

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 00 SC 0 P L # 166  
 Walker, Dylan Cisco  
 Comment Type E Comment Status D Editorial  
 Can we please reconsider the use of "pair set"?  
 SuggestedRemedy  
 Replace all instances of "pair set" with "pairset" or "pair-set", whichever the TF prefers.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 The task force would like to use "pairset".  
 EZ

Cl 1 SC 1.4 P 18 L 17 # 198  
 Dwelley, David Linear Technology  
 Comment Type ER Comment Status D  
 I'm still not comfortable with "pair set". "Pair" and "set" are commonly used in the 802.3 standard, and combining them this way is non-unique and subject to search-and-replace errors. The original motion in September 2014 called out "pair-set", but that isn't much better. I prefer the term "pairset" - it's a new, unique word and isn't likely to be mistaken for something else. A search of 802.3-2012 finds zero instances of "pairset".  
 SuggestedRemedy  
 Change "pair set" to "pairset" throughout the draft.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment # 166.  
 EZ

Cl 33 SC 0 P 0 L 0 # 10  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 There are still lingering occurrences of "pair to pair" or other variants which need changing to "pair-to-pair".  
 SuggestedRemedy  
 Replace on  
 - page 100, line 50  
 - page 101, line 5  
 - page 105, line 12  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33 P 19 L 1 # 167  
 Walker, Dylan Cisco  
 Comment Type ER Comment Status D Editorial  
 Section header wound up with "Autoclass" inserted within "Dependent" somehow.  
 "33. Data Terminal Equipment (DTE) Power via Media DepAutoclassendent Interface (MDI)"  
 SuggestedRemedy  
 Replace with "33. Data Terminal Equipment (DTE) Power via Media Dependent Interface (MDI)"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.1.1 P L # 159

Balasubramanian, Koussalya

self

Comment Type ER Comment Status D Editorial

The last statement "and derating of the cabling maximum ambient operating temperature" when read along with the full sentence, doesn't imply clearly that this applies to both Type 2 and 3.

*Suggested Remedy*

Make the last statement "derating..." separate sentence and include type 3 and 2 to be clear.

New statement should read "... class D or better cabling. A derating of the cabling maximum ambient operating temperature is needed for both Type 2 and Type 3 operation".

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.1.1 P 20 L 5 # 246

Zimmerman, George

CME Consulting, Inc.

Comment Type T Comment Status D Editorial

"Type 2 operation requires ISO/IEC 11801:1995 Class D or better cabling, and Type 3 operation requires ISO/IEC 11801:2002 Class D or better cabling, and a derating of the cabling maximum ambient operating temperature."

Change inadvertently removes existing statement that Type 2 requires reduction in maximum operating temperature.

*Suggested Remedy*

Rewrite as two sentences:

"Type 2 operation requires ISO/IEC 11801:1995 Class D or better cabling, and Type 3 operation requires ISO/IEC 11801:2002 Class D or better cabling. Type 2 and Type 3 operation additionally require a derating of the cabling maximum ambient operating temperature."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 159.

EZ

Cl 33 SC 33.1.1 P 20 L 5 # 168

Walker, Dylan

Cisco

Comment Type ER Comment Status D Editorial

This sentence is a bit confusing.

"Type 2 operation requires ISO/IEC 11801:1995 Class D or better cabling, and Type 3 operation requires ISO/IEC 11801:2002 Class D or better cabling, and a derating of the cabling maximum ambient operating temperature."

*Suggested Remedy*

To keep the legacy Type 2 requirement clear, separate into 2 sentences.

"Type 2 operation requires ISO/IEC 11801:1995 Class D or better cabling and a derating of the cabling maximum ambient operating temperature. Type 3 operation requires ISO/IEC 11801:2002 Class D or better cabling and a derating of the cabling maximum ambient operating temperature."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 159.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.1.1 P 20 L 5 # 11  
 Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

"Type 1 operation adds no significant requirements to the cabling. Type 2 operation requires ISO/IEC 11801:1995 Class D or better cabling, and Type 3 operation requires ISO/IEC 11801:2002 Class D or better cabling, and a derating of the cabling maximum ambient operating temperature."

It is not clear if the derating refers to both Type 2 and Type 3, or only to Type 3.

SuggestedRemedy

"Type 1 operation adds no significant requirements to the cabling. Type 2 operation requires ISO/IEC 11801:1995 Class D or better cabling, and Type 3 operation requires ISO/IEC 11801:2002 Class D or better cabling, both require a derating of the cabling maximum ambient operating temperature."

Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 159.

EZ

Cl 33 SC 33.1.3 P 21 L 45 # 169  
 Walker, Dylan Cisco

Comment Type E Comment Status D Editorial

There is a change bar that I cannot trace back to 2012.

SuggestedRemedy

Since there were missing change bars in D1.0, would like to ask the editor to double-check if this is an isolated anomaly.

Proposed Response Response Status W  
 PROPOSED ACCEPT.

It may be because we inserted something after this sentence.

EZ

Cl 33 SC 33.1.4 P 22 L 17 # 12  
 Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

Table 33-1 caption "System Power parameters Vs System Type" "System Power parameters Vs System Type"  
 Inconsistent capitalization.

SuggestedRemedy

"System power parameters vs system Type"

Proposed Response Response Status W  
 PROPOSED ACCEPT.

EZ

Cl 33 SC 33.1.4 P 22 L 21 # 13  
 Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

lcable, A is not bold

SuggestedRemedy

lcable, A in bold text

Proposed Response Response Status W  
 PROPOSED ACCEPT.

EZ

Cl 33 SC 33.1.4 P 22 L 27 # 170  
 Walker, Dylan Cisco

Comment Type TR Comment Status D Cabling

In Table 33-1, we specify the Minimum Cabling Type for Type 2 to be Class D (ISO/IEC 11801:2002), but we specify ISO/IEC 11801:1995 in Section 33.1.1 and Section 33.1.4.1, in alignment with legacy text.

