Cl **00** *SC* **0** *P* *L* # 132

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

I believe the TF decided on "pairset" over "pair set" and "pair-set".

SuggestedRemedy

Replace all instances of "pair set" and "pair-set" with "pairset".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 15.

EZ

Cl **00** *SC* **0** *P* *L* # 139

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

Inconsistency with "4-pair", "4 pair", "four pair", etc.

SuggestedRemedy

Suggest replacing all other variants with 4-pair.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **00** *SC* **0** *P* *L* # 14

Bustos Heredia, Jairo Würth Elektronik eiSo

Comment Type **E** *Comment Status* **D** *Editorial*

For homogeneous writing, chose either "pair-to-pair" or "pair to pair" when using such termn

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Find and replace all "pair to pair" with "pair-to-pair"

EZ

Cl **00** *SC* **0** *P* *L* # 15

Bustos Heredia, Jairo Würth Elektronik eiSo

Comment Type **E** *Comment Status* **D** *Editorial*

For homogeneous writing, chose either "pair-set" or "pair set"

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace all occurances of "pair-set" with "pair set"

EZ

Cl **00** *SC* **0** *P* *L* # 16

Bustos Heredia, Jairo Würth Elektronik eiSo

Comment Type **E** *Comment Status* **D** *Editorial*

For homogeneous writing chose either "Physical Layer classification" or "physical layer classification"

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace all occurances of "physical layer classification" with "Physical Layer" classification as this was what was used in the existing standard.

EZ

Cl **00** *SC* **0** *P* *L* # 142

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

Inconsistency with the usage of "Autoclass", "Auto Class", and "Auto class".

SuggestedRemedy

Suggest replacing all other variants with "Autoclass".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **01** *SC* **1.3** *P* **18** *L* **5** # 158

Zimmerman, George — CME Consulting

Comment Type **ER** *Comment Status* **D** *Editorial*

Clause 1.3 and 1.5 are placeholders, which will be deleted if no new references or abbreviations are inserted

SuggestedRemedy

Either - add new references (abbreviations for 1.5)
OR - add editor's notes (one for 1.3 and one for 1.5) as follows:
Editor's note (to be removed prior to publication) - This clause is a placeholder for new content. If no new references (abbreviations for cl 1.5) are added prior to entering sponsor ballot, this clause will be deleted from the ballot draft.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **01** *SC* **1.4** *P* **18** *L* **14** # 263

Dwelley, David — Linear Technology

Comment Type **ER** *Comment Status* **D** *Editorial*

"pair set", "pair-set", and "pairset" have all been used in 802.3bt - pick one. "Pairset" is most unique and least likely to be misinterpreted.

SuggestedRemedy

Change "pair set" and "pair-set" to "pairset" throughout the document.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 15.

EZ

Cl **01** *SC* **1.4** *P* **18** *L* **14** # 175

Zimmerman, George — CME Consulting

Comment Type **T** *Comment Status* **D** *Editorial*

connection should be plural there are 2 sets.

SuggestedRemedy

change connection to connections

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **01** *SC* **1.4** *P* **18** *L* **14** # 131

Walker, Dylan — Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

"Pair set: Either of the two valid 4-wire connection as listed in 33.2.3."

Seems "connection" should be plural.

SuggestedRemedy

"Pair set: Either of the two valid 4-wire connections as listed in 33.2.3."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 175

EZ

Cl **33** *SC* *P* *L* # 384

Thompson, Geoff — GraCaSI S.A.

Comment Type **ER** *Comment Status* **D** *Editorial*

Draft has both "Auto class" and "Autoclass"

SuggestedRemedy

Pick one and use it consistently.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 142

EZ

Cl **33** *SC* **33** *P* **1** *L* **1** # 19

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Bulkcomment to make uses of minus/dash consistent when referencing to Tables, Equations and Figures.

- page 24, line 51, Table 33-1a
- page 33, line 21, Table 33-2a
- page 55, line 26, Table 33-17
- page 66, line 16, Equation 33-4a
- page 66, line 45, Equation 33-4a
- page 67, line 4, Equation 33-4a
- page 67, line 6, Equation 33-4a
- page 75, line 25, Table 33-13a
- page 91, line 37, Equation 33-12a
- page 94, line 39, Table 33-19a
- page 105, line 52, Equation 33-18a
- page 106, line 34, Equation 33-19a
- page 106, line 37, Equation 33-19a
- page 107, line 44, Table 33-20a
- page 108, line 4, Table 33-20b
- page 145, line 33, Equation 33A-1
- page 145, line 41, Equation 33A-2

SuggestedRemedy

Replace minus with dash.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1** *P* **19** *L* **12** # 164

Zimmerman, George CME Consulting

Comment Type **ER** *Comment Status* **D** *Editorial*

This important guide to the reader appears out of place and easily lost.

SuggestedRemedy

Make sentence 'This clause uses terms defined in clause 1.4.' it's own paragraph, in the same place where it currently is.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.3** *P* **21** *L* **39** # 165

Zimmerman, George CME Consulting

Comment Type **ER** *Comment Status* **D** *Editorial*

Editor to track revision project and update references prior to WG ballot.

SuggestedRemedy

Implement references per 802.3bx D3.1 and track.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.3** *P* **21** *L* **39** # 377

Thompson, Geoff GraCaSI S.A.

Comment Type **ER** *Comment Status* **D** *Editorial*

THE TEXT: "(1.4.336 in P802.3bx/D2.0)." IS OUT OF DATE.
THE CURRENT DRAFT IS D3.0

SuggestedRemedy

Update to current location, which is 1.4.337 in D3.0

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 165

EZ

Cl **33** *SC* **33.1.3** *P* **21** *L* **41** # 378

Thompson, Geoff GraCaSI S.A.

Comment Type **ER** *Comment Status* **D** *Editorial*

THE TEXT: "(1.4.268 in 41 P802.3bx/D2.0)." IS OUT OF DATE.
THE CURRENT DRAFT IS D3.0

SuggestedRemedy

Update to current location, which is 1.4.269 in D3.0

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 165

EZ

Cl **33** *SC* **33.1.3** *P* **21** *L* **47** # 166

Zimmerman, George — CME Consulting

Comment Type **ER** *Comment Status* **D** *Editorial*

Editor's note is unclear what is being consulted on. It appears to be on an issue that was resolved by changes on lines 39 & 42.

SuggestedRemedy

Delete editor's note or make clear what action is pending.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Has editor consulted with staff?

If yes, delete editor's note. If no, leave note.

EZ

Cl **33** *SC* **33.1.4** *P* **21** *L* **53** # 133

Walker, Dylan — Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

"A power system, consists of a single PSE, a single PD, and the link segment connecting them."

Comma after "A power system" is not needed.

SuggestedRemedy

"A power system consists of a single PSE, a single PD, and the link segment connecting them."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 256

EZ

Cl **33** *SC* **33.1.4** *P* **21** *L* **53** # 256

Dwelley, David — Linear Technology

Comment Type **E** *Comment Status* **D** *Editorial*

Extra comma: "A power system, consists..."

SuggestedRemedy

Remove: "A power system consists..."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4** *P* **21** *L* **54** # 257

Dwelley, David — Linear Technology

Comment Type **E** *Comment Status* **D** *Power System*

Sentence needs rewriting: "A power system is characterized as either Type 1, or Type 2, Type 3 or Type 4, by the lowest type number of the PSE or PD in a system..."

SuggestedRemedy

Replace with: "The power system Type is defined by the lowest Type of the PSE or PD in a system..."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **10** # 21

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Inconsistency in lineweight of table.

SuggestedRemedy

Make heavy line above Type 4 thin.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **24** # 161

Zimmerman, George CME Consulting

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-1 thick line between rows for Type 3 and Type 4

SuggestedRemedy

Replace thick line between Type 3 and Type 4 with line 'As in Table' (thin line).

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 21

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **25** # 134

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **D** *Unbalance*

Table 33–1—System Power parameters Vs System Type

Note 2 is also applicable to Type 4, column 2.

SuggestedRemedy

Place Note 2 indicator next to 0.960 value for Type 4, column 2.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **25** # 22

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Unbalance*

Reference to note 2 in Table 33-1 also applies to Type 4.

SuggestedRemedy

Add reference to note 2 to 0.960 in the Type 4 row.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #134.

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **25** # 355

Darshan, Yair Microsemi

Comment Type **E** *Comment Status* **D** *Unbalance*

Last row for Type 4:
Missing footnote to the pair current 0.96 (note 2). (Same note as for Type 3)
To change from 0.96 to 0.96 (note 2)

SuggestedRemedy

To change from 0.96 to 0.96(note 2)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #134.

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **30** # 380

Thompson, Geoff GraCaSI S.A.

Comment Type **ER** *Comment Status* **D** *Editorial*

Note 3 has an open reference and no link to a reference or bibliography entry for TSB-184-A in any form. The bibliography entry which is badly out of date. Further, [B61] (in 802.3bx D3.0) references a prepublication draft of TSB-184 and needs to be updated.

SuggestedRemedy

Add text to the draft to add the reference or bibliography item and add a hot link to the entry.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **33** # 182

Zimmerman, George — CME Consulting

Comment Type **TR** *Comment Status* **D** *Editorial*

Note that extended power will be addressed in separate work is misleading and suggests in a different standard.
Are the values for Type 3 & Type 4 extended power current agreed by the TF?

SuggestedRemedy

change 'will be address in separate work' to 'is presently under study in this draft'

change 'Currently for extended power,' to 'Currently, the proposed values for extended power are as follows:'

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **38** # 336

Darshan, Yair — Microsemi

Comment Type **E** *Comment Status* **D** *Unbalance*

I am still in the research of the effect of extended power on Icont-2P_unb for Type 4 and it looks that we will have to make a specification design so the maximum current including P2P_Effect will gurantee that Icont-2P_unb=Icut_min-2P will be <=1A.

SuggestedRemedy

Add to the Editor Note after the the text (line 38)"
Type 4: Icont-2p=865mA, Icont-2p_unb=1087mA")

The following text:
Type 4 Icont-2P_unb will have to be lower than 1087mA e.g. <=1A in order to reduce stress on transformers due to impact later on Ipeak, ILIM_MIN etc.
The plan is to do it by requaring more tight P2P_Iunb at high current from a PD that wants to use extended power. Technically it is feasible.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **47** # 201

Dove, Daniel — Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *Editorial*

Grammar error "at PSE PI".

