

# P802.3af Draft 3.0 Comments

Cl 30 SC P7 L # 269  
Tom Mathey Independent

Comment Type E Comment Status A

The change to Figure 30-3 has narrowed the distance between the text to the left of the vertical line and the vertical line, as well as to the right. In addition, the distance between bottom of figure and text associated with arrows has been reduced.

SuggestedRemedy

Replace distance associated with vertical line, replace LF's at bottom of figure.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.  
Figure needs to be redrawn See comment 452.

Cl 30 SC 30.1.1 P6 L 21 # 451  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A

The inserted phrase should be positioned in a manner that is logically consistent with the layer diagram, i.e. after PHYs

SuggestedRemedy

"It also includes the additions for management of MAC Control, DTEs and repeaters at speeds greater than 10 Mb/s, embedded MAUs/PHYs and DTE Power via MDI."

Proposed Response Response Status C

ACCEPT.

Cl 30 SC 30.1.1 P6 L 24 # 59  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

run-on sentence

SuggestedRemedy

change comma to a semi-colon

Proposed Response Response Status C

ACCEPT.

Cl 30 SC 30.1.5 P8 L 13 # 159  
Plunkett, Timothy R NSWCCD

Comment Type E Comment Status A

You need a comma between "30-2" and "30-3" in the last line of the paragraph.

SuggestedRemedy

add thecomma

Proposed Response Response Status C

ACCEPT.

Cl 30 SC 30.1.5 P8 L 13 # 6  
Brown, Benjamin AMCC

Comment Type E Comment Status A

Missing comma

SuggestedRemedy

Insert a comma after "30-2"

Proposed Response Response Status C

ACCEPT.

Cl 30 SC 30.1.5 P8 L 13 # 363  
Booth, Brad Intel

Comment Type E Comment Status A

Missing a comma.

SuggestedRemedy

Insert comma after 30-2.

Proposed Response Response Status C

ACCEPT.

Cl 30 SC 30.1.5 P9 L 21 # 656  
karam, roger cisco

Comment Type E Comment Status X

Actually Lines 21, 22 and 32 required attributes are note specified in a clear manner

SuggestedRemedy

Please clarify them or remove them

Proposed Response Response Status Z

Cl 30 SC 30.1.5 P9 L 21 # 677  
NAKAMURA, KARL CISCO SYSTEMS

Comment Type E Comment Status R

Actually Lines 21, 22 and 32 required attributes are note specified in a clear manner

SuggestedRemedy

Please clarify them or remove them

Proposed Response Response Status C

REJECT. withdrawn

# P802.3af Draft 3.0 Comments

Cl 30 SC 30.9 P L # 364  
Booth, Brad Intel

Comment Type E Comment Status A

30.9 is new text to be inserted into 802.3 and therefore should be underlined.

SuggestedRemedy

Underline all 30.9

Proposed Response Response Status C

ACCEPT.

Cl 30 SC 30.9 P 10 L 1 # 453  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A

There needs to be a space between "30.9" and "Management"

SuggestedRemedy

Insert space

Proposed Response Response Status C

ACCEPT.

Cl 30 SC 30.9 P 10 L 1 # 273  
Dawe, Piers Agilent

Comment Type E Comment Status A

Missing tab?

SuggestedRemedy

Insert tab or space into 30.9Management

Proposed Response Response Status C

ACCEPT.

Cl 30 SC 30.9.1.1. P 11 L 3 # 328  
Dawe, Piers Agilent

Comment Type E Comment Status A

"the current PSE Pinout Alternative in use" is confusing, in this clause where we have a "measured current method", and virtually tautologous.

SuggestedRemedy

delete "current". Also at line 22 (could substitute "present").

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 30 SC 30.9.1.1. P 12 L 38 # 693  
David Hyer Compaq Computer Co

Comment Type E Comment Status A

I believe the sentence should contain neither/nor rather than neither/or

SuggestedRemedy

Change the sentence to read.. "The enumeration "ok" indicates neither an undercurrent nor an overcurrent...."

Proposed Response Response Status C

ACCEPT.

Cl 30 SC 30.9.1.1.5 P 11 L 27 # 60  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

sentence not punctuated properly

SuggestedRemedy

put a comma before AND after the word 'however' so it reads:

"...is enabled, however, power..."

Proposed Response Response Status C

ACCEPT.