SuggestedRemedy

Update Table 33-1 to reflect Class D (ISO/IEC 11801:1995) for Type 2.

Proposed Response Response Status W  
 PROPOSED ACCEPT.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.1.4.1 P 23 L 15 # 14  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 "with the additional requirement that channel DC loop resistance shall be 25ohm or less." no space between 25Ohm  
 SuggestedRemedy  
 25 Ohm (add space)  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.1.4.1 P 23 L 24 # 161  
 Balasubramanian, Koussalya self  
 Comment Type ER Comment Status D Cabling  
 Type 4 details are missing.  
 SuggestedRemedy  
 Add an editor's note to include Type 4 details.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.1.4.1 P 24 L 12 # 70  
 Yseboodt, Lennart Philips  
 Comment Type T Comment Status D Cabling  
 "Type 3 operation requires Class D or better cabling as specified in ISO/IEC 11801:2002" Does this not also apply to Type 4 ?  
 SuggestedRemedy  
 "Type 3 and Type 4 operation requires Class D or better cabling as specified in ISO/IEC 11801:2002"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment 161.  
 EZ

Cl 33 SC 33.2.2 P 25 L 40 # 171  
 Walker, Dylan Cisco  
 Comment Type E Comment Status D Editorial  
 Misplaced comma in "A Midspan PSE that results in a link that can support 1000BASE-T, and 10GBASE-T operation and optionally support 10BASE-T and 100BASE-TX operation (see Figure 33-7)."  
 SuggestedRemedy  
 Replace with "A Midspan PSE that results in a link that can support 1000BASE-T and 10GBASE-T operation, and optionally support 10BASE-T and 100BASE-TX operation (see Figure 33-7)."  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.2 P 28 L 17 # 250  
 Zimmerman, George CME Consulting, Inc.  
 Comment Type TR Comment Status D Editorial  
 "Figure 33-5a—10BASE-T/100BASE-TX Alternative A and Alternative B Endpoint PSE location overview"  
 Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), should reference 4 pair operation.  
 SuggestedRemedy  
 Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b): "Figure 33-5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.2 P 28 L 28 # 56  
 Yseboodt, Lennart Philips  
 Comment Type ER Comment Status D Editorial  
 Comment #28 Draft 1.0 not implemented.  
 SuggestedRemedy  
 Implement #28/D1.0.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 This fixes the crooked line in figure Figure 33-5b.  
 EZ

Cl 33 SC 33.2.3 P 32 L 12 # 83  
 Yseboodt, Lennart Philips  
 Comment Type TR Comment Status D Editorial  
 In Table 33-2, header row, "Alternative B" is wrong.  
 SuggestedRemedy  
 Replace by "Alternative B(S)"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment 162.  
 EZ

Cl 33 SC 33.2.3 P 32 L 10 # 162  
 Balasubramanian, Koussalya self  
 Comment Type T Comment Status D Editorial  
 Column 4 title of Table 33-2 is not in sync with Table 33-2a  
 SuggestedRemedy  
 Change title of 4th column in Table 33-2 to Alternative B(S) to be in sync with Table 33-2a  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.3 P 32 L 5 # 120  
 Bullock, Chris Cisco Systems  
 Comment Type ER Comment Status D Editorial  
 A PSE device may provide power via one or both the of two valid four-wire connections.  
 The words "the of" should be "of the"  
 SuggestedRemedy  
 Replace:  
 A PSE device may provide power via one or both the of two valid four-wire connections.  
 With:  
 A PSE device may provide power via one or both of the two valid four-wire connections.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.3 P 32 L 12 # 173  
 Walker, Dylan Cisco  
 Comment Type ER Comment Status D Editorial  
 Table 33-2 "Alternative B" column header does not match Table 33-2a.  
 SuggestedRemedy  
 Update Table 33-2 "Alternative B" column to "Alternative B(S)".  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment 162.  
 EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

CI 33 SC 33.2.4 P 33 L 31 # 252  
 Zimmerman, George CME Consulting, Inc.

Comment Type TR Comment Status D PSE State Diagram

"The PSE shall provide the behavior of the state diagrams shown in Figure 33–9, Figure 33–9 continued, and Figure 33–10."

This statement now applies only to Type 1 and Type 2 PSEs.  
 While we know that it doesn't apply to Type 3 & 4, we also don't know what behavior relates to Types 3 & 4 yet, but a statement is needed.

SuggestedRemedy

Change to : "Type 1 and Type 2 PSEs shall provide the behavior ..."  
 Insert: "Type 3 and Type 4 PSEs shall provide the behavior of the state diagrams shown in Figures (TBD)."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

CI 33 SC 33.2.4.1 P 33 L 43 # 203  
 Dwelley, David Linear Technology

Comment Type E Comment Status D Editorial

"See section 33.2.7.12 for complete details."

Details in 33.2.7.12 are not anywhere near complete on this subject

SuggestedRemedy

Remove "complete"

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

CI 33 SC 33.2.4.1 P 34 L 1 # 205  
 Dwelley, David Linear Technology

Comment Type T Comment Status D Editorial

If a PSE performing detection using Alternative B detects an open circuit (see 33.2.5.5) on the link section, then..."

Link section is old AT language - the new BT term "pair set" is better

SuggestedRemedy

Change "link section" to "pair set"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "link section to "pairset".

EZ

CI 33 SC 33.2.4.1 P 34 L 1 # 204  
 Dwelley, David Linear Technology

Comment Type E Comment Status D Editorial

"If a PSE performing detection using Alternative B detects an open circuit (see 33.2.5.5) on the link section, then that PSE may optionally omit the detection backoff."

33.2.5.5 repeats this text almost identically and refers to table 33-4, which is a broken link.

SuggestedRemedy

Change reference to: "(see Table 33-6)". Delete section 33.2.5.5 entirely.

Alternately, fix section 33.2.5.5 (including correcting link to point to Table 33-6).

Note: this is an old error from AT and may need to be submitted as a maintenance request

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Do no implement suggested remedy.