SuggestedRemedy

Replace with "at PSE's PI".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 23

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **47** # 23

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

... than class 4 power at PSE PI ...

SuggestedRemedy

... than class 4 power at the PSE PI ...

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4** *P* **22** *L* **5** # 181

Zimmerman, George — CME Consulting

Comment Type **TR** *Comment Status* **D** *Editorial*

Editor's note appears to have been overcome by events - Type 4 is in the table now.

SuggestedRemedy

Delete editor's note.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4.1** *P* **23** *L* **10** # 135

Walker, Dylan Cisco

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

"Type 2 and Type 3 operation requires Class D, or better, cabling as specified in ISO/IEC 11801:2002 with the additional requirement that channel DC loop resistance shall be 25ƒÇ or less."

Make "requires" singular.

SuggestedRemedy

"Type 2 and Type 3 operation require Class D, or better, cabling as specified in ISO/IEC 11801:2002 with the additional requirement that channel DC loop resistance shall be 25□ or less."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4.1** *P* **23** *L* **20** # 372

Thompson, Geoff GraCaSI S.A.

Comment Type **E** *Comment Status* **D** *Editorial*

Reference number is incorrect for TSB-184 in 802.3bx.

SuggestedRemedy

REPLACE "[60]" WITH "[61]"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4.1** *P* **23** *L* **22** # 316

Darshan, Yair Microsemi

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

Editor note: Lines 22-27
Type 4 requirements is defined. The rest will be defined in TIA TSB-184-A.
As a result we can delete the Editor note.

SuggestedRemedy

Delete the editor note in lines 22-27, page 23.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4.1** *P* **23** *L* **6** # 202

Dove, Daniel Dove Networking Solut

Comment Type **TR** *Comment Status* **D** *Editorial*

The word "approximately" is inappropriate

SuggestedRemedy

Replace with the word "essentially" as this is more appropriate in this context

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4.1** *P* **23** *L* **8** # 25

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Misspelling 'guage', two occurrences.

SuggestedRemedy

Replace by gauge.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 167

EZ

Cl **33** *SC* **33.1.4.1** *P* **23** *L* **8** # 381

Thompson, Geoff GraCaSI S.A.

Comment Type **ER** *Comment Status* **D** *Editorial*

Lines 8 thru 9, gauge is misspelled in the new text in two places.

SuggestedRemedy

REPLACE "guage" (sic) WITH "gauge", 2 places

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 167

EZ

Cl **33** *SC* **33.1.4.1** *P* **23** *L* **8** # 167

Zimmerman, George — CME Consulting

Comment Type **ER** *Comment Status* **D** *Editorial*

gauge is misspelled as guage. (2 instances)

SuggestedRemedy

change guage to gauge (2 instances)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4.1** *P* **23** *L* **8** # 203

Dove, Daniel — Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *System Power*

Incorrect statement

SuggestedRemedy

Replace "found" with "typically found"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4.1** *P* **23** *L* **89** # 17

Bustos Heredia, Jairo — Würth Elektronik eiSo

Comment Type **E** *Comment Status* **D** *Editorial*

Higher power levels may require heavier guage conductors than are found in Class C/ Category 3 cabling and (more uncommonly) in some lighter guage Class D or better cable.

SuggestedRemedy

Higher power levels may require heavier gauge conductors than are found in Class C/ Category 3 cabling and (more uncommonly) in some lighter gauge Class D or better cable.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 167

EZ

Cl **33** *SC* **33.1.4.2** *P* **23** *L* **30** # 136

Walker, Dylan — Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

"33.1.4.2 Type 1 and Type 2 Channel requirement"

Make "requirement" plural.

SuggestedRemedy

"33.1.4.2 Type 1 and Type 2 Channel requirements"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 24

EZ

Cl **33** *SC* **33.1.4.2** *P* **23** *L* **30** # 24

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Section header is "Channel requirement"

SuggestedRemedy

Change to "Channel requirements"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4.2** *P* **23** *L* **33** # 373

Thompson, Geoff — GraCaSI S.A.

Comment Type **E** *Comment Status* **D** *Editorial*

The two references in this line (11801, Annex 33) are not hot links.

SuggestedRemedy

Link the references.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4.3** *P* **23** *L* **49** # 137

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **X** *Editorial*

"33.1.4.3 Four-pair operation channel requirement for pair-to-pair resistance unbalance"

Since this ultimately falls under channel requirements, it seems like the subclause should be changed accordingly.

SuggestedRemedy

"33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance"

or

"33.1.4.2a Four-pair operation channel requirement for pair-to-pair resistance unbalance"

Whichever the style guide would dictate.

Proposed Response *Response Status* **W**

Replace with:

"33.1.4.2.1 Four-pair operation channel
requirement for pair-to-pair resistance unbalance"

EZ

Cl **33** *SC* **33.2.0a** *P* **24** *L* **33** # 97

Yseboodt, Lennart Philips

Comment Type **T** *Comment Status* **D** *PSE Types*

Table 33-1a, incorrect implementation of comment D0.4/#38

SuggestedRemedy

See yseboodt_table_33_1a_v100.pdf

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comments # 277 and # 278.

EZ

Cl **33** *SC* **33.2.0a** *P* **24** *L* **37** # 277

Picard, Jean Texas Instruments

Comment Type **ER** *Comment Status* **D** *PSE Types*

The column "maximum class supported" of Table 33-1a should represent the class level, and not the max power.

SuggestedRemedy

Replace the power (Watts) with class level (0 to 8)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.0a** *P* **24** *L* **47** # 278

Picard, Jean Texas Instruments

Comment Type **ER** *Comment Status* **D** *PSE Types*

Table 33-1a should show the maximum class supported per category, the line item "75W" should not be there.

SuggestedRemedy

Remove the 75W line item.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

This was a comment that was implemented incorrectly. This should not have been added.

EZ

Cl **33** *SC* **33.2.0a** *P* **24** *L* **51** # 168

Zimmerman, George CME Consulting

Comment Type **ER** *Comment Status* **D** *Editorial*

Table 33-1a Notes 1 through 4 have leading dashes

SuggestedRemedy

delete leading dashes on footnotes 1 through 4.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.0a** *P* **24** *L* **53** # 357

Darshan, Yair Microsemi

Comment Type **T** *Comment Status* **D** *Editorial*

In note 3 we have reference to section 33.6.2. It looks like error.
It should be 33.2.6 or 33.2.6.1 etc.

SuggestedRemedy

Update the reference to the correct one.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace 33.6.2 with 33.2.6.1

EZ

Cl **33** *SC* **33.2.0a** *P* **24** *L* **53** # 356

Darshan, Yair Microsemi

Comment Type **E** *Comment Status* **D** *PSE Types*

Page 24 line 53, note 3 below table 33-1a.
It is not clear to the reader in note 3 where we he can find the exact differences between 1 event Type 3 classification and 1 event Type 1 classification.

SuggestedRemedy

Change "Table 10" in note 3
to
"Table 10 items 11 and 12"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change "Table 33-10" to "Table 33-10 items 11 and 12"

EZ

Cl **33** *SC* **33.2.1** *P* **25** *L* **16** # 125

Yseboodt, Lennart Philips

Comment Type **T** *Comment Status* **D** *PSE Types*

"PSEs may support either Alternative A, Alternative B, or both."
This information is already covered on page 33, line 25-28.
Also this statement is not correct for Type 4.

SuggestedRemedy

Remove this line.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.2** *P* **25** *L* **19** # 382

Thompson, Geoff GraCaSI S.A.

Comment Type **ER** *Comment Status* **D** *Editorial*

The title of this sub-clause is "Midspan PSE types" is confusing as the term "Type" is already used to denote current class. Another term than "type" should be used. This will be even more confusing as the number of "Types" proliferates.

SuggestedRemedy

Change the word "types" in the heading and associated text from "types" to "variants".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.2** *P* **26** *L* **1** # 27

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

The Figures 33-1 through 33-4b should list in the figure caption if the PSE is a 2P PSE or a 4P PSE.
This makes it easier to find the applicable figure.

SuggestedRemedy

Add appropriate 2P/4P indicator to the figure caption.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.2** *P* **26** *L* **37** # 26

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Figure 33-1 is incorrectly numbered and subsequent Figures are off-by-3

SuggestedRemedy

Rename Figure 33-1 to Figure 33-4 and all figures after this should be updated.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.2** *P* **28** *L* **28** # 28

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Figure 33-2b, connection line to centertap of PSE side transformers is crooked.

SuggestedRemedy

Make straight.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.3** *P* **32** *L* **30** # 196

Bullock, Chris Cisco Systems

Comment Type **E** *Comment Status* **D** *Editorial*

For clarity, the order of the columns in Table 33-2a should match the order of the columns in Tabls 33-2.

SuggestedRemedy

In Table 33-2a, swap the entire column "Alternative A (MDI)" with the entire column "Alternative A (MDI-X)"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.3** *P* **32** *L* **31** # 138

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33–2a—Permitted Pinout alternatives per Type

Slightly confusing that "Alternative A (MDI)" and "Alternative A (MDI-X)" columns are swapped versus Table 33-2 above it.

SuggestedRemedy

Swap "Alternative A (MDI)" and "Alternative A (MDI-X)" columns to align with Table 33-2 above it.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 196

EZ

Cl **33** *SC* **33.2.3** *P* **32** *L* **34** # 29

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Columns in Table 33-2a are not in same order as the Table 33-2 above.

SuggestedRemedy

Swap column Alternative A(MDI) with Alternative A(MDI-X) in Table 33-2a.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 196

EZ

Cl **33** *SC* **33.2.3** *P* **32** *L* **6** # 351

Darshan, Yair Microsemi

Comment Type **E** *Comment Status* **D** *Editorial*

Mising coma in "....with a pair each carry.."

SuggestedRemedy

Change to "....with a pair, each carry.."

Proposed Response *Response Status* **W**

PROPOSED REJECT.

No comma is needed.

EZ

Cl **33** *SC* **33.2.4.3** *P* **34** *L* **41** # 208

Dove, Daniel Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *Editorial*

Wrong word

SuggestedRemedy

Remove word "not" or replace sentence with "do_detection yields "valid" on both pair sets.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change "does not yield" to "yields" in True definition. Change "yields" to "yield" in False definition.