Cl 30 SC 30.9.1.1.5 P 11 L 54 # 545  
Grow, Robert M. Intel

Comment Type E Comment Status A

Grammar

SuggestedRemedy

Change "a" to "an" to read: "has detected an invalid PD."

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 30 SC 30.9.1.1.6 P 11 L 2 # 491  
Gentry, Denton Dominet Systems

Comment Type E Comment Status A

The description of aPSEPowerDetectionStatus is self-referencing. The Power Status bits are defined in Clause 33, not Clause 30.

## SuggestedRemedy

Change last sentence of the BEHAVIOR DEFINED AS section of aPSEPowerDetectionStatus to:  
"If a Clause 22 MII or Clause 35 GMII is present, then this will map to the Detection Status bits specified in 33.6.1.1.;"

Proposed Response Response Status C  
ACCEPT.

Cl 30 SC 30.9.1.1.6 P 11 L 51 # 692  
David Hyer Compaq Computer Co

Comment Type E Comment Status A

[lines 51-53] The sentence beginning "The enumeration "fault" ..." is confusing and is a run on sentence.

## SuggestedRemedy

Change the sentence to read.. "The enumeration "fault" indicates that the PD Detection function has detected a PD detection fault. PD Detection faults are vendor specific."

Proposed Response Response Status C  
ACCEPT.

Cl 30 SC 30.9.1.1.6 P 11 L 52 # 61  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

phrase is repeated twice in same sentence

## SuggestedRemedy

remove the phrase "indicates that the PD Detection function"

Proposed Response Response Status C  
ACCEPT.

Cl 30 SC 30.9.1.1.6 P 11 L 53 # 62  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

run-on sentence

## SuggestedRemedy

put a period after the phrase "detected a fault." and capitalize the next word "Faults".

Proposed Response Response Status C  
ACCEPT.

Cl 30 SC 30.9.1.1.6 P 11 L 53 # 325  
Dawe, Piers Agilent

Comment Type E Comment Status A

"vendor-specific"

Editorial Required

## SuggestedRemedy

implementation specific. Also p42 line 52.

Proposed Response Response Status C  
ACCEPT.

Cl 30 SC 30.9.1.1.6 P 11 L 54 # 63  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

'a' should be 'an'

## SuggestedRemedy

change "...detected a invalid PD." to "...detected an invalid PD."

Proposed Response Response Status C  
ACCEPT.

Cl 30 SC 30.9.1.1.7 P 12 L 14 # 546  
Grow, Robert M. Intel

Comment Type E Comment Status A

No class5 is defined in clause 33.

## SuggestedRemedy

Delete line 14.

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 30 SC 30.9.1.1.7 P 12 L 15 # 64  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 too many classes listed since the rest of the document was edited.  
 SuggestedRemedy  
 remove entire class 5 line  
 Proposed Response Response Status C  
 ACCEPT.

Cl 30 SC 30.9.1.1.7 P 12 L 18 # 65  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing comma  
 SuggestedRemedy  
 put a comma after the word 'detected' so it reads "...is being detected, as indicated..."  
 Proposed Response Response Status C  
 ACCEPT.

Cl 30 SC 30.9.1.1.8 P 12 L 30 # 66  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 unnecessary space within some words  
 SuggestedRemedy  
 remove the space in the words "over current" and "under current" in lines 30,31,32.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 30 SC 30.9.1.1.8 P 12 L 38 # 67  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 wrong word used  
 SuggestedRemedy  
 change 'or' to 'nor' because it is used with 'neither'.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 30 SC 30.9.1.1.8 P 12 L 42 # 68  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 wrong tense of word used  
 SuggestedRemedy  
 change 'has' to 'have' so the sentence reads "...condition have been detected..."  
 Proposed Response Response Status C  
 ACCEPT.

Cl 30 SC 30.9.1.1.8 P 12 L 48 # 69  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 typo  
 SuggestedRemedy  
 change 'that' to 'than' so it reads "...for a duration greater than..."  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

Cl 30 SC 30.9.1.1.8 P 12 L 48 # 7  
 Brown, Benjamin AMCC  
 Comment Type E Comment Status A  
 Missing uppercase  
 SuggestedRemedy  
 At the end of the line, uppercase the first letter of "overload". This is consistent with the use of "Overload current limit" in the next line as well as "Overload time limit" twice in the next line.  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

Cl 30 SC 30.9.1.1.8 P 12 L 49 # 8  
 Brown, Benjamin AMCC  
 Comment Type E Comment Status A  
 wrong word  
 SuggestedRemedy  
 Replace "greater that" with "greater than"  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

# P802.3af Draft 3.0 Comments

Cl 30 SC 30.9.1.2 P 13 L 1 # 490  
 Gentry, Denton Dominet Systems  
 Comment Type E Comment Status A  
 Heading of "30.9.1.2 PD Actions" should be "30.9.1.2 PSE Actions"  
 SuggestedRemedy  
 Change heading to "30.9.1.2 PSE Actions"  
 Proposed Response Response Status C  
 ACCEPT.