In Section 33.2.5.5 Change "Table 33-4" to "Table 33-6".

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.4.4 P 35 L 8 # 254  
 Zimmerman, George CME Consulting, Inc.

Comment Type ER Comment Status D Editorial

"Editor's Note: State machine to include early exit at any point prior to power up. Language above suggests 4PID prior to classification, commentators are encouraged to provide language consistent with 4PID by power-up."

Language above has been modified to not mention classification, so the issue is fixed.

SuggestedRemedy

Delete Editor's note.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.4.6 P 42 L 37 # 16  
 Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

".... set to values corresponding to either a Type 1 Type 2, Type 3 or Type 4 PSE. This function returns the following variable:"  
 comma is missing as well as the Harvard comma.

SuggestedRemedy

".... set to values corresponding to either a Type 1, Type 2, Type 3, or Type 4 PSE. This function returns the following variable:"

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.4.6 P 43 L 8 # 59  
 Yseboodt, Lennart Philips

Comment Type ER Comment Status D Editorial

The paragraph on line 8 through 12 uses the construct x\_sub\_y as literal text. The intention was for 'y' to become subscript.

SuggestedRemedy

Implement subscripts.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.4.7 P 45 L 40 # 259  
 Zimmerman, George CME Consulting, Inc.

Comment Type ER Comment Status D Editorial

"Figure 33-9—PSE state diagram (continued)"

Title should follow that of Figure 33-9- Type 1 and Type 2 PSE state diagram"

SuggestedRemedy

Change title to match Fig 33-9: "Figure 33-9— Type 1 and Type 2 PSE state diagram (continued)"

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.5.0a P 53 L 12 # 177  
 Walker, Dylan Cisco

Comment Type ER Comment Status D Connection Check

In Section 33.2.5 (page 52, line 50), the following is stated: "In the following subclauses, the link is not called out to preserve clarity."

SuggestedRemedy

Replace:

"In addition, only tests that result in a voltage at the PSE PI that is below Vvalid(max) as specified in Table 33-4 shall be used to determine whether a single-signature or dual-signature is attached to the two pair sets in the link section."

With:

"In addition, only tests that result in a voltage at the PSE PI that is below Vvalid(max) as specified in Table 33-4 shall be used to determine whether a single-signature or dual-signature is attached to the two pair sets."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.5.1 P 55 L 8 # 123

Bullock, Chris Cisco Systems

Comment Type TR Comment Status D Connection Check

Table 33-4:  
Voc and lsc should also apply to connection check state.  
For Item 1 and 2, change Additional information column to include Connection Check.

*SuggestedRemedy*

Change "In Detection state only" to "In Detection state or Connection Check state"

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.5.3 P 56 L 24 # 261

Zimmerman, George CME Consulting, Inc.

Comment Type ER Comment Status D Editorial

"In a multiport system, the implementor should maintain DC isolation..."  
"implementor" has been globally changed to "implementer" in 802.3bx revision project.

*SuggestedRemedy*

Change "implementor" to "implementer" throughout document.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.5.5 P 56 L 51 # 121

Bullock, Chris Cisco Systems

Comment Type ER Comment Status D Editorial

Reference to table is wrong. Ropen is defined in Table 33-6, not Table 33-4.

*SuggestedRemedy*

Change "Ropen as defined in Table 33-4," to "Ropen as defined in Table 33-6,"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment 204.

EZ

Cl 33 SC 33.2.6 P 57 L 37 # 180

Walker, Dylan Cisco

Comment Type ER Comment Status D Editorial

Move the DLL acronym to directly after the full name.

*SuggestedRemedy*

Replace:

"There are two forms of classification: Physical Layer classification and Data Link Layer classification (DLL)."

With:

"There are two forms of classification: Physical Layer classification and Data Link Layer (DLL) classification."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.6 P 58 L 18 # 96

Yseboodt, Lennart Philips

Comment Type TR Comment Status D PSE Classification

Table 33-7.  
Comment #101 implemented incorrectly.

*SuggestedRemedy*

Undo changes. Then:  
Add "," before "whichever" in all entries.  
Replace "less" with "lower" in all entries.

Proposed Response Response Status W

PROPOSED ACCEPT.

Comment 101 from D1.0 clearly said:

"Don't implement suggested remedy.

Add "," before "whichever" in all entries.

Replace "less" with "lower" in all entries."

EZ



IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.6 P 59 L 13 # 61  
 Yseboodt, Lennart Philips  
 Comment Type ER Comment Status D Editorial  
 Comment #42 Draft 1.0 not implemented.  
 SuggestedRemedy  
 Implement #42/D1.0.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ  
 Kousi and Lennart to discuss.

Cl 33 SC 33.2.6 P 59 L 15 # 42  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 Line weight in Table 33-8-PSE classification configurations is inconsistent  
 SuggestedRemedy  
 Make this in the same way as in the related table 33-15a (page 89)  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 This may be due to revision tracking.  
 Kousi and Lennart to discuss.  
 EZ