EZ

Cl **33** *SC* **33.2.4.3** *P* **34** *L* **41** # 207

Dove, Daniel Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *Editorial*

Wrong word

SuggestedRemedy

Replace "yields" with "yield".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 208

EZ

Cl **33** *SC* **33.2.4.4** *P* **34** *L* **39** # 150

Walker, Dylan Cisco

Comment Type **TR** *Comment Status* **D** *Editorial*

"both_alts_valid
This variable is provided for Type 3 and Type 4 PSEs.
Values:False:do_detection does not yields “valid” on both pair sets.
True: do_detection does not yield “valid” on both pair sets."

True and False have the same definition.

SuggestedRemedy

"both_alts_valid
This variable is provided for Type 3 and Type 4 PSEs.
Values:False: do_detection does not yield “valid” on both pairsets.
True: do_detection does yield “valid” on both pairsets."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #208

EZ

Cl **33** *SC* **33.2.4.4** *P* **34** *L* **41** # 18

Bustos Heredia, Jairo Würth Elektronik eiSo

Comment Type **E** *Comment Status* **D** *Editorial*

do_detection does not yields "valid" on both pair sets

SuggestedRemedy

do_detection does not yield "valid" on both pair sets

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #208

EZ

Cl **33** *SC* **33.2.4.4** *P* **34** *L* **42** # 320

Darshan, Yair — Microsemi

Comment Type **TR** *Comment Status* **D** *Editorial*

Variable both_alts_valid:
The text:
"Values:False:do_detection does not yields “valid” on both pair sets.
True: do_detection does not yield “valid” on both pair sets."

was not correctly inserted per approved baseline text.
(There are other comments related to same problem. Base line text probably copied wrongly or copied from not th elast version).

SuggestedRemedy

Replace with:
TRUE – do_detection yields “valid” on both pair-sets
FALSE – do_detection does not yield “valid” on both pair-sets

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #208

EZ

Cl **33** *SC* **33.2.4.4** *P* **34** *L* **43** # 274

Dwelley, David — Linear Technology

Comment Type **TR** *Comment Status* **D** *Editorial*

Extra "not" in true case

SuggestedRemedy

Change to: "do_detection yields "valid" on both pair sets"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #208

EZ

Cl **33** *SC* **33.2.4.4** *P* **34** *L* **43** # 279

Picard, Jean — Texas Instruments

Comment Type **ER** *Comment Status* **D** *Editorial*

For the "true" condition, "does not" should not be there.

SuggestedRemedy

Replace with "do_detection yields valid on both pair sets"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #208

EZ

Cl **33** *SC* **33.2.4.4** *P* **35** *L* **17** # 140

Walker, Dylan — Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

"maintain_4pair_power
This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing a 4 pair power."

SuggestedRemedy

"maintain_4pair_power
This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing 4 pair power."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.4** *P* **36** *L* **5** # 284

Picard, Jean — Texas Instruments

Comment Type **ER** *Comment Status* **D** *PSE State Diagram*

Iport should be Iport-2P

SuggestedRemedy

Replace with Iport-2P

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 98

EZ

Cl **33** *SC* **33.2.4.4** *P* **36** *L* **7** # 98

Yseboodt, Lennart Philips

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

IPort = Output current (see 33.2.7.6)
Other parts of the text refer to Iport_2P, including the referenced 33.2.7.6

SuggestedRemedy

Rename Iport to Iport_2P and put a note to also change the name in the state machine.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.4** *P* **39** *L* **5** # 30

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-3, line thickness is inconsistent.

SuggestedRemedy

Make bold lines above Type 2 and Type 3 multirow thick to the end of the table.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.6** *P* **40** *L* **52** # 162

Zimmerman, George CME Consulting

Comment Type **E** *Comment Status* **D** *PSE State Diagram*

do_connection_check needs to reference connection check requirement.

SuggestedRemedy

Insert prior to "This function returns...":
"This function initiates the connection check in 33.2.5.0a."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.6** *P* **41** *L* **10** # 228

Schindler, Fred Seen Simply

Comment Type **ER** *Comment Status* **D** *Editorial*

Fix Typo "wwhether".

SuggestedRemedy

Use "whether".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.6** *P* **41** *L* **11** # 209

Dove, Daniel Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *Editorial*

Inconsistent naming of "dual-signature" ie: hyphenated

SuggestedRemedy

Do a word search and replace "dual-signature" with "dual signature"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace any occurances of "dual signature" with "dual-signature" as they should be used as adjectives describing a PD or configuration.

EZ

Cl **33** *SC* **33.2.4.6** *P* **41** *L* **33** # 288

Picard, Jean Texas Instruments

Comment Type **ER** *Comment Status* **D** *PSE State Diagram*

The expression "class of the PD associated with the" should have been removed from the sentence, based on abramson_02_1114.

SuggestedRemedy

Remove "class of the PD associated with the" from the sentence.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.6** *P* **41** *L* **9** # 146

Walker, Dylan Cisco

Comment Type **ER** *Comment Status* **D** *Editorial*

"Invalid: Either the PSE has detected an open_circuit on one of the pair sets, or is otherwise unable to determine wwhether the PD is single-signature or dual-signature configuration."

Spelling mistake.

SuggestedRemedy

"Invalid: Either the PSE has detected an open_circuit on one of the pair sets, or is otherwise unable to determine whether the PD is single-signature or dual-signature configuration."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

EZ

Cl **33** *SC* **33.2.4.7** *P* **43** *L* **54** # 32

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Figure 33-6 to 8 are not numbered. There is a jump from 33-5 to 33-9.

SuggestedRemedy

Rename Figure 33-9 to Figure 33-6 and update sequence thereafter.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

All figure numbers must be updated to be sequential. Another comment pointed out that the PSE and PD drawings restarted at 33-1 when they should have started at 33-4. this will fill in part of the gap.

EZ

Cl **33** *SC* **33.2.4.7** *P* **44** *L* **1** # 231

Schindler, Fred Seen Simply

Comment Type **TR** *Comment Status* **D** *PSE State Diagram*

The modified legacy state diagram for classification provides a suitable starting point for classification for all PSE Types. The new Figure 33-9a Type 3 and Type 4 PSE state diagram does not provide the details already covered by the improved legacy state diagram.

SuggestedRemedy

Replace the figure on page 44 with the legacy IEEE 802.3-2012 figure 33-9.

Then move the .3BT Draft 1.0 figure and caption after the last figure labeled "Figure 33-9A - Type 3 and Type 4 PSE state diagram (continued)." Change the "Figure 33-9-Type 1 and Type 2 PSE state diagram (continued)" to "Figure 33-9A - Type 3 and Type 4 PSE state diagram (continued)."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Partial OBE by comment # 188.

move the .3BT Draft 1.0 figure and caption after the last figure labeled "Figure 33-9A - Type 3 and Type 4 PSE state diagram (continued)." Change the "Figure 33-9-Type 1 and Type 2 PSE state diagram (continued)" to "Figure 33-9A - Type 3 and Type 4 PSE state diagram (continued)."

EZ

Cl **33** *SC* **33.2.4.7** *P* **44** *L* **1** # 188

Zimmerman, George CME Consulting

Comment Type **TR** *Comment Status* **D** *PSE State Diagram*

Figure 33-9 (continued) The motion in May was to revert to a "Type 1 and Type 2" PSE state diagram as is currently in 802.3bx (802.3-2012). Figure 33-9 is part of this, but is not reverted and contains new classification matter from 802.3bt, which is out of scope.

SuggestedRemedy

Replace Figure 33-9 (continued) with the original Type 1 and Type 2 PSE state diagram per the motion in May.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.7** *P* **44** *L* **54** # 210

Dove, Daniel — Dove Networking Solut

Comment Type **TR** *Comment Status* **D** *PSE State Diagram*

This is the Type 3 and Type 4 PSE Classification State Diagram

SuggestedRemedy

Replace the diagram with the original diagram (802.3at-2012)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 188.

EZ

Cl **33** *SC* **33.2.4.7** *P* **44** *L* **54** # 327

Darshan, Yair — Microsemi

Comment Type **TR** *Comment Status* **D** *PSE State Diagram*

The title of figure 33-9 on page 44 is incorrect.
It says:
"Figure 33–9—Type 1 and Type 2 PSE state diagram (continued)"
The drawing shows the PSE classification state diagram of of Type 1, 2, 3 and 4.

SuggestedRemedy

Change the title figure 33-9 on page 44 from"
"Figure 33–9—Type 1 and Type 2 PSE state diagram (continued)"
To
"Figure 33–9 —Type 1, Type 2, Type 3 and Type 4 PSE classification state diagram (continued)"

Proposed Response *Response Status* **W**

PROPOSED REJECT.

This is OBE by comment # 188 and comment # 231

EZ

Cl **33** *SC* **33.2.4.7** *P* **45** *L* **1** # 38

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Outer box for state diagram figures is redundant.
Applies to pages: 45, 46, 47, 48, 49.

SuggestedRemedy

Remove outer boxes.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.7** *P* **45** *L* **30** # 212

Dove, Daniel — Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *PSE State Diagram*

The naming of the hierarchical blocks in the state diagram would be more clear if each section were properly identified.

SuggestedRemedy

For each section, use a different title. Ex: PSE Main State Diagram, PSE Searching State Diagram, PSE Delivering Power State Diagram, etc.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.7** *P* **45** *L* **30** # 211

Dove, Daniel — Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *Editorial*

The state diagrams were inserted as images for temporary placement.

SuggestedRemedy

These need to be constructed in FrameMaker and formatted for the proper page width/font/etc.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.7** *P* **45** *L* **8** # 33

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *PSE State Diagram*

The overview state diagram makes it hard to locate the sub/state diagrams.

SuggestedRemedy

Produce a unique figure number for each of the sub state diagrams.
Refer to these figure numbers inside the overview figure.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 212.

EZ

Cl **33** *SC* **33.2.4.7** *P* **46** *L* **1** # 36

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *PSE State Diagram*

Missing name "SEARCHING" for this Figure.

SuggestedRemedy

Label it SEARCHING as is done on page 48.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 212.

EZ

Cl **33** *SC* **33.2.4.7** *P* **47** *L* **1** # 37

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *PSE State Diagram*

Missing name "DELIVERING POWER" for this Figure.

SuggestedRemedy

Label it DELIVERING POWER as is done on page 48.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 212.

