLCA to be 1.4.389a

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general *Cl* **01** Page 7 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn *SC* **1.4** 8/29/2018 11:27:58 AM
SORT ORDER: Clause, Subclause, page, line

Cl **01**	*SC* **1.4.13a**	*P* **24**	*L* **15**	# 427

Wienckowski, Natalie   General Motors

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

still have twisted-pair

SuggestedRemedy

Change "single balanced twisted-pair cabling" to "single balanced pair of conductors".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 427. Resolve with 700.

Change, "over single balanced twisted-pair cabling" to "over a single balanced pair of conductors"

Cl **01**	*SC* **1.4.13a**	*P* **24**	*L* **15**	# 700

Kabra, Lokesh   Synopsys Inc

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

Correct "balanced twisted-pair cabling up to at least 1 000 m reach."

SuggestedRemedy

balanced pair of conductors up to at least 1000 m reach

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 427. Resolve with 427.

Change, "over single balanced twisted-pair cabling" to "over a single balanced pair of conductors"

Cl **01**	*SC* **1.5**	*P* **24**	*L* **32**	# 266

KIM, YONG   NIO

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

At least I see FSM as a missing abbrivation (Fig 148-3). Please add and find other missing abbrivation and add them.

SuggestedRemedy

please fix them.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Add the following before PLCA abbreviation in clause 1.5:

FSM Finite State Machine

Cl **22**	*SC* **22**	*P* **27**	*L* **1**	# 608

Bains, Amrik   Cisco

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

22.3 section is wrong

SuggestedRemedy

22.8

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 608. Resolve with 27.

Change "22.3" to "22.8" on line 1 and renumber all subclauses accordingly.

Cl **22**	*SC* **22**	*P* **28**	*L* **4**	# 609

Bains, Amrik   Cisco

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

Empty tables

SuggestedRemedy

Add information to tables

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 334. Resolve with 334, 631, 452, 8, 30, and 299.

Implement resolution to comment #28 and then Chief Editor to work with Curtis Donahue to identify and enter PICS.

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 **22**
SC **22**

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8/29/2018 11:27:59 AM

Cl **22** *SC* **22.2.2.4** *P* **25** *L* **9** # 24

Anslow, Pete   Ciena

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

The editing instruction says "Insert new third and fourth paragraphs after existing second paragraph in 22.2.4 as follows:" but this is a change to the second paragraph.

SuggestedRemedy

Change the editing instruction on line 10 to:
 "Change the second paragraph in 22.2.4 as follows:"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 24. Resolve with 157 and 702.

Replace, "Insert new third and fourth paragraphs after the second paragraph in 22.2.4 as follows:"

with, "Change the second paragraph in 22.2.2.4 as follows:"

Cl **22** *SC* **22.2.2.4** *P* **25** *L* **10** # 157

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] Insert new third and fourth paragraphs after existing second paragraph in 22.2.4 as follows:

SuggestedRemedy

Modify the second paragraph in 22.2.2.4 as follows: (the text is already in the second paragraph, Clause is 22.2.2.4 instead of 22.2.4)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 24. Resolve with 24 and 702.

Replace, "Insert new third and fourth paragraphs after the second paragraph in 22.2.4 as follows:"

with, "Change the second paragraph in 22.2.2.4 as follows:"

Cl **22** *SC* **22.2.2.4** *P* **25** *L* **10** # 702

Kabra, Lokesh   Synopsys Inc

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

Change the instruction "Insert new third and fourth paragraphs after existing second paragraph in 22.2.4 as follows:"

SuggestedRemedy

Change second paragraph in 22.2.2.4 as follows

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 24. Resolve with 24 and 157.

Replace, "Insert new third and fourth paragraphs after the second paragraph in 22.2.4 as follows:"

with, "Change the second paragraph in 22.2.2.4 as follows:"

Cl **22** *SC* **22.2.2.4** *P* **25** *L* **15** # 158

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] Insert new third and fourth paragraphs after the second paragraph in 22.2.4 as follows:

SuggestedRemedy

Insert a new third and fourth paragraph after the second paragraph in 22.2.2.4 as follows: (add "a", remove "s" from paragraphs and correct Clause reference)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace "22.2.4" with "22.2.2.4" on line 9.

Editor's note: Change to line 16 addressed by comment 24.

Cl **22** *SC* **22.2.2.4** *P* **25** *L* **25** # 159

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] :.

SuggestedRemedy

Remove "." after ":" at the end of the line.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general *Cl* **22** Page 9 of 76

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn *SC* **22.2.2.4** 8/29/2018 11:27:59 AM

SORT ORDER: Clause, Subclause, page, line

Cl **22**   *SC* **22.2.2.5**   *P* **25**   *L* **44**   # 25
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
The editing instruction says "Change the second paragraph in 22.2.5 as follows:" but this is
22.2.2.5.
Similar issue with:
page 25, line 43, "22.2.5" should be "22.2.2.5"
page 26, line 3, "22.2.8" should be "22.2.2.8"
page 26, line 30, "22.2.11" should be "22.2.2.11"
page 26, line 40, "22.2.12" should be "22.2.2.12"

SuggestedRemedy
In the editing instructions on:
page 25, line 43, change "22.2.5" to "22.2.2.5"
page 26, line 3, change "22.2.8" to "22.2.2.8"
page 26, line 30, change "22.2.11" to "22.2.2.11"
page 26, line 40, change "22.2.12" to "22.2.2.12"

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

Master comment 25. Resolve with 160, 161, 163, and 164.

Cl **22**   *SC* **22.2.2.5**   *P* **25**   *L* **44**   # 160
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] 22.2.5

SuggestedRemedy
22.2.2.5 (correct Clause reference)

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

Master comment 25. Consider with comment 25.

Cl **22**   *SC* **22.2.2.8**   *P* **26**   *L* **3**   # 161
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] 22.2.8

SuggestedRemedy
22.2.2.8 (correct Clause reference)

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

Master comment 25. Consider with comment 25.

Cl **22**   *SC* **22.2.2.8**   *P* **26**   *L* **10**   # 26
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
The editing instruction says "... Table 22-1 ..." but this is Table 22-2.

SuggestedRemedy
In the editing instruction, change "... Table 22-1 ..." to "... Table 22-2 .".

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

Master comment 26. Resolve with 162.

Change "Table 22-1" to "Table 22-2" in editing instruction.

Cl **22**   *SC* **22.2.2.8**   *P* **26**   *L* **10**   # 162
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] Table 22-1

SuggestedRemedy
Table 22-2 (see table below)

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

Master comment 26. Resolve with 26.

Change "Table 22-1" to "Table 22-2" in editing instruction.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **22**   Page 10 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **22.2.2.8**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **22**   *SC* **22.2.2.11**   *P* **26**   *L* **30**   # 163
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] 22.2.11

SuggestedRemedy
22.2.2.11 (correct Clause reference)

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

Master comment 25. Consider with comment 25.

Cl **22**   *SC* **22.2.2.12**   *P* **26**   *L* **39**   # 164
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] 22.2.12

SuggestedRemedy
22.2.2.12 (correct Clause reference)

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

Master comment 25. Consider with comment 25.

Cl **22**   *SC* **22.3**   *P* **27**   *L* **1**   # 631
Walker, Dylan   Cisco

Comment Type **TR**   *Comment Status* **D**   *EZ*
The PICS in sub-clause 22.3 are empty.

SuggestedRemedy
Populate the PICS entries.

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

Master comment 334. Resolve with 334, 452, 8, 30, 609, and 299.

Implement resolution to comment #28 and then Chief Editor to work with Curtis Donahue to identify and enter PICS.

Cl **22**   *SC* **22.3**   *P* **27**   *L* **1**   # 452
Jones, Peter   Cisco

Comment Type **TR**   *Comment Status* **D**   *EZ*
22.3 PICS is a place holder

SuggestedRemedy
Complete this section as edit instructions from 22.8 (802.3-2015) considering text changes

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

Master comment 334. Resolve with 334, 631, 30, 609, and 299.

Implement resolution to comment #28 and then Chief Editor to work with Curtis Donahue to identify and enter PICS.

Editor's note: Clause numbering corrected by comment 608.

Cl **22**   *SC* **22.3**   *P* **27**   *L* **1**   # 334
Yseboodt, Lennart   Signify

Comment Type **ER**   *Comment Status* **D**   *EZ*
Three empty PICS tables are shown in 22.3.3, 22.3.4.1, and 22.3.4.2.

SuggestedRemedy
Either add the required changed PICS elements or remove 22.3 if no changes are needed to the PICS.

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

Master comment 334. Resolve with 631, 452, 8, 30, 609, and 299.

Implement resolution to comment #28 and then Chief Editor to work with Curtis Donahue to identify and enter PICS.

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 **22**
SC **22.3**

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8/29/2018 11:27:59 AM

Cl **22**　　　*SC* **22.3**　　　　　　*P* **27**　　　*L* **1**　　　　# 27

Anslow, Pete　　　　　　　　　　　Ciena

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

The PICS for Clause 22 is in 22.8 not 22.3

SuggestedRemedy

Force the numbering of the level 2 heading for the PICS to be 22.8 and this should renumber all of the following subclauses.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 608. Resolve with 27.

Change "22.3" to "22.8" on line 1 and renumber all subclauses accordingly

---

Cl **22**　　　*SC* **22.3.2.1**　　　　*P* **27**　　　*L* **20**　　　# 28

Anslow, Pete　　　　　　　　　　　Ciena

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

The table in 22.3.2.1 (should be 22.8.2.1) does not match the table in the base standard. The spelling of enquiries has changed to inquiries, the notes are different, etc.

SuggestedRemedy

Replace the table with the version from the base standard.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace the existing first column headers and the notes with the first column headers and the notes from the base standard.

Editor's note: Clause numbering corrected by comment 608.

Cl **22**　　　*SC* **22.3.2.2**　　　　*P* **27**　　　*L* **35**　　　# 662

Thompson, Geoff　　　　　　　　　GraCaSI S.A.

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

The text: "IEEE Std 802.3xx-201x, Clause..." is not up to date.

SuggestedRemedy

Change to read: "IEEE Std 802.3cg-201x, Clause..." in this instance and all equivalents throughout the draft.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 29. Resolve with 662.

Change "IEEE Std 802.3xx-201x" to "IEEE Std 802.3cg-201x" in two places in clause 22.3.2.2.

Cl **22**　　　*SC* **22.3.2.2**　　　　*P* **27**　　　*L* **35**　　　# 29

Anslow, Pete　　　　　　　　　　　Ciena

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

In the table in 22.3.2.2 (should be 22.8.2.2) "IEEE Std 802.3xx-201x" should be "IEEE Std 802.3cg-201x" in two places.

SuggestedRemedy

Change "IEEE Std 802.3xx-201x" to "IEEE Std 802.3cg-201x" in two places.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Master comment 29. Resolve with 662.

Cl **22**　　　*SC* **22.3.3**　　　　　*P* **28**　　　*L*　　　　# 299

KIM, YONG　　　　　　　　　　　NIO

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

PICs tables are blank.　Draft is not complete.

SuggestedRemedy

Please complete the PICS table.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 334. Resolve with 334, 631, 452, 8, 30, and 609.

Implement resolution to comment #28 and then Chief Editor to work with Curtis Donahue to identify and enter PICS.

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 **22**
SC **22.3.3**

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8/29/2018 11:27:59 AM

Cl **22** *SC* **22.3.3**   *P* **28** *L* **1**   # 8

Hajduczenia, Marek   Charter

Comment Type **ER** *Comment Status* **X**   *EZ*

Missing PICS content. Multiple SHALL statements were added to text in Clause 22, but PICS are missing.

SuggestedRemedy

Per comment. Applicable to 22.3.3, 22.3.4.1, 22.3.4.2

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 334. Resolve with 334, 631, 452, 30, 609, and 299.

Implement resolution to comment #28 and then Chief Editor to work with Curtis Donahue to identify and enter PICS.

Cl **22** *SC* **22.3.3**   *P* **28** *L* **1**   # 30

Anslow, Pete   Ciena

Comment Type **ER** *Comment Status* **X**   *EZ*

With a blank placeholder for changes to the Clause 22 PICS, this draft is not ready to move to Sponsor ballot, hence this is a required comment.

SuggestedRemedy

Either remove this PICS section from the draft or populate it with changes.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 334. Resolve with 334, 631, 452, 8, 609, and 299.

Implement resolution to comment #28 and then Chief Editor to work with Curtis Donahue to identify and enter PICS.

Cl **30** *SC* **30.2.1**   *P* **29** *L* **6**   # 31

Anslow, Pete   Ciena

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

Containment is 30.2.3

SuggestedRemedy

Change heading to "30.2.3 Containment"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **30** *SC* **30.2.1**   *P* **29** *L* **8**   # 10

Hajduczenia, Marek   Charter

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

Unclear set of changes to Figure 30-3

SuggestedRemedy

Figure is being wholesale replaced; it would be great to have a hint what has been changed - either describe it in the editorial instruction / note, or alternatively draw a red box around what has been changed.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change editing instruction to read: "Replace Figure 30-3 to add oPLCA as follows:"

Cl **30** *SC* **30.2.1**   *P* **30** *L* **8**   # 433

Wienckowski, Natalie   General Motors

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

OAM 30.3.3 box was not removed from Figure 30-3

SuggestedRemedy

Remove OAM box from Figure 30-3.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Editor's note: Jon Lewis to implement.

Cl **30** *SC* **30.2.1**   *P* **30** *L* **25**   # 9

Hajduczenia, Marek   Charter

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

Extra symbol in oResourceTypeID block. Extra full stop in oEXTENSION block

SuggestedRemedy

Remove garbage from referenced blocks

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 9. Resolve with 453 and 300.

Delete extra symbol in oResourceTypeID block. Delete extra full stop in oEXTENSION block.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general *Cl* **30** Page 13 of 76

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn *SC* **30.2.1** 8/29/2018 11:27:59 AM

SORT ORDER: Clause, Subclause, page, line

Cl **30**	*SC* **30.2.1**	*P* **30**	*L* **25**	# 453

Jones, Peter   Cisco

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

What's the | underneath oResourceTypeID

SuggestedRemedy

Remove

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 9. Resolve with 9 and 300.

Delete extra symbol in oResourceTypeID block. Delete extra full stop in oEXTENSION block.

Cl **30**	*SC* **30.2.1**	*P* **30**	*L* **26**	# 300

KIM, YONG   NIO

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

oResourceTypeID has erronous character that resembles block graphic rectangle.

SuggestedRemedy

Please delete the charactyer.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Master comment 9. Resolve with 9 and 453.

Delete extra symbol in oResourceTypeID block. Delete extra full stop in oEXTENSION block.

Cl **30**	*SC* **30.2.1**	*P* **30**	*L* **51**	# 454

Jones, Peter   Cisco

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

why isn't PLCA green like the others

SuggestedRemedy

fix if needed

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Format text "30.3.9" under oPLCA on line 26 as an external reference (should be green).

Cl **30**	*SC* **30.3.2.1.2**	*P* **31**	*L* **9**	# 33

Anslow, Pete   Ciena

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

Editing instructions should be explicit as to where the editing should be performed.

SuggestedRemedy

Change the editing instruction to:
"Insert the following new entries in the APPROPRIATE SYNTAX section of 30.3.2.1.2 after the entry for "10 Mb/s":"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **30**	*SC* **30.3.3**	*P* **31**	*L* **14**	# 34

Anslow, Pete   Ciena

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

After 30.3.2.1.2, there is a heading for 30.3.3, but there are no changes in 30.3.3, so this heading is not needed.

SuggestedRemedy

Remove the heading for 30.3.3

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **30**	*SC* **30.3.9**	*P* **31**	*L* **15**	# 35

Anslow, Pete   Ciena

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

The editing instruction lists several subclauses to be added, but misses some more out.

SuggestedRemedy

Change the editing instruction to:
"Insert 30.3.9 (and its subclauses) after 30.3.8 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   *Cl* **30**   Page 14 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **30.3.9**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **30**   *SC* **30.3.9**   *P* **31**   *L* **19**   # 36

Anslow, Pete   Ciena

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

The 802.3 web page:
http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html#mib
says: "In IEEE Std 802.3 the spelling 'behaviour' is used throughout MIB clauses and their
associated Annexes, and in any references to the behaviours defined there."

SuggestedRemedy

Change "behaviors" to "behaviours" on line 20
Change "behavior" to "behaviour" on lines 34 and 48

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **30**   *SC* **30.3.9.1.1**   *P* **31**   *L* **28**   # 591

Healey, Adam   Broadcom Inc.

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

The style of the appropriate syntax definition is inconsistent with the base standard.

SuggestedRemedy

List the enumerations for aPLCAAdminState in the same style as e.g., 30.3.2.1.7
aPhyAdminState. Make similar style changes in 30.3.9.2.2.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Apply the formating for the enumerations in 30.3.2.1.7 of 802.3-2018 to the enumerations
in 30.3.9.1.1 and 30.3.9.2.2.

Cl **30**   *SC* **30.3.9.1.1**   *P* **31**   *L* **32**   # 37

Anslow, Pete   Ciena

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

In 30.3.9.1.1 "Clause 22" and "Clause 148" should be cross-references.
In 30.3.9.2.1 "Clause 148" and "Clause 147" should be cross-references.
In 30.3.9.2.2 "Clause 147" should be a cross-reference.

SuggestedRemedy

In 30.3.9.1.1 make "Clause 22" and "Clause 148" cross-references.
In 30.3.9.2.1 make "Clause 148" and "Clause 147" cross-references.
In 30.3.9.2.2 make "Clause 147" a cross-reference.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **30**   *SC* **30.3.9.1.1**   *P* **31**   *L* **33**   # 593

Healey, Adam   Broadcom Inc.

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

"Clause 22" and "Clause 148" should be active cross-references.

SuggestedRemedy

This issue seems to exist for most, if not all, definitions of PLCA attributes. Make
references to clauses contained in the amendment into active cross-references. Highlight
references to clauses outside of the amendment in the "external cross-reference" style.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 593. Resolve with 455.

Make "Clause 22" (line 32) and "Clause 148" (line 34) active cross-references.

Seach for Clause 22 and Clause 148 and ensure that they are active cross-references.

Cl **30**   *SC* **30.3.9.1.1**   *P* **31**   *L* **34**   # 165

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] .;

SuggestedRemedy

Remove ";" after "." at the end of the line.

Proposed Response   *Response Status* **W**

PROPOSED REJECT.

";." at the end of the last enumeration is the correct formating style. See clause 30.3.8 of
the 802.3-2018 document for examples.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **30**   Page 15 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **30.3.9.1.1**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **30**	*SC* **30.3.9.2**	*P* **31**	*L* **37**	#	455

Jones, Peter   Cisco

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

All BEHAVIOUR DEFINED descriptions should have cross references added

SuggestedRemedy

Add them

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 593. Resolve with 593.

Make "Clause 22" (line 32) and "Clause 148" (line 34) active cross-references.

Cl **30**	*SC* **30.3.9.2.1**	*P* **31**	*L* **50**	#	166

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] ;

SuggestedRemedy

. (replace ";" by "." at the end of the sentence)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 355. Resolve with 355.

Replace ";" with ".;"

Cl **30**	*SC* **30.3.9.2.1**	*P* **31**	*L* **49**	#	595

Healey, Adam   Broadcom Inc.

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

It seems that ". Clause 147 PLCA ." should be ". Clause 148 PLCA ." since it is Clause 148 that defines PLCA.

SuggestedRemedy

Change the reference and make it into an active cross-reference.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 595. Resolve with 308.

Replace "Clause 147 PLCA" with "Clause 148 PLCA" and add a cross-reference to clause 148.