Cl 30 SC 30.9.1.2 P 13 L 1 # 9  
 Brown, Benjamin AMCC  
 Comment Type E Comment Status A  
 Wrong word in sub clause heading  
 SuggestedRemedy  
 Replace "PD actions" with "PSE actions"  
 Proposed Response Response Status C  
 ACCEPT.

Cl 30 SC 30.9.2.1.2 P 13 L 45 # 493  
 Gentry, Denton Dominet Systems  
 Comment Type E Comment Status A  
 The description of aPDPowerStatus is self-referencing. The Power Status bits are defined in Clause 33, not Clause 30.  
 SuggestedRemedy  
 Change first sentence of the BEHAVIOR DEFINED AS section of aPDPowerStatus to:  
 "A read-only value that indicates the current status of the Power Status bits specified in 33.6.1.2.;"  
 Proposed Response Response Status C  
 ACCEPT.

Cl 30 SC 30.9.2.1.3 P 14 L 16 # 492  
 Gentry, Denton Dominet Systems  
 Comment Type E Comment Status A  
 The description of aPDPowerPairs is self-referencing. The Pair Status bits are defined in Clause 33, not Clause 30.  
 SuggestedRemedy  
 Change last sentence of the BEHAVIOR DEFINED AS section of aPDPowerPairs to:  
 "If a Clause 22 MII or Clause 35 GMII is present, then this will map to the Pair Status bits specified in 33.6.1.2.;"  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC P L # 384  
 Booth, Brad Intel  
 Comment Type E Comment Status A  
 [Subclause 33.all] Don't need to state ""section"" before the subclause number.  
 SuggestedRemedy  
 Page 18, line 52, remove "Section".  
 Page 29, line 9 and 12, remove "section".  
 Page 35, line 8, remove "section".  
 Editor should scan document for others.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC P L # 549  
 Grow, Robert M. Intel  
 Comment Type E Comment Status A  
 [33.General] Figures and tables are not in IEEE style.  
 SuggestedRemedy  
 Use IEEE style template so that figures are listed with em-dash instead of period (Figure 33-1), and so that tables are numbered with the clause number (Table 33-1).  
 Proposed Response Response Status C  
 ACCEPT.

# P802.3af Draft 3.0 Comments

<i>Cl</i> <b>33</b>	<i>SC</i>	<i>P</i>	<i>L</i>	# <b>279</b>
Dawe, Piers		Agilent		
<i>Comment Type</i> <b>E</b>	<i>Comment Status</i> <b>A</b>	<i>Editorial Required</i>		
Scientific units				
<i>SuggestedRemedy</i>				
Not usual Usual				
10 Volts 10 V				
30 volts 30 V				
5ma, 5 ma 5 mA				
500nF 500 nF				
two volt 2 V or 2.0 V				
time ... 10uS time ... 10 us				
19K to 26.5K [ohm] 19 to 26.5 k[ohm] or 19 k[ohm] to 26.5 k[ohm] (where [ohm] is capital Omega)				
0.44 - 12.95 Watts 0.44 to 12.95 W				
20KHz 20 kHz				
0.44W 0.44 W (or 440 mW?)				
<i>Proposed Response</i>	<i>Response Status</i> <b>C</b>			
ACCEPT.				

<i>Cl</i> <b>33</b>	<i>SC</i>	<i>P</i>	<i>L</i>	# <b>369</b>
Booth, Brad		Intel		
<i>Comment Type</i> <b>E</b>	<i>Comment Status</i> <b>A</b>			
[Subclause 33.all] Figures headings are incorrect.				
<i>SuggestedRemedy</i>				
Change from 33.1 to 33-1. Apply to all figures.				
<i>Proposed Response</i>	<i>Response Status</i> <b>C</b>			
ACCEPT.				