Cl 33 SC 33.2.6 P 59 L 8 # 237  
 Beia, Christian STMicroelectronics  
 Comment Type E Comment Status D Editorial  
 The text has to be updated since Table 33-8 title has changed  
 SuggestedRemedy  
 Change:  
 A PSE shall meet one of the allowable classification permutations listed in Table 33-8.  
 With  
 A PSE shall meet one of the allowable classification configurations listed in Table 33-8.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.7 P 66 L 33 # 44  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 Add a reference to the new section on Tpod. [Table 33-7, Item 1b].  
 SuggestedRemedy  
 Change additional information of item 1b to read "See 33.2.7.TBD, 33.2.7.5"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.7 P 66 L 51 # 112  
 Johnson, Peter Sifos Technologies  
 Comment Type T Comment Status D Editorial  
 Table 33-11 Item 4:  
 All 3 versions of Icon-2P specifications appear to need to reference paragraph 33.2.7.4.  
 SuggestedRemedy  
 Add 'See 33.2.7.4' to Type 3,4 4-pair mode.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.7 P 67 L 53 # 17  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 Bottom line of Table 33-11 is not bold everywhere  
 SuggestedRemedy  
 Make line bold.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.7 P 68 L 2 # 73  
 Yseboodt, Lennart Philips  
 Comment Type T Comment Status D PSE Power  
 Items 13, 21, 23 and 24 only list Type 1 and 2.  
 These all seem valid also for the new Types.  
 SuggestedRemedy  
 Change PSE Type to 'All'.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.7 P 68 L 3439 # 130  
 Darshan, Yair Microsemi  
 Comment Type ER Comment Status D Editorial  
 This comment was accepted in D1.0 and was not executed in D1.1  
 Table 33-11 item 17, additional information column, line 12  
 The text: "The pair set with highest current" is not clear since we are looking at two pairs  
 of the same polarity and we care of the pair with the highest current and not the pair-set  
 (which is the positive and negative pairs of a pair set) with the highest current.  
 SuggestedRemedy  
 Change to "The pair with highest current" in two locations  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ  
 This is from comment 347 D1.0

Cl 33 SC 33.2.7 P 68 L 45 # 18  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 Table 33-11, item 17b, additional information, Pclass 'class' not in subscript and no capital  
 C.  
 SuggestedRemedy  
 Replace by P\_Class.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.7 P 69 L 16 # 74  
 Yseboodt, Lennart Philips  
 Comment Type T Comment Status D  
 Table 33-11, item 21.  
 Tdbo is only defined for Type 1,2.  
 It remains valid also with Type 3 and Type 4 endspans.  
 SuggestedRemedy  
 add Type 3,4 to this row.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment # 73  
 EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.7 P 70 L 1 # 265  
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D Editorial

"4Item 17b applies to PSEs that implement MPS detection by measuring sum of the pair set currents of the same polarity."

Note 4 is on new page - should be with table and previous notes.

SuggestedRemedy

change formatting in notes to keep with next for notes 1-3, note 4 doesn't need keep with next.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.7.10 P 76 L 14 # 32  
 Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

"P Class is the class power defined in 33.2.6 and Equation (33-3), or ..."

SuggestedRemedy

Parentheses around Equation number are unneeded. Remove.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Editor to consult style guide and see whether the parantheses are needed or not. If not, remove them from all equation references.

EZ

Cl 33 SC 33.2.7.12 P 76 L 40 # 266  
 Zimmerman, George CME Consulting, Inc.

Comment Type TR Comment Status D Editorial

"For Type 3 and Type 4 PSEs, when connected to a single-signature PD, both pair sets must reach the POWER\_ON state within Tpon after detection on last pair set."

"must"? shouldn't this be "shall"?

SuggestedRemedy

change "must" to "shall"

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.7.4 P 71 L 26 # 75  
 Yseboodt, Lennart Philips

Comment Type T Comment Status D Editorial

"For Type 3 and Type 4 PSEs, I Con-2P as specified in Table 33-11 shall be met when there is no end to end pair-to-pair current unbalance. When end to end pair-to-pair current unbalance is present, the I Con-2P may increase up to the value of I Con-2P-UNB as specified by Table 33-11 item 4a. In addition to I Con-2P as specified in Table 33-11, the PSE shall support the following AC current waveform parameters per pair set, while within the operating voltage range of V Port\_PSE-2P :"

The shall statement is unclear.

SuggestedRemedy

"In addition to ICon-2P and ICon-2P-unb as specified in Table 33-11, the PSE shall support the following AC current waveform parameters, while within the operating voltage range of V Port\_PSE :"

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.7.4 P71 L 40 # 86  
 Yseboodt, Lennart Philips

Comment Type TR Comment Status D Editorial

"Rchan is the channel loop resistance as defined in 33.1.4; this parameter has a worst-case value of R Ch , defined in Table 33-1"

Rchan is not defined in 1.4.  
 Rchan worst case value depends on 2P or 4P power.

SuggestedRemedy

"Rchan is the channel DC loop resistance; this parameter has a worst-case value of R\_Ch when powering using one pair set and R\_Ch/2 when powering using two pair sets. Rch is defined in Table 33-1."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.7.4 P71 L 45 # 184  
 Walker, Dylan Cisco

Comment Type ER Comment Status D Editorial

K is not italicized.

SuggestedRemedy

Italicize K to match the other variable names.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.7.4a P71 L 51 # 58  
 Yseboodt, Lennart Philips

Comment Type ER Comment Status D Editorial

"The value of K which is based on curve fit and is dimensionless, for a Type 3 and Type 4 system that operates as 4-pair system is given by Equation (33-4b)."

Wrong Equation reference.

SuggestedRemedy

Change to:  
 "The value of K which is based on curve fit and is dimensionless, for a Type 3 and Type 4 system that operates as 4-pair system is given by Equation 33-4a."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.7.4a P72 L 10 # 21  
 Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

"The contribution of PSE PI pair to pair effective resistance unbalance(PSE\_P2PRunb) to the whole effective..."

Missing space between unbalance and (

SuggestedRemedy

Replace by  
 "The contribution of PSE PI pair to pair effective resistance unbalance (PSE\_P2PRunb) to the whole effective..."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.7.4a P 72 L 11 # 22

Yseboodt, Lennart

Philips

Comment Type E Comment Status D Editorial

"... to the whole effective system end to end resistance/current unbalance (E2EP2PRunb),..."

E2EP2PRunb should stand for 'system end to end resistance unbalance'.

SuggestedRemedy

Replace by

"... to the whole effective system end to end resistance unbalance (E2EP2PRunb),..."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.7.4a P 72 L 19 # 23

Yseboodt, Lennart

Philips

Comment Type E Comment Status D Editorial

Space missing between number and 'ohm' symbol. 3 occurrences.