Cl **30**	*SC* **30.3.9.2.2**	*P* **31**	*L* **52**	#	308

KIM, YONG   NIO

Comment Type **TR**   *Comment Status* **X**   *EZ*

"Sublayer provided the PHY implements and enables optional Clause 147 PLCA " is not right. PLCA is an optional component to RS as proposed, and is NOT a part of PHY

SuggestedRemedy

Please reference correct layers

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 595. Resolve with 595.

Replace "Clause 147 PLCA" with "Clause 148 PLCA" and add a cross-reference to clause 148.

Cl **30**	*SC* **30.3.9.2.1**	*P* **31**	*L* **49**	#	355

Yseboodt, Lennart   Signify

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

Period missing after sentence on line 49.

SuggestedRemedy

Add period.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 355. Resolve with 166.

Replace ";" with ".;"

Cl **30**	*SC* **30.3.9.2.2**	*P* **32**	*L* **5**	#	39

Anslow, Pete   Ciena

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

"acPLCAReset" should not be allowed to split across two lines.

SuggestedRemedy

Place the cursor in the word, then Esc n s (separate key presses)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Remove hyphention from "acPLCAReset"

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 **30**

SC **30.3.9.2.2**

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Cl **30**   *SC* **30.3.9.2.2**   *P* **32**   *L* **9**   # 167
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **X**   *EZ*
  [EASY] .;

SuggestedRemedy
  Remove ";" after "." at the end of the line.

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

  ";." at the end of the last enumeration is the correct formating style. See clause 30.3.8 of
  the 802.3-2018 document for examples.

Cl **30**   *SC* **30.3.9.2.3**   *P* **32**   *L* **19**   # 456
Jones, Peter   Cisco

Comment Type **ER**   *Comment Status* **D**   *EZ*
  Replace "The value of aPLCAMaxID" with "This value"

SuggestedRemedy
  Make suggested change

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

  Replace, "The value of aPLCAMaxID"

  with, "The value"

Cl **30**   *SC* **30.3.9.2.4**   *P* **32**   *L* **30**   # 457
Jones, Peter   Cisco

Comment Type **TR**   *Comment Status* **D**   *EZ*
  Replace "The value of aPLCALocalNodeID" with "This value"

SuggestedRemedy
  Make suggested change

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

  PROPOSED ACCEPT IN PRINCIPLE.

  Replace, "The value of aPLCALocalNodeID"

  with, "The value"

Cl **30**   *SC* **30.3.9.2.5**   *P* **32**   *L* **41**   # 458
Jones, Peter   Cisco

Comment Type **TR**   *Comment Status* **D**   *EZ*
  Replace "The value of PLCATransmitOpportunityTimer" with "This value"

SuggestedRemedy
  Make suggested change

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

  Replace "The value of PLCATransmitOpportunityTimer"

  with "The value"

Cl **30**   *SC* **30.5.1.1.2**   *P* **33**   *L* **9**   # 445
Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*
  Editor instruction is wrong. The 10BASE PHYs should all be together in the list.

SuggestedRemedy
  Change the editor's instruction to be: Insert the following new entries in APPROPRIATE
  SYNTAX after the entry for "10PASS-TS".

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

  Master comment 41. Resolve with 41.

  Replace, "Insert the following new entries in APPROPRIATE SYNTAX after the entry for
  "1000BASE-T":"

  with, "Insert the following new entries in the APPROPRIATE SYNTAX section of 30.5.1.1.2
  after the entry for "10BASE-TS":"

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 **30**
SC **30.5.1.1.2**

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Cl **30**	*SC* **30.5.1.1.2**	*P* **33**	*L* **9**	# 41

Anslow, Pete   Ciena

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

Editing instructions should be explicit as to where the editing should be performed. Also, after 100BASE-T does not seem like an appropriate place to put 10 Mb/s entries.

SuggestedRemedy

Change the editing instruction to:
 "Insert the following new entries in the APPROPRIATE SYNTAX section of 30.5.1.1.2 after the entry for "10BASE-T":"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 41. Resolve with 445.

Replace, "Insert the following new entries in APPROPRIATE SYNTAX after the entry for "1000BASE-T":"

with, "Insert the following new entries in the APPROPRIATE SYNTAX section of 30.5.1.1.2 after the entry for "10BASE-TS":"

Cl **30**	*SC* **30.5.1.1.4**	*P* **33**	*L* **15**	# 42

Anslow, Pete   Ciena

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

Editing instructions should be explicit as to where the editing should be performed.

SuggestedRemedy

Change the editing instruction to:
 "Change the fourth sentence of the third paragraph of the BEHAVIOUR DEFINED AS section of 30.5.1.1.4 as follows:"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **30**	*SC* **30.6.1.1.5**	*P* **33**	*L* **28**	# 43

Anslow, Pete   Ciena

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

Editing instructions should be explicit as to where the editing should be performed.

SuggestedRemedy

Change the editing instruction to:
 "Insert the following new entries in the APPROPRIATE SYNTAX section of 30.6.1.1.5 after the entry for "10BASE-T":"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**	*SC* **45.2.1**	*P* **35**	*L* **11**	# 472

Jones, Peter   Cisco

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

Why is there a gap between PMA status and test mode control

SuggestedRemedy

Fix if needed

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 472. Consider with 471.

Move three addresses, starting with 10BASE-T1L test mode control, to 1.2296, 1.2297, and 1.2298. Change the reserved address from "1.2301 through 1.2302" to "1.2299 through 1.2302".

Cl **45**	*SC* **45.2.1**	*P* **35**	*L* **26**	# 471

Jones, Peter   Cisco

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

Table 45-3 - different style than 1.2296 and 1.2296. Be consistent

SuggestedRemedy

Fix style

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 472. Consider with 472.

Move three addresses, starting with 10BASE-T1L test mode control, to 1.2296, 1.2297, and 1.2298. Change the reserved address from "1.2301 through 1.2302" to "1.2299 through 1.2302".

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 **45.2.1**

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Cl **45**   *SC* **45.2.1.173**   *P* **35**   *L* **51**   # `45`
Anslow, Pete   Ciena

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

The heading for Register 1.2100 is now 45.2.1.185 in IEEE 802.3-2018 and the corresponding table is Table 45-149

SuggestedRemedy

Change the heading for Register 1.2100 to 45.2.1.185 and change Table 45-141 to Table 45-149 (and also the reference to it in the editing instruction).

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 424. Resolve with 424.

Replace, "45.2.1.173 BASE-T1" with "45.2.1.185 BASE-T1" on line 51.

Replace, "Change the row for 1.2100.3:0 in Table 45-141" with "Change the row for 1.2100.3:0 in Table 45-149" on line 53.

Replace, "Table 45-141-BASE-T1" with "Table 45-149-BASE-T1" on page 36, line 1.

Cl **45**   *SC* **45.2.1.173**   *P* **35**   *L* **52**   # `424`
Wienckowski, Natalie   General Motors

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

This is not the correct section based on P8023_D3p2.

SuggestedRemedy

Change to Section 45.2.1.185 and change Table 45-141 to 45-149.
Also change 45.2.1.174x and all subsections to 45.2.1.186x and change Tables 45-142x to Tablex 45-150x.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 424. Resolve with 45 and 47.

Replace, "45.2.1.173 BASE-T1" with "45.2.1.185 BASE-T1" on line 51.

Replace, "Change the row for 1.2100.3:0 in Table 45-141" with "Change the row for 1.2100.3:0 in Table 45-149" on line 53.

Replace, "Table 45-141-BASE-T1" with "Table 45-149-BASE-T1" on page 36, line 1.

Change the editing instruction on page 36, line 15 to "Insert 45.2.1.186a through 45.2.1.186f after 45.2.1.186 as follows:"

Change the inserted clauses from 45.2.1.174a through 45.2.1.174f to 45.2.1.186a through 45.2.1.186f

Change the inserted tables from Table 45-142a through Table 45-142f to Table 45-150a through Table 45-150f

---

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **45**   Page 19 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **45.2.1.173**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **45**   *SC* **45.2.1.174a**   *P* **36**   *L* **15**   # 47

Anslow, Pete   Ciena

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

The numbering in the editing instruction: "Insert 45.2.1.174a through 45.2.1.174h after 45.2.1.174 as follows:" does not match the numbering in the base standard and includes more subclauses than are in the current draft.
Also, the inserted Table numbers are not correct.

SuggestedRemedy

Change the editing instruction to: "Insert 45.2.1.186a through 45.2.1.186f after 45.2.1.186 as follows:"
Change the inserted tables from Table 45-142a through Table 45-142f to be Table 45-150a through Table 45-150f

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Master comment 424. Resolve with 424.

Change the editing instruction on page 36, line 15 to "Insert 45.2.1.186a through 45.2.1.186f after 45.2.1.186 as follows:"

Change the inserted clauses from 45.2.1.174a through 45.2.1.174f to 45.2.1.186a through 45.2.1.186f

Change the inserted tables from Table 45-142a through Table 45-142f to Table 45-150a through Table 45-150f

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Cl **45**   *SC* **45.2.1.174a.1**   *P* **36**   *L* **44**   # 335

Yseboodt, Lennart   Signify

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

"Resetting the 10BASE-T1L PMA/PMD is accomplished by setting bit 1.2294.15 to a one."

The draft mixes use of "set to one" and "set to a one", the same with zero.

Looking at the rest of 802.3, (which of course is inconsistent, what did you expect), use of "set to one" and "set to zero" is much more prevalent than "set to a one".

SuggestedRemedy

Double-check with Pete Anslow.

Replace throughout the draft:
"to a one" ==> "to one" [35 occurences]
"to a zero" ==> "to zero" [11 occurences]

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Globally search for "to a one" and replace with "to one". Globally search for "to a zero" and replace with "to zero".

Cl **45**   *SC* **45.2.1.174a.5**   *P* **37**   *L* **36**   # 168

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] . 10BASE-T1L PMD ...

SuggestedRemedy

Adapt the Font Size of "10BASE-T1L PMD" to the rest of the text in the note.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**   *SC* **45.2.1.174d**   *P* **40**   *L* **44**   # 707

Kabra, Lokesh   Synopsys Inc

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

net-work

SuggestedRemedy

network

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Remove breaking hypen.

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 **45.2.1.174d**

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Cl **45**	*SC* **45.2.1.174d.1**	*P* **41**	*L* **3**	# 356

Yseboodt, Lennart   Signify

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

"Resetting the 10BASE-T1S PMA/PMD is accomplished by setting bit 1.2299.15 to a one."

Change 'a one' to 'one'.

SuggestedRemedy

Replace by: "Resetting the 10BASE-T1S PMA/PMD is accomplished by setting bit 1.2299.15 to a one."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace, "by setting bit 1.2299.15 to a one" with, "by setting bit 1.2299.15 to one".

Cl **45**	*SC* **45.2.1.174d.5**	*P* **41**	*L* **53**	# 357

Yseboodt, Lennart   Signify

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

"The 10BASE-T1S PMA/PMD shall operate in multidrop mode over a mixing segment network when bit 1.2299.10 is set to a one."

SuggestedRemedy

Change "a one" to "one".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**	*SC* **45.2.3**	*P* **44**	*L*	# 146

Lewis, Jon   Dell EMC

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

remove the '1' in both register names: 10BASE-T1L PCS status 1 and 10BASE-T1S PCS status 1. We removed the second register and this is to clean up the names of the remaining registers.

SuggestedRemedy

Change to: 10BASE-T1L PCS status and 10BASE-T1S PCS status

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change to 10BASE-T1L PCS status on line 14 and 10BASE-T1S PCS status on line 21

Cl **45**	*SC* **45.2.3.58a**	*P* **44**	*L* **26**	# 48

Anslow, Pete   Ciena

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

The numbering in the editing instruction: "Insert 45.2.3.58a through 45.2.3.58i after 45.2.3.58 as follows:" does not match the numbering in the base standard and includes more subclauses than are in the current draft.
Also, the inserted Table numbers are not correct.

SuggestedRemedy

Change the editing instruction to: "Insert 45.2.3.68a through 45.2.3.68f after 45.2.3.68 as follows:"
Change the inserted tables from Table 45-220a through Table 45-220f to be Table 45-237a through Table 45-237f

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**	*SC* **45.2.3.58a**	*P* **44**	*L* **28**	# 435

Wienckowski, Natalie   General Motors

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

Assuming the registers are supposed to be in order, this is not the correct subsection.

SuggestedRemedy

Change 45.2.3.58x to 45.2.3.68x.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**	*SC* **45.2.3.58b**	*P* **45**	*L* **46**	# 171

Graber, Steffen   Pepperl+Fuchs GmbH

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

RO = Read only

SuggestedRemedy

RO = Read only, LH = Latching high, LL = Latching low (LH and LL definitions are missing)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace, "RO = Read only" with "RO = Read only, LH = Latching high, LL = Latching low"

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 **45.2.3.58b**

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Cl **45**   *SC* **45.2.3.58c**   *P* **47**   *L* **1**   # 49
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
In the title of 45.2.3.58c and the title of Table 45-220c "10BASET1S-PLCA" should be "10BASE-T1S PLCA"

SuggestedRemedy
In the title of 45.2.3.58c and the title of Table 45-220c, change "10BASET1S-PLCA" to "10BASE-T1S PLCA"

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

Cl **45**   *SC* **45.2.3.58c**   *P* **47**   *L* **27**   # 50
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
In the title of 45.2.3.58d and the title of Table 45-220d "10BASET1S-PLCA" should be "10BASE-T1S PLCA"

SuggestedRemedy
In the title of 45.2.3.58d and the title of Table 45-220d, change "10BASET1S-PLCA" to "10BASE-T1S PLCA"

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

Cl **45**   *SC* **45.5.3.3**   *P* **50**   *L* **8**   # 51
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
Most of page 50 is blank.

SuggestedRemedy
move the editing instruction and the start of the PICS table on to page 50.

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

Cl **45**   *SC* **45.5.3.3**   *P* **51**   *L* **1**   # 52
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
Editing instructions should be explicit as to where the editing should be performed.

SuggestedRemedy
Change the editing instruction to: "Insert PICS items MM152 through MM192 at the end of the table in 45.5.3.3 as follows:"

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

Cl **45**   *SC* **45.5.3.3**   *P* **51**   *L* **9**   # 172
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] othersie

SuggestedRemedy
otherwise

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

Replace, "othersie" with "otherwise"

Cl **45**   *SC* **45.5.3.3**   *P* **51**   *L* **37**   # 173
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] . disable the transmitter

SuggestedRemedy
. disables the transmitter (add "s" after disable)

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

Replace, "disable the transmitter" with "disables the transmitter"

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **45**   Page 22 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **45.5.3.3**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **45**	*SC* **45.5.3.3**	*P* **52**	*L* **10**	# 174

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
     [EASY] 1.2294.11

SuggestedRemedy
     1.2294.10 (EEE bit is 1.2294.10 instead of 1.2294.11)

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

     Replace, "1.2294.11" with "1.2294.10"

Cl **45**	*SC* **45.5.3.3**	*P* **52**	*L* **13**	# 175

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **X**   *EZ*
     [EASY] 1.2294.11

SuggestedRemedy
     1.2294.10 (EEE bit is 1.2294.10 instead of 1.2294.11)

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

     Replace, "1.2294.11" with "1.2294.10"

Cl **45**	*SC* **45.5.3.3**	*P* **52**	*L* **19**	# 176

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
     [EASY] othersie

SuggestedRemedy
     otherwise

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

     Replace, "othersie" with "otherwise"

Cl **45**	*SC* **45.5.3.3**	*P* **53**	*L* **6**	# 177

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
     [EASY] . disable the transmitter

SuggestedRemedy
     . disables the transmitter (add "s" after disable)

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

     Replace, "disable the transmitter" with "disables the transmitter"

Cl **45**	*SC* **45.5.3.3**	*P* **53**	*L* **18**	# 178

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
     [EASY] Setting either 1.2299.12 or 1.0.12 sets the other

SuggestedRemedy
     Setting either 1.2299.11 or 1.0.11 sets the other (Low Power Bit is 11 not 12)

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

     Replace: "Setting either 1.2299.12 or 1.0.12" with "Setting either 1.2299.11 or 1.0.11"

Cl **45**	*SC* **45.5.3.3**	*P* **53**	*L* **20**	# 179

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
     [EASY] Clearing either 1.2299.12 or 1.0.12 clears the other

SuggestedRemedy
     Clearing either 1.2299.11 or 1.0.11 clears the other (Low Power Bit is 11 not 12)

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

     Replace: "Clearing either 1.2299.12 or 1.0.12" with "Clearing either 1.2299.11 or 1.0.11"

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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Cl **45**	*SC* **45.5.3.7**	*P* **54**	*L* **3**	#	53

Anslow, Pete   Ciena

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

Editing instructions should be explicit as to where the editing should be performed.

SuggestedRemedy

Change the editing instruction to: "Insert PICS items RM158 through RM186 at the end of the table in 45.5.3.7 as follows:"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **45**	*SC* **45.5.3.7**	*P* **54**	*L* **17**	#	181

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] 3.2304.15

SuggestedRemedy

3.2278.15 (PCS Control Register of 10BASE-T1L)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace "3.2304.15" with "3.2278.15"

Cl **78**	*SC* **78.1.3.3.1**	*P* **57**	*L* **10**	#	431

Wienckowski, Natalie   General Motors

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

This is not the correct section based on P8023_D3p2.

SuggestedRemedy

Move "Table 78-1 - Clauses associated with each PHY or interface type" to section "78.1.4 PHY types optionally supporting EEE".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **78**	*SC* **78.1.3.3.1**	*P* **57**	*L* **20**	#	54

Anslow, Pete   Ciena

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

The order of entries in Table 78-1 was established via Comment #65 against P802.3cj D2.0. See:
http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID.pdf#page=14
According to these rules the order after insertion of the two new PHYs should be:
10BASE-T1S
10BASE-Te
10BASE-T1L
...

SuggestedRemedy

Change the editing instruction to:
"Insert a row for 10BASE-T1S at the top and a row for 10BASE-T1L after 10BASE-Te in Table 78-1 as follows (unchanged rows not shown):"
Change the excerpt from Table 78-1 to be:
"10BASE-T1S", "147"
ellipsis row
"10BASE-T1L", "146"
ellipsis row

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Cl **78**	*SC* **78.2**	*P* **57**	*L* **39**	#	55

Anslow, Pete   Ciena

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

The new row for 10BASE-T1L is being inserted into a table column that already contains numbers above 10 000. In this case according to the rules set out in:
http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html#numbers
any four digit numbers should contain a space as a thousands separator.

SuggestedRemedy

In Table 78-2 replace "2000" with "2 000" and replace "2100" with "2 100"

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 24 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **78.2**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **78**　　　*SC* **78.5**　　　　　　*P* **58**　　　*L* **3**　　　　# 1
Hajduczenia, Marek　　　　　　　　Charter

Comment Type **E**　　　*Comment Status* **D**　　　　　　　　　　　*EZ*
　　Extra full stop at the end of editorial note

SuggestedRemedy
　　Remove extra full stop

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

　　Delete "." after ":" on line 3.

Cl **98**　　　*SC* **98**　　　　　　　*P* **59**　　　*L* **1**　　　　# 464
Jones, Peter　　　　　　　　　　Cisco

Comment Type **ER**　　　*Comment Status* **D**　　　　　　　　　*EZ*
　　Why use "single differential-pair media" instead of "Single-Pair Ethernet" as used in the
　　title of this standard

SuggestedRemedy
　　Change to "Single-Pair Ethernet"

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

　　This is the title of exisitng clause 98. Changing the title requires a maintenance request.