<i>Cl</i> <b>33</b>	<i>SC</i>	<i>P</i>	<i>L</i>	# <b>370</b>
Booth, Brad		Intel		
<i>Comment Type</i> <b>E</b>	<i>Comment Status</i> <b>A</b>			
[Subclause 33.all] Tables are labeled incorrectly				
<i>SuggestedRemedy</i>				
Change Table 1 to be Table 33-1. Repeat for all tables.				
<i>Proposed Response</i>	<i>Response Status</i> <b>C</b>			
ACCEPT.				

<i>Cl</i> <b>33</b>	<i>SC</i>	<i>P</i>	<i>L</i>	# <b>388</b>
Booth, Brad		Intel		
<i>Comment Type</i> <b>E</b>	<i>Comment Status</i> <b>A</b>	<i>PICS</i>		
PICS are missing. Even if the tables aren't ready, the editor should add the PICS header information.				
<i>SuggestedRemedy</i>				
[as proposed]				
<i>Proposed Response</i>	<i>Response Status</i> <b>C</b>			
ACCEPT IN PRINCIPLE.				

<i>Cl</i> <b>33</b>	<i>SC</i>	<i>P</i>	<i>L</i>	# <b>374</b>
Booth, Brad		Intel		
<i>Comment Type</i> <b>E</b>	<i>Comment Status</i> <b>A</b>			
[Subclause 33.all] Incorrect use of units.				
<i>SuggestedRemedy</i>				
Change ma to mA.				
Change uS to us.				
Change K(ohm symbol) to k(ohm symbol).				
Change Volts to either volts or V.				
Insert space between value and unit of measurement.				
<i>Proposed Response</i>	<i>Response Status</i> <b>C</b>			
ACCEPT.				

# P802.3af Draft 3.0 Comments

Cl 33 SC P1 L 26 # 449  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A Editorial Required  
No PICs included in the draft

## SuggestedRemedy

Please present a plan for when the PICs will be included.  
i.e. at which draft and at what point in the process we will get to review it.  
Note that this non-trivial amount of work may impact the turn-around schedule for incrementing the draft, therefore when it gets put in can have major schedule impact.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC P15 L 0 # 391  
Booth, Brad Intel

Comment Type E Comment Status A  
Header missing from first page of Clause 33. Header information not consistent with previous clause header. Footers are not consistent throughout document. Line numbering should be on the outside margins.

## SuggestedRemedy

If assistance is required, please feel free to ask commenter.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC P32 L 19 # 565  
Burton, Scott Mitel Networks

Comment Type E Comment Status A  
[Table 12] "...circuitry will be design ..."

## SuggestedRemedy

"...circuitry will be designed..."

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33. P L # 732  
Thaler, Pat Agilent Technologies

Comment Type E Comment Status A  
Hz is not capitalized constantly. For instance, table 33-12 has both Hz and hz.

## SuggestedRemedy

Hz is the correct capitalization.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.0 P20 L 49 # 742  
Jonathan Thatcher World Wide Packets

Comment Type E Comment Status A  
To the best degree possible, all specifications in the 802.3 specification are usually placed into tables. Throughout this document, various voltage, current, and timing specifications are embedded in the text.  
Also see P21.3; P21.9, P23.27; etc.

## SuggestedRemedy

Put specs in tables.

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

23.27 is in a table

put others in tables.

Cl 33 SC 33.0 P45 L # 332  
Dawe, Piers Agilent

Comment Type E Comment Status A Editorial Required  
[Pages 45-46] Please sort out the subclause numbering.

## SuggestedRemedy

per comment

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.0**      **P 45**      **L 1**      # **489**  
 Thompson, Geoffrey O.      Nortel  
**Comment Type**    **E**      **Comment Status**    **A**  
 Clause Title and numbering are incorrect  
**SuggestedRemedy**  
 Change from: "33.1 Annex 33A"  
 To: "Annex 33A (Informative) Detection Signature Equivalent Circuits"  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.0**      **P 45**      **L 1**      # **389**  
 Booth, Brad      Intel  
**Comment Type**    **E**      **Comment Status**    **A**  
 Incorrect Annex heading used.  
**SuggestedRemedy**  
 Heading should read "Annex 33A" and should be followed by an indication if the annex is informative or normative.  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.0**      **P 45**      **L 1**      # **390**  
 Booth, Brad      Intel  
**Comment Type**    **E**      **Comment Status**    **A**  
 Annex headings and figure titles need to be cleaned up. Header information missing on first page.  
**SuggestedRemedy**  
 [as proposed]  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.0**      **P 45**      **L 53**      # **333**  
 Dawe, Piers      Agilent  
**Comment Type**    **E**      **Comment Status**    **A**  
 "complaint"  
**SuggestedRemedy**  
 compliant  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.0**      **P 45**      **L 6**      # **544**  
 Grow, Robert M.      Intel  
**Comment Type**    **E**      **Comment Status**    **A**  
 The time for proposals is past. The standard specifies, requires, recommends, etc.  
**SuggestedRemedy**  
 Replace "proposed" with "recommended in line 6 and line 53."  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT.