SuggestedRemedy

Add space.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.7.4a P 72 L 21 # 24

Yseboodt, Lennart

Philips

Comment Type E Comment Status D Editorial

Annex 33B is for autoclass not P2P unbalance

SuggestedRemedy

Use Annex 33A.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.7.4a P 72 L 27 # 25

Yseboodt, Lennart

Philips

Comment Type E Comment Status D Editorial

Ohm sign after formula does not match style of other formulas.

SuggestedRemedy

Ohm sign smaller and bottom right.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.7.4a P 72 L 33 # 26

Yseboodt, Lennart

Philips

Comment Type E Comment Status D Editorial

Rpair\_min is italic

SuggestedRemedy

Change Pair\_min to non-italic

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.7.4a P 72 L 7 # 19

Yseboodt, Lennart

Philips

Comment Type E Comment Status D Editorial

Stutter in the section title.  
"PSE PI Pair-to-Ppair-to-pairair resistance and current unbalance"

SuggestedRemedy

"PSE PI Pair to Pair resistance and current unbalance."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #232.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.7.4a P72 L7 # 122  
 Bullock, Chris Cisco Systems  
 Comment Type ER Comment Status D Editorial  
 "PSE PI Pair-to-Ppair-to-pairair" should be "PSE PI Pair-to-pair"  
 SuggestedRemedy  
 Change "PSE PI Pair-to-Ppair-to-pairair" to "PSE PI Pair-to-pair"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment 232.  
 EZ

Cl 33 SC 33.2.7.4a P72 L7 # 185  
 Walker, Dylan Cisco  
 Comment Type ER Comment Status D Editorial  
 33.2.7.4a section heading has a duplicate "pair-to-pair" randomly inserted.  
 SuggestedRemedy  
 Replace:  
 "33.2.7.4a PSE PI Pair-to-Ppair-to-pairair resistance and current unbalance"  
 With:  
 "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment 232  
 EZ

Cl 33 SC 33.2.7.4a P72 L7 # 232  
 Dwelley, David Linear Technology  
 Comment Type E Comment Status D Editorial  
 Typo: "Pair-to-Ppair-to-pairair"  
 SuggestedRemedy  
 Fix  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.7.4a P72 L9 # 20  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 "Type 3 and Type 4 PSEs operating over 4-pair are subject to..."  
 4-pair is not used in rest of document  
 SuggestedRemedy  
 use four-pair  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.7.6 P74 L6 # 27  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 Remove space at end of scentence  
 Original text: "... PSE may remove power from that pair set . The cumulative duration of TCUT-2P is measured with a sliding window of at least 1 second width."  
 SuggestedRemedy  
 "... PSE may remove power from that pair set. The cumulative duration of TCUT-2P is measured with a sliding window of at least 1 second width."  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.7.7 P 74 L 16 # 118  
 Bullock, Chris Cisco Systems  
 Comment Type E Comment Status D Editorial  
 Pair set is missing an 'r'.  
 SuggestedRemedy  
 Change "a pai set" to "a pair set"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment 28  
 EZ

Cl 33 SC 33.2.7.7 P 74 L 16 # 28  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 a pai set is not correct  
 SuggestedRemedy  
 'a pai set' should be 'a pair set'  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 "a pairset"  
 EZ

Cl 33 SC 33.2.7.7 P 74 L 16 # 186  
 Walker, Dylan Cisco  
 Comment Type ER Comment Status D Editorial  
 Misspelling.  
 SuggestedRemedy  
 Replace:  
 "Power shall be removed from a pai set of a PSE before the pair set current exceeds the "PSE upperbound template" in Figure 33-14."  
 With:  
 "Power shall be removed from a pairset of a PSE before the pair set current exceeds the "PSE upperbound template" in Figure 33-14."  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment 28  
 EZ

Cl 33 SC 33.2.7.7 P 74 L 16 # 144  
 Schindler, Fred Seen Simply  
 Comment Type ER Comment Status D Editorial  
 Typo "pai".  
 SuggestedRemedy  
 Replace with "pair".  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment 28  
 EZ

Cl 33 SC 33.2.7.7 P 75 L 1 # 29  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 The definitions of I\_PSEUT-2P and I\_PSELT-2P make use of variables that do not exist.  
 SuggestedRemedy  
 Change Tcutmin-2P to T\_CUT-2P min  
 Change Tcutmax-2P to T\_CUT-2P max  
 Change Ilimmin-2P to I\_LIM-2P min  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.7.7 P 75 L 46 # 30  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 "A PSE in the POWER\_ON state may remove power from a pair set without regard to T lim when the pair set voltage no longer meets the V port\_PSE-2P specification."  
 Tlim is lowercase letters, should be uppercase subscript.  
 SuggestedRemedy  
 T\_LIM  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.7.8 P 75 L 54 # 31  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 Remove space at end of scentence.  
 Original text: "The specification for TOff in Table 33-11 shall apply to the discharge time from VPort\_PSE-2P to VOff of a pair set with a test resistor of 320 k attached to that pair set . In addition, it is recommended that the ..."  
 SuggestedRemedy  
 "The specification for TOff in Table 33-11 shall apply to the discharge time from VPort\_PSE-2P to VOff of a pair set with a test resistor of 320 k attached to that pair set. In addition, it is recommended that the ..."  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.2.7.8 P 76 L 3 # 234  
 Dwelley, David Linear Technology  
 Comment Type T Comment Status D Editorial  
 "...as long as the average voltage across the pair set is VOff."  
 Voff is a range.  
 SuggestedRemedy  
 "...as long as the average voltage across the pair set is the range of VOff."  
 Alternate fix: "...as long as the average voltage across the pair set is below VOff\_max."  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 Replace with:  
 "...as long as the average voltage across the pair set is below VOff max."  
 EZ

Cl 33 SC 33.2.9.1.2 P 78 L 23 # 211  
 Dwelley, David Linear Technology  
 Comment Type E Comment Status D  
 "The PSE may remove power from both pair sets if the DC MPS has been absent for duration greater than TMPDO on either pair set."  
 Redundant text in light of page 66 line 7.  
 SuggestedRemedy  
 Remove sentence.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 OBE by comment 187.  
 EZ



IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.2.9.1.2 P 78 L 23 # 267  
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D PSE MPS

"The PSE may remove power from both pair sets if the DC MPS has been absent for duration greater than TMPDO on either pair set."

additional restatement of permission to remove power from both pair sets.