Cl **98**　　　*SC* **98.2.1.1.2**　　　*P* **59**　　　*L* **13**　　　# 592
Healey, Adam　　　　　　　　　Broadcom Inc.

Comment Type **E**　　　*Comment Status* **D**　　　　　　　　　　*EZ*
　　"auto negotiation" should be "Auto-Negotiation" in two instances (see
　　http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html).

SuggestedRemedy
　　Change per comment.

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

Cl **98**　　　*SC* **98.2.1.1.2**　　　*P* **59**　　　*L* **15**　　　# 20
Lusted, Kent　　　　　　　　　　Intel

Comment Type **ER**　　　*Comment Status* **D**　　　　　　　　　*EZ*
　　Using an uppercase "B" for bit is uncommon. Usually, it is "bit" not "Bit". There are
　　approximately 33 instances of "kb/s" in 802.3 Revision Draft 3.2 section 4. There are no
　　instances of "kBit/s".

SuggestedRemedy
　　change "625 kBit/s" to "625 kb/s"

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

Cl **98**　　　*SC* **98.2.1.1.2**　　　*P* **59**　　　*L* **15**　　　# 18
Lusted, Kent　　　　　　　　　　Intel

Comment Type **ER**　　　*Comment Status* **D**　　　　　　　　　*EZ*
　　Using an uppercase "B" for bit is uncommon. Usually, it is "bit" not "Bit". There are
　　approximately 43 instances of "Mb/s" in 802.3 Revision Draft 3.2 section 4. There are no
　　instances of "MBit/s".

SuggestedRemedy
　　change "16.667 MBit/s" to "16.667 Mb/s".

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

Cl **98**　　　*SC* **98.2.1.1.2**　　　*P* **59**　　　*L* **16**　　　# 56
Anslow, Pete　　　　　　　　　Ciena

Comment Type **E**　　　*Comment Status* **D**　　　　　　　　　　*EZ*
　　The 802.3 web page:
　　http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html#bps
　　says: "only Mb/s and Gb/s should be used"

SuggestedRemedy
　　Change "16.667 MBit/s." to "16.667 Mb/s."
　　Change "625 kBit/s." to "625 kb/s."

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general　　　　　　*Cl* **98**　　Page 25 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected　　　RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn　　*SC* **98.2.1.1.2**　　8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **98**   *SC* **98.2.1.1.2**   *P* **59**   *L* **18**   # 343

Yseboodt, Lennart   Signify

Comment Type **T**   *Comment Status* **X**   *EZ*

"If both auto negotiation speeds are supported, a state machine shall be implemented to automatically choose between the different auto negotiation speeds, as described in 98.5.6."

This shall is duplicate to the one on 98.5.6:
"A PHY supporting two different Auto-Negotiation speeds, as described in 98.2.1.1.2 shall implement the behavior shown in Figure 98â?"11."

As a standalone sentence it is vague and untestable.

SuggestedRemedy

Change it to an informative sentence:
"If both auto negotiation speeds are supported, a mechanism is defined in 98.5.6 that automatically makes a choice between the different speeds."

Proposed Response   *Response Status* **O**

Cl **98**   *SC* **98.2.1.1.2**   *P* **59**   *L* **25**   # 3

Hajduczenia, Marek   Charter

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

Compound adjectives: low-speed and high-speed

SuggestedRemedy

Please use "high-speed mode" and "low-speed mode"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Globally replace "high speed mode" with "high-speed mode" and replace "low speed mode" with "low-speed mode".

Cl **98**   *SC* **98.2.1.1.2**   *P* **59**   *L* **26**   # 57

Anslow, Pete   Ciena

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

1.2.6 of the base standard says "Unless otherwise stated, numerical limits in this standard are to be taken as exact, with the number of significant digits and trailing zeros having no significance."
Also, usual practice in 802.3 is to not have a space between a number and %.

SuggestedRemedy

Show "shall be 30.0 ns ± 0.01%." as changing to "shall be 30 ns ± 0.01%."
Change "800.0 ns ± 0.005 %" to "800 ns ± 0.005%"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Show "shall be 30.0 ns ± 0.01%." as changing to "shall be 30 ns ± 0.01%."
Change "800.0 ns ± 0.005 %" to "800 ns ± 0.005%"

Ensure non-breaking spaces between numbers, units, and symbols

---

Cl **98**   *SC* **98.2.1.1.2**   *P* **60**   *L* **11**   # 58

Anslow, Pete   Ciena

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

According to the rules set out in:
http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html#numbers
in columns containing numbers with 5 or more digits to the left of the decimal point, any numbers with four or more digits to the left of the decimal point contain a space as a thousands separator.
Also, according to 1.2.8 of the base standard, empty cells in a table should contain an em-dash.

SuggestedRemedy

Add an underlined space as a thousands separator to the nine numbers with 4 or more digits to the left of the decimal point in Table 98-1.
Replace the four hyphens with em-dashes

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 **98**
SC **98.2.1.1.2**

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Cl **98** *SC* **98.2.1.1.2** *P* **60** *L* **15** # 336
Yseboodt, Lennart Signify

Comment Type **ER** *Comment Status* **D** *EZ*
Empty cell in a Table should be marked as such with an em-dash.
Table 98-1 uses hyphens "-".

SuggestedRemedy
Replace by em-dashes.

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

Cl **98** *SC* **98.5.2** *P* **62** *L* **17** # 59
Anslow, Pete Ciena

Comment Type **E** *Comment Status* **D** *EZ*
According to the rules set out in:
http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html#numbers
"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)."

SuggestedRemedy
For the numbers with 5 digits or more in the definitions of :
"backoff_timer_[LSM]"
"blind_timer_[LSM]"
"page_test_max_timer_[LSM]"
"receive_DME_timer_[LSM]"
"silent_timer_[LSM]"
Add an underlined space as a thousands separator. (16 instances in total).

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

Cl **98** *SC* **98.5.5** *P* **64** *L* **6** # 4
Hajduczenia, Marek Charter

Comment Type **E** *Comment Status* **D** *EZ*
Extra symbol in transition between ABILITY DETECT and TRANSMIT DISABLE states

SuggestedRemedy
Remove reference symbol
Similar changes needed in Figure 98-8, Figue 98-9, and Figure 98-10 (seems like change bars were enabled?)

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

Delete extraneous symbol that looks like a vertical bar in figures on,

page 64, line 6
page 65, line 33
page 65, line 38
page 66, line 12
page 66, line 17
page 66, line 23
page 66, line 25
page 67, line 12
page 67, line 17
page 67, line 22
oage 67, line 29

Cl **98** *SC* **98.5.5** *P* **64** *L* **6** # 5
Hajduczenia, Marek Charter

Comment Type **ER** *Comment Status* **D** *EZ*
Unclear set of changes to Figure 98-7, Figure 98-8, Figure 98-9, and Figure 98-10

SuggestedRemedy
Figure is being wholesale replaced; it would be great to have a hint what has been changed - either describe it in the editorial instruction / note, or alternatively draw a red box around what has been changed.

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

Jon Lewis to use a note/editorial instruction to identify the changes that have been made to Figure 98-7, Figure 98-8, Figure 98-9, and Figure 98-10.

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 **98**
SC **98.5.5**

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Cl **98**	*SC* **98.5.5**	*P* **64**	*L* **25**	# 345

Yseboodt, Lennart   Signify

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

In Figure 98-7, transition from COMPLETE ACKNOWLEDGE to NEXT PAGE WAIT, is missing a closing paren at the end.

SuggestedRemedy

Replace arc logic as follows:
"ack_finished = true * mr_next_page_loaded = true * ((tx_link_code_word[NP] = 1) + (np_rx = 1))"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **98**	*SC* **98.5.6**	*P* **68**	*L* **2**	# 60

Anslow, Pete   Ciena

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

In the text "A PHY supporting only one Auto-Negotiation speed shall implement the behavior as shown in Figure 98-7, Figure 98-8, Figure 98-9, and Figure 98-10 without any further modification, using the associated timer
values .", the phrase "without any further modification" does not belong.
A PHY supporting two different Auto-Negotiation speeds implements Figure 98-11.
A PHY supporting only one Auto-Negotiation speed implements Figure 98-8, Figure 98-9, and Figure 98-10.
There is no modification involved.

SuggestedRemedy

Delete "without any further modification,"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **98**	*SC* **98.5.6**	*P* **68**	*L* **6**	# 147

Lewis, Jon   Dell EMC

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

Arrows in state diagram should be the same.

SuggestedRemedy

Change Arrows at the top of the state diagram where the 3 inputs are going into the "SPEED_DETECTION" state to be the same format as the other Arrows in the diagram.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **98**	*SC* **98.5.6.3**	*P* **69**	*L* **28**	# 63

Anslow, Pete   Ciena

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

Incorrect multiply symbol used

SuggestedRemedy

replace with correct multiply symbol (Ctrl-q 0)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **98**	*SC* **98.6.2a**	*P* **70**	*L* **6**	# 64

Anslow, Pete   Ciena

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

Space missing from Autonumber format. "98.6.2aMajor" should be "98.6.2a Major"

SuggestedRemedy

Fix Autonumber format.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Confirm that a space can be inserted between "98.6.2a" and "Major" and insert space if possible.

Cl **98**	*SC* **98.6.2a**	*P* **70**	*L* **11**	# 65

Anslow, Pete   Ciena

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

The convention for PICS items is that when another item depends on whether or not this item is supported, its name is preceded by a "*".

SuggestedRemedy

In the table in 98.6.2a, change:
"ANSM" to "*ANSM"
"HSM" to "*HSM"
"LSM" to "*LSM"
"10T1L" to "*10T1L"

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 **98**
SC **98.6.2a**

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Cl **98**	*SC* **98.6.8**	*P* **71**	*L* **36**	#	67

Anslow, Pete   Ciena

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

According to the rules set out in:
http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html#numbers
"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)."
Despite these being table entries, they are in the form of text , so it seems appropriate to use this version of the rule.

SuggestedRemedy

In item SD4a, SD12a, SD13a, and SDE15A add a non-breaking space (Ctrl space) as a thousands separator in all numbers above 9999.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **98**	*SC* **98.6.8**	*P* **72**	*L* **39**	#	68

Anslow, Pete   Ciena

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

Item "SDE15a" should be "SD15a"

SuggestedRemedy

Change "SDE15a" to "SD15a"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **98**	*SC* **98B.3**	*P* **197**	*L* **11**	#	128

Anslow, Pete   Ciena

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

While the editing instruction for Table 98B-1 and the lack of underlining for the inserted rows is technically correct (except that it is not stated where the insertion should be), the result is rather confusing.

SuggestedRemedy

Change the editing instruction to:
"Change the row for "A3 through A26" in Table 98B-1 as follows (unchanged rows not shown):
Underline the new rows.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **98**	*SC* **98B.3**	*P* **197**	*L* **15**	#	7

Hajduczenia, Marek   Charter

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

Table 98B-1 should show rows A3-A25 and associated values are inserted i.e., with underline - this is new content

SuggestedRemedy

Per comment.

Proposed Response   *Response Status* **W**

PROPOSED REJECT.

Underline annotations are not shown for insert instructions. The only changed row is the original "A3 to A26" row and change marks are shown appropriately.

Cl **98**	*SC* **98B.4**	*P* **198**	*L* **20**	#	142

Anslow, Pete   Ciena

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

Underline missing from last em-dash

SuggestedRemedy

Underline it

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **104**	*SC* **104**	*P*	*L*	#	155

DiMinico, Christopher   MC Communications

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

Accepted changes to the draft shown in stewart_3g_01f_0518.pdf slides 7-10 were not implemented. 104.1, 104.3, 104.7,45-340 (802.3-2018).

SuggestedRemedy

Make changes shown in stewart_3g_01f_0518.pdf slides 7-10, changing table 45-211r reference (from 802.3bu-2016) to 45-340 (802.3-2018), as agreed by Motion #8 in May 2018 (the change on slide 11 was made).

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Master comment 155. Resolve with 616, 183, and 585.

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 **104**
SC **104**

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Cl **104**	SC **104**	P **73**	L **1**	# 69

Anslow, Pete — Ciena

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

The title of Clause 104 is incorrect.

SuggestedRemedy

Change the title to: "Power over Data Lines (PoDL) of Single Balanced Twisted-Pair Ethernet"

Proposed Response   *Response Status* **W**

PROPOSED REJECT.

"Single-Pair Ethernet" is aligned with the text in bullets 7, 8, and 16 in the project objectives.

Cl **104**	SC **104**	P **73**	L **1**	# 183

Graber, Steffen — Pepperl+Fuchs GmbH

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

New PoDL definitions as agreed in Pittsburgh are missing.

SuggestedRemedy

Add changes as described in "http://www.ieee802.org/3/cg/public/May2018/stewart_3g_01f_0518.pdf", pages 7, 8, 9 and 10.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Master comment 155. Resolve with 155, 616, and 585.

Cl **104**	SC **104**	P **73**	L **1**	# 616

Stover, David — Analog Devices

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

A set of changes against Draft 1.2 was adopted from stewart_3g_01f_0518.pdf. This change set was not fully adopted.

SuggestedRemedy

Adopt full set of changes outlined in stewart_3g_01f_0518.pdf, slides 7-11, as adopted by motion #8 of motions_3cg_01a_0518.pdf.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Master comment 155. Resolve with 155, 183, and 585.

Cl **104**	SC **104.4.1**	P **73**	L **23**	# 70

Anslow, Pete — Ciena

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

The comma and space after "Type D" have been added, so should be underlined

SuggestedRemedy

underline the added comma and space.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **104**	SC **104.4.4.1**	P **73**	L **33**	# 71

Anslow, Pete — Ciena

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

It is Table 104-3 that is being modified

SuggestedRemedy

Change the table number to Table 104-3

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **104**	SC **104.4.4.1**	P **73**	L **47**	# 72

Anslow, Pete — Ciena

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

In item 5 of Table 104-3 in the base standard, the unit is "uF" and the maximum value is "2.64".
In the draft, the units has been changed to "nF" and the value for A, B, C, and D changed to "200" without any change marking.

SuggestedRemedy

Show the unit as "uF" in strikethrough font and "nF" in underline font (where u is the Greek letter mu)
Show the value for A, B, C, and D as "2.64" in strikethrough font and "200" in underline font.

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 **104**
SC **104.4.4.1**

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Cl **104**   *SC* **104.4.4.1**   *P* **74**   *L* **13**   # 73
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
> The width of the "Symbol" column in Table 104-1 is such that two entries wrap across two lines with just "E" on the second line.

SuggestedRemedy
> Increase the width of the "Symbol" column to avoid the wrap.

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

Cl **104**   *SC* **104.4.6**   *P* **75**   *L* **6**   # 74
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
> It is Table 104-4 that is being modified

SuggestedRemedy
> Change the table number to Table 104-4.

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

Cl **104**   *SC* **104.4.6.3**   *P* **75**   *L* **32**   # 360
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   *EZ*
> "A digital oscilloscope or data acquisition module with a differential probe is used to observe the voltage at the MDI/PI of the PSE device under test (DUT) as shown in Figure 104 7."
>
> Dash missing in Figure 104-7.

SuggestedRemedy
> Add dash.

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

Cl **104**   *SC* **104.4.6.3**   *P* **75**   *L* **38**   # 75
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
> Usual practice in 802.3 is to not have a space between a number and %.

SuggestedRemedy
> Change to "± 1%."

Proposed Response   *Response Status* **W**
> PROPOSED ACCEPT IN PRINCIPLE.
>
> Replace "± 1%." with "±1%."

Cl **104**   *SC* **104.4.6.3**   *P* **75**   *L* **41**   # 337
Yseboodt, Lennart   Signify

Comment Type **ER**   *Comment Status* **D**   *EZ*
> Equations 104-1, 104-2, and 104-3 are missing accolades {

SuggestedRemedy
> Add accolades and unit where applicable.

Proposed Response   *Response Status* **W**
> PROPOSED ACCEPT IN PRINCIPLE.
>
> Move omega symbol in equation 104-1 to the end of the equation and enclose in parenthesis.
>
> Editor's note: There are no units for the transfer functions in equations 104-2 and 104-3.

Cl **104**   *SC* **104.5.6**   *P* **76**   *L* **40**   # 77
Anslow, Pete   Ciena

Comment Type **T**   *Comment Status* **D**   *EZ*
> In Table 104-7, Item 6b should have "uF" in the Unit column and "All classes" in the Additional information column (as per the base standard).
> Also, the base standard has "All" in the PD type column for Item 6b

SuggestedRemedy
> Add "uF" to the Unit cell (where u is the Greek letter mu).
> In the upper of the two PD Type cells, show "All" in strikethrough font and "A, B, C, D" in underline font.
> Merge the two "Additional information" cells and put "All classes" in the merged cell.

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **104**   Page 31 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **104.5.6**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **104**   *SC* **104.5.6.4**   *P* **77**   *L* **8**   # 78
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
"Figure 104 9" should be "Figure 104-9"

SuggestedRemedy
Change "Figure 104 9" to "Figure 104-9"

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

Cl **104**   *SC* **104.5.6.4**   *P* **77**   *L* **15**   # 79
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
"Clause 146" should be a cross-reference

SuggestedRemedy
Make "Clause 146" a cross-reference

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

Cl **104**   *SC* **104.7**   *P* **78**   *L* **1**   # 585
Stewart, Heath   Analog Devices

Comment Type **TR**   *Comment Status* **D**   *EZ*
Resistance measurements, as proposed in Pittsburgh, are enabling for long cable reach applications. Resistance measurements allow power recovery for sub-maximum cable lengths in an interoperable manner.

SuggestedRemedy
See stewart_0918_01.pdf

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

Master comment 155. Resolve with 155, 616, and 183.

Cl **104**   *SC* **104.7.1.3**   *P* **79**   *L* **41**   # 80
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
In Table 104-8, the added column heading is "PD type", which is inconsistent with the heading change in Table 104-7

SuggestedRemedy
Change to "PD Type"

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

Cl **104**   *SC* **104.7.1.3**   *P* **79**   *L* **41**   # 361
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   *EZ*
In the previous Table 104-7 and earlier text the word "Type" (when referring to PSE or PD) was capitalized.
In this Table it is not.

SuggestedRemedy
Change "type" to Type.

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

Cl **104**   *SC* **104.7.1.3**   *P* **80**   *L* **27**   # 81
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
1.2.6 of the base standard says "Unless otherwise stated, numerical limits in this standard are to be taken as exact, with the number of significant digits and trailing zeros having no significance."

SuggestedRemedy
Remove the trailing zeros from the numbers in Table 104-8 (4 numbers)

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 **104**
SC **104.7.1.3**

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Cl **104**	*SC* **104.9**	*P* **82**	*L* **2**	# 82

Anslow, Pete   Ciena

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

In the heading for 104.9, the title of Clause 104 is incorrect.

SuggestedRemedy

Change:
"Clause 104, Reconciliation Sublayer (RS) and Media Independent Interface (MII)" to:
"Clause 104, Power over Data Lines (PoDL) of Single Balanced Twisted-Pair Ethernet"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace "Clause 104, Reconciliation Sublayer (RS) and Media Independent Interface (MII)" with "Clause 104, Power over Data Lines (PoDL) of Single-Pair Ethernet"

Cl **104**	*SC* **104.9.4**	*P* **82**	*L* **25**	# 83

Anslow, Pete   Ciena

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

In the heading for 104.9.4, "ICS" should be "PICS"

SuggestedRemedy

In the heading for 104.9.4, change "ICS" to "PICS"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **104**	*SC* **104.9.4**	*P* **82**	*L* **26**	# 429

Wienckowski, Natalie   General Motors

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

still have twisted-pair

SuggestedRemedy

Change "single balanced twisted-pair" to "single balanced pair of conductors".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **104**	*SC* **104.9.4.3**	*P* **82**	*L* **42**	# 84

Anslow, Pete   Ciena

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

"Clause 146" should be a cross-reference

SuggestedRemedy

Make "Clause 146" a cross-reference

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146**	*P* **85**	*L* **2**	# 85

Anslow, Pete   Ciena

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

The heading for Clause 146 has an inappropriate footnote related to PICS proformas.