# P802.3af Draft 3.0 Comments

Cl 33 SC 33.0 P47 L 55 # 263  
Cobb, Terry Avaya

Comment Type E Comment Status A Editorial Required

Need informative annex to point out additional applications. Add:

## SuggestedRemedy

Annex 33B

(Informative)

Cabling Guidelines

DTE power via MDI is intended to operate over a 100 ohm balanced twisted-pair cabling infrastructure as described in ISO/IEC 11801-2000. Although initial implementations are expected to make use of this to provide powered wireless access points and Ethernet based IP telephones, the clause is intended to address a much larger family of low power devices whose applications require connection to local area networks.

It is expected that in the future as building cabling infrastructures begin to support more building automation systems (BAS), additional cabling guidelines will be implemented. BAS systems are used for controlling building systems such as fire alarm, security and access control (e.g., closed circuit television), and energy management systems (e. g., heating, ventilation and air conditioning and lighting control). One such standard that is to be published to support these systems with a cabling infrastructure in EIA/TIA is the Building Automation Cabling Standard for Commercial Buildings. This Standard will specify a generic cabling system for building automation systems used in commercial buildings for a multi?product, multi?vendor environment. The purpose of the Standard is to enable the planning and installation of a structured cabling system for building automation system applications that are required for use in new or renovated construction of commercial buildings. It is significantly less expensive to integrate all of the major voice, data, and BAS applications by utilizing a fully integrated structured cabling infrastructure.

For planning purposes, a sufficient number of horizontal cabling links should be provided for voice, data, and building automation services over the average floor space. It is recommended that a minimum of two 4-pair outlets be provided per work area as specified in the current standards in ISO/IEC and TIA/EIA.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Strike "twisted pair".

Give editor license to put first paragraph into the overview.  
Insert as second paragraph of 33.1.  
Discard final two paragraphs.

Cl 33 SC 33.0.0.1 P45 L # 29  
Brown, Benjamin AMCC

Comment Type E Comment Status A

The subclause numbering in this annex appears to be very confusing. It should be cleaned up.

Also, on page 45, line 54, there's a spelling error.

## SuggestedRemedy

Fix subclause numbering...

Replace ""complaint"" with ""compliant""

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.0.0.1 P45 L 11 # 195  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A

[Annex A} Omega symbol missing from all diagrams after K.

## SuggestedRemedy

Add omega symbol after all Ks (and add a space before the K).

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.0.0.1 P45 L 3 # 155  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

capitalization issue

## SuggestedRemedy

capitalize the 'c' in 'class' to maintain consistency (lines 3 and 51).

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.0.0.1 P 45 L 3 # 156  
 Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

heading number is wrong

## SuggestedRemedy

should '33.0.0.1' actually read 'AG.0.0.1' since it's in the Annex section?

also, should this have the same heading as the heading for section 'AG.0.0.2' on line 51?

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.0.0.1 P 45 L 7 # 154  
 Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

incorrect punctuation

## SuggestedRemedy

change period at the end of 'purposes' to a colon.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.0.0.2 P 45 L 53 # 157  
 Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

misspelled word

## SuggestedRemedy

compliant is spelled wrong.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.1 P 15 L 11 # 735  
 Jonathan Thatcher World Wide Packets

Comment Type E Comment Status A

Change sentence to:

"Clause 33 powering is intended to provide power to a 10BASE-T, 100BASE-T, or 1000BASE-T network attached device over via the same media used for the network connection. This clause standardizes the following:

Line 16:

change "add power" to "that provides power"

Line 18

change to "a protocol for detecting a device that requires power, and

Line 19

change to "optionally, a method...."

Remove paragraph lines 21 to 24. Put it in your marketing material, it doesn't belong here.

Line 27

Find better word for "intertwined." The devices will never be "intertwined."