EZ

Cl **33** *SC* **33.2.4.7** *P* **48** *L* **47** # 214

Dove, Daniel Dove Networking Solut

Comment Type **TR** *Comment Status* **D** *PSE State Diagram*

Missing Type 3 and Type 4 Classification State Diagram

SuggestedRemedy

Add The diagram, title, etc.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #231

EZ

Cl **33** *SC* **33.2.4.7** *P* **50** *L* **29** # 215

Dove, Daniel Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *Editorial*

Typo "Detec_Eval"

SuggestedRemedy

Replace with "Detect_Eval"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.7** *P* **50** *L* **35** # 216

Dove, Daniel Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *Editorial*

Typo "poweer"

SuggestedRemedy

Search/Replace with "power"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.7** *P* **51** *L* **7** # 331

Darshan, Yair Microsemi

Comment Type **TR** *Comment Status* **D** *PSE Detection*

we didnt approved this text.
We agreed that this text in the 4P-ID baseline text is redundant.
(The editor note regarding clarifying Type 3 and Type 4 requirements in the detection section is not required.
We agree on it during the discussion on 4P-ID base line text and also remove the text that tried to do this clarification and we agreed that it is redundant and not belong to 4P-ID.)

SuggestedRemedy

Remove the editor note text.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.47** *P* **50** *L* **30** # 333

Darshan, Yair Microsemi

Comment Type **ER** *Comment Status* **D** *4PID*

Missing parenthesis in the logical equation.

SuggestedRemedy

Change "pd_4pair_candidate = (both_alts_valid)*[PD_signature = Single + (PD_signature= Dual) * (!deny_dual_sig_4p_power)].

To:
Change "pd_4pair_candidate = (both_alts_valid)*[(PD_signature = Single) + (PD_signature= Dual) * (!deny_dual_sig_4p_power)].

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.5** *P* **50** *L* **46** # 289

Picard, Jean Texas Instruments

Comment Type **TR** *Comment Status* **D** *PSE Detection*

This sentence could be misleading and adds unnecessary text.
This sentence could be interpreted as not allowing a PSE to turn temporarily OFF one pair set and turn it back on without further detection, when it was previously determined to be connected to a single signature PD.

SuggestedRemedy

recommend removing this whole sentence as it adds unnecessary text.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 9

EZ

Cl **33** *SC* **33.2.5** *P* **50** *L* **46** # 234

Schindler, Fred Seen Simply

Comment Type **TR** *Comment Status* **D** *PSE Detection*

The text,
"Specifically, Type 3 and Type 4 PSEs shall apply the detection probe to both pair sets prior to applying
power to 4 pairs."

Uses nonstandard language, adds text that may confuses the reader that is not required. The prior sentence requires PSEs to only power pair-sets with a valid detection signature. This also applies to Type 3 and Type 4 devices.

The added sentence requires a detection probe on both pair sets. This language is not clear. Is a probe without a valid detection all that is necessary? Is the probe done on both pair sets at the same time?

SuggestedRemedy

Strike the sentence,

"Specifically, Type 3 and Type 4 PSEs shall apply the detection probe to both pair sets prior to applying power to 4 pairs."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

OBE by comment # 9.

EZ

Cl **33** *SC* **33.2.5** *P* **50** *L* **47** # 9

Beia, Christian STMicroelectronics

Comment Type **TR** *Comment Status* **D** *PSE Detection*

The second paragraph text was not approved to be included into the draft, so probably was put in there accidentally.

SuggestedRemedy

Remove the sentence:
Specifically, Type 3 and Type 4 PSEs shall apply the detection probe to both pair sets prior to applying power to 4 pairs.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.5** *P* **50** *L* **47** # 332

Darshan, Yair Microsemi

Comment Type **TR** *Comment Status* **D** *PSE Detection*

The text:

"Specifically, Type 3 and Type 4 PSEs shall apply the detection probe to both pair sets prior to applying power to 4 pairs".

Was not approved to be added to the draft.

SuggestedRemedy

1. Delete this text.
2. Please verify that approved last presentation versions are used to for its baseline text.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 9

EZ

Cl **33** *SC* **33.2.5.2** *P* **53** *L* **2** # 40

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

equation number 33-2 is wrong

SuggestedRemedy

equation number should be 33-1 and all equations after this should decrease with 1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.5.6** *P* **54** *L* **46** # 267

Dwelley, David Linear Technology

Comment Type **T** *Comment Status* **D** *4PID*

"...and the results of other system information, as described in 33.2.5.0.". There is no "other information" defined in 33.2.5.0.

SuggestedRemedy

Remove "and the results of other system information"

While we're here, replace "&" with "and" in line 45.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Partial OBE by comment # 335.

Replace "&" with "and" in line 45.

EZ

Cl **33** *SC* **33.2.5.6** *P* **54** *L* **46** # 335

Darshan, Yair Microsemi

Comment Type **T** *Comment Status* **D** *4PID*

Reference to 33.2.5.0 is placed in the wrong place.
33.2.5.0. is the palce where connection check is metioned bit not for other system information

SuggestedRemedy

Replace:
"...the result of connection check and the results of other system information, as described in 33.2.5.0."

With:
"...the result of connection check as described in 33.2.5.0 and the results of other system information."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.5.6** *P* **55** *L* **24** # 190

Zimmerman, George CME Consulting

Comment Type **TR** *Comment Status* **D** *Editorial*

Annex-TBD is missing, even in outline form - what is in it? At least an editor's note of what is going to be in it, otherwise the reference is simply confusing and premature

SuggestedRemedy

Add at least a placeholder for the referenced annex in the draft, with an editor's note on the subject of the proposed content.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Editor to add Annex 33B, update reference in this sentence, and fill Annex 33B with "Editor's note to be removed prior to publication: This annex will include informative autoclass material."

EZ

Cl **33** *SC* **33.2.6** *P* **55** *L* **11** # 128

Johnson, Peter Sifos Technologies

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-8 uses the terms "No DLL" and "DLL". These have not been defined earlier in the document.

SuggestedRemedy

Add "(DLL)" after "Data Link Layer" on line 11.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.6** *P* **55** *L* **26** # 41

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Autoclass*

Incorrect reference to Table 33-17.

SuggestedRemedy

Replace Table 33-17 by Table 33-7.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by commment # 249

EZ

Cl **33** *SC* **33.2.6** *P* **57** *L* **1** # 127

Johnson, Peter — Sifos Technologies

Comment Type **E** *Comment Status* **D** *Table 33-8*

While Table 33-8 is an improvement upon the prior version of that table, there is an opportunity to make it even clearer. All of the "Yes", "No" entries in this table are answering the implied question "Is this configuration valid?".

Suggestion is to rid the table of the "implied question" as per remedy below.

SuggestedRemedy

Replace "Permutations" with "Configurations".

Replace "Yes" with "Valid" and "No" with "Invalid".

Re-title Table 33-8: "PSE and PD classification configurations"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

See comment # 141.

EZ

Cl **33** *SC* **33.2.6** *P* **57** *L* **1** # 42

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Table 33-8*

Small inconsistencies in Table 33-8 formatting.

SuggestedRemedy

See yseboodt_Table_33_8_v100.pdf

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

EZ

Cl **33** *SC* **33.2.6** *P* **57** *L* **31** # 103

Yseboodt, Lennart — Philips

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

The note says "A Type 3 PSE that is limited to class 3 power levels can be limited to 1-event physical layer classification."
This is actually true for class 0-3.

SuggestedRemedy

Replace note by:
"A Type 3 PSE that is limited to Class 0-3 power levels can be limited to 1-event physical layer classification."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 260

EZ

Cl **33** *SC* **33.2.6** *P* **57** *L* **31** # 260

Dwelley, David — Linear Technology

Comment Type **E** *Comment Status* **D** *Table 33-8*

Table 33-8, Note 1: "Limited" is probably not the right term here: "A Type 3 PSE that is limited to class 3 power levels can be limited to 1-event physical layer classification."

A PSE may be capable of higher power levels but for various reasons may only intend to provide Level 1 power to a PD - in this case it may (and probably should) only perform 1-event class.

SuggestedRemedy

Replace note 1 with: "A Type 3 PSE that will provide class 3 or lower power levels may opt to use 1-event physical layer classification."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.6** *P* **57** *L* **35** # 4

Beia, Christian STMicroelectronics

Comment Type **TR** *Comment Status* **D** *PSE Classification*

A Type1 PSE which uses 1-event Physical Layer Classification can only read classification results from Class 0 to 4. Classes 5 to 8 are defined for multiple-event PL classification and are not relevant for Type1 PSE.
Moreover Type1 PSE behavior definition must not change from the existing standard.

SuggestedRemedy

Restore the original sentence:
Subsequent to successful detection, a Type 1 PSE may optionally classify a PD using 1-Event Physical Layer classification. Valid classification results are Classes 0, 1, 2, 3, and 4, as listed in Table 33–7.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 197.

EZ

Cl **33** *SC* **33.2.6** *P* **57** *L* **35** # 291

Picard, Jean Texas Instruments

Comment Type **E** *Comment Status* **D** *PSE Classification*

Type 1 PSE is incorectly linked to classification result 0-8, while it cannot classify beyond class 4.

SuggestedRemedy

Replace "Classes from 0-8" with "Classes from 0-4"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 197.

EZ

Cl **33** *SC* **33.2.6** *P* **57** *L* **35** # 43

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *PSE Classification*

"Subsequent to successful detection, a Type 1 PSE may optionally classify a PD using 1-Event Physical
Layer classification. Valid classification results are Classes from 0 to 8, ..."

Type 1 PSE only support and identify class 0-3.

SuggestedRemedy

Replace by: "Subsequent to successful detection, a Type 1 PSE may optionally classify a PD using 1-Event Physical
Layer classification. Valid classification results are Classes from 0 to 3, ..."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 197.

Original text says 0-4 and this is Type 1 so we shouldn't change it. There is text to say class 4 is treated as class 0.

EZ

Cl **33** *SC* **33.2.6** *P* **57** *L* **35** # 197

Bullock, Chris Cisco Systems

Comment Type **T** *Comment Status* **D** *PSE Classificiation*

"Valid classification results are Classes from 0 to 8, as listed in Table 33.7."

The paragraph containing the above statement is in reference to Type 1 PSEs. Since Type 1 PSEs do not support multiple event classification, the valid classes are from 0 to 4.