SuggestedRemedy

Remove the footnote

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146**	*P* **85**	*L* **53**	# 467

Jones, Peter   Cisco

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

I don't see the note about PICS proforma copyright release in other 802.3 standards, why is it needed

SuggestedRemedy

Remove

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Implemented by comment i-85.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **146**   Page 33 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **146**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **146**	*SC* **146.1**	*P* **85**	*L* **9**	# 86

Anslow, Pete   Ciena

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

The text: "Provided in this clause are fully functional and electrical specifications for ..." doesn't make sense.

SuggestedRemedy

Change to: "Provided in this clause are functional and electrical specifications for ...".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1**	*P* **85**	*L* **12**	# 87

Anslow, Pete   Ciena

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

"10BASE-T1L" should not be split across two lines.
Same issue in 146.7.2.2

SuggestedRemedy

Replace the hyphen with a non-breaking hyphen (Esc, -, h) (three key presses)
Make the same change in 146.7.2.2 (page 132, line 13)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1.2**	*P* **85**	*L* **34**	# 668

Donahue, Curtis   UNH-IOL

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

Clause 146 uses the term "single balanced pair of condustors" a lot, but there are some instances where "single balanced pair cabling" is used. Suggest scrubbing the Clause and being consistent.

SuggestedRemedy

Change instances of "single balanced pair cabling" to "single balanced pair of conductors"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1.2**	*P* **85**	*L* **37**	# 88

Anslow, Pete   Ciena

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

"3 level" should be "3-level" when used as a compound adjective

SuggestedRemedy

Change "3 level" to "3-level"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1.2**	*P* **86**	*L* **19**	# 436

Wienckowski, Natalie   General Motors

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

The MDI is not part of the PHY and should not be shaded in Figure 146-1.

SuggestedRemedy

Remove shading on MDI "box" in Figure 146-1.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1.2**	*P* **86**	*L* **34**	# 437

Wienckowski, Natalie   General Motors

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

missing period

SuggestedRemedy

Add period at end of last sentence in the paragraph.

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 **146**
SC **146.1.2**

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Cl **146**	*SC* **146.1.2**	*P* **86**	*L* **48**	# 19
Lusted, Kent		Intel		

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

The paragraph starting on P86 line 48 is almost identical to the paragraph starting on Page 86 line 36. It may be a duplicate since both reference 10BASE-T1L PHY and optional EEE support.

SuggestedRemedy

Consider removing one of the 2 paragraphs cited above.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
implemented by comment 381 (duplicate) - resolution was: delete

Cl **146**	*SC* **146.1.2**	*P* **86**	*L* **48**	# 717
McClellan, Brett		Marvell		

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

paragraph is redundant to line 36.

SuggestedRemedy

Delete the paragraph

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
implemented by comment 381 (duplicate) - resolution was: delete paragraph at Page 86 Line 48: "A 10BASE-T1L PHY optionally supports Energy-Efficient Ethernet (see Clause 78). The EEE capability is a mechanism by which 10BASE-T1L PHYs are able to reduce power consumption during periods of low link utilization."

Cl **146**	*SC* **146.1.2**	*P* **86**	*L* **48**	# 381
Jones, Chad		Cisco		

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

Text in this paragraph is a repeat of the paragraph at line 36. Delete this redundant paragraph.

SuggestedRemedy

delete paragraph at Page 86 Line 48: "A 10BASE-T1L PHY optionally supports Energy-Efficient Ethernet (see Clause 78). The EEE capability is a mechanism by which 10BASE-T1L PHYs are able to reduce power consumption during periods of low link utilization."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1.2**	*P* **86**	*L* **48**	# 669
Donahue, Curtis		UNH-IOL		

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

The paragraph starting on line 48 has nearly the same content as the paragraph starting on line 36. Suggest removing the paragraph on line 48.

SuggestedRemedy

Remove text from line 48 to 50.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
implemented by comment 381 (duplicate) - resolution was: delete paragraph at Page 86 Line 48: "A 10BASE-T1L PHY optionally supports Energy-Efficient Ethernet (see Clause 78). The EEE capability is a mechanism by which 10BASE-T1L PHYs are able to reduce power consumption during periods of low link utilization."

Cl **146**	*SC* **146.1.2.1**	*P* **87**	*L* **3**	# 712
Kabra, Lokesh		Synopsys Inc		

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

Overview paragraph structure/content different from other similar PCS sections in standard

SuggestedRemedy

Change to "The 10BASE-T1L PCS couples a Media Independent Interface (MII), as described in Clause 22, to the 10BASE-T1L Physical Medium Attachment (PMA) sublayer"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1.2.2**	*P* **87**	*L* **8**	# 713
Kabra, Lokesh		Synopsys Inc		

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

First line structure/content different from other similar PMA sections in standard

SuggestedRemedy

Change to "The 10BASE-T1L PMA couples messages from the PCS service interface onto a single balanced pair of conductors and supports the link management and the 10BASE-T1L PHY Control function."

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 **146**
SC **146.1.2.2**

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Cl **146**	*SC* **146.1.2.2**	*P* **87**	*L* **10**	#	468

Jones, Peter   Cisco

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

Strike out "at 7.5 MBd"

SuggestedRemedy

Make suggested change

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1.2.3**	*P* **87**	*L* **21**	#	382

Jones, Chad   Cisco

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

missing comma "In the transmit direction the transition to the LPI transmit mode begins when the PCS transmit function"

SuggestedRemedy

CHANGE TO: "In the transmit direction, the transition to the LPI transmit mode begins when the PCS transmit function"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1.2.3**	*P* **87**	*L* **27**	#	383

Jones, Chad   Cisco

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

missing comma: "Periodically the transmit function of the local"

SuggestedRemedy

CHANGE TO: "Periodically, the transmit function of the local"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1.2.3**	*P* **87**	*L* **30**	#	384

Jones, Chad   Cisco

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

Please translate to English: "The PHY is now starting to transmit an IDLE symbol stream, where loc_lpi_req is de-asserted, thus indicating to the remote PHY, that this PHY is going back to normal transmit mode again."

SuggestedRemedy

CHANGE TO: "The PHY transmits an IDLE symbol stream with loc_lpi_req is de-asserted, indicating to the remote PHY that the local PHY is back to normal transmit mode."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.1.3**	*P* **88**	*L* **4**	#	438

Wienckowski, Natalie   General Motors

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

poor wording, remove "a" in front of "descriptive text"

SuggestedRemedy

Change: discrepancy between a state diagram and a descriptive text
To: discrepancy between a state diagram and descriptive text

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.2**	*P* **89**	*L* **2**	#	148

Lewis, Jon   Dell EMC

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

Align arrows and lines between the PCS block and the PMA block with the blocks themselves.

SuggestedRemedy

Align arrow PMA_RXSTATUS.indication with the PCS block; Align arrow PMA_RX_LPI_STATUS.request with the PMA block

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **146**   Page 36 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **146.2**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **146**	*SC* **146.2**	*P* **89**	*L* **5**	# 367

Matheus, Kirsten BMW AG

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

MDIO arrow needs to go in both directions.

SuggestedRemedy

Edit picture accordingly

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.2.3**	*P* **90**	*L* **51**	# 385

Jones, Chad Cisco

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

fix the grammar: "The transmitter in a 10BASE-T1L link normally sends over the MDI symbols that represent a MII data stream with framing, scrambling and encoding of data, control information, or idles."

SuggestedRemedy

CHANGE TO: "The transmitter in a 10BASE-T1L link normally sends symbols over the MDI that represent an MII data stream with framing, scrambling and encoding of data, control information, or idles."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.2.3.1**	*P* **91**	*L* **5**	# 386

Jones, Chad Cisco

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

missing commas: "The PMA_TXMODE.indication specifies to PCS Transmit via the parameter tx_mode what sequence of symbols the PCS should be transmitting."

SuggestedRemedy

CHANGE TO: "The PMA_TXMODE.indication specifies to PCS Transmit, via the parameter tx_mode, what sequence of symbols the PCS should be transmitting."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.2.4.1**	*P* **91**	*L* **35**	# 387

Jones, Chad Cisco

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

missing commas: "During reception the PMA_UNITDATA.indication conveys to the PCS via the parameter rx_symb_vector the value of symbols detected on the MDI during each cycle of the recovered clock."

SuggestedRemedy

CHANGE TO: "During reception, the PMA_UNITDATA.indication conveys to the PCS, via the parameter rx_symb_vector, the value of symbols detected on the MDI during each cycle of the recovered clock."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.2.5.1**	*P* **92**	*L* **5**	# 388

Jones, Chad Cisco

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

missing commas: "During transmission, the PMA_UNITDATA.request simultaneously conveys to the PMA via the parameter tx_symb_vector the value of the symbols to be sent over the MDI."

SuggestedRemedy

CHANGE TO: "During transmission, the PMA_UNITDATA.request simultaneously conveys to the PMA, via the parameter tx_symb_vector, the value of the symbols to be sent over the MDI."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.2.6.3**	*P* **92**	*L* **44**	# 184

Graber, Steffen Pepperl+Fuchs GmbH

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

[EASY] . Figure 146-8, and Figure 146-15.

SuggestedRemedy

. Figure 146-8, Figure 146-14, and Figure 146-15. (Reference to Figure 146-14 is missing).

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

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

Cl **146**
SC **146.2.6.3**

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Cl **146**   *SC* **146.2.7**   *P* **92**   *L* **51**   # 389
Jones, Chad   Cisco

Comment Type **ER**   *Comment Status* **D**   *EZ*
   typo, extra unintentional character: "operation o of "

SuggestedRemedy
   delete the 'o'

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

Cl **146**   *SC* **146.2.7**   *P* **92**   *L* **51**   # 439
Wienckowski, Natalie   General Motors

Comment Type **E**   *Comment Status* **D**   *EZ*
   extraneous "o"

SuggestedRemedy
   Change: whether reliable operation o of the
   To: whether reliable operation of the

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

Cl **146**   *SC* **146.2.7**   *P* **92**   *L* **52**   # 185
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
   [EASY] . operations o of the .

SuggestedRemedy
   . operations of the . ("o" too much)

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

Cl **146**   *SC* **146.3**   *P* **96**   *L* **6**   # 580
Fitzgerald, Niall   Acuitas Silicon

Comment Type **E**   *Comment Status* **D**   *EZ*
   Figure 146-3 - PCS reference diagram omits the loc_lpi_req signal from the PMA.

   I understand that this is used by the PCS TRANSMIT function, as shown later in Figure 146-6-PCS transmit symbol generation.

SuggestedRemedy
   Add loc_lpi_req to Figure 146-3-PCS reference diagram.

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

Cl **146**   *SC* **146.3**   *P* **96**   *L* **6**   # 578
Fitzgerald, Niall   Acuitas Silicon

Comment Type **E**   *Comment Status* **D**   *EZ*
   Figure 146-3 - PCS reference diagram shows rx_lpi_active as an input to the PCS RECEIVE module, coming from the PMA SERVICE INTERFACE.

   The actual direction is the reverse; rx_lpi_active is an output from the PCS receive state diagram and is used in the PMA.

SuggestedRemedy
   Reverse the direction of the rx_lpi_active signal in Figure 146-3 - PCS reference diagram.

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

Cl **146**   *SC* **146.3**   *P* **96**   *L* **10**   # 566
Laubach, Mark   Broadcom

Comment Type **E**   *Comment Status* **D**   *EZ*
   Both line 10 "config" and line 29 "receiving" the text could be horizontal rather than vertical. To me easier readying. Same for Page 113, Line 7 "config' and line 25 "recovery clock".

SuggestedRemedy
   Suggest make both horizontal.

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **146**   Page 38 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **146.3**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **146**   *SC* **146.3.2.1**   *P* **98**   *L* **4**   # 517
Maguire, Valerie   The Siemon Company

Comment Type **E**   *Comment Status* **D**   *EZ*
Clause 22.2.2.5 is in the amendment.

SuggestedRemedy
Make 22.2.2.5 a cross-reference and remove the "External" character tag

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

Cl **146**   *SC* **146.3.2.1**   *P* **98**   *L* **4**   # 111
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
"22.2.2.5" should be a cross-reference.
Same issue in 147.3.2.2 (page 149, line 36)

SuggestedRemedy
Make "22.2.2.5" a cross-reference here and in 147.3.2.2 (page 149, line 36).

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

Cl **146**   *SC* **146.3.3.1**   *P* **101**   *L* **1**   # 362
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   *EZ*
The state diagram in Figure 146-5 is drawn with a different style from the other state diagrams in this Clause.

SuggestedRemedy
- Black dots are used to denote where lines are merged. No other state diagram does this. Remove the dots (line 36 and 40)
- Label A is in a circle, change this to the typical label drawing (make a consistent style across Clause 146 and 147, they seem to differ on this)
- The arc from TRANSMIT DATA to itself is drawn very close to the state box. Move the TRANSMIT DATA state to the right to avoid this.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Remove dots at line 36 and 40. Labels in circles as inputs are correct 802.3 style.
Commenter to consider maintenance request on clause 96 (100BASE-T1) where the incorrect symbol in clause 147 came from. Fix labels in clause 147 to be in circles....
(THERE APPEARS TO BE NO COMMENT ON CLAUSE 147 ON THIS ISSUE)

Cl **146**   *SC* **146.3.3.1**   *P* **101**   *L* **4**   # 90
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
In Figure 146-5, the label for the centre arrow at the top of the SEND IDLE state is offset to the left so that it appears to relate to the transition from the bottom of the state.

SuggestedRemedy
Move the label to be centred on the middle arrow.

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

Cl **146**   *SC* **146.3.3.2.1**   *P* **102**   *L* **41**   # 264
Andre, Szczepanek   HSZ Consulting

Comment Type **ER**   *Comment Status* **D**   *EZ*
I fund this sub-clause very confusing because it uses the term "transmiiter side-stream scrambler" to describe the generator polynomial LSFR. The LSFR is the subject of further scrambling by the auxillary generator polynomial to produce SCn[3:0]. Figure 146-6 has a single box called "Side stream scrambler" that produces SCn[3:0], so text such as "An implementation of master and slave PHY side-stream scramblers by linear-feedback shift registers is shown in Figure-146-7" is mis-leading.

SuggestedRemedy
Change
"An implementation of master and slave PHY side-stream scramblers by linear-feedback shift registers is shown in Figure-146-7"
to
"An implementation of master and slave PHY side-stream generator polynomials by linear-feedback shift registers is shown in Figure-146-7"

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

Cl **146**   *SC* **146.3.3.2.1**   *P* **102**   *L* **47**   # 319
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   *EZ*
"In no case shall the scrambler state be initialized to all zeros."

Akward wording.

SuggestedRemedy
"The scrambler state not be initialized to all zeros."

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **146**   Page 39 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **146.3.3.2.1**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **146**   *SC* **146.3.3.2.5**   *P* **104**   *L* **29**   # 91

Anslow, Pete   Ciena

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

When the triplet "TAn, TBn, TCn" is introduced in 146.3.3.2 and every where else, the "n"'s are subscripted. Here they are not.

SuggestedRemedy

Subscript the three "n"'s in "(TAn, TBn, TCn)"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**   *SC* **146.3.3.2.7**   *P* **104**   *L* **51**   # 92

Anslow, Pete   Ciena

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

"shall be a sent in the following order" contains a spurious "a"

SuggestedRemedy

Change to "shall be sent in the following order".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**   *SC* **146.3.3.2.7**   *P* **105**   *L* **7**   # 320

Yseboodt, Lennart   Signify

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

In Table 146-1 the 4B3T encoding is listed using the symbols -, +, and 0.

Legibility can be improved.

SuggestedRemedy

- Replace "-" by a real minus symbol, not a hyphen
- Insert a non-breakable space (with fixed width, Frame: Ctrl+Space) between the symbols

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**   *SC* **146.3.3.2.7**   *P* **105**   *L* **35**   # 321

Yseboodt, Lennart   Signify

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

Table 146-2 and 146-3 use hyphens to indicate negative numbers.

SuggestedRemedy

Change hyphen to minus symbol.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**   *SC* **146.3.4.1**   *P* **106**   *L* **19**   # 470

Jones, Peter   Cisco

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

Replace "ESD4 and ERR_ESD4, see 1" with ""ESD4 and ERR_ESD4 values see"

SuggestedRemedy

Make suggested change

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**   *SC* **146.3.4.1**   *P* **107**   *L* **28**   # 187

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] (scr_status = OK)*

SuggestedRemedy

(scr_status = OK) * (space before "*" is missing)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**   *SC* **146.3.4.1.1**   *P* **109**   *L* **29**   # 263

Andre, Szczepanek   HSZ Consulting

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

It is normal practise for state diagrams to follow the definition of Variables, Functions, & Timers. This convention is followed for the PCS TX SM, but not for the RX SM.

SuggestedRemedy

Move PCS Rx and JAB state diagrams after 146.3.4.1.3 (Timers)

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 **146**
SC **146.3.4.1.1**

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8/29/2018 11:27:59 AM

Cl **146**   *SC* **146.3.4.3**   *P* **112**   *L* **12**   # 322
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   *EZ*
There is a spurious period after equation 146-5.

SuggestedRemedy
Remove period.

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

Cl **146**   *SC* **146.4**   *P* **113**   *L* **3**   # 581
Fitzgerald, Niall   Acuitas Silicon

Comment Type **E**   *Comment Status* **D**   *EZ*
Figure 146-11-PMA functional block diagram shows rx_lpi_active twice, i.e. as two separate inputs, one for PHY CONTROL and one for PMA RECEIVE.

This conflicts with convention, used for other signals in the diagram, e.g. scr_status is shown as a single input going to two separate places.

SuggestedRemedy
Change Figure 146-11-PMA functional block diagram to show rx_lpi_active as a single input that goes to PHY CONTROL and PMA RECEIVE.

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

Cl **146**   *SC* **146.4.3**   *P* **114**   *L* **36**   # 262
Andre, Szczepanek   HSZ Consulting

Comment Type **E**   *Comment Status* **D**   *EZ*
"received signals on at the MDI"

SuggestedRemedy
Change
"received signals on at the MDI"
to
"received signals on the MDI"

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

Cl **146**   *SC* **146.4.3**   *P* **114**   *L* **37**   # 391
Jones, Chad   Cisco

Comment Type **ER**   *Comment Status* **D**   *EZ*
extra word in sentence: "PMA Receive has the ability to translate the received signals on at the MDI into the PMA_UNITDATA.indication parameter rx_symb_vector."

SuggestedRemedy
delete 'at' from the sentence: "PMA Receive has the ability to translate the received signals on the MDI into the PMA_UNITDATA.indication parameter rx_symb_vector."

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

Cl **146**   *SC* **146.4.4**   *P* **115**   *L* **27**   # 476
Jones, Peter   Cisco

Comment Type **TR**   *Comment Status* **D**   *EZ*
This says "via management control during initialization or via default hardware setup." I think these are the same thing from this documents point of view. We don't say where the manangement control got it's data, and we don't define hardware.

SuggestedRemedy
Strike out via "default hardware setup"

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

Cl **146**   *SC* **146.4.4**   *P* **115**   *L* **31**   # 93
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
"10BASE-T1L" should not be split across two lines.