Remove sentence "The reader is advised... learning both."

## SuggestedRemedy

See comment.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Line 11: insert 10, 100, 1000BASE-T.

Line 16: leave "adds" see comment 459.

Line 18: accept

Line 19: accept

leave in lines 21-24. No alternative text provided.

Line 27: resolved in comment 357.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.1**      **P 15**      **L 12**      # **356**  
 Alexander, Thomas      PMC-Sierra, Inc.

**Comment Type E**      **Comment Status A**

[Lines 12-13] The sentence "Clause 33 powering is intended to provide a device a simple and crisp interface ..." could be better phrased. It would be preferable to use "DTE powering" instead of "Clause 33 powering", for example. Also, the word "with" should be inserted into the middle of "a device a simple".

## SuggestedRemedy

Replace the portion of the sentence specified in the comment with the following: "DTE powering is intended to provide a device with a simple and crisp interface ...".

To be perfectly honest, I would not have bothered the Task Force with such an insignificant and nit-picky comment if there had been any way to enter an Approve vote without comments. Perhaps 802.3af should consider providing a means of doing so?

**Proposed Response**      **Response Status C**  
 ACCEPT.

**Cl 33**      **SC 33.1**      **P 15**      **L 12**      # **70**  
 Rasimas, Jennifer G.      Nortel Networks

**Comment Type E**      **Comment Status A**  
 sentence doesn't read clearly

## SuggestedRemedy

add the word 'with' so it reads "...is intended to provide a device with a simple and crisp..."

**Proposed Response**      **Response Status C**  
 ACCEPT.

**Cl 33**      **SC 33.1**      **P 15**      **L 12**      # **459**  
 Thompson, Geoffrey O.      Nortel

**Comment Type E**      **Comment Status A**

Para 2 needs work.  
 a) Clause 33 does not provide an interface to both. It adds power to the existing (data) interfaces defined in other clauses.  
 b) "network" is not a verb.

## SuggestedRemedy

Editorial cleanup

**Proposed Response**      **Response Status C**  
 ACCEPT IN PRINCIPLE.  
 Reword that subclause to appropriately explain that we are only adding an additronal sublayer.

**Cl 33**      **SC 33.1**      **P 15**      **L 12**      # **365**  
 Booth, Brad      Intel

**Comment Type E**      **Comment Status A**

Clean up first sentence of second paragraph.

## SuggestedRemedy

Change to read: "Clause 33 powering is intended to provide a device with a simple and crisp interface to both the data it requires and the power to process that data."

**Proposed Response**      **Response Status C**  
 ACCEPT.

**Cl 33**      **SC 33.1**      **P 15**      **L 12**      # **584**  
 Dallesasse, John      Molex

**Comment Type E**      **Comment Status A**

1) "Simple" and "crisp" are somewhat redundant.  
 2) "Crisp" does not create a good mental image when used to describe a powered electrical interface. I have seen what I would describe as "crisp" interfaces, and I suspect that one of the objectives of this clause is to prevent "crisp" interfaces from occurring.

## SuggestedRemedy

Remove the word "crisp."

**Proposed Response**      **Response Status C**  
 ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.1**      **P 15**      **L 13**      # **357**  
 Goldis, Moty      Avaya

**Comment Type E**      **Comment Status A**

The text "the user will both power and the network devices that are compliant" is wrong

## SuggestedRemedy

it could be " the user will be able both power and link network devices that are compliant

**Proposed Response**      **Response Status C**  
 ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.1**      **P 15**      **L 14**      # **366**  
 Booth, Brad      Intel

**Comment Type E**      **Comment Status A**

"standardizes" is poor wording.

## SuggestedRemedy

Change to be "specifies".

**Proposed Response**      **Response Status C**  
 ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.1 P 15 L 16 # 460  
 Thompson, Geoffrey O. Nortel  
 Comment Type E Comment Status A Editorial Required  
 In a) where you say "100 ohm balanced twisted-pair cabling" is it your intention to exclude (1) 120 ohm 11801 compliant cabling and (2) 11801 balanced cabling that is not twisted pair, i.e. quad?  
 SuggestedRemedy  
 Exclude 120 ohm  
 Include quad  
 Change text to: "100 ohm balanced cabling"  
 (See also line 22)  
 Proposed Response Response Status C  
 ACCEPT.  
 Correct all instances.