SuggestedRemedy

Change the text back to original"
"Valid classification results are Classes 0,1,2,3, and 4, as listed in Table 33.7"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.6** *P* **57** *L* **9** # 255

Dwelley, David — Linear Technology

Comment Type **E** *Comment Status* **D** *PSE Classification*

Table 33-8: Yes/No labels aren't as informative as they could be

SuggestedRemedy

Change "Yes" to "Valid" and "No" to "Invalid" thoughout Table 33-8

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 127.

EZ

Cl **33** *SC* **33.2.6.2** *P* **57** *L* **3** # 2

Beia, Christian — STMicroelectronics

Comment Type **ER** *Comment Status* **D** *Table 33-8*

Table 33-8
The meaning of YES/NO in the table is not clear enough. It would be better to replace it with allowed/disallowed, or to add some explanation in the table first lines.

SuggestedRemedy

Replace the first line of Table 33-8 with:
PSE Allowed Permutations (Yes/No), PD Allowed Permutations (Yes/No)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 127.

EZ

Cl **33** *SC* **33.2.6.2** *P* **58** *L* **46** # 44

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"... and the PSE measure Iclass in the range ..."

SuggestedRemedy

"... and the PSE measures Iclass in the range ..."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.6.2** *P* **58** *L* **47** # 45

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"... after T ACS max this indicates the PD will peform Autoclass. (see 33.3.5.3)."
peform misspelling + Auto class

SuggestedRemedy

Change to "... after T ACS max this indicates the PD will perform Auto class. (see 33.3.5.3)."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change peform to perform.

All references should be changed to "Autoclass" by another comment (OBE, comment # 142).

EZ

Cl **33** *SC* **33.2.6.2** *P* **59** *L* **52** # 105

Yseboodt, Lennart — Philips

Comment Type **T** *Comment Status* **D** *PSE Classification*

A Type 4 PSE shall skip MARK_EV_4 and CLASS_EV5 and transition directly to Mark_EV_LAST if the class signature detected during CLASS_EV4 is 1 or 2

This was not updated after the 75W class was added.

SuggestedRemedy

A Type 4 PSE shall skip MARK_EV_4 and CLASS_EV5 and transition directly to Mark_EV_LAST if the class signature detected during CLASS_EV4 is 0 or 1.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 292

EZ

Cl **33** *SC* **33.2.6.2** *P* **59** *L* **52** # 292

Picard, Jean — Texas Instruments

Comment Type **ER** *Comment Status* **D** *PSE Classification*

This sentence has not been updated accordingly to the changes applied to class_sig_B of table 33-16a.

SuggestedRemedy

Replace "during CLASS_EV4 is 1 or 2"
with "during CLASS_EV4 is 0 or 1".

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.6.2** *P* **59** *L* **52** # 46

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Forget a period at the end of the sentence.

SuggestedRemedy

Put a period.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.6.2** *P* **61** *L* **13** # 314

Darshan, Yair — Microsemi

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-10 item 8, additional information column.
Missing word "which" in the following text.
"The maximum value of TME2 is limited by the maximum allowed time from end of detection until power-on ----which---- is limited by 33.2.7.12.

SuggestedRemedy

Change the additional information text from:
"The maximum value of TME2 is limited by the maximum allowed time from end of detection until power-on is limited by 33.2.7.12.

To:
"The maximum value of TME2 is limited by the maximum allowed time from end of detection until power-on which is limited by 33.2.7.12.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.6.2** *P* **61** *L* **16** # 353

Darshan, Yair — Microsemi

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-10 items 9, 10. Add reference "see 33.2.6.2" in the additional information column. It eases the reading.

SuggestedRemedy

Add reference "see 33.2.6.2" in the additional information columns for items 9 and 10.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.6.3** *P* **61** *L* **34** # 48

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Bulk comment to replace "Autoclass" with "Auto class" in this section.

SuggestedRemedy

Change 8 occurences.

Proposed Response *Response Status* **W**

PROPOSED REJECT.

OBE by comment # 142

Replace all "Auto class" occurances with "Autoclass"

EZ

Cl **33** *SC* **33.2.6.3** *P* **61** *L* **44** # 49

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

No reference in text to Table 33-10a

SuggestedRemedy

Insert reference to Table 33-10a at line 41:
"PSEs implementing Autoclass shall measure the power consumption of the connected PD throughout the
period bounded by T AUTO_PSE1 and T AUTO_PSE2, defined in Table 33-10a, measured from the transition of the POWER_UP or
SET_PARAMETERS state to POWER_ON state."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7** *P* **62** *L* **26** # 149

Walker, Dylan Cisco

Comment Type **T** *Comment Status* **D** *PSE Power*

Table 33–11—PSE output PI electrical requirements for all PD classes, unless otherwise specified

Item 1a

2mV max requirement at no load was selected without considering the effect of loading on other ports within a system, which cannot be ignored without rendering this parameter pointless.

SuggestedRemedy

Frankly not sure yet, but would like to note that this parameter is under continued investigation with Yair to determine if the max value and/or measurement setup needs modification in order to serve its true purpose.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 368

EZ

Cl **33** *SC* **33.2.7** *P* **62** *L* **26** # 368

Darshan, Yair Microsemi

Comment Type **TR** *Comment Status* **D** *PSE Power*

We may need to generate a test setup for Table 33-11 item 1a that will take in account possibility of higher PSE Vdiff than 2mV due cross regulation issues in multiport systems. In this kind of systems Vdiff may be >2mV but the effect of P2P_Iunb at high current is negligible due to the fact that the resistance difference that cause the Vdiff is in series to other components that their resistance is much larger the the PCB Rdiff so it will be compensated resulting with negligible effect on P2P_Iunb so it may be a test setup issue but not a real problem.

SuggestedRemedy

To add Editor Note below Table 33-11 page 62 that says:
Editor Note:
Cross regulation of multiport systems may affect PSE Vdiff and increase it.
We need to investigate how to address it in a test setup that will tell us if the increase Vdiff is real issue or to ignore it due to meeting Icont_2p_unb ,or we need to increase PSE Vdiff and decrease PD Vdiff to keep same system limitations

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7** *P* **62** *L* **26** # 293

Picard, Jean — Texas Instruments

Comment Type **TR** *Comment Status* **D** *PSE Power*

Table 33-11:
VPort_PSE_diff is too low, it needs to be increased.

Systems using 2 separate circuitries (may be on separate cards) to drive each pair set may have issues caused by difference in GND potential, due to the ground (or power) routing if multiple pair sets on one card are at high current and all (or very few of) the pair sets on the other card have no current.

SuggestedRemedy

System analysis needed to determine appropriate value. Suggest to evaluate the impact of using 10mV instead.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 368

EZ

Cl **33** *SC* **33.2.7** *P* **62** *L* **3** # 191

Zimmerman, George — CME Consulting

Comment Type **TR** *Comment Status* **D** *PSE State Diagram*

Type 1 and Type 2 PSEs conform to 33-9, 33-9 continued and 33-10. Type 3 and Type 4 PSEs conform to 33-9a and continuations.

SuggestedRemedy

Insert "Type 1 and Type 2" before PSE behavior
Insert sentence after "Figure 33-10", as follows:
"Type 3 and Type 4 PSEs conform to the state diagrams in Figure 33-9a and its continuations and Figure 33-10."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7** *P* **64** *L* **11** # 50

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Inconsistent plural PDs.

SuggestedRemedy

Change item 17:
"DC MPS current when measured over a pair set connected to single signature PD^3"
to
"DC MPS current when measured over a pair set connected to a single signature PD^3"

Change item 17a:
"DC MPS current when measured over a pair set connected to dual signature PD^3"
to
"DC MPS current when measured over a pair set connected to a dual signature PD^3"

Change item 17b:
"DC MPS current when total sum of both pairs with the same polarity is measured, connected to single signature PDs^4"
to
"DC MPS current when the total sum of both pairs with the same polarity is measure, when connected to a single singature PD^4"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7** *P* **64** *L* **11** # 340

Darshan, Yair Microsemi

Comment Type **TR** *Comment Status* **D** *Editorial*

Table 33-11 item 17 in the additional information column lin 11-12:
Two erros:
1. ">=" and not ">="
2. Pclass(5) and not Pclass(4)
Per the approved base line text, Pclass>= Pclass(5) power
and not Pclass > Pclass(4)

SuggestedRemedy

Change to Pclass>= Pclass(5).

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7** *P* **64** *L* **22** # 298

Picard, Jean Texas Instruments

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-11:
Should be "single signature PD" (without an "s")

SuggestedRemedy

Remove the "s" at end of PD.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 50.

EZ

Cl **33** *SC* **33.2.7** *P* **64** *L* **7** # 341

Darshan, Yair Microsemi

Comment Type **TR** *Comment Status* **D** *Editorial*

Table 33-11 item 17, 17a, 17b. In the additional information column:
Add: "see 33.2.9.1.2"
It is missing also for all PSE types in all the rows of item 17, 17a and 17b.
Total 6 places.

SuggestedRemedy

Add to the additional information column for each row of items items 17, 17a, 17 (6 places) : "See 33.2.9.1.2"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7** *P* **64** *L* **7** # 7

Beia, Christian STMicroelectronics

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-11
Item 17: the additional information: See 33.2.9.1.2 is still relevant and must be maintained.

SuggestedRemedy

Restore the Additional information: See 33.2.9.1.2 in Table 33-11 Item 17

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #341

EZ

Cl **33** *SC* **33.2.7** *P* **64** *L* **9** # 8

Beia, Christian STMicroelectronics

Comment Type **ER** *Comment Status* **D** *Editorial*

The additional information is not clearly stated. The details about how to measure Ihold are better described in section 33.2.9.1.2, which should be indicated for reference.

SuggestedRemedy

Replace:
Pclass <=class 4 power.
The pair with highest current.

With:
Applies to PD Classes 0-4
Measured on the pair set with the highest current
See 33.2.9.1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace:
Pclass <=class 4 power.
The pair with highest current.

With:
Applies to PD Classes 0-4
Measured on the pair set with the highest current
See 33.2.9.1.2

EZ

Cl **33** *SC* **33.2.7.4** *P* **65** *L* **46** # 143

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

"When end to end pair to pair current unbalance is present, the ICon-2P may increase up to the value of ICon-2P-UNB as specified by Table 33-11 item 4b."

Currently refers to item 4b, which does not exist in Table 33-11.