SuggestedRemedy
Replace the hyphen with a non-breaking hyphen (Esc, -, h) (three key presses)

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **146**   Page 41 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **146.4.4**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **146**   *SC* **146.4.4**   *P* **115**   *L* **44**   # 94
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
Notes start with "NOTE-" i.e., an em-dash and no spaces before the first word of the note. Same issue with the note in 146.4.4.2, the note in 146.5.5.3, the note in 146.8.4, and the note in 147.3.3.1.

SuggestedRemedy
In 146.4.4, change "NOTE - Fast" to "NOTE-Fast"
In 146.4.4.2, change "NOTE - After" to "NOTE-After"
In 146.5.5.3, change "Note: If" to "NOTE-If"
In 146.8.4, change "Note: Typically" to "NOTE-Typically"
In 147.3.3.1, change "Note: A" to "NOTE-A"

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

Cl **146**   *SC* **146.4.4.1**   *P* **116**   *L* **2**   # 564
Laubach, Mark   Broadcom

Comment Type **TR**   *Comment Status* **D**   *EZ*
"This variable is generated by management or set by default" is unclear to me. The variable is always defined in the standard, so "not generated", "set by management"? If "set by default" what is the default value? Looking at 146.4.5, there is closer wording that might have better clarity.

SuggestedRemedy
Suggest "This variable is set by management control or via hardware."

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

Cl **146**   *SC* **146.4.4.1**   *P* **116**   *L* **5**   # 565
Laubach, Mark   Broadcom

Comment Type **TR**   *Comment Status* **D**   *EZ*
"set by default", what is the default value?

SuggestedRemedy
Indicate the default value.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
delete "set by default"

Cl **146**   *SC* **146.4.4.1**   *P* **116**   *L* **22**   # 188
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] Possible values are missing.

SuggestedRemedy
Add: Values: TRUE or FALSE

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

Cl **146**   *SC* **146.4.4.2**   *P* **117**   *L* **28**   # 323
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   *EZ*
The note at the end of 146.4.4.2 is incorrectly formatted.

SuggestedRemedy
Notes starts with 'NOTE' in capitals, followed by an em-dash.

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

Cl **146**   *SC* **146.4.4.3**   *P* **118**   *L* **42**   # 189
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] '... + (scr_status = NOT_OK)]*

SuggestedRemedy
. + (scr_status = NOT_OK) * (remove "]" after (scr_status = NOT_OK), only the scr_status check is intended to be disabled, if lpi is active.

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

Cl **146**   *SC* **146.4.4.3**   *P* **118**   *L* **42**   # 190
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] loc_lp_req <= FALSE (within state "SEND IDLE OR DATA")

SuggestedRemedy
loc_lpi_req <= FALSE (add "i" after "lp").

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 **146**
SC **146.4.4.3**

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Cl **146**　　*SC* **146.4.4.3**　　　　*P* **118**　　*L* **50**　　# 441
Wienckowski, Natalie　　　　　General Motors

Comment Type **E**　　*Comment Status* **D**　　　　　　　*EZ*
Inconsistancy of naming diagram when broken into 2, 146-14 (part a), 146-15 (part b) while 147- 4 (1 of 2), 147-5 (2 of 2) and 147-8 (1 of 2), 147-9 (2 of 2).

SuggestedRemedy
Pick one method and use it throughout the entire document.

Proposed Response　　*Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Use "part a" or "part b" consistentaly (change clause 147).

Cl **146**　　*SC* **146.5.2**　　　　*P* **121**　　*L* **20**　　# 670
Donahue, Curtis　　　　　UNH-IOL

Comment Type **E**　　*Comment Status* **D**　　　　　　　*EZ*
Change "sub clause" to "subclause".

SuggestedRemedy
Change "sub clause" to "subclause".

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

Cl **146**　　*SC* **146.5.3**　　　　*P* **122**　　*L* **2**　　# 149
Lewis, Jon　　　　　Dell EMC

Comment Type **E**　　*Comment Status* **D**　　　　　　　*EZ*
Resistor isn't aligned properly

SuggestedRemedy
Replace figure with the figure from 147.5.4.1

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

Cl **146**　　*SC* **146.5.4**　　　　*P* **122**　　*L* **28**　　# 395
Jones, Chad　　　　　Cisco

Comment Type **ER**　　*Comment Status* **D**　　　　　　　*EZ*
"the transmitter shall meet the requirements of this section with a..." which section? You mean subclause 146.5.4? If so please state that.

SuggestedRemedy
replace 'section' with the appropriate subclause link or 'this clause'.

Proposed Response　　*Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
replace "section" with <cross-ref> "146.5.4"

Cl **146**　　*SC* **146.5.4.4**　　　　*P* **123**　　*L* **32**　　# 150
Lewis, Jon　　　　　Dell EMC

Comment Type **E**　　*Comment Status* **D**　　　　　　　*EZ*
Equations 146-6,7,8,9 need non-breaking spaces between the number and the units

SuggestedRemedy
Add non-breaking spaces between the number and units across all equations listed.

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

Cl **146**　　*SC* **146.5.4.4**　　　　*P* **124**　　*L* **10**　　# 95
Anslow, Pete　　　　　Ciena

Comment Type **E**　　*Comment Status* **D**　　　　　　　*EZ*
Figure 146-19 and Figure 146-23 are bit maps. This makes the draft larger than it needs to be and stops the text from being searchable.

SuggestedRemedy
Replace Figure 146-19 and Figure 146-23 with vector-based versions (as per Figure 146-22 for example).

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general　　　　*Cl* **146**　　　Page 43 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected　　RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn　　*SC* **146.5.4.4**　　　8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **146**	*SC* **146.5.5.3**	*P* **125**	*L* **9**	# 151

Lewis, Jon   Dell EMC

Comment Type **E**   *Comment Status* **D**   EZ
Resistor isn't aligned properly

SuggestedRemedy
Align resistor(s) properly with the connection lines in the drawing.

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

Cl **146**	*SC* **146.5.5.3**	*P* **125**	*L* **18**	# 96

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   EZ
The 802.3 standard uses capital omega rather than "ohm".

SuggestedRemedy
Change "ohm" to capital omega in:
The note in 146.5.5.3
The note in 146.8.4
The heading row of Table 146B-1 (5 instances)

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

Cl **146**	*SC* **146.5.7**	*P* **125**	*L* **29**	# 133

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   EZ
"45.2.1.1" is an external cross-reference, so it should be in forest green

SuggestedRemedy
Apply character tag "External" to "45.2.1.1"

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

Cl **146**	*SC* **146.6.2**	*P* **126**	*L* **52**	# 134

Anslow, Pete   Ciena

Comment Type **T**   *Comment Status* **D**   EZ
"45.2.1.131" is not the correct reference for register 1.2100

SuggestedRemedy
Change "45.2.1.131" to "45.2.1.185" here and in 146.11.4.3 item MI3

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

Cl **146**	*SC* **146.7.1.2**	*P* **129**	*L* **41**	# 154

Hidaka, Yasuo   Independent

Comment Type **E**   *Comment Status* **D**   EZ
Equation (146-12) has an unnecessary "dB".

SuggestedRemedy
Remove the unnecessary "dB".

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

Cl **146**	*SC* **146.7.1.4**	*P* **130**	*L* **37**	# 97

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   EZ
In "E1 or E2", the "1" and "2" should be subscripted.

SuggestedRemedy
In "E1 or E2", subscript the "1" and "2".

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

Cl **146**	*SC* **146.7.1.4**	*P* **130**	*L* **41**	# 326

Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   EZ
Table 146-5 does not use a minus symbol in the equations (4 occurences).

SuggestedRemedy
Replace hyphen by minus symbol.

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **146**   Page 44 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **146.7.1.4**   8/29/2018 11:27:59 AM
SORT ORDER: Clause, Subclause, page, line

Cl **146**   *SC* **146.7.1.4**   *P* **130**   *L* **44**   # 327
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   *EZ*
Table 146-5: "TCL .1 <= f <= 20"

.1 should be 0.1 per the IEEE style guide (see 12.2).

SuggestedRemedy
Fix here and on line 46.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Resolved by comment 98

Cl **146**   *SC* **146.7.1.4**   *P* **130**   *L* **44**   # 98
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
The formatting in Table 146-5 is not according to the IEEE style manual.

SuggestedRemedy
In Table 146-5:
change ".1" to "0.1" (2 instances)
"log" should be in upright font (4 instances)
The base of the log should be explicit. Replace "log" with "log10" where the "10" is a subscript.
"f" should be in italic font (6 instances)
The minus signs should be en-dashes (included in another comment)

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT.
Resolve with comment#327

Cl **146**   *SC* **146.7.1.5**   *P* **131**   *L* **16**   # 328
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   *EZ*
In Table 146-6 there is a missing horizontal lines between "(dB)" and "E1 E2 E3".

SuggestedRemedy
Add horizontal line.

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

Cl **146**   *SC* **146.7.1.5**   *P* **131**   *L* **19**   # 99
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
The Frequency (MHz) entry is ".1 <= f <= 20".
".1" should be "0.1" and "f" is not used anywhere, so it would be better to replace with "0.1 to 20"

SuggestedRemedy
Replace ".1 <= f <= 20 with "0.1 to 20".

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

Cl **146**   *SC* **146.7.1.5**   *P* **131**   *L* **19**   # 329
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   *EZ*
Table 146-6: ".1 <= f <= 20"

.1 should be 0.1 per the IEEE style guide (see 12.2).

SuggestedRemedy
Change to 0.1.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Resolve with comment#99

Cl **146**   *SC* **146.7.2.2**   *P* **132**   *L* **17**   # 448
Ewen, John   GlobalFoundries

Comment Type **E**   *Comment Status* **D**   *EZ*
Equation 146-14 uses "log" without the subscript "10" while similar equations in this section include the subscript.

SuggestedRemedy
Add the "10" subscript to "log" to be consistent with similar equations within the sub-clause

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **146**   Page 45 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **146.7.2.2**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **146**	*SC* **146.8.3**	*P* **133**	*L* **31**	# 675

Donahue, Curtis   UNH-IOL

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

Rogue equation number. should be centered with with equation (around line 26).

SuggestedRemedy

Fix equation number position

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.8.4**	*P* **133**	*L* **41**	# 449

Ewen, John   GlobalFoundries

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

The phrase "The following table" is not a specific reference.

SuggestedRemedy

Replace "The following table" with "Table 146-8"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.9.2.2**	*P* **134**	*L* **48**	# 399

Jones, Chad   Cisco

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

missing comma and word AND extra word: "Where applicable, *also* testing according to
IEC 61326 and NE21 test methods, which are similar *to* or even more severe than a
MICE E3 environment *,* shall be done and the following industrial EMC requirements shall
be met:"

SuggestedRemedy

CHANGE TO: "Where applicable, testing according to IEC 61326 and NE21 test methods,
which are similar to or even more severe than a MICE E3 environment, shall be done and
the following industrial EMC requirements shall be met:"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.11.2.1**	*P* **136**	*L* **21**	# 100

Anslow, Pete   Ciena

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

Comment i-52 against the P802.3bx revision project D3.0 changed all instances of
"enquiries" to "inquiries" in the PICS front sheet.

SuggestedRemedy

Change "enquiries" to "inquiries" in:
146.11.2.1
147.12.2.1
148.5.2.1
22.3.2.1 (covered in another comment).

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.11.2.2**	*P* **136**	*L* **33**	# 101

Anslow, Pete   Ciena

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

146.11.2.2 should be on the same page as the rest of the PICS initial text.

SuggestedRemedy

Uncheck "Keep with next" for the heading of 146.11.2.2

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.11.2.2**	*P* **137**	*L* **4**	# 102

Anslow, Pete   Ciena

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

"IEEE Std 802.3xx-201x" should be "IEEE Std 802.3cg-201x" in two places.

SuggestedRemedy

Change "IEEE Std 802.3xx-201x" to "IEEE Std 802.3cg-201x" in two places.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **146**   Page 46 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **146.11.2.2**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **146** *SC* **146.11.3** *P* **137** *L* **25** # 103
Anslow, Pete Ciena

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

There are two items "EEE" and it is not clear what the difference between them is.

SuggestedRemedy

If there is intended to be a difference between them, clarify what this is and give them different Item entries.
Otherwise, consolidate them into one row:
"EEE", "Energy-Efficient Ethernet capability", "146.1.1, 78", "", "Yes [ ] No [ ]"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **146** *SC* **146.11.3** *P* **137** *L* **27** # 104
Anslow, Pete Ciena

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

The convention for PICS items is that when another item depends on whether or not this item is supported, its name is preceded by a "*".

SuggestedRemedy

In the table in 146.11.3, change:
"AN" to "*AN"
"MDIO" to "*MDIO"
"FAST" to "*FAST"
"RTDL" to "*RTDL"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **146** *SC* **146.11.4.2.2** *P* **141** *L* **41** # 105
Anslow, Pete Ciena

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

The Item text for PMAE10 through PMAE23 is difficult to read due to being squashed.

SuggestedRemedy

Increase the width of the Item column and decrease the width of the Feature column to compensate.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **146** *SC* **146.11.4.2.2** *P* **142** *L* **3** # 106
Anslow, Pete Ciena

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

The Status entry for Item PMAE12 is:
"ANEG:
RTDL:
MDIO:
 M"
"ANEG" is undefined. This should be "AN"
It is not clear what the intent of this entry is.
The syntax for multiple elements ORed together used elsewhere (e.g., 104.9.4.4) is similar but different from that used here.
The text in 146.5.4.1 does not seem to match ORed elements: Mandatory for Auto-Negotiation or MDIO capability or 2.4 Vpp operating mode.
The syntax for multiple elements ANDed together is defined in 21.6.2 as
"<item1>*<item2>:"
This seems to fit the text in 146.5.4.1 better (except that it says "If MDIO is not implemented a similar functionality shall be provided by another interface")

SuggestedRemedy

If the intent is for the conditions to be ANDed, then change the Status entry for Item PMAE12 to:
"AN*
RTDL*
MDIO:M"
If the intent is otherwise, change to some other valid entry such as:
"AN:M
RTDL:M
MDIO:M"
Increase the width of the Status column (in all of the PICS tables) and decrease the width of the Status column to compensate, so that individual elements such as MDIO:M do not wrap.

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 **146**
SC **146.11.4.2.2**

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8/29/2018 11:28:00 AM

Cl **146**   *SC* **146.11.4.3**   *P* **143**   *L* **15**   # 107
Anslow, Pete   Ciena

Comment Type **T**   *Comment Status* **D**   *EZ*
The Status entry for Item MI3 is:
"ANEG:
MDIO:
 M"
"ANEG" is undefined. This should be "AN"
It is not clear what the intent of this entry is.
The syntax for multiple elements ORed together used elsewhere (e.g., 104.9.4.4) is similar
but different from that used here.
The text in 146.6.2 seems to match ORed elements: Mandatory for Auto-Negotiation or
MDIO capability.
Alternatively, the syntax for multiple elements ANDed together is defined in 21.6.2 as
"<item1>*<item2>:"

SuggestedRemedy
If the intent is for the conditions to be ORed, then change the Status entry for Item MI3 to:
"AN:M
MDIO:M"
If the intent is otherwise, change to some other valid entry such as:
"AN*
MDIO:M"
Increase the width of the Status column (in all of the PICS tables) and decrease the width
of the Status column to compensate, so that individual elements such as MDIO:M do not
wrap.

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

Cl **146**   *SC* **146.11.4.4**   *P* **143**   *L* **32**   # 108
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
All of the items in 146.11.4.4 have the same entry in the Item column.

SuggestedRemedy
Re-number them to be LMF1 through LMF5

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

Cl **146**   *SC* **146.11.4.4**   *P* **143**   *L* **34**   # 109
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
According to the rules set out in:
http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html#numbers
"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)."
Despite these being table entries, they are in the form of text , so it seems appropriate to
use this version of the rule.

SuggestedRemedy
In the third item LMF1 (should be LMF3) remove the space used as a thousands separator
in 8 834.

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

Cl **146**   *SC* **146.11.4.4**   *P* **143**   *L* **38**   # 110
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
"10BASE-T1L" should not be split across two lines.

SuggestedRemedy
Replace the hyphen with a non-breaking hyphen (Esc, -, h) (three key presses) in 4 places
in 146.11.4.4.

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

Cl **146**   *SC* **146.20**   *P* **199**   *L* **34**   # 143
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
The number for an IEC standard should be preceded by "IEC"

SuggestedRemedy
Change "and 60079-11" to "and IEC 60079-11" here and on page 201, line 1

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 **146**
SC **146.20**

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Cl **146**	*SC* **146.20.1.1**	*P* **203**	*L* **27**	# 698

Xu, Dayin — Rockwell Automation

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

Repeteated text" DC Powering link sections" in Figure 146B-1

SuggestedRemedy

Delete one " DC Powering link sections"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.20.1.1.1**	*P* **204**	*L* **16**	# 420

Jones, Chad — Cisco

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

commas in table that should be decimals

SuggestedRemedy

the rows for 18 and 19AWG, CHANGE "0,0233" to "0.0233" and "0,0294" to "0.0294"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.20.1.2**	*P* **204**	*L* **32**	# 421

Jones, Chad — Cisco

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

"The spur link sections provides power..." Spur Link sections PROVIDE power

SuggestedRemedy

CHANGE TO: "The spur link sections provide power."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146.20.B.1.1**	*P* **203**	*L* **26**	# 686

Donahue, Curtis — UNH-IOL

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

Duplicated text "DC powering link sections".

SuggestedRemedy

Remove one of the "DC powering link sections" instances.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Resolve with comment#698

Cl **146**	*SC* **146B**	*P* **205**	*L* **11**	# 254

Graber, Steffen — Pepperl+Fuchs GmbH

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

[EASY] No spaces between numbers and units in Figure 146B-2.

SuggestedRemedy

Add spaces between numbers and units in Figure 146B-2.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146B**	*P* **205**	*L* **12**	# 255

Graber, Steffen — Pepperl+Fuchs GmbH

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

[EASY] dcpower

SuggestedRemedy

dc power (add space)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **146**	*SC* **146B.1.1.1**	*P* **204**	*L* **10**	# 131

Anslow, Pete — Ciena

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

1.2.6 of the base standard says "Unless otherwise stated, numerical limits in this standard are to be taken as exact, with the number of significant digits and trailing zeros having no significance."
Also, two of the numbers have a comma instead of a decimal point.

SuggestedRemedy

Remove the trailing zeros from the numbers in Table 146B-1.
Change "0,0233" to "0.0233" and change "0,0294" to "0.0294"

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 **146**
SC **146B.1.1.1**

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8/29/2018 11:28:00 AM

Cl **146**   *SC* **146B.1.2**   *P* **205**   *L* **11**   # 132
Anslow, Pete   Ciena

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

The text in Figure 146B-2 does not have a space between a number and its unit in multiple places.
Also, the IEEE Style Manual says:
"Ranges should repeat the unit (e.g., 115 V to 125 V). Dashes should never be used because they can be misconstrued as subtraction signs."

SuggestedRemedy

Change "48V" to "48 V"
Change "14-18 AWG cable," to "14 AWG to 18 AWG cable,"
Change "24V dcpower" to "24 V dc power"
Change "1000m" to "1000 m"
Change "12V" to "12 V" in 2 places
Change "200m" to "200 m" in 2 places

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147**   *P* **164**   *L* **4**   # 13
Huszak, Gergely   Kone

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

The "value unit +/- tolerance_value tolerance_unit" format of literals is not harmonized everywhere

SuggestedRemedy

Make sure all places the following format (not all parts are always present):
valueNBSunitNBS+/-NBStolerance_valueNBStolerance_unit
where:
- NBS is a non-breaking space
- +/- is the single-character version

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.
See also #244

Cl **147**   *SC* **147.1**   *P*   *L* **19**   # 636
Thompson, Geoff   GraCaSI S.A.