Cl 33 SC 33.1 P 15 L 16 # 341  
 Naganuma, Ken Toko America Inc.  
 Comment Type E Comment Status A  
 Keep consistency : 100 ohm  
 SuggestedRemedy  
 100[ohm symbol]  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.1 P 15 L 16 # 173  
 Turner, Ed Lattice Semiconductor  
 Comment Type E Comment Status A  
 The text 'ohm' is not IEEE standard format.  
 SuggestedRemedy  
 Replace the text 'ohm' with the omega symbol (ALT-087).  
 This also occurs in many places elsewhere in the document. Rather than submit a comment for each instance, perform a global search and replace to fix it everywhere.  
 Also ensure that a space is inserted between the number and the unit symbol.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.1 P 15 L 22 # 342  
 Naganuma, Ken Toko America Inc.  
 Comment Type E Comment Status A  
 Keep consistency : 100 ohm  
 SuggestedRemedy  
 100[ohm symbol]  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.1 P 15 L 27 # 600  
 Brikovskis, Rhett Lantern Communicatio  
 Comment Type E Comment Status A  
 Awkward choice of words--"separate but intertwined devices".  
 SuggestedRemedy  
 Replace "intertwined" with "interdependent" or "mutually dependent".  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

Cl 33 SC 33.1 P 15 L 27 # 274  
 Dawe, Piers Agilent  
 Comment Type E Comment Status A  
 PSE and PD aren't intertwined. They are separate, if connected.  
 SuggestedRemedy  
 You might say that their operation is intertwined, or closely or intimately related.  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.1**      **P 15**      **L 29**      # **275**  
Dawe, Piers      Agilent

**Comment Type**    **E**      **Comment Status**    **R**      **Editorial Required**

Before we get into the detail, this is the place for a few sentences about how this scheme works.

## SuggestedRemedy

I can't write it but some key points appear to be:

The PD shall be capable of accepting power on either of two sets of MDI conductors.

The key points in 33.3.2.

**Proposed Response**      **Response Status**    **C**

REJECT.

Lack of specific text.

**Cl 33**      **SC 33.1**      **P 15**      **L 32**      # **461**  
Thompson, Geoffrey O.      Nortel

**Comment Type**    **E**      **Comment Status**    **A**      **Editorial Required**

The term "link" as set forth here is used in a manner that is not consistent with established 802.3 definitions. The term that I believe you are looking for is "link segment" and Twisted Pair Link Segment. See 1.4.279 and 1.4.280

## SuggestedRemedy

Revise terminology to be consistent with 802.3  
(Will require global search and replace)

**Proposed Response**      **Response Status**    **C**

ACCEPT IN PRINCIPLE.

Not global

**Cl 33**      **SC 33.1**      **P 15**      **L 44**      # **463**  
Thompson, Geoffrey O.      Nortel

**Comment Type**    **E**      **Comment Status**    **A**

The text: "wiring plant" should be "cabling plant" or "cabling" for consistency and accuracy

## SuggestedRemedy

[as proposed]

**Proposed Response**      **Response Status**    **C**

ACCEPT.

**Cl 33**      **SC 33.1**      **P 15**      **L 45**      # **464**  
Thompson, Geoffrey O.      Nortel

**Comment Type**    **E**      **Comment Status**    **A**

Use non-breaking hyphen in 1000BASE-T

## SuggestedRemedy

[as proposed]

**Proposed Response**      **Response Status**    **C**

ACCEPT.

**Cl 33**      **SC 33.1**      **P 15**      **L 7**      # **458**  
Thompson, Geoffrey O.      Nortel

**Comment Type**    **E**      **Comment Status**    **A**

"This clause defines an optional power layer for use with physical layers" is incorrect and not consistent with 33.1.3

## SuggestedRemedy

Replace with: "This clause defines an optional power sublayer for use with physical layers"

**Proposed Response**      **Response Status**    **C**

ACCEPT.

**Cl 33**      **SC 33.1.1**      **P 15**      **L 32**      # **547**  
Grow, Robert M.      Intel

**Comment Type**    **E**      **Comment Status**    **A**

Clarify definition of "link".

## SuggestedRemedy

"In this clause, the term link refers to a point-to-point physical link using a four unshielded twisted pair medium, and specifically does not refer to an aggregation link as in Clause 43."

**Proposed Response**      **Response Status**    **C**

ACCEPT.