SuggestedRemedy

"When end to end pair to pair current unbalance is present, the ICon-2P may increase up to the value of ICon-2P-UNB as specified by Table 33-11 item 4a."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.4** *P* **66** *L* **19** # 52

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Formatting error in the formula 33-4a

SuggestedRemedy

- Make "for Type 3" and "for Type 4" non-italic and match spacing with the next formula.
- Remove straight brackets [] from formula.
- A bit weird: there is an invisible 'A' as dimension for the K formula, but only the tip of the A is visible.
Remove this triangle/A.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.4** *P* **66** *L* **19** # 109

Yseboodt, Lennart Philips

Comment Type **T** *Comment Status* **D** *PSE Power*

The K factor calculation uses Rchan. Therefore the result of K is not dimensionless, but Ohm-ish.

SuggestedRemedy

The formula should be reworked to use a calculation based on Rchan/Rch to be properly dimensionless.
Add editors note to mark this as todo.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Add Editor's note below equation 33-4a:

"Editor's Note to be removed before publication: Formula should be reworked so that in is unitless. Currently the formula results in a unit related to Ohms."

EZ

Cl **33** *SC* **33.2.7.4** *P* **66** *L* **25** # 344

Darshan, Yair Microsemi

Comment Type **E** *Comment Status* **D** *Editorial*

Remove Editor note regarding K. It is no longer required after the the updates for K are done.

SuggestedRemedy

Remove Editor not eregarding K.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Remove Editors note that begines with "In the above equation…" on line 25 of page 66.

EZ

Cl **33** *SC* **33.2.7.4** *P* **66** *L* **49** # 53

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Equation number 33-4a is duplicate with the equation on line 19 of the same page.

SuggestedRemedy

Change number.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change second equation 33-4a (line 49) to equation 33-4b.

Change reference to equation 33-4a on pg 67 line 4 to equation 33-4b.

EZ

Cl **33** *SC* **33.2.7.4a** *P* **66** *L* **32** # 51

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"Pair to Pair" should be small letters

SuggestedRemedy

"pair to pair"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace with "pair-to-pair"

EZ

Cl **33** *SC* **33.2.7.4a** *P* **66** *L* **49** # 54

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

The formula says R Pair_max (ohm) <= ...
The ohm should not be there.
The dimension is missing after the closing accolade bracket.

SuggestedRemedy

- Remove ohm from R Pair_max
- Add ohm as dimension right of the formula

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.4a** *P* **66** *L* **53** # 55

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"Pair_max" should not be italic

SuggestedRemedy

"Pair_max" with upright characters

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.4a** *P* **67** *L* **1** # 56

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"Pair_min" should not be italic

SuggestedRemedy

"Pair_min" with upright characters

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.5** *P* **67** *L* **23** # 57

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

No reference in text to equation 33-5

SuggestedRemedy

Replace:
"The PSE shall limit the maximum current sourced per pair set during POWER_UP. The maximum inrush current sourced by the PSE per pair set shall not exceed the per pair set inrush template in Figure 33-13."
By:
"The PSE shall limit the maximum current sourced per pair set during POWER_UP. The maximum inrush current sourced by the PSE per pair set shall not exceed the per pair set inrush template in Figure 33-13 and Equation 33-5."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.5** *P* **67** *L* **35** # 58

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"A Type 2 PSE that uses 1-Event physical layer classification, and requires the 1 ms settling time, shall power up a class 4 PD as if it used 2-Event physical layer classification."

SuggestedRemedy

Replace 2-Event by Multiple-Event.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.7** *P* **68** *L* **45** # 148

Walker, Dylan Cisco

Comment Type **ER** *Comment Status* **D** *Editorial*

"When connected to a dual signature PD, a Type 3 or Type 4 PSE may remove power from any pair set that exceeds the “PSE lowerbound template” and shall remove power fromany pair set that exceeds the “PSE upperbound template”."

Missing space.

SuggestedRemedy

"When connected to a dual signature PD, a Type 3 or Type 4 PSE may remove power from any pair set that exceeds the “PSE lowerbound template” and shall remove power from any pair set that exceeds the “PSE upperbound template”."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.7** *P* **68** *L* **48** # 218

Dove, Daniel — Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *Editorial*

Typo "fromany"

SuggestedRemedy

Replace with "from any"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 148

EZ

Cl **33** *SC* **33.2.7.7** *P* **68** *L* **48** # 59

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"... remove power fromany pair set that exceeds the â€œPSE upperbound templateâ€." fromany missing space.

SuggestedRemedy

"... remove power from any pair set that exceeds the â€œPSE upperbound templateâ€."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 148

EZ

Cl **33** *SC* **33.2.7.7** *P* **68** *L* **48** # 343

Darshan, Yair — Microsemi

Comment Type **E** *Comment Status* **D** *Editorial*

Typo. fromany is from any

SuggestedRemedy

Change to "from any"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 148

EZ

Cl **33** *SC* **33.2.7.7** *P* **69** *L* **1** # 144

Walker, Dylan — Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

Figure 33–14—POWER_ON state, per pair set operating current templates

TLIMmin, TCUTmin, and TCUTmax missing "-2p" suffix on X-axis.

SuggestedRemedy

Rename TLIMmin, TCUTmin, and TCUTmax to TLIMmin-2P, TCUTmin-2P, and TCUTmax-2P, respectively.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.7** *P* **69** *L* **27** # 60

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

In Figure 33-14 the parameters TLIMmin, TCUTmin and TCUTmax are missing the -2P suffix.

SuggestedRemedy

TLIMmin-2P, TCUTmin-2P and TCUTmax-2P.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 144.

EZ

Cl **33** *SC* **33.2.7.7** *P* **69** *L* **48** # 285

Picard, Jean — Texas Instruments

Comment Type **ER** *Comment Status* **D** *Editorial*

Iport needs to be converted to Iport-2P

SuggestedRemedy

Use Iport-2P instead

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.7** *P* **70** *L* **16** # 286

Picard, Jean — Texas Instruments

Comment Type **ER** *Comment Status* **D** *PSE Power*

Iport needs to be converted to Iport-2P

SuggestedRemedy

Use Iport-2P instead

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change "is the duration that the PI souraces Iport."

to:

"is the duration that the pair set sources Iport-2p"

EZ

Cl **33** *SC* **33.2.7.7** *P* **70** *L* **17** # 145

Walker, Dylan — Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

"Tlimmin-2P is TLIM min per pair set as defined in Table 33–11"

Tlimmin-2P does not have the T italicized.

SuggestedRemedy

Italicize the T in Tlimmin-2P.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.9.1** *P* **72** *L* **1** # 61

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

There is an enlarged space between section number and title.
Line 1 and 7.

SuggestedRemedy

Consistent spacing.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.1** *P* **74** *L* **38** # 192

Zimmerman, George — CME Consulting

Comment Type **TR** *Comment Status* **D** *PD PI*

The draft of this section does NOT show an edit from the existing version of clause 33. This calls into question the ENTIRE draft and process. Taking out the strikeouts and adds, Draft 1.0 shows the existing text would be "The PD shall be capable of accepting power on either of two sets of PI conductors and may accept power on both pair sets. The two conductor..." 802.3bx draft 3.0 has for this paragraph, "The PD shall be capable of accepting power on either of two sets of PI conductors. The two conductor..." NO MENTION of may accept power on both pair sets. that is an 802.3bt ADD.

SuggestedRemedy

Editor to show "and may accept power on both pair sets" as underlined text, AND, editor to review entire draft relative to 802.3bx for other adds.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.1** *P* **74** *L* **41** # 111

Yseboodt, Lennart Philips

Comment Type **T** *Comment Status* **D** *Editorial*

Comment D0.4/#105 partially implemented.
"Type 3 and Type 4 PDs shall be capable of accepting power on either or both of the pair sets."

SuggestedRemedy

"Type 3 and Type 4 PDs shall be capable of accepting power on either pair-set and shall be capable of accepting power on both pair-sets."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.1** *P* **74** *L* **41** # 193

Zimmerman, George CME Consulting

Comment Type **TR** *Comment Status* **D** *Editorial*

The name of the variable is maintain_4pair_power see zimmerman_3bt_02c_0515 slide 9, and page 35, line 15.

SuggestedRemedy

change "maintain_power_signature" to "maintain_4pair_power"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.2** *P* **75** *L* **29** # 156

Walker, Dylan Cisco

Comment Type **ER** *Comment Status* **D** *Editorial*

Table 33–13a—Permissible PD Types

Type 3 and Type 4 MPS entries indicate a note 3 that doesn't exist.

SuggestedRemedy

Change the 3 to a 2 for these 2 entries in Table 33–13a—Permissible PD Types.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.2** *P* **75** *L* **42** # 62

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

In Table 33-13a, the two bottom rows refer to note 3 which does not exist.

SuggestedRemedy

Change ^3 to ^2.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 156

EZ

Cl **33** *SC* **33.3.2** *P* **75** *L* **42** # 305

Picard, Jean Texas Instruments

Comment Type **ER** *Comment Status* **D** *Editorial*

There isn't any Note #3

SuggestedRemedy

Replace "3" with "2", both type 3 and type 4 line items.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 156

EZ

Cl **33** *SC* **33.3.2** *P* **76** *L* **2** # 63

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"Type 2 PDs implement both Multiple-Event Physical Layer classification (see 33.3.5.2) and Data Link
Layer classification (see 33.6) and advertise a 2-Event class signature of 4 during all class events."
2-Event not correct.

SuggestedRemedy

"Type 2 PDs implement both Multiple-Event Physical Layer classification (see 33.3.5.2) and Data Link
Layer classification (see 33.6) and advertise a Multiple-Event class signature of 4 during all class events."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.2** *P* **76** *L* **8** # 64

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"multiple-Event" captalization

SuggestedRemedy

"Multiple-Event"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.3.4a** *P* **79** *L* **12** # 66

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

No space between "Type 3, 4MPS"

SuggestedRemedy

"Type 3, 4 MPS"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.4** *P* **82** *L* **9** # 67

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

No reference in text to equation 33-8.

SuggestedRemedy

Change
"The detection signature is a resistance calculated from two voltage/current measurements made during the
detection process."
To:
"The detection signature is a resistance calculated from two voltage/current measurements made during the
detection process, as defined in Equation 33-8."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.5** *P* **83** *L* **43** # 68

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"A Type 1 PD may implement any of the class signatures in 33.3.5 and 33.6."
Bad section reference.