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

Missing article, also since this is the first use of the term DME, the full expansion of it should be moved here from line 49.

SuggestedRemedy

Change text to read: "The Differential Manchester Encoding (DME) based..." and adjust the text in line 49 appropriately.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.1**   *P* **145**   *L* **10**   # 676
Donahue, Curtis   UNH-IOL

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

This paragraph is nearly identical to that in 146.1, but with a small change in the last sentence. suggest making these paragraphs consistent.

SuggestedRemedy

Change "10BASE-T1S PCS and PMA." to "10BASE-T1S PCS, PMA and MDI."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.1**   *P* **145**   *L* **12**   # 194
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] full/half-duplex

SuggestedRemedy
full-/half-duplex

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 50 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.1**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**	*SC* **147.1**	*P* **145**	*L* 16	#	488

Jones, Peter   Cisco

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

Replace "allowing implementers to provide their own cabling" with "allowing implementers to specify their own cabling".

SuggestedRemedy

Make suggested change

Proposed Response   *Response Status*   **W**

PROPOSED ACCEPT.

Cl **147**	*SC* **147.1**	*P* **145**	*L* 19	#	677

Donahue, Curtis   UNH-IOL

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

This paragraph seems to be justifying why there isn't an optional EEE feature specified for 10BASE-T1S. While informative to the reader, it is unnecessary.

SuggestedRemedy

Suggest removing paragraph from line 19 to 20.

Proposed Response   *Response Status*   **W**

PROPOSED ACCEPT.

Cl **147**	*SC* **147.1**	*P* **145**	*L* 19	#	195

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] . inherently energy efficient and without the need ..

SuggestedRemedy

. inherently energy efficient, without the need . (add comma and remove "and")

Proposed Response   *Response Status*   **W**

Already dealt with by #677

Cl **147**	*SC* **147.1**	*P* **145**	*L* 19	#	375

Matheus, Kirsten   BMW AG

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

is "idle symbols" the right word?

SuggestedRemedy

I suggest to use "idle time" or "idle period" or "IDLE"

Proposed Response   *Response Status*   **W**

PROPOSED ACCEPT.
Already dealt with by #677

Cl **147**	*SC* **147.1**	*P* **145**	*L* 19	#	489

Jones, Peter   Cisco

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

no idle symbols, replace "silent during idle symbols making it inherently" with "silent during idle making it inherently"

SuggestedRemedy

Make suggested change

Proposed Response   *Response Status*   **W**

Already dealt with by #677

Cl **147**	*SC* **147.1**	*P* **145**	*L* 24	#	665

Donahue, Curtis   UNH-IOL

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

"multi-drop" should be "multidrop"

SuggestedRemedy

Change "multi-drop" to "multidrop"

Proposed Response   *Response Status*   **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 51 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.1**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**   *SC* **147.1.1**   *P*   *L* **26**   # 638
Thompson, Geoff   GraCaSI S.A.

Comment Type **TR**   *Comment Status* **D**   *EZ*
   The text and Fig 147-1 do not align to Fig 1-1 of the standard which is intended to
   comprehensively cover 802.3.

SuggestedRemedy
   Remove Fig 147-1 and reference Fig 1-1 or duplicate the 10 Mb/s portion of 1.1 here. Alter
   the implementation of 10BASE-T1S to align to the 1.1 model.

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

Cl **147**   *SC* **147.1.1**   *P* **145**   *L* **31**   # 196
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
   [EASY] Auto negotiation is not defined for 10BASE-T1S PHY .

SuggestedRemedy
   Auto-Negotiation is not defined for a 10BASE-T1S PHY . (correct Auto-Negotiation and add
   "a" before 10BASE-T1S)

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

Cl **147**   *SC* **147.1.2**   *P*   *L* **46**   # 641
Thompson, Geoff   GraCaSI S.A.

Comment Type **TR**   *Comment Status* **D**   *EZ*
   Out of band signaling is beyond the scope of clause 1.1 and therefore outside the scope of
   the PAR.

SuggestedRemedy
   Remove "Out of Band Signaling" from the draft

Proposed Response   *Response Status* **W**
   PROPOSED ACCEPT IN PRINCIPLE.
   Change "perform out-of-band signaling" to "perform signaling"

Cl **147**   *SC* **147.1.2**   *P*   *L* **46**   # 640
Thompson, Geoff   GraCaSI S.A.

Comment Type **ER**   *Comment Status* **D**   *EZ*
   Desktop application are an equally valid application area for this proposed standard

SuggestedRemedy
   Add "desktop" to this list of applications in the paragraph you are going to delete.

Proposed Response   *Response Status* **W**
   PROPOSED ACCEPT IN PRINCIPLE.
   Already dealt with by #639

Cl **147**   *SC* **147.1.2**   *P*   *L* **46**   # 639
Thompson, Geoff   GraCaSI S.A.

Comment Type **ER**   *Comment Status* **D**   *EZ*
   Non-normative marketing BS that adds nothing to the technical content of the standard.

SuggestedRemedy
   Delete this paragraph.

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 52 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.1.2**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**   *SC* **147.1.2**   *P* **145**   *L* **36**   # 401
Jones, Chad   Cisco

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

"The 10BASE-T1S PHY may operate using full-duplex or half-duplex point-to-point communications on a link segment using a single balanced pair of conductors and supporting up to four in-line connectors and up to at least 15 meters with an effective rate of 10 Mb/s in each direction simultaneously." need comma usage fixes.

SuggestedRemedy

CHANGE TO: "The 10BASE-T1S PHY may operate using full-duplex or half-duplex point-to-point communications on a link segment using a single balanced pair of conductors, supporting up to four in-line connectors and up to at least 15 meters, with an effective rate of 10 Mb/s in each direction simultaneously."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Change:
====
The 10BASE-T1S PHY may operate using full-duplex or half-duplex point-to-point communications on a link segment using a single balanced pair of conductors and supporting up to four in-line connectors and up to at least 15 meters with an effective rate of 10 Mb/s in each direction simultaneously.
====
to
====
The 10BASE-T1S PHY may operate using full-duplex or half-duplex point-to-point communications on a link segment using a single balanced pair of conductors, supporting up to four in-line connectors and up to at least 15 meters in reach, with an effective rate of 10 Mb/s in each direction simultaneously.
====
Note: the 2 non-breaking white-spaces

Cl **147**   *SC* **147.1.2**   *P* **145**   *L* **37**   # 679
Donahue, Curtis   UNH-IOL

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

Clause 147 uses several similar terms to describe the channel the 10BASE-T1S is specificed for. Observed terms are:

"single balanced pair of conductors" - CL:147.1.2 P:145 L:37
"single twisted-pair copped cable" - CL:147.1.2 P:145 L:41
"single balanced pair" - CL:147.4.3 P:161 L:20&21
"single balanced pair cabling" - CL:147.8 P:167 L:25

SuggestedRemedy

Suggest scubbing Clause 147 and making all references to the channel consistent.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Use "single balanced pair of conductors" everywhere

Cl **147**   *SC* **147.1.2**   *P* **145**   *L* **38**   # 197
Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] . at least 15 meters .

SuggestedRemedy

. at least 15 meters cable .

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #401

Cl **147**   *SC* **147.1.2**   *P* **145**   *L* **41**   # 430
Wienckowski, Natalie   General Motors

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

still have twisted-pair

SuggestedRemedy

Change "single balanced twisted-pair copper cable" to "single balanced pair of conductors".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #679

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 **147**
SC **147.1.2**

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8/29/2018 11:28:00 AM

Cl **147**   *SC* **147.1.2**   *P* **145**   *L* **41**   # 689

Xu, Dayin   Rockwell Automation

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

Should not use "single twisted-pair copper cable"

SuggestedRemedy

Change ". using a single twisted-pair copper cable ..." to ". using a single balanced pair of conductors ."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #679

Cl **147**   *SC* **147.1.2**   *P* **145**   *L* **41**   # 198

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] . interconnecting up to at least 8 PHYs, to a trunk up to .

SuggestedRemedy

. interconnecting up to at least 8 PHYs to a trunk up to . (remove comma)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Change:
====
least 8 PHYs, to a trunk up to at least 25 m.
====
to
====
least 8 PHYs to a trunk up to at least 25 m in reach.
====

Note: the 2 non-breaking white-spaces

Cl **147**   *SC* **147.1.2**   *P* **145**   *L* **42**   # 199

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] . at the end of stubs up to 10 cm.

SuggestedRemedy

. at the end of stubs with a length of up to 10 cm.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.1.2**   *P* **145**   *L* **46**   # 380

Jones, Chad   Cisco

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

"low cost" should be "low-cost"

SuggestedRemedy

CHANGE TO: "low-cost"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #639

Cl **147**   *SC* **147.1.2**   *P* **145**   *L* **46**   # 490

Jones, Peter   Cisco

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

Many parts of the text missing building automation as an applucation.. Replace "industrial, automotive and automation controls" with "industrial, automotive and building automation controls".

SuggestedRemedy

Make suggested change

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #639

Cl **147**   *SC* **147.1.2**   *P* **145**   *L* **46**   # 152

Lewis, Jon   Dell EMC

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

Sentence doesn't add value to the specification and provides no new information to the reader.

SuggestedRemedy

Remove the sentence.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.
Already dealt with by #639

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 54 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.1.2**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**	*SC* **147.1.2**	*P* **145**	*L* **46**	#	200

Graber, Steffen   Pepperl+Fuchs GmbH

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

Should we talk in any way about "low cost" here?

SuggestedRemedy

If it is ok to do so, keep this paragraph in, otherwise just remove the paragraph.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #639

Cl **147**	*SC* **147.1.2**	*P* **145**	*L* **46**	#	678

Donahue, Curtis   UNH-IOL

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

Not sure what the intent of this paragraph is. Only contains text suggesting markets that a 10BASE-T1S PHY can be applied.

SuggestedRemedy

Suggest removing paragraph from line 46 to 47.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.
Already dealt with by #639

Cl **147**	*SC* **147.1.2**	*P* **146**	*L* **2**	#	201

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] . are contained in the PCS .

SuggestedRemedy

. are contained within the PCS .

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**	*SC* **147.1.2**	*P* **146**	*L* **20**	#	440

Wienckowski, Natalie   General Motors

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

The shaded boxes are supposed to represent PHY sublayers. The MDI is not a PHY sublayer.

SuggestedRemedy

Remove the shading from the MDI box in Figure 147-1.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
TODO: Harmonize 147-1 to 1-1
Note: "Figure 1-1-IEEE 802.3 standard relationship to the ISO/IEC Open Systems Interconnection (OSI) reference model" does have shading (even more extensive and in different style)

Cl **147**	*SC* **147.2**	*P* **147**	*L*	#	714

Kabra, Lokesh   Synopsys Inc

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

CRS & COL signals missing in Figure 147-2

SuggestedRemedy

Add CRS, COL signals towards MII in Fig 147-2

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**	*SC* **147.2**	*P* **147**	*L* **4**	#	202

Graber, Steffen   Pepperl+Fuchs GmbH

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

COL and CRS signals are missing in Figure 147-2.

SuggestedRemedy

Please add signals COL and CRS leading from the PCS to the MII.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 55 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.2**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**   *SC* **147.2**   *P* **147**   *L* **4**   # 203
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **T**   *Comment Status* **D**   *EZ*
BI_DA+/BI_DA- signal is missing in Figure 147-2

SuggestedRemedy
Please add bidirectional differential signal BI_DA+/BI_DA- between PMA and MDI.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #376

Cl **147**   *SC* **147.2**   *P* **147**   *L* **6**   # 376
Matheus, Kirsten   BMW AG

Comment Type **ER**   *Comment Status* **D**   *EZ*
The MDIO arrow in the picture is missing an arrow head in the other direction. The output from the PMA is missing. I am not sure, but should not be the COL and CRS be added?

SuggestedRemedy
MDIO arrow heads in both directions. Add BI_DA+ and BI_DA- to the PMA. Potentially dashed COL and CRS from PCS.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
TODO:
- Add bidi MDIO arrows to both 147-2 and 147-3
- Add BI_DA+ and BI_DA- (steal from 147-10)
- Add dashed COL, CRS and PCS

Cl **147**   *SC* **147.2**   *P* **147**   *L* **33**   # 690
Xu, Dayin   Rockwell Automation

Comment Type **T**   *Comment Status* **D**   *EZ*
Lack of COL and CRS signals on MII interface side in the figure 147-2

SuggestedRemedy
Add COL and CRS signals into the MII interface in Figure 147-2

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

Cl **147**   *SC* **147.3.1**   *P*   *L* **3**   # 643
Thompson, Geoff   GraCaSI S.A.

Comment Type **TR**   *Comment Status* **D**   *EZ*
It is not clear from the description whether "PCS Reset" produces a level or a pulse on its output. i.e. does it take a !PCS Reset to complete the reset and release the device for operation.

SuggestedRemedy
Clarify

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
WORK WITH PIER ON THIS
Change this:
====
PCS reset initializes all PCS functions. The PCS Reset function shall be executed whenever one of the following conditions occur:
a) Power on (see 36.2.5.1.3).
B) The receipt of a request for reset from the management entity.
PCS Reset shall set pcs_reset = ON while any of the above reset conditions holds true. All state diagrams take the open-ended pcs_reset branch upon execution of PCS Reset. The reference diagrams do not explicitly show the PCS Reset function.
====
to this:
====
PCS reset initializes all PCS functions. The PCS Reset function shall be executed whenever any of the following conditions occur:
a) Power on causes power_on = TRUE (see 36.2.5.1.3) while pcs_reset = OFF.
B) The receipt of a request for reset from the management entity (see 3.2291.15 in 45.2.3.58e.1), independently from the current state of pcs_reset.
All state diagrams take the open-ended pcs_reset branch upon execution of PCS Reset.
PCS Reset shall keep pcs_reset = ON until the complete execution of the PCS Reset function, after which it is set to pcs_reset = OFF. The reference diagrams do not explicitly show the PCS Reset function.
====

Cl **147**   *SC* **147.3.1**   *P* **148**   *L* **14**   # 205
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] Connection dots in Figure 147-3 are missing.

SuggestedRemedy
Please add signal nets connection dots to Figure 147-3.

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 56 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.3.1**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**   *SC* **147.3.2**   *P* **152**   *L* **34**   # 693
Xu, Dayin   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   *EZ*
Better to move "tx_sym <= SSD" before "err <= err + pcs_txer" to make the sequence
consistent with other status (e.g. SILENT and SYNC1)

SuggestedRemedy
move "tx_sym <= SSD" before "err <= err + pcs_txer"

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

Cl **147**   *SC* **147.3.2.1**   *P* **149**   *L* **13**   # 691
Xu, Dayin   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   *EZ*
Delete "a group of"

SuggestedRemedy
Change ". passes a group of two SYNC ." to ". passes two SYNC ..."

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

Cl **147**   *SC* **147.3.2.1**   *P* **149**   *L* **14**   # 403
Jones, Chad   Cisco

Comment Type **E**   *Comment Status* **D**   *EZ*
"followed by two SSD symbols which replaces the first 16 bits of the packet preamble"
symbols replace the first.

SuggestedRemedy
CHANGE TO: "followed by two SSD symbols which replace the first 16 bits of the packet
preamble"

Proposed Response   *Response Status* **W**
PROPOSED REJECT.
Already dealt with by #206

Cl **147**   *SC* **147.3.2.1**   *P* **149**   *L* **14**   # 206
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] replaces

SuggestedRemedy
replace (plural)

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

Cl **147**   *SC* **147.3.2.1**   *P* **149**   *L* **21**   # 207
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] The 10BASE-T1S .

SuggestedRemedy
The 10BASE-T1S PHY .

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

Cl **147**   *SC* **147.3.2.2**   *P* **149**   *L* **48**   # 692
Xu, Dayin   Rockwell Automation

Comment Type **T**   *Comment Status* **D**   *EZ*
Use "TRUE or FALSE" or "ON or OFF"? pcs_txen on line 30 use "TRUE or FALSE" but
here use "ON or OFF". It seems not consistent.

SuggestedRemedy
Task Fore needs to discuss to determine when to use "TRUE or FALSE" and when to use
"ON or OFF". The change should be made based on the outcome of the discussion.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Change the definition of all references (also in figures) to pcs_reset and plca_en to use
"TRUE or FALSE" instead of "ON or OFF"
Notes:
- In figures shortening from "signal = TRUE" to "pcs_reset", and "pcs_reset = FALSE" to
"!pcs_reset" not only works but preferred (note: pcs_reset is just an example of a signal
that now becomes "TRUE or FALSE")
- Clauses 146 and 148 are also affected

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 57 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.3.2.2**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**   *SC* **147.3.2.2**   *P* **149**   *L* **54**   # 208

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] Commas at end of lines [54 and next page 1] are missing.

SuggestedRemedy

Add 2 x a comma after "asserted".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
- Add a period (dot) after "when a BEACON request is asserted", making it "when a
BEACON request is asserted."
- Add a period (dot) after "COMMIT request is asserted", making it "COMMIT request is
asserted."

Cl **147**   *SC* **147.3.2.2**   *P* **150**   *L* **11**   # 209

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] When this variable is set to TRUE it indicates .

SuggestedRemedy

When this variable is set to TRUE, it indicates . (comma is missing).

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.3.2.3**   *P* **151**   *L* **1**   # 330

Yseboodt, Lennart   Signify

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

In Table 147-1 there are a number of empty cells.
Empty table shalls should be notes as intentionally empty with an em-dash.

SuggestedRemedy

Add em-dash to the empty cells.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.
Already dealt with by #14

Cl **147**   *SC* **147.3.2.3**   *P* **151**   *L* **3**   # 14

Huszak, Gergely   Kone

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

Table format is not harmonized with the rest of the clause

SuggestedRemedy

Put em-dash to 16 places to under "Special function" for 0-F

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.3.2.5**   *P* **153**   *L* **50**   # 112

Anslow, Pete   Ciena

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

Spurious extra "figure" in "shift register is shown in figure Figure 147-6"

SuggestedRemedy

Delete "figure"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.3.2.5**   *P* **153**   *L* **50**   # 210

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] . of self-synchronizing scrambler by linear-feedback shift register ...

SuggestedRemedy

. of a self-synchronizing scrambler by a linear-feedback shift register . (add 2 x "a").

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.3.2.5**   *P* **153**   *L* **51**   # 211

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] At every MII clock cycle, for each bit of TXD[3:0] the scrambler .

SuggestedRemedy

At each MII clock cycle, for each bit of TXD[3:0], the scrambler . (replace every by each
and add a comma)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 58 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.3.2.5**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147** *SC* **147.3.3.1** *P* **154** *L* **21** # 694
Xu, Dayin   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   *EZ*
It is a little strange to have this note here because it does not specify anything actually.

SuggestedRemedy
Delete the note.

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

Cl **147** *SC* **147.3.3.1** *P* **154** *L* **21** # 15
Huszak, Gergely   Kone

Comment Type **E**   *Comment Status* **D**   *EZ*
Text of text "Note:" does not harmonize with the rest of the clauses

SuggestedRemedy
Remove bold attribute from "Note:"

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #694

Cl **147** *SC* **147.3.3.1** *P* **154** *L* **21** # 405
Jones, Chad   Cisco

Comment Type **E**   *Comment Status* **D**   *EZ*
missing word: "can still be detected by the PMA exploiting the absence of DME activity on the line." BY exploiting the absence?

SuggestedRemedy
CHANGE TO: "can still be detected by the PMA by exploiting the absence of DME activity on the line."