SuggestedRemedy

delete sentence.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment 187.

EZ

Cl 33 SC 33.2.9.1.2 P 78 L 23 # 187  
 Walker, Dylan Cisco

Comment Type TR Comment Status D PSE MPS

The following sentence is redundant and should be removed according to the Editor's Note on page 66, line 9.

"The PSE may remove power from both pair sets if the DC MPS has been absent for duration greater than TMPDO on either pair set."

SuggestedRemedy

Delete the sentence.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.2.9.1.2 P 78 L 32 # 188  
 Walker, Dylan Cisco

Comment Type ER Comment Status D Editorial

Table 33-12 pertains to AC MPS, not DC MPS.

SuggestedRemedy

Relocate Table 33-12 to within Section 33.2.9.1.1.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.2 P 81 L 12 # 34  
 Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

4-pair capable is not consistent

SuggestedRemedy

change to 'four-pair'

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.3.2 P 81 L 43 # 146  
Schindler, Fred Seen Simply

Comment Type TR Comment Status D

The Draft text does not support all Type 3 variants. The existing text,

Type 3 and Type 4 PDs operating with a maximum power draw corresponding to Class 4 or greater implement both Multiple-Event Physical Layer classification (see 33.3.5.2) and Data Link Layer classification (see 33.6). Type 3 PDs advertise a class signature of 4, 5, or 6, while Type 4 PDs advertise a class signature of 7 or 8.

SuggestedRemedy

Replace the Draft sentence with, Type 3 and Type 4 PDs operating with a maximum power draw corresponding to Class 4 or greater implement both Multiple-Event Physical Layer classification (see 33.3.5.2) and Data Link Layer classification (see 33.6). Type 3 PDs advertise a class signature of 0 through 6, while Type 4 PDs advertise a class signature of 7 or 8.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment 35.

Those other variants are covered in text above the cited text.

EZ

Cl 33 SC 33.3.2 P 81 L 43 # 35  
Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

"Type 3 PDs advertise a class signature of 4, 5, or 6, while Type 4 PDs advertise a class signature of 7 or 8."  
Because this is in the paragraph that describes Class4+ PDs the intent is clear. The sentence alone however is incorrect.

SuggestedRemedy

"Such Type 3 PDs advertise a class signature of 4, 5, or 6, while Type 4 PDs advertise a class signature of 7 or 8."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.3.5 P 85 L 54 # 36  
Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

Figure caption is missing

SuggestedRemedy

"Figure 33-16 - PD state diagram"

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.4 P 87 L 4 # 157  
Schindler, Fred Seen Simply

Comment Type ER Comment Status D Editorial

Fix typo "variable 4P-ID"

SuggestedRemedy

Replace with "variable PD 4P-ID".

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.5 P 88 L 36 # 110  
Johnson, Peter Sifos Technologies

Comment Type E Comment Status D Editorial

...., Data Link Layer classification ....

Add "DLL" here since that is the term used in the Table 33-15a

SuggestedRemedy

...., Data Link Layer (DLL) classification ....

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.3.5 P 89 L 32 # 212  
 Dwelley, David Linear Technology

Comment Type T Comment Status D Editorial

"Type 2, Type 3 and Type 4 PDs implement both Multiple-Event class signature (see 33.3.5.2) and Data Link Layer classification (see 33.6)."

Missing "shall"

SuggestedRemedy

"Type 2, Type 3 and Type 4 PDs shall implement both Multiple-Event class signature (see 33.3.5.2) and Data Link Layer classification (see 33.6)."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.5.1 P 89 L 50 # 37  
 Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

"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."

PClass\_PD not in subscript.

SuggestedRemedy

change 'P\_Class\_PD' to sub\_script

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.5.2 P 90 L 48 # 214  
 Dwelley, David Linear Technology

Comment Type T Comment Status D Editorial

"The class advertised over each pair set is the total power requested by the PD over that pair set."

The word "total" is unnecessary and could be misleading - it implies the total power for the whole PD

SuggestedRemedy

Delete "total": "The class advertised over each pair set is the power requested by the PD over that pair set."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.7 P 95 L 10 # 38  
 Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

V\_PP is in capital letters PP

SuggestedRemedy

change V\_PP to V\_pp

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.7 P 95 L 15 # 45  
 Yseboodt, Lennart Philips

Comment Type E Comment Status D Editorial

Table 33-18, item 11, the a) and b) are not needed and not referred to and inconsistent with the other tables.

SuggestedRemedy

Remove a) and b).

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.3.7 P 95 L 15 # 63  
 Yseboodt, Lennart Philips

Comment Type ER Comment Status D Editorial

Table 33-18, item 11 defines V\_On and V\_Off.  
 This is a clash with identically named V\_Off from Table 33-11, Item 16.  
 These Voffs do something totally different.

SuggestedRemedy

Rename Table 33-18 V\_On to V\_On\_PD.  
 Rename Table 33-18 V\_Off to V\_Off\_PD.  
 Change all references to the PD V\_Off and PD V\_On to the new V\_Off\_PD and V\_On\_PD.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.7 P 95 L 20 # 100  
 Yseboodt, Lennart Philips

Comment Type TR Comment Status D PD Power

No PD Type in Table 33-18 for items 12 and 13

SuggestedRemedy

Set PD Type to 'All'.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.7.10 P 100 L 51 # 218  
 Dwelley, David Linear Technology

Comment Type E Comment Status D Editorial

"Type 3 PDs that are class 5 and above and Type 4 PDs from class 7 and above shall meet the following requirements when tested using the test setup and test conditions specified in 33.3.7.10.1: The current measured at any pair shall not exceed Icont-2Punb as specified in Table 33-11 item 4a."