SuggestedRemedy

"A Type 1 PD may implement any of the class signatures in 33.3.5.1 and 33.6."

Proposed Response *Response Status* **W**

PROPOSED REJECT.

We are not changing Type 1 behavior.

This could be filed as a maintenance request.

EZ

Cl **33** *SC* **33.3.5.1** *P* **84** *L* **13** # 13

Beia, Christian STMicroelectronics

Comment Type **TR** *Comment Status* **D** *PD Classification*

The behavior of Type 3 PDs which operate with a max power draw corresponding to Class 0-3 sholud be described here.

SuggestedRemedy

Add the following sentence :
Type 3 PDs operating with a maximum power draw corresponding to class 0-3 respond to 1-Event and Multiple-Event classification returning Class signature 0, 1, 2, or 3 in accordance with the maximum power draw, PClass_PD.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

This is the 1-Event section…

Add the following sentence :
Type 3 PDs operating with a maximum power draw corresponding to class 0-3 respond to 1-Event classification by returning a Class signature 0, 1, 2, or 3 in accordance with the maximum power draw, PClass_PD.

EZ

Cl **33** *SC* **33.3.5.2** *P* **84** *L* **47** # 69

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

No reference in text to Table 33-16a

SuggestedRemedy

Change:
"PDs implementing Multiple-Event physical layer classification shall present class_sig_A during
DO_CLASS_EV1 and DO_CLASS_EV2 and class_sig_B during DO_CLASS_EV3, DO_CLASS_EV4,
DO_CLASS_EV5 and DO_CLASS_EV6, as defined in Table 33-16a."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.5.2** *P* **85** *L* **26** # 308

Picard, Jean Texas Instruments

Comment Type **E** *Comment Status* **D** *Editorial*

These 2 lines should have immediately followed the last paragraph of previous page, otherwise it can become confusing.

SuggestedRemedy

Regroup this paragraph together on either page 84 or 85.

It should read as:

"Until successful Multiple-Event Physical Layer classification or Data Link Layer classification has completed, a Type 2, Type 3 and Type 4 PD's pse_power_leveltype state variable is set to '1.' A Type 2, Type 3 and Type 4 PD shall conform to the electrical requirements as defined by Table 33–18 for the level type defined in the pse_power_leveltype state variable."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.5.2** *P* **85** *L* **26** # 70

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"Type 3 and Type 4 PD shall conform to the electrical requirements..."
PD, multiple.

SuggestedRemedy

"Type 3 and Type 4 PDs shall conform to the electrical requirements..."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.5.3** *P* **86** *L* **16** # 163

Zimmerman, George CME Consulting

Comment Type **E** *Comment Status* **D** *Editorial*

Auto Class nomenclature is confusing. is it "Auto Class" or "Auto class" or "Autoclass". All are used in the draft.

SuggestedRemedy

Change all references to "Auto Class" or "Auto class" to "Autoclass"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 142

All occurances changed to Autoclass

EZ

Cl **33** *SC* **33.3.5.3** *P* **86** *L* **22** # 151

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

"PDs implementing Auto class shall not have class_sig_A of ‘0’. In addition, PDs implementing Auto class shall remove its classification current at TACS, resulting in a classification signature of ‘0’ for the remainder of CLASS_EV1. PDs implementing Auto class carry out rest of the Physical Layer classification as defined in section 33.3.5.1 or 33.3.5.2.

After power up, PDs implementing Auto class shall consume their maximum power draw throughout the period bounded by TAUTO_PD1 and TAUTO_PD2, measured from when VPort_PD rises above VPort_PD min."

There is a missing "the" in line 24, and PD is referred to singularly and plurally in this text.

SuggestedRemedy

"A PD implementing Auto class shall not have class_sig_A of ‘0’. In addition, a PD implementing Auto class shall remove its classification current at TACS, resulting in a classification signature of ‘0’ for the remainder of CLASS_EV1. A PD implementing Auto class carries out the rest of the Physical Layer classification as defined in section 33.3.5.1 or 33.3.5.2.

After power up, a PD implementing Auto class shall consume its maximum power draw throughout the period bounded by TAUTO_PD1 and TAUTO_PD2, measured from when VPort_PD rises above VPort_PD min."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.5.3** *P* **86** *L* **27** # 180

Zimmerman, George CME Consulting

Comment Type **T** *Comment Status* **D** *Editorial*

can we really specify what PD 'consumes'? we can only specify what it draws.

SuggestedRemedy

change 'consume' to 'draw'

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.5.3** *P* **86** *L* **31** # 71

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

No reference in text to Table 33-17a

SuggestedRemedy

Insert a new paragraph at the end of 33.3.5.3
"PDs implementing Auto class shall conform to the timing requirements as defined by Table 33-17a."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Add reference to table 33-17a after Tacs on line 23 and after Tauto_pd2 on line 30.

EZ

Cl **33** *SC* **33.3.5.3** *P* **86** *L* **33** # 72

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-17a lists only timing parameters, but is titled "Auto class Electrical Requirements".

SuggestedRemedy

Rename to Auto class PD timing requirements

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.5.3** *P* **86** *L* **35** # 113

Yseboodt, Lennart Philips

Comment Type **T** *Comment Status* **D** *Editorial*

Units for Item 2 (T_Auto_PD1) and Item 3 (T_Auto_PD2) are in millisec and should be in seconds.

SuggestedRemedy

Change "ms" to "s" for Item 2 and 3 in Table 33-17a

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.7** *P* **88** *L* **1** # 73

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Table 33-18*

In Table 33-18, Items 4, 8, 9, 11 the Additional information field only covers part of the rows.

SuggestedRemedy

Make field fit with all rows of the corresponding item.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

Partial OBE by comment # 152.

EZ

Cl **33** *SC* **33.3.7** *P* **88** *L* **1** # 152

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **D** *Table 33-18*

Table 33–18—PD power supply limits (continued)

For item 4, the boxes for additional information for classes 5-8 are empty.

SuggestedRemedy

Make the box with additional information for classes 0-4 span all of item 4, in particular to make it more clear that there is an explanation for "Input guaranteed available average power" for classes 6 and 8 in 33.3.7.2.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.7** *P* **88** *L* **16** # 241

Schindler, Fred — Seen Simply

Comment Type **ER** *Comment Status* **D** *Table 33-18*

For Table 33-18 item 4 for class 6 and class 8, add a note to guide the reader on permissible allowances. The reference note covers extended power.

SuggestedRemedy

"See 33.3.7.2" in the Additional information column of Table 33-18 for item 4, class 6 and 8.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 152.

EZ

Cl **33** *SC* **33.3.7** *P* **88** *L* **47** # 74

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-18, Item 8 for Type 3/4 empty.

SuggestedRemedy

Insert TBD.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.7.4** *P* **91** *L* **25** # 76

Yseboodt, Lennart — Philips

Comment Type **E** *Comment Status* **D** *PD Power*

No reference in text to equation 33-11.
This is, for example, inconsistent with the paragraph above which does have a reference to Eq. 33-10.

SuggestedRemedy

Change
"The maximum I Port value for all operating V Port_PD range shall be defined by the following equation:"
To
"The maximum I Port value for all operating V Port_PD range shall be defined by Equation 33-11"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Merge with result of comment # 117.

EZ

Cl **33** *SC* **33.3.7.4** *P* **91** *L* **35** # 359

Darshan, Yair — Microsemi

Comment Type **TR** *Comment Status* **D** *PD Power*

1. The base line approved on May was not copied correctly to Draft D1.0.
See approved baseline page 3 at
http://www.ieee802.org/3/bt/public/may15/darshan_03_0515_REV008.pdf)
2. In addition the construction of it was a bit not clear.

SuggestedRemedy

Replace line 35-40 with:
"Peak power, Ppeak_PD, for Class 4, 5 and 6 is based on Equation (33-12).
Peak power, Ppeak_PD,for Class 7 and 8 is based on Equation (33-12a).
Equation (33-12) and equation (33-12a) are used to approximate the ratiometric peak powers of Class 0 through Class 8. These equations may be used to calculate peak operating power for Ppeak_PD values obtained via Data Link Layer classification or Auto class."

There is an other comment that make changes to the above text.
The comments were separated deliberately due to the fact that the 2nd comment on this text is a result of new work that needs to be approved at the meeting.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.3.7.4** *P* **91** *L* **37** # 311

Picard, Jean Texas Instruments

Comment Type **TR** *Comment Status* **D** *PD Power*

Equation 33-12a should apply only to class 7-8

SuggestedRemedy

Replace:
Peak power, PPeak_PD, for Class 7 and 8 is based on
Equation (33-12a), which approximates the ratiometric peak powers of Class 0 through Class 8.

With:
Peak power, PPeak_PD, for Class 7 and 8 is based on
Equation (33-12a), which approximates the ratiometric peak powers of Class 7 through Class 8.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 359

EZ

Cl **33** *SC* **33.3.8** *P* **94** *L* **44** # 77

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"PDs using auto class" missing capital.

SuggestedRemedy

"PDs using Auto class"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 142

Replace with "Autoclass"

EZ

Cl **33** *SC* **33.3.8** *P* **94** *L* **49** # 78

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Annex for MPS is still TBD.

SuggestedRemedy

Add editors note that we still need to write this annex.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Add below ine 49:

"Editor's Note to be removed before publication: Informative Annex on MPS behavior and design guidelines to be added."

EZ

Cl **33** *SC* **33.3.8** *P* **95** *L* **24** # 301

Picard, Jean Texas Instruments

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-19a is in the wrong section.

SuggestedRemedy

Move table 33-19a to page 95

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

This may be because it can't fin on page 95 in the current draft. Editor to try to move table 33-19a to correct position.

EZ

Cl **33** *SC* **33.3.8** *P* **96** *L* **6** # 310

Picard, Jean Texas Instruments

Comment Type **E** *Comment Status* **D** *Editorial*

Table 33-19a:
At 2 locations, the bullet should be moved to the left

SuggestedRemedy

Position correctly the bullets

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

For Table 33-19a, Item 1:

Move the bullets ("-") from end of the first row to the beginning of the second row as it is meant to call out the power requirement.

Each "conditions" cell for item 1 should have a bulleted list inside it.

EZ

Cl **33** *SC* **33.4.1** *P* **95** *L* **24** # 79

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Line 24 says "Insert Table 33-19a as follows:", but the Table is moved beyond the section boundary.