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #694

Cl **147** *SC* **147.3.3.1** *P* **154** *L* **28** # 212
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] Transmit functions

SuggestedRemedy
Transmit function (there is only one function)

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

Cl **147** *SC* **147.3.3.1** *P* **154** *L* **40** # 213
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] . ESDOK and ESDERR see 147.3.2.2.

SuggestedRemedy
. ESDOK, and ESDERR see 147.3.2.2. (add comma after ESDOK).

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

Cl **147** *SC* **147.3.3.2** *P* **154** *L* **47** # 214
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] When it is set to TRUE it indicates .

SuggestedRemedy
When it it set to TRUE, it indicates . (add comma).

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

Cl **147** *SC* **147.3.3.2** *P* **154** *L* **53** # 215
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] This variable is set after bit 8 in MDIO register 0 defined in Table 22-7.

SuggestedRemedy
If MDIO is being implemented, this variable is set according to bit 8 in MDIO register 0, defined in Table 22-7.

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 **147**
SC **147.3.3.2**

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8/29/2018 11:28:00 AM

Cl **147**   *SC* **147.3.3.2**   *P* **155**   *L* **12**   # 216

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] Received 5b symbol .

SuggestedRemedy

Received 5B symbol . (B should be capital).

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.3.3.2**   *P* **155**   *L* **19**   # 217

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] PCS Receive process

SuggestedRemedy

PCS receive function (which is the terminology in the rest of the document).

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
- 155/19: Change "PCS Receive process" to "PCS Receive Function"
- 111/6: If accepted, inform Steffen about it

Cl **147**   *SC* **147.3.3.2**   *P* **155**   *L* **27**   # 218

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] Dot is missing at end of line.

SuggestedRemedy

Add "." after . PCS RX clock.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.3.3.5**   *P* **155**   *L* **37**   # 219

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] exclusive OR

SuggestedRemedy

exclusive-OR (to be aligned with the description in chapter 147.3.2.5).

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
- Change all occurrences of "exclusive OR" to "exclusive-OR"
- Inform other editors, if other clauses are affected

Cl **147**   *SC* **147.3.3.5**   *P* **156**   *L* **1**   # 220

Graber, Steffen   Pepperl+Fuchs GmbH

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

In Figures 147-8 and 147-9 the pcs_rxd vector is net set into quotation marks (as in clause 146).

SuggestedRemedy

Set the 4-bit binary vectors in quotation marks or remove the quotation marks in Clause 146.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
TODO: remove the quotation marks on binary numbers/vectors
Note: clauses 146 and 148 may also be affected

Cl **147**   *SC* **147.3.3.5**   *P* **156**   *L* **21**   # 525

Beruto, Piergiorgio   Canova Tech Srl

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

In figure 147-8 the state named "SYNC" could be renamed to "SYNCING" for disambiguation with "SYNC" symbol.

SuggestedRemedy

In figure 147-8 rename "SYNC" state to "SYNCING".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 60 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.3.3.5**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**   *SC* **147.3.3.5**   *P* **156**   *L* **21**   # 519
Beruto, Piergiorgio   Canova Tech Srl

Comment Type **E**   *Comment Status* **D**   *EZ*
Recirculating arc in WAIT_SSD state of figure 147-8 is not needed

SuggestedRemedy
In figure 147-8 delete the recirculating arc along with the ELSE condition.

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

Cl **147**   *SC* **147.3.3.5**   *P* **156**   *L* **30**   # 221
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] RSCD * precnt != 9

SuggestedRemedy
For better reading the condition should not be divided by the arrow line.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Stretch the bottom part of the arrow downwards and out both lines of the text above the arrow's bottom

---

Cl **147**   *SC* **147.3.3.5**   *P* **157**   *L* **20**   # 222
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] Font style of 0000 (left side) does not fit rest of document.

SuggestedRemedy
Change font style according to document style rules.

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

Cl **147**   *SC* **147.3.5**   *P* **158**   *L* **17**   # 223
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] . in the symbol sequence.

SuggestedRemedy
. within the symbol sequence.

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

Cl **147**   *SC* **147.3.6**   *P* **158**   *L* **23**   # 135
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
22.2.2.11 and 22.2.2.12 are included in the draft, so references to them should be cross-references.

SuggestedRemedy
Change "22.2.2.11" to be a cross-reference in:
147.3.6 (page 158, line 23)
148.4.5.1 (page 180, line 36)
Change "22.2.2.12" to be a cross-reference in:
148.4.5.1 (page 180, line 36)

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

Cl **147**   *SC* **147.3.7**   *P* **159**   *L* **3**   # 224
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] When PLCA .

SuggestedRemedy
If PLCA . (on page 159 there are several "when" conditions, likely they need to be converted to "if" conditions, as there is no timely reference, but it is meant to be conditional).

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 61 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.3.7**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**	*SC* **147.3.7.1**	*P* **159**	*L* **12**	#	225

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
　　[EASY] . than a 'N' code.

SuggestedRemedy
　　. than an 'N' code. ('an' instead of 'a').

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

Cl **147**	*SC* **147.3.7.2**	*P* **159**	*L* **19**	#	226

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
　　[EASY] . the MII signals RX_DV, RX_ER and RXD shall .

SuggestedRemedy
　　. the MII signals RX_DV, RX_ER, and RXD<3:0> shall . (add comma and <3:0>)

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

Cl **147**	*SC* **147.4**	*P*	*L* **2**	#	651

Thompson, Geoff   GraCaSI S.A.

Comment Type **ER**   *Comment Status* **D**   *EZ*
　　The PHY doesn't provide "both" half-duplex and full duplex communication.

SuggestedRemedy
　　Change "both" to "either"

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

Cl **147**	*SC* **147.4**	*P* **159**	*L* **34**	#	227

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
　　[EASY] Font style of Figure 147-10 does not match rest of the document.

SuggestedRemedy
　　Please change font style of Figure 147-10 to match other drawings.

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

Cl **147**	*SC* **147.4**	*P* **159**	*L* **35**	#	228

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **T**   *Comment Status* **D**   *EZ*
　　PMA_UNITDATA.indication (rx_sym) and PMA_UNITDATA.request (tx_sym) seem to be
　　reversed.

SuggestedRemedy
　　Please move PMA_UNITDATA.request (tx_sym) to PMA Transmit block and
　　PMA_UNITDATA.indication (rx_sym) to PMA Receive block (direction of arrows is already
　　ok and needs no change, only the text)

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

Cl **147**	*SC* **147.4**	*P* **159**	*L* **35**	#	229

Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
　　[EASY] Arrow from PMA transmit to BI_DA+/- is missing.

SuggestedRemedy
　　Add an arrow in line 35 from PMA Transmit to BI_DA+/-.

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

Cl **147**	*SC* **147.4.2**	*P*	*L* **17**	#	652

Thompson, Geoff   GraCaSI S.A.

Comment Type **ER**   *Comment Status* **D**   *EZ*
　　There is no obvious antecedent for the word "these". Additionally this entire sentence
　　seems badly out of place.

SuggestedRemedy
　　Move the sentence to wherever the output waveform is spec'd in terms of voltage.
　　147.5.4.1 doesn't seem to fit so the answer is not obvious to me.

Proposed Response   *Response Status* **W**
　　PROPOSED ACCEPT IN PRINCIPLE.
　　Remove the single paragraph at 160/17-19

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 **147**
SC **147.4.2**

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Cl **147**   *SC* **147.4.2**   *P* **160**   *L* **47**   # 12
Huszak, Gergely   Kone

Comment Type **E**   *Comment Status* **D**   *EZ*
    Column headers of "Table 147-2-DME Timings" are off (do not harmonize with those
    "Table 147-3-MDI impedance limit parameters")

SuggestedRemedy
    Make the following changes:
    - "" (first column) to "Parameter name"
    - "Parameters" to "Description"
    - "Min" to "Minimum value"
    - "Typ" to "Nominal value"
    - "Max" to "Maximum value"
    - "Units" to "Unit of measure"

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

Cl **147**   *SC* **147.4.2**   *P* **161**   *L* **5**   # 231
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
    [EASY] comma before if is missing.

SuggestedRemedy
    Add a comma before "if".

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

Cl **147**   *SC* **147.4.2**   *P* **161**   *L* **14**   # 232
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
    [EASY] comma before if is missing.

SuggestedRemedy
    Add a comma before "if".

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

Cl **147**   *SC* **147.4.2**   *P* **161**   *L* **15**   # 233
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
    [EASY] . until next bit.

SuggestedRemedy
    . until the next bit (add "the").

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

Cl **147**   *SC* **147.4.3**   *P* **161**   *L* **24**   # 234
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
    [EASY] The PMA receive function .

SuggestedRemedy
    The PMA Receive function . (capital "R").

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

Cl **147**   *SC* **147.4.3**   *P* **161**   *L* **25**   # 235
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
    [EASY] . the PMA Receive .

SuggestedRemedy
    . the PMA Receive function .

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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 63 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.4.3**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**　　　*SC* **147.4.4**　　　　　　*P*　　*L* **30**　　　　# 655
Thompson, Geoff　　　　　　　　　GraCaSI S.A.

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

What is this clause? Is it normative or informative? If it is informative then it is not needed. If it is normative then it actually needs to include actual specifications

SuggestedRemedy

Fix.

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Remove "147.4.4 PMA Clock recovery" and its contant (effectively 161/28-32)

Cl **147**　　　*SC* **147.5.1.2**　　　　*P* **162**　　*L* **4**　　　# 407
Jones, Chad　　　　　　　　　　　Cisco

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

another inappropriate instance of customer and supplier: "and may need to comply with more stringent requirements as agreed upon between customer and supplier."

SuggestedRemedy

CHANGE TO: "and may need to comply with more stringent requirements ."

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

Cl **147**　　　*SC* **147.5.3**　　　　　　*P* **162**　　*L* **36**　　　# 681
Donahue, Curtis　　　　　　　　　UNH-IOL

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

This is the Test Fixture subclause but has no mention of the two test fixture figures defined in this Clause.

SuggestedRemedy

Suggest the following changes:

1. modifying the text in the first paragraph to be similar to that in "55.5.2.1 Test Fixtures".
2. Move Figure 147-12 and 147-14 to subclause 147.5.3.
3. Rename Figure 147-12 to "Transmitter test fixture 1 for transmitter voltage, transmitter droop, and transmitter timing jitter".
4. Rename Figure 147-14 to "Transmitter test fixture 2 for power spectral density measurement".

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
TODO:
1. Add the following text above the first paragraph in 147.5.3:
====
The following fixtures (illustrated by Figure 147-12, and Figure 147-14), or their functional equivalents, can be used for measuring the transmitter specifications described in 147.5.4.
====
2. Move Figure 147-12 and 147-14 to subclause 147.5.3.
3. Rename "Figure 147-12-Test fixture" to "Figure 147-12-Transmitter test fixture 1 for transmitter voltage, transmitter droop, and transmitter timing jitter"
4. Rename "Figure 147-14-Transmitter test fixture 2 for PSD mask" to "Figure 147-13-Transmitter test fixture 2 for power spectral density measurement"
Note: verify renumbering 147-14->147-13, which should happen because of point 2
Note: clause 146 also affected

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general　　　　*Cl* **147**　　　Page 64 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected　　RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn　　*SC* **147.5.3**　　8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**   *SC* **147.5.4.1**   *P*   *L* **3**   # 654
Thompson, Geoff   GraCaSI S.A.

Comment Type **ER**   *Comment Status* **D**   *EZ*
This clause should actually start with the content claimed in the title, not the test for it.
Further, the tests for that spec (rest of this para plus next cl./droop should be subordinate
to this clause.

SuggestedRemedy
Move 1st sentence & figure to new subordinate clause. Make 147.5.4.2 also a subordinate
clause.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
TODO:
- "147.5.4.1 Transmitter output voltage" will have only "The transmitter output voltage shall
be 1 V ± 20 % peak-to-peak differential."
- The new chapter "147.5.4.1.1 Transmitter tests" having "Transmitter output voltage shall
be tested using test mode 1 in combination with the test fixture shown in Figure 147-12."
and "Figure 147-12-Test fixture"
- Change "147.5.4.2 Transmitter output droop" to "147.5.4.1.2 Transmitter output droop"

Cl **147**   *SC* **147.5.4.1**   *P* **163**   *L* **6**   # 16
Huszak, Gergely   Kone

Comment Type **E**   *Comment Status* **D**   *EZ*
Fonts and alignments in the figure are off

SuggestedRemedy
Make the fonts same within this figure and other figures in the clause, and fix text
alignments

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

Cl **147**   *SC* **147.5.4.1**   *P* **163**   *L* **6**   # 11
Huszak, Gergely   Kone

Comment Type **E**   *Comment Status* **D**   *EZ*
Resistor is off

SuggestedRemedy
Make it a polygon

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

Cl **147**   *SC* **147.5.4.1**   *P* **163**   *L* **8**   # 620
Brandt, David   Rockwell Automation

Comment Type **T**   *Comment Status* **D**   *EZ*
Figure does not show different impedances for link segment and mixing segment

SuggestedRemedy
Replace:
100 O ± 0.1 %

With:
Transmitter Load

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

Cl **147**   *SC* **147.5.4.1**   *P* **163**   *L* **23**   # 331
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   *EZ*
The title of Figure 147-12 is "Test fixture".
That isn't very descriptive / specific...

SuggestedRemedy
Change to "Transmitter output voltage test fixture"

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #681

Cl **147**   *SC* **147.5.4.3**   *P* **164**   *L* **7**   # 238
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] Figure 147-14 belongs to Clause 147.5.4.4.

SuggestedRemedy
Move Figure 147-14 into Clause 147.5.4.4.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
It may already be there and we discussed to let Frame decide location of figures, even if it
is a bit off sometimes (also given the fact that the references are OK)

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 65 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.5.4.3**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**   *SC* **147.5.4.3**   *P* **164**   *L* **10**   # 621
Brandt, David   Rockwell Automation

Comment Type **T**   *Comment Status* **D**   EZ
Figure does not show different impedances for link segment and mixing segment

SuggestedRemedy
Replace:
100 O

With:
50 O (multidrop mode) or 100 O

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

Cl **147**   *SC* **147.5.4.3**   *P* **164**   *L* **13**   # 332
Yseboodt, Lennart   Signify

Comment Type **E**   *Comment Status* **D**   EZ
The title of Figure 147-14 is "Transmitter test fixture 2 for PSD mask".

I can't seem to find the first test fixture.

SuggestedRemedy
Change to "Transmitter test fixture for PSD mask"

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

Cl **147**   *SC* **147.5.4.4**   *P* **164**   *L* **13**   # 695
Xu, Dayin   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   EZ
The Figure 147-14 should not appear before the text.

SuggestedRemedy
Move the Figure 147-14 after line 20 page 164

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #238

Cl **147**   *SC* **147.5.4.4**   *P* **164**   *L* **21**   # 113
Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   EZ
This says: "The measured PSD shall be between the upper and lower bounds specified in the table below."
There is no table below (and anyway the table should be specifically cross-referenced).

SuggestedRemedy
Change to: "The measured PSD shall be between the upper and lower bounds specified in 147.5.4.4.1 and 147.5.4.4.2, respectively."

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

Cl **147**   *SC* **147.5.4.6**   *P* **165**   *L* **36**   # 623
Brandt, David   Rockwell Automation

Comment Type **T**   *Comment Status* **D**   EZ
Test setup is not specific enough for repeatability

SuggestedRemedy
Replace:
Link Segment

With:
25 m Link Segment

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT.
Change "Link Segment" to "Link or Mixing Segment"

Cl **147**   *SC* **147.5.4.6**   *P* **165**   *L* **40**   # 153
Lewis, Jon   Dell EMC

Comment Type **E**   *Comment Status* **D**   EZ
Resistor isn't aligned properly

SuggestedRemedy
Align resistor(s) properly with the connection lines in the drawing.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Note: use polygon

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 **147**
SC **147.5.4.6**
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Cl **147**   *SC* **147.5.4.6**   *P* **165**   *L* **48**   # 241
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
Headline PMA Local Loopback (and assigned chapter number) are missing.

SuggestedRemedy
Add a new headline "PMA Local Loopback" and asign an appropriate chapter number (it may be reasonable to move this chapter after chapter 147.5.4.7).

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
TODO:
- Create "147.5.4.8 PMA Local Loopback"
- Move 4 paragraphs (165/48-166/10) to under that

Cl **147**   *SC* **147.5.4.6**   *P* **165**   *L* **48**   # 624
Brandt, David   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   *EZ*
Topic is changed without new section header

SuggestedRemedy
Insert header and renumber:
147.5.4.7 PMA local loopback mode

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
See also #241, #696 and #408 and put "Already dealt with by" here

Cl **147**   *SC* **147.5.4.6**   *P* **165**   *L* **48**   # 696
Xu, Dayin   Rockwell Automation

Comment Type **E**   *Comment Status* **D**   *EZ*
The paragraphes (Line 48-51 on page 165 and line 1-10 on page 166) does not belong to this sub-clause (147.5.4.6)

SuggestedRemedy
The paragraphes (Line 48-51 on page 165 and line 1-10 on page 166) should be moved before 147.5 PMA electrical specifications as a new sub-clause 147.4.5 PMA Loopback

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #241

Cl **147**   *SC* **147.5.4.6**   *P* **166**   *L* **5**   # 408
Jones, Chad   Cisco

Comment Type **E**   *Comment Status* **D**   *EZ*
"When the PHY is in the PMA local loopback mode, if the PHY supports full-duplex mode of operation, the PMA Receive function utilizes the echo signals from the unterminated MDI and decodes these signals to pass the data back to the MII Receive interface.
If the PHY supports half-duplex mode of operation, the PMA and PCS Receive functions shall pass to the MII RX the data decoded from the signal which is normally received during a transmission for the purpose of detecting collisions."
seems the second paragraph also needs the "When the PHY is in the PMA local loopback mode"

SuggestedRemedy
Either:
Add "When the PHY is in the PMA local loopback mode," to the front of the paragraph at line 5.
or:
delete line feed at line 5, adding the sentence at line 5 to the paragraph at line 1.

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #241

Cl **147**   *SC* **147.6**   *P* **166**   *L* **19**   # 243
Graber, Steffen   Pepperl+Fuchs GmbH

Comment Type **E**   *Comment Status* **D**   *EZ*
[EASY] 10BASE-T1S

SuggestedRemedy
A 10BASE-T1S PHY

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

Cl **147**   *SC* **147.7**   *P* **166**   *L* **27**   # 493
Jones, Peter   Cisco

Comment Type **TR**   *Comment Status* **D**   *EZ*
Change "such as industrial, automotive and automation controls" to "such as industrial, automotive and building automation controls"

SuggestedRemedy
Make suggested change

Proposed Response   *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #639

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 **147**
SC **147.7**

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Cl **147**	*SC* **147.7.2**	*P* **166**	*L* **48**	# 245

Graber, Steffen   Pepperl+Fuchs GmbH

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

The text defines 0.1 MHz to 20 MHz, the equation specifies 0.3 MHz to 40 MHz.

SuggestedRemedy

As for 10BASE-T1S most parameters are specified from 0.3 MHz to 40 MHz, the text needs to be adapted to 0.3 MHz to 40 MHz.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**	*SC* **147.7.2**	*P* **166**	*L* **48**	# 244

Graber, Steffen   Pepperl+Fuchs GmbH

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

20 (line break) MHz

SuggestedRemedy

20 MHz (add a non breakable space between 20 and MHz).

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.
Already dealt with by #13

Cl **147**	*SC* **147.7.2**	*P* **166**	*L* **49**	# 562

DiBiaso, Eric   TE Connectivity

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

The text ".... using Equation (147-4) at all frequencies from 0.1 MHz to 20 MHz."