Awkward phrasing.

SuggestedRemedy

Change to: "All Class 5 and higher PDs shall not exceed Icont\_2p\_unb (Table 33-11, item 4a) on either pair set when tested according to 33.3.7.10.1."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change to: "All Class 5 and higher PDs shall not exceed I\_con-2P-unb (Table 33-11, item 4a) on either pair set when tested according to 33.3.7.10.1."

EZ

Cl 33 SC 33.3.7.10 P 100 L 54 # 65  
 Yseboodt, Lennart Philips

Comment Type ER Comment Status D Editorial

"... shall not exceed Icont-2Punb as specified ..."

SuggestedRemedy

"... shall not exceed I\_con-2P-unb as specified ..."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment 218.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.3.7.4 P96 L 53 # 78  
 Yseboodt, Lennart Philips  
 Comment Type T Comment Status D Editorial  
 "V Overload is the PD PI voltage when the PD is drawing the permissible P Peak\_PD."  
 Voverload is missing -2P.  
 SuggestedRemedy  
 Change 'Voverload' to 'Voverload-2P'.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.3.7.4 P97 L 2 # 79  
 Yseboodt, Lennart Philips  
 Comment Type T Comment Status D Editorial  
 "At any static voltage at the PI, and any PD operating condition, with the exception of class  
 6 or class 8 PDs,  
 the peak power shall not exceed P Class\_PD max for more than T CUT min, as defined in  
 Table 33-11..."  
 TCUT min is missing -2P suffix. (Line 2)  
 "At any static voltage at the PI, c lass 6 or class 8 PDs in operating condition, the peak  
 power shall not exceed  
 P Class at the PSE PI for more than T CUT min, as defined in Table 33-11..."  
 TCUT min is missing -2P suffix. (Line 6)  
 SuggestedRemedy  
 Change 'TCUT min' to 'TCUT-2P min'.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.3.7.4 P97 L 45 # 164  
 Balasubramanian, Koussalya self  
 Comment Type TR Comment Status D PD Power  
 Comment #370 on D1.0 changes original text which uses Equation 33-12 only for Class 4  
 to class 0 through 4. I believe this is not the intention.  
 SuggestedRemedy  
 Go back to original text.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 Remove "0 through" from line 45.  
 EZ

Cl 33 SC 33.3.7.4 P97 L 5 # 64  
 Yseboodt, Lennart Philips  
 Comment Type ER Comment Status D Editorial  
 "At any static voltage at the PI, c lass 6 or class 8 PDs in operating condition, the peak  
 power shall not exceed  
 P Class at the PSE PI for more than T CUT min, as defined in Table 33-11 and 5% duty  
 cycle."  
 Bad phrasing + extra space in 'class'.  
 SuggestedRemedy  
 "For class 6 and class 8 PDs in any operating condition with any static voltage at the PI,  
 the peak power shall not exceed  
 P\_Class at the PSE PI for more than T\_CUT min, as defined in Table 33-11 and with 5%  
 duty cycle."  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.3.7.5 P 98 L 17 # 149

Schindler, Fred Seen Simply

Comment Type ER Comment Status D PD Power

Draft text,  
"Class 6 or Class 8 PDs, shall operate below the PD extended template defined in Figure 33-18."

may confuse the reader because not context is provided on why the extended template exists.

*SuggestedRemedy*

Add a period to the sentence on line 19 ending in Figure 33-18. Then add the following sentence after the corrected sentence.

See 33.3.7.2 for details on Class 6 and Class 8 PD allowances.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.7.5 P 99 L 15 # 81

Yseboodt, Lennart Philips

Comment Type T Comment Status D Editorial

T\_CUT min is not a defined parameter

*SuggestedRemedy*

Change to T\_CUT-2P min

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.7.5 P 99 L 19 # 82

Yseboodt, Lennart Philips

Comment Type T Comment Status D Editorial

"During PSE transient conditions in which the voltage at the PI is undergoing dynamic change, the PSE is responsible for limiting the transient current drawn by the PD for at least T LIM min as defined in Table 33-11."  
TLIM is not defined

*SuggestedRemedy*

Change TLIM to TLIM-2P.

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.3.8 P 102 L 31 # 151

Schindler, Fred Seen Simply

Comment Type ER Comment Status D Editorial

The legacy table 33-19 had Iport\_MPS removed and then added to Table 33-19a. The note below Table 33-19 references the current moved to Table 33-19a.

*SuggestedRemedy*

Either combine Table 33-19 and 33-19a to create Table 33-19 or move the note, NOTE—A Type 1 or 2 PD with Cport > 180 μF or a Type 3 PD with Cport > TBD μF PDs may not be able to meet the IPort\_MPS specification in Table 33–19 during the maximum allowed port voltage droop (VPort\_PSE max to VPort\_PSE min with series resistance RCh). Such a PD should increase its IPort min or make other such provisions to meet the Maintain Power Signature.

If the note is moved, correct the Table reference "Table 33-19" to "Table 33-19a".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Move note to below Table 33-19a and change reference to "-19a" in the note.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.3.8 P 102 L 41 # 158

Balasubramanian, Koussalya

self

Comment Type E Comment Status D Editorial

The note below Table 33-19 referencing lport\_mps doesnt belong there as Table 33-19 doesnt contain lport\_mps any more.

SuggestedRemedy

Move the note below Table 33-19a

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment 151.

EZ

Cl 33 SC 33.4.9 P 110 L 32 # 47

Yseboodt, Lennart

Philips

Comment Type E Comment Status X Editorial

"The configuration of "channel" and "permanent link" is defined in Figure 33-24. Type 2, 3 and 4 Midspan PSE cabling system requirements are specified in ."

Unbearable suspense. Where are they specified?!