SuggestedRemedy

Insert table in section 33.3.8.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 301.

EZ

Cl **33** *SC* **33.4.1** *P* **96** *L* **1** # 157

Walker, Dylan Cisco

Comment Type **ER** *Comment Status* **D** *Editorial*

Table 33–19a—PD DC Maintain Power Signature

Table was inadvertantly inserted in the wrong section.

SuggestedRemedy

Move Table 33–19a—PD DC Maintain Power Signature to 33.3.8, page 95, line 25 under the corresponding Editor's Note on line 23.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 301.

EZ

Cl **33** *SC* **33.4.3** *P* **98** *L* **18** # 80

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"is the frequency in MHz from 1.00 MHz to 100. MHz for a 100 Mb/s or greater PHY"
Missing zero after 100. MHz

SuggestedRemedy

Change to
"is the frequency in MHz from 1.00 MHz to 100.0 MHz for a 100 Mb/s or greater PHY"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.4.4** *P* **99** *L* **3** # 174

Zimmerman, George CME Consulting

Comment Type **ER** *Comment Status* **D** *AES*

10GBASE-T requirment is TBD, and this seems to have fallen off our action item list.

SuggestedRemedy

Add an editor's note flagging that this requirement needs contributions to fill in.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.4.6** *P* **101** *L* **46** # 83

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Missing description of what 'f' is (inconsistent with other formulas, eg. 33-15).

SuggestedRemedy

Add description such as with Eq 33-15.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.4.6** *P* **101** *L* **46** # 82

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Equation 33-17a uses variable name Edout.

SuggestedRemedy

Change to "Ed_out" to match text and Figure 33-22.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.4.6** *P* **101** *L* **46** # 81

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Confusing use of Ed_out (multiple definition) between 10G and lower speeds & no reference to Eq. 33-17a.

SuggestedRemedy

Change

"For 10GBASE-T, the coupled noise, E d_out in Figure 33-22, from a PSE or PD to the differential transmit
and receive pairs shall not exceed the following requirements under the conditions specified in 33.4.4, item
1) and item 2)."

To

"For 10GBASE-T, the coupled noise, E d_out in Figure 33-22, from a PSE or PD to the differential transmit
and receive pairs shall not exceed the requirements in Equation 33-17a under the conditions specified in 33.4.4, item
1) and item 2)."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.4.9.1.1** *P* **106** *L* **4** # 84

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Dimension of frequency is in equation "1 <= f <= 250 MHz" (twice)

SuggestedRemedy

remove "MHz" in equation consistent with Eq 33-18.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.4.9.1.3** *P* **107** *L* **10** # 119

Yseboodt, Lennart Philips

Comment Type **T** *Comment Status* **D** *AES*

Last row frequency for 10GBASE-T is not including 500 MHz, seems inconsistent.

SuggestedRemedy

change to " f<= 500 MHz"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.4.9.1.3** *P* **107** *L* **3** # 244

Schindler, Fred Seen Simply

Comment Type **ER** *Comment Status* **D** *Editorial*

Table 33-20 column "Midspan PSE Type" header does not reference PoE Types which may confuse the reader.

SuggestedRemedy

Replace the header with,
"Ethernet"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Replace header of first column with "Midspan PSE Variant"

EZ

Cl **33** *SC* **33.5.1.1.1a** *P* **110** *L* **42** # 154

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

"33.5.1.1.1a Deny Dual Signature PD 4 Pair poweer"

Spelling.

SuggestedRemedy

"33.5.1.1.1a Deny Dual Signature PD 4 Pair power"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.5.1.1.1a** *P* **110** *L* **43** # 85

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Poweer is spelled wrong

SuggestedRemedy

Change to "power"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 154.

EZ

Cl **33** *SC* **33.5.1.1.4** *P* **111** *L* **23** # 86

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"Bits 11.3:2 report the supported PSE Pinout Alternative specified in 33.2.1."
Pinout is not specified there.

SuggestedRemedy

change to "Bits 11.3:2 report the supported PSE Pinout Alternative specified in 33.2.3."

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.5.1.2.12** *P* **114** *L* **31** # 87

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"When read as a one, bit 12.0 indicates that the PSE supports the option to control which PSE Pinout
Alternative (see 33.2.1)"
Pinout is not specified there.

SuggestedRemedy

change to
"When read as a one, bit 12.0 indicates that the PSE supports the option to control which PSE Pinout
Alternative (see 33.2.3)"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.6.3.4** *P* **119** *L* **41** # 88

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"Value^a" has wrong footnote reference, 3 times in this table 33-23

SuggestedRemedy

change to "Value^1"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **335.1.1a** *P* **110** *L* **42** # 219

Dove, Daniel Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *Editorial*

Typo "poweer"

SuggestedRemedy

Search/Replace with "power"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 154.

EZ

Cl **33** *SC* **33A** *P* **145** *L* **1** # 95

Yseboodt, Lennart Philips

Comment Type **ER** *Comment Status* **D** *Editorial*

Change bars are missing for changes in the text.
They only are present for editors notes.

SuggestedRemedy

Add change bars to Annex 33A for all changes since 802.3-2012.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33A.3** *P* **145** *L* **33** # 91

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"Channel pair to pair resistance unbalance is defined by Equation (33a-1):"
Equation (33a-1) reference is wrong

SuggestedRemedy

Change to Equation (33A-2)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33A.3** *P* **145** *L* **37** # 90

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Rch_max and Rch_min uses a backslash on line 37 and 45.

SuggestedRemedy

Change to Rch_max and Rch_min

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33A.3** *P* **145** *L* **37 a** # 89

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

Small case letter a used in 33a-2 and 33a-3

SuggestedRemedy

33A-2 and 33A-3

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33A.3** *P* **145** *L* **41** # 92

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

"Channel pair to pair resistance difference is defined by Equation (33a-2):"
Equation (33a-2) reference is wrong

SuggestedRemedy

equation (33A-3)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33A.4** *P* **145** *L* **34** # 318

Darshan, Yair Microsemi

Comment Type **TR** *Comment Status* **D** *Editorial*

Typo: Need to be Equation 33a-2 and not Equation 33a-1.

SuggestedRemedy

Change from Equation 33a-1 TO Equation 33a-2.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 91.

EZ

Cl **33** *SC* **33A.4** *P* **145** *L* **37** # 319

Darshan, Yair Microsemi

Comment Type **ER** *Comment Status* **D** *Editorial*

There is a typo in equation 33a-2 and Equation 33a-3:
Equations use Rch_max and Rch_min instead Rch_max and Rch_min
remove the "\" from Rch_max and Rch_min (6 locations)

SuggestedRemedy

remove the "\" from Rch_max and Rch_min in equations 33a-2 and 33a-3 (6 locations) in lines 37 and 45.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 90.

EZ

Cl **33** *SC* **79.3.2.5** *P* **154** *L* **13** # 94

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Editorial*

No space after "Power" on line 13 and 37

SuggestedRemedy

add space after "Power" on line 13 and 37

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **Annex 33A** *P* **145** *L* **9** # 317

Darshan, Yair Microsemi

Comment Type **E** *Comment Status* **D** *Editorial*

Text says:
"Insert 33A.3 and 33A.4 after 33A.2 as follows:"
Where is 33A.2 in Draft 1.0?
Where is the text of PSE-PD stability?

SuggestedRemedy

Where is 33A.2 in Draft 1.0?
To restore "33A.2 PSE-PD stability" text as 33A.2.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

I believe the existing annex is there just not shown. Editor to confirm.

EZ

Cl **33A** *SC* **33A.3** *P* **145** *L* **11** # 155

Walker, Dylan Cisco

Comment Type **E** *Comment Status* **D** *Editorial*

"33A.3 Inter Pair Resistance Unbalance"

This section describes resistance unbalance within a twisted pair, not between twisted pairs.

SuggestedRemedy

"33A.3 Intra Pair Resistance Unbalance"

Proposed Response *Response Status* **W**

PROPOSED REJECT.

33.A.4 is for Intra Pair unbalance

EZ

Cl **79** *SC* **79** *P* **148** *L* **1** # 96

Yseboodt, Lennart Philips

Comment Type **ER** *Comment Status* **D** *Editorial*

Change bars are missing for changes in the text.
They only are present for editors notes.

SuggestedRemedy

Add change bars to clause 79 for all changes since 802.3-2012.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **79** *SC* **79.3.2** *P* **151** *L* **28** # 93

Yseboodt, Lennart Philips

Comment Type **E** *Comment Status* **D** *Autoclass*

Reminder needed to add Auto class capability

SuggestedRemedy

Add editors note: Auto class capability in LLDP to be added.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **79** *SC* **79.3.2.6a** *P* **155** *L* **4** # 122

Yseboodt, Lennart Philips

Comment Type **T** *Comment Status* **D** *DLL*

This section (PSE power status) only contains a table without text.

SuggestedRemedy

Insert editors note: Descriptive/normative text to be added to this section.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **79** *SC* **79.3.2.6b** *P* **156** *L* **3** # 123

Yseboodt, Lennart Philips

Comment Type **T** *Comment Status* **D** *DLL*

This section (System setup) only contains a table without text.

SuggestedRemedy

Insert editors note: Descriptive/normative text to be added to this section.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **99** *SC* *P* **1** *L* **2** # 159

Zimmerman, George CME Consulting

Comment Type **E** *Comment Status* **D** *Editorial*

802.3bt should be an amendment on the revised standard, not on IEEE Std. 201x. Several concurrent projects are tracking the revision project (bx) and it will be necessary at WG ballot. Better to get this done now while the TF is reviewing rather than introduce new errors in WG ballot

SuggestedRemedy

Globally change 'amendment to 802.3-2012' (in header and text) to 'amendment ot 802.3-201x', and update references and base text to track the latest draft of 802.3bx (3.1 should be appropriate for the next turn of bt)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **99** *SC* *P* **3** *L* **13** # 160

Zimmerman, George CME Consulting

Comment Type **E** *Comment Status* **D** *Editorial*

Fill in amendment name and title per PAR.

SuggestedRemedy

Fill in 802.3bt, title text from the PAR.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **TOC** *SC* **NA** *P* **13** *L* **17** # 200

Dove, Daniel Dove Networking Solut

Comment Type **ER** *Comment Status* **D** *Editorial*

Typo on word poweer.

SuggestedRemedy

Replace with word power.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