The frequency limits do not align with equation 147-4 which is 0.3 MHz to 40 MHz.

SuggestedRemedy

Replace text with the following to align with equation 147-4.

".... using Equation (147-4) at all frequencies from 0.3 MHz to 40 MHz."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.
Already dealt with by #245

Cl **147**	*SC* **147.7.3**	*P* **167**	*L* **16**	# 246

Graber, Steffen   Pepperl+Fuchs GmbH

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

Mode Conversion is specified for up to 200 MHz, while the frequency limits in line 20 are 0.3 to 40 MHz. Needs to be adjusted.

SuggestedRemedy

Likely the 200 MHz are a copying error and need to be set to 40 MHz.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**	*SC* **147.8**	*P* **167**	*L* **24**	# 247

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] . that meet the requirements .

SuggestedRemedy

. that meets the requirements . (add "s")

Proposed Response   *Response Status* **W**

PROPOSED REJECT.
Media is the plural of medium, thus the plural form of the verb.

Cl **147**	*SC* **147.8**	*P* **167**	*L* **28**	# 494

Jones, Peter   Cisco

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

Change "A mixing segment is specified based on automotive cabling" to "A mixing segment is specified based on cabling".

SuggestedRemedy

Make suggested change

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Change "A mixing segment is specified based on automotive cabling supporting up to at least eight nodes and 25 m of
cabling." to "A mixing segment is specified based on cabling that supports up to at least 8 nodes and 25 m in reach."
Note: Handle with #414

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 **147**
SC **147.8**

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Cl **147**   *SC* **147.8**   *P* **167**   *L* **28**   # 414

Jones, Chad   Cisco

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

"A mixing segment is specified based on automotive cabling supporting up to at least eight nodes and 25 m of cabling." this sentence implies that only automotive cabling is allowed. discussed this with the Chair, he informs that the mixing channel was DERIVED based upon automotive cabling. Therefore, it is much more accurate to say that. Also, let people know you can do more if you meet the cabling requirements.

SuggestedRemedy

CHANGE TO: "The mixing segment specification is derived from automotive cabling supporting up to at least eight nodes and 25 m of cabling. Larger PHY count and reach may be achieved provided the mixing segment specifications in this subclause are met."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
First sentence of the paragraph has already been dealt with by #494, so the following is proposed here: "A mixing segment is specified based on cabling that supports up to at least 8 nodes and 25 m in reach. Larger PHY count and/or reach may be achieved provided the mixing segment specifications in this subclause are met."

Cl **147**   *SC* **147.8**   *P* **167**   *L* **28**   # 248

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] . based on automotive cabling supporting up to at least .

SuggestedRemedy

. based on automotive cabling, supporting up to at least . (add comma)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.8**   *P* **167**   *L* **29**   # 249

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] . and reference points is shown .

SuggestedRemedy

. and reference points are shown . (plural)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.8.1**   *P* **168**   *L* **1**   # 250

Graber, Steffen   Pepperl+Fuchs GmbH

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

Ordering of Return Loss and Insertion loss is different to Clause 147.7.1 and 147.7.2.

SuggestedRemedy

Reverse ordering of Clauses 147.8.1 and 147.8.2 to be aligned with the previous Clause ordering.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.8.2**   *P* **168**   *L* **10**   # 688

Donahue, Curtis   UNH-IOL

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

The "and" in "MDI attachment and at the end of stubs of length up to 10 cm" seems to be a typo.

SuggestedRemedy

Remove the "and" so the section of text reads as "MDI attachment at the end of stubs of length up to 10 cm"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.9**   *P* **168**   *L* **24**   # 251

Graber, Steffen   Pepperl+Fuchs GmbH

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

The MDI interface connector definition is still requiring shieldid connections.

SuggestedRemedy

Likely a 2 pin connector (BI_DA+ and BI_DA-) needs to be defined and all references to the shield need to be removed from the text.

Proposed Response   *Response Status* **W**

PROPOSED REJECT.
The text 147.9.1 does not require a shielded cable.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 69 of 76

COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.9**   8/29/2018 11:28:00 AM

SORT ORDER: Clause, Subclause, page, line

Cl **147**	*SC* **147.9.2**	*P* **168**	*L* **31**	# 409

Jones, Chad   Cisco

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

"based on imped- ance Equation (147-6) "

SuggestedRemedy

CHANGE TO: "based on THE impedance IN Equation (147-6)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Change "based on impedance Equation (147-6)" to "per"

Cl **147**	*SC* **147.9.2**	*P* **168**	*L* **33**	# 684

Donahue, Curtis   UNH-IOL

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

Ctot is defined in the paragraph, but not actually used in Equation 147-6.

SuggestedRemedy

Remove references and language specific to Ctot.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**	*SC* **147.9.2**	*P* **168**	*L* **37**	# 630

Brandt, David   Rockwell Automation

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

Numerator 1 is too large of a font

SuggestedRemedy

Match fonts in equation

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #333

Cl **147**	*SC* **147.9.2**	*P* **168**	*L* **37**	# 410

Jones, Chad   Cisco

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

EQ 147-6. The font for the numerator is HUGE. Fix it.

SuggestedRemedy

change font in numerator of Eq 147-6 to match the rest of the Eq.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.
Already dealt with by #333

Cl **147**	*SC* **147.9.2**	*P* **168**	*L* **37**	# 333

Yseboodt, Lennart   Signify

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

Equation 147-6 has a formatting issue (inflated '1').

SuggestedRemedy

Make '1' a normal size.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**	*SC* **147.9.2**	*P* **168**	*L* **38**	# 17

Lusted, Kent   Intel

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

The numerator in Equation 147-6 is usually large.

SuggestedRemedy

Consider making the numerator uniform in size with the fonts in the denominator.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Already dealt with by #333

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 **147**
SC **147.9.2**

Page 70 of 76
8/29/2018 11:28:00 AM

Cl **147**   *SC* **147.9.3**   *P* **168**   *L* **45**   # 422
Jones, Chad   Cisco

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

This section is titled MDI fault tolerance but includes tolerance of PoDL voltages which is a normal operating condition. On top of it, this compound shall statement potentially makes it difficult to parse the requirements. Suggest to split this into two sections and split the requirements into two shalls.
I also took the liberty to rearrange the sentence structure for easier parsing.

SuggestedRemedy

Break 147.9.3 into two sections.
REPLACE 147.9.3 with:
147.9.3 MDI PoDL voltage tolerance
The wire pair of the MDI shall withstand without damage the application of positive voltages of up to 60 V dc with the source current limited to 1200 mA, under all operating conditions, for an indefinite period of time. This requirement ensures that all devices tolerate PoDL voltages even if the device does not require power.
147.9.4 MDI fault tolerance
The wire pair of the MDI shall withstand without damage the application of short circuits of any wire to the other wire of the same pair or ground potential, as per Table 147-4, under all operating conditions, for an indefinite period of time. Normal operation shall resume after the short circuit(s) is/are removed.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
TODO:
- Change "147.9.3 MDI fault tolerance" to "147.9.3 MDI PoDL voltage tolerance"
- Put the following text under "147.9.3 MDI fault tolerance":
====
The wire pair of the MDI shall withstand without damage the application of positive voltages of up to 60 V dc with the source current limited to 1200 mA, under all operating conditions indefinitely. This requirement ensures that all devices tolerate PoDL voltages even if the device does not require power.
====
- Create new chapter "147.9.4 MDI fault tolerance"
- Put the following text under "147.9.4 MDI fault tolerance":
====
The wire pair of the MDI shall withstand without damage the application of short circuits of any wire to the other wire of the same pair or ground potential, as per Table 147-4, under all operating conditions indefinitely. Normal operation shall resume after all short circuits have been removed.
====
Note: mind the links

Cl **147**   *SC* **147.10.2**   *P* **169**   *L* **42**   # 497
Jones, Peter   Cisco

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

Add "The designer is urged to consult the relevant local, national, and international safety regulations to ensure compliance with the appropriate requirements." from 3bz 126.9.2
Network safety

SuggestedRemedy

Make suggested change

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.10.2.2**   *P* **170**   *L* **25**   # 413
Jones, Chad   Cisco

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

yet another inappropriate customer and supplier reference. "In addition, the system may need to comply with more stringent requirements as agreed upon between customer and supplier, for the limitation of electromagnetic interference."

SuggestedRemedy

CHANGE TO: "In addition, the system may need to comply with more stringent requirements for the limitation of electromagnetic interference."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**   *SC* **147.10.2.2**   *P* **170**   *L* **28**   # 499
Jones, Peter   Cisco

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

The text says "10BASE-T1S PHY shall be tested according to IEC CISPR 25 test methods...". CISPR 25 seems to be only applicable to automotive environments (https://webstore.iec.ch/publication/26122 CISPR 25:2016 Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receiver)

SuggestedRemedy

Either remove the CISPR 25 tesr, add equievelent tests for industrial and building environments, or expalin how CISPR 25 applies to industrial and building environments.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Remove 170/27-29, namely "A 10BASE-T1S PHY shall be tested according to IEC CISPR 25 test methods defined to measure the PHY's EMC performance in terms of radio frequency (RF) immunity and RF emissions."

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **147**   Page 71 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **147.10.2.2**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **147**	*SC* **147.12.1**	*P* **171**	*L* **7**	#	115

Anslow, Pete   Ciena

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

". claimed to conform to Clause 147, clause title, shall ." should be ". claimed to conform to Clause 147, Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer and baseband medium, type 10BASE-T1S, shall ."

SuggestedRemedy

Change ". claimed to conform to Clause 147, clause title, shall ." to ". claimed to conform to Clause 147, Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer and baseband medium, type 10BASE-T1S, shall ."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **147**	*SC* **147.12.2.2**	*P* **171**	*L* **35**	#	116

Anslow, Pete   Ciena

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

"IEEE Std 802.3xx-201x" should be "IEEE Std 802.3cg-201x" in two places.
", clause title" should be ", Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer and baseband medium, type 10BASE-T1S"

SuggestedRemedy

Change "IEEE Std 802.3xx-201x" to "IEEE Std 802.3cg-201x" in two places.
Change ", clause title" to ", Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer and baseband medium, type 10BASE-T1S"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **148**	*SC* **148.3**	*P* **173**	*L* **38**	#	118

Anslow, Pete   Ciena

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

"Clause 90" is an external cross-reference, so should be in forest green

SuggestedRemedy

Apply Character Tag "External" to "Clause 90"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **148**	*SC* **148.3**	*P* **174**	*L* **27**	#	253

Graber, Steffen   Pepperl+Fuchs GmbH

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

[EASY] "PMA" text is overlaying the Figure 148-1 description.

SuggestedRemedy

Remove "PMA" from line 27.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

Cl **148**	*SC* **148.3**	*P* **174**	*L* **28**	#	687

Donahue, Curtis   UNH-IOL

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

Looks like there is a strange image artificate in the title of Figure 148-1. "PMA" appeasrs in small text overlaying "model and".

SuggestedRemedy

Remove rogue "PMA" text from figure

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Solved by #253

Cl **148**	*SC* **148.3**	*P* **174**	*L* **28**	#	697

Xu, Dayin   Rockwell Automation

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

A strange "PMA" text shown in the Figure Title

SuggestedRemedy

Clean up the title and delete "PMA"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
Solved by #253

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **148**   Page 72 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **148.3**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **148**	*SC* **148.3**	*P* **174**	*L* **28**	# 119

Anslow, Pete — Ciena

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

There is a spurious "PMA" just above the second line of the title of Figure 148-1

SuggestedRemedy
Delete it.

Proposed Response *Response Status* **W**
PROPOSED ACCEPT IN PRINCIPLE.
Solved by #253

Cl **148**	*SC* **148.4.1**	*P* **176**	*L* **19**	# 366

Matheus, Kirsten — BMW AG

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

in the text the variable is called rx_cmd with underscore. Is it correct that there is no tx_cmd in the picture?

SuggestedRemedy
exchange "rxcmd" with "rx_cmd"

Proposed Response *Response Status* **W**
PROPOSED ACCEPT.
In Figure 148-3 replace "rxcmd" with "rx_cmd"

Cl **148**	*SC* **148.4.3.4**	*P* **177**	*L* **48**	# 120

Anslow, Pete — Ciena

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

In "shall be the one specified in clause 22.2.1.4" the word "clause" should not be there and 22.2.1.4 should be in forest green.

SuggestedRemedy
change to "shall be the one specified in 22.2.1.4" and apply character tag "External" to "22.2.1.4".

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

Cl **148**	*SC* **148.4.3.5**	*P* **178**	*L* **14**	# 121

Anslow, Pete — Ciena

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

References to other subclauses in the 802.3 standard are not prefaced by "clause". Same issue in 148.4.3.6 and 148.4.3.7

SuggestedRemedy
In 148.4.3.5, 148.4.3.6, and 148.4.3.7 delete "clause"

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

Cl **148**	*SC* **148.4.4.1.1**	*P* **178**	*L* **34**	# 137

Anslow, Pete — Ciena

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

22.2.2.4 and 22.2.2.8 are included in the draft, so references to them should be cross-references.

SuggestedRemedy
Change "22.2.2.4" to be a cross-reference in:
148.4.4.1.1 (page 178, line 34)
148.4.4.1.2 (page 178, line 49)
Change "22.2.2.8" to be a cross-reference in:
148.4.4.1.1 (page 178, line 37)
148.4.4.1.3 (page 179, line 8)

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

Cl **148**	*SC* **148.4.4.1.1**	*P* **178**	*L* **43**	# 415

Jones, Chad — Cisco

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

"PHY specifications are free to map the BEACON request to any suitable line coding as long as the requirement defined herein are met."
a requirement IS met. REQUIREMENTS are met.

SuggestedRemedy
Make requirement plural.
Also, make the same change in 148.4.4.1.2 on page 179, line 1.

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 **148** *SC* **148.4.4.1.1** Page 73 of 76 8/29/2018 11:28:00 AM

Cl **148**	*SC* **148.4.5.1**	*P* **180**	*L* **23**	# 511	

Jones, Peter   Cisco

Comment Type **ER**   *Comment Status* **D**   *EZ*
    Why is this equation buried in text

SuggestedRemedy
    Fix.

Proposed Response   *Response Status* **W**
    PROPOSED ACCEPT IN PRINCIPLE.
    Separate equation from text and add reference to it in the original text instead.

Cl **148**	*SC* **148.4.5.1**	*P* **180**	*L* **43**	# 417	

Jones, Chad   Cisco

Comment Type **ER**   *Comment Status* **D**   *EZ*
    fix the English: "At this point, if the plca_crs variable is set to TRUE, the control state
    machine goes to RECEIVE state *for actually receiving* the packet"

SuggestedRemedy
    CHANGE TO: ""At this point, if the plca_crs variable is set to TRUE, the control state
    machine goes to RECEIVE state *to receive* the packet"

Proposed Response   *Response Status* **W**
    PROPOSED ACCEPT IN PRINCIPLE.
    Solved by #510

Cl **148**	*SC* **148.4.5.1**	*P* **181**	*L* **5**	# 122	

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
    "Table 22-1" should be a cross-reference.

SuggestedRemedy
    Make "Table 22-1" a cross-reference.

Proposed Response   *Response Status* **W**
    PROPOSED ACCEPT IN PRINCIPLE.
    Solved by #510

Cl **148**	*SC* **148.4.5.1**	*P* **182**	*L* **1**	# 139	

Anslow, Pete   Ciena

Comment Type **E**   *Comment Status* **D**   *EZ*
    Blank page

SuggestedRemedy
    Remove it.

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

Cl **148**	*SC* **148.4.5.4**	*P* **185**	*L* **35**	# 515	

Jones, Peter   Cisco

Comment Type **ER**   *Comment Status* **D**   *EZ*
    Change "Timer" to "The timer"

SuggestedRemedy
    make suggested change

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

Cl **148**	*SC* **148.4.5.4**	*P* **185**	*L* **35**	# 514	

Jones, Peter   Cisco

Comment Type **TR**   *Comment Status* **D**   *EZ*
    Change "enough to allow any PHY that meets its own transmit opportunity to have the first
    nibble " to "enough to alow the transmitting PHY to have the first nibble "

SuggestedRemedy
    make suggested change

Proposed Response   *Response Status* **W**
    PROPOSED ACCEPT IN PRINCIPLE.
    Fix typo in resolution.

    Change "enough to allow any PHY that meets its own transmit opportunity to have the first
    nibble " to "enough to allow the transmitting PHY to have the first nibble "

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **148**   Page 74 of 76
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **148.4.5.4**   8/29/2018 11:28:00 AM
SORT ORDER: Clause, Subclause, page, line

Cl **148** *SC* **148.4.5.4** *P* **185** *L* **41** # 140
Anslow, Pete Ciena

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

According to the rules set out in:
http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html#numbers
"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)."

SuggestedRemedy

In the definition of TO_TIMER, change "65535" to "65 535"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **148** *SC* **148.4.6.1** *P* **186** *L* **1** # 418
Jones, Chad Cisco

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

another State Diagram split across two figures.
"The PLCA Data function shall conform to the PLCA Data state diagram in Figure 148-6 and Figure 148-7 and associated state variables, functions, timers and messages."

SuggestedRemedy

delete "and Figure 148-7"
combine Figures 148-6 and 148-7 into one figure.
Rename "Figure 148-7" to "Figure 148-6 (continued)"
Search for other instances of "Figure 148-7" and delete or correct as needed.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.
NOTE FOR EDITORS: resolve this comment after any other

Cl **148** *SC* **148.4.6.1** *P* **186** *L* **26** # 141
Anslow, Pete Ciena

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

Incorrect multiply symbol used

SuggestedRemedy

replace with correct multiply symbol (Ctrl-q 0)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **148** *SC* **148.4.6.1** *P* **186** *L* **41** # 419
Jones, Chad Cisco

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

fixing the English: "... to prevent the MAC *to make* new transmit attempts until PLCA ."

SuggestedRemedy

CHANGE TO: "... to prevent the MAC *from making* new transmit attempts until PLCA ."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **148** *SC* **148.5.2.2** *P* **190** *L* **35** # 123
Anslow, Pete Ciena

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

"IEEE Std 802.3xx-201x" should be "IEEE Std 802.3cg-201x" in two places.

SuggestedRemedy

Change "IEEE Std 802.3xx-201x" to "IEEE Std 802.3cg-201x" in two places.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Cl **148** *SC* **148.5.3** *P* **191** *L* **6** # 125
Anslow, Pete Ciena

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

In the Subclause column of the table in 148.5.3 "22" and "146" should be cross-references. Likewise, in the Value/Comment column of the table in 148.5.4.1 and the table in 148.5.4.4, "Clause 22" should be cross-references.

SuggestedRemedy

In the Subclause column of the table in 148.5.3 make "22" and "146" cross-references. In the Value/Comment column of the table in 148.5.4.1 and the table in 148.5.4.4, make "Clause 22" a cross-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 **148**
SC **148.5.3**

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8/29/2018 11:28:00 AM

Cl **148**   *SC* **148.5.4.3**   *P* **192**   *L* **26**   # 126

Anslow, Pete   Ciena

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

In the Value/Comment column of the table in 148.5.4.3, "See 148-1" should be "See Equation (148-1)" and "See 148-2" should be "See Equation (148-2)"

SuggestedRemedy

In the Value/Comment column of the table in 148.5.4.3, change "See 148-1" to "See Equation (148-1)" and change "See 148-2" to "See Equation (148-2)" by changing the cross-reference format to "EquationNumber" in both cases.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Cl* **148**   Page 76 of 76

COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *SC* **148.5.4.3**   8/29/2018 11:28:00 AM

SORT ORDER: Clause, Subclause, page, line