SuggestedRemedy

Proposed Response Response Status W

Hey Mr. Smartass. If you look at -2012 you will see they are specified in 33.1.4.1.

add "33.1.4.1" after "in"

EZ

Cl 33 SC 33.4.9.1.3 P 114 L 50 # 48

Yseboodt, Lennart

Philips

Comment Type E Comment Status D Editorial

Remove space at end of scentence.  
Original text: "...or exceed the values specified in Table 33-20 ."

SuggestedRemedy

"...or exceed the values specified in Table 33-20."

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.4.9.1.4c P 115 L 34 # 49

Yseboodt, Lennart

Philips

Comment Type E Comment Status D Editorial

Remove space after parenthesis opening  
Original text: "Midspan PSEs intended for operation with 10GBASE-T ( variants 5 and 6 in Clause 33.4.9.1) are additionally required to"

SuggestedRemedy

"Midspan PSEs intended for operation with 10GBASE-T (variants 5 and 6 in Clause 33.4.9.1) are additionally required to"

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

Cl 33 SC 33.5.1.1 P 118 L 10 # 50

Yseboodt, Lennart

Philips

Comment Type E Comment Status D Editorial

4-pair is not consistent in Table 33-21.

SuggestedRemedy

change to four-pair (two times in table)

Proposed Response Response Status W

PROPOSED ACCEPT.

EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.5.1.1 P 118 L 19 # 193  
 Walker, Dylan Cisco  
 Comment Type **TR** Comment Status **D** Management  
 Table 33-21.  
 The value of "11" for bits 11.3:2 has not been updated to reflect PSE support for both Alternative A and Alternative B.  
*SuggestedRemedy*  
 Under Description for bits 11.3:2:  
 Replace: "1 1 = Reserved"  
 With: "1 1 = PSE pinout Alternative A and B"  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.5.1.1.1a P 118 L 42 # 52  
 Yseboodt, Lennart Philips  
 Comment Type **E** Comment Status **D** Editorial  
 4-pair not consistent  
*SuggestedRemedy*  
 change to four-pair (three times)  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.5.1.1.4 P 119 L 40 # 195  
 Walker, Dylan Cisco  
 Comment Type **ER** Comment Status **D** Management  
 Grammar. Also, "will never be assigned" was proven false by this Task Force for value "11", so suggest deleting it.  
*SuggestedRemedy*  
 Change:  
 "The combinations '00' for bits 11.3:2 are reserved and will never be assigned."  
 To:  
 "The combination '00' for bits 11.3:2 is reserved."  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33.6.3.4 P 127 L 53 # 53  
 Yseboodt, Lennart Philips  
 Comment Type **E** Comment Status **D** Editorial  
 Table 33-23 "Attribute to state diagram variable cross-reference" is not nicely separated over the pages.  
*SuggestedRemedy*  
 Move the whole table to the next page.  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.  
 EZ



IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

Cl 33 SC 33.8.2.1 P 134 L 20 # 1 [REDACTED]  
 Jones, Chad Cisco  
 Comment Type E Comment Status D Editorial  
 "Contact point for enquiries about the PICS" - an approved maintenance comment changes enquiries to inquiries  
 SuggestedRemedy  
 change enquiries to inquiries  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33A.4 P 153 L 13 # 54 [REDACTED]  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 Space between 3 and %.  
 SuggestedRemedy  
 Make 3 % => 3%.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC 33A.4 P 154 L 3 # 55 [REDACTED]  
 Yseboodt, Lennart Philips  
 Comment Type E Comment Status D Editorial  
 dimensions should have spaces between number and dimension.  
 Except procent.  
 SuggestedRemedy  
 Change 100m to 100 m.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 Editor to consult style guide to make sure this is correct and then act accordingly.  
 There are other comments along this same line.  
 EZ

Cl 33 SC 33B P 155 L 1 # 66 [REDACTED]  
 Yseboodt, Lennart Philips  
 Comment Type ER Comment Status D Editorial  
 Change bars are missing.  
 SuggestedRemedy  
 Add change bars here, and also in the other Annexes where they are missing.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 33 SC Annex 33C P 155 L 13 # 131 [REDACTED]  
 Darshan, Yair Microsemi  
 Comment Type T Comment Status D Editorial  
 In June 2015 comment cycle D1.0 we have accepted comment #360 to adopd pages 3 and 4 of darshan\_01\_0615.pdf. Page 4 (Annex C) was not inserted in D1.1.  
 SuggestedRemedy  
 To insert page 4 from  
[http://www.ieee802.org/3/bt/public/jun15/darshan\\_01\\_0615\\_rev\\_013a.pdf](http://www.ieee802.org/3/bt/public/jun15/darshan_01_0615_rev_013a.pdf) to PAGE 55 after Annex B.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

Cl 79 SC 79.3.2.4 P 161 L 2 # 103 [REDACTED]  
 Yseboodt, Lennart Philips  
 Comment Type TR Comment Status D Editorial  
 Table 79-4 does not allow a Type 3/4 PSE/PD to identify itself.  
 We should define how these devices fill out the fields.  
 SuggestedRemedy  
 Add to section 79.3.2.4  
 "A Type 3 or Type 4 device shall set the bits in 'power type' to (TBD)".  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

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Cl 79 SC 79.3.2.5 P 162 L 37 # 67  
 Yseboodt, Lennart Philips  
 Comment Type ER Comment Status D Editorial  
 "Power is the effective..."  
 Space missing.  
 SuggestedRemedy  
 "Power is the effective..."  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

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Cl 79 SC 79.3.2.6b P 164 L 2 # 68  
 Yseboodt, Lennart Philips  
 Comment Type ER Comment Status D Editorial  
 Comment D1.0/#123 not implemented.  
 SuggestedRemedy  
 Implement D1.0/#123.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ

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Cl 79 SC 79.5.2.1 P 172 L 20 # 2  
 Jones, Chad Cisco  
 Comment Type E Comment Status D Editorial  
 "Contact point for enquiries about the PICS" - an approved maintenance comment  
 changes enquiries to inquiries  
 SuggestedRemedy  
 change enquiries to inquiries  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 EZ