**Cl 33**      **SC 33.1.1**      **P 15**      **L 32**      # **367**  
Booth, Brad      Intel

**Comment Type**    **E**      **Comment Status**    **A**

Missing a word.

## SuggestedRemedy

Change end of sentence to read "... as specified in Clause 43."

**Proposed Response**      **Response Status**    **C**

ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.1.1 P 15 L 34 # 34  
 McCormack, Michael 3Com  
 Comment Type E Comment Status A  
 the phrase 'a repeater' is perhaps too cryptic  
 SuggestedRemedy  
 change to 'a repeater or other DCE'  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.1.1 P 15 L 35 # 557  
 Grow, Robert M. Intel  
 Comment Type E Comment Status A  
 This probably needs expansion. The clause assumes a DTE at both ends of a powered link. Can't a repeater port either be a PSE or PD?  
 SuggestedRemedy  
 Expand to indicate how terms are used in the clause are not restrictive of possible alternate uses.  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

Cl 33 SC 33.1.1 P 15 L 36 # 562  
 Burton, Scott Mitel Networks  
 Comment Type E Comment Status A  
 SELV should be defined and this "Terminology" clause would perhaps be the appropriate location for the definition.  
 SuggestedRemedy  
 Add the following definition, from ANSI/UL 60950-2000, 1.2.8.6:  
 SELV Circuit: A SECONDARY CIRCUIT which is so designed and protected that under normal operating conditions and single fault conditions, its voltages do not exceed a safe value.  
 From 2.2.2 Voltages under normal conditions: In a single SELV CIRCUIT ...the voltage between any two conductors ... or between any one conductor and earth ... shall not exceed 42.4V peak, or 60V d.c. ...  
 From 2.2.3 Voltages under fault conditions: Except as permitted ... in the event of a single fault ... the voltages shall not exceed 42.4 V peak or 60V d.c. for longer than 0.2 s....a limit of 71V peak or 120V d.c. shall not be exceeded.  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 Page 3, line 20, add pointer to correct IEC (60364 ? 60950 ? ).  
 Change 1.3 to 1.5.  
 Add boilerplate for changes.

Cl 33 SC 33.1.2 P 15 L 39 # 71  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 sentence doesn't read well without more punctuation.  
 SuggestedRemedy  
 add commas after 'MDI' and after 'clause' so sentence now reads "Power via MDI, as described in this clause, provides the following."  
 Proposed Response Response Status C  
 ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.1.2 P 15 L 43 # 11  
Brown, Benjamin AMCC

Comment Type E Comment Status A

The first use of an abbreviation should provide the full wording.

SuggestedRemedy

Replace "non-SELV" with "non-SELV (safety extra low voltage)"

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Spell out, insert in parentheses

Cl 33 SC 33.1.2 P 15 L 45 # 368  
Booth, Brad Intel

Comment Type E Comment Status A

In the compatibility section, you state what you're compatible with, but not what is outside the scope of this clause.

SuggestedRemedy

Add sentence at the end of bullet c) that reads "The use of other 802.3 MDIs is considered beyond the scope of this specification."

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.1.2 P 15 L 45 # 35  
McCormack, Michael 3Com

Comment Type E Comment Status A

Despite my diatribe that this section was not to be edited, bullet c is no longer correct, we add a resistive imbalance requirement to the cabling

SuggestedRemedy

change text to 'and adds no significant requirements to the cabling plant.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.1.3 P 16 L # 12  
Brown, Benjamin AMCC

Comment Type E Comment Status A

[pages 16-17] These figures should more closely match the figures from other clauses detailing the OSI reference model

SuggestedRemedy

Add detail to these figures such as all the layers of the reference model as well as the terms of all the layers. See Figure 46-1 in the 802.3ae draft for example.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.1.3 P 16 L # 276  
Dawe, Piers Agilent

Comment Type E Comment Status A Editorial Required

Notation: Figure 33-1 (it's some kind of dash which I can't write in this comment tool, not a hyphen) not 33.1 Table 33-1 not 1 and similarly.

SuggestedRemedy

Check notation of all figure and table titles and references to them.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.1.3 P 16 L 23 # 72  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing punctuation

SuggestedRemedy

put a comma before 'respectively' and a period after it.

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.1.3**      **P 16**      **L 3**      # **160**  
 Plunkett, Timothy R      NSWCD

**Comment Type**    **E**      **Comment Status**    **A**

The first paragraph describes an optional sublayer that lies between the physical layer and the medium, however Figures 33.1 and 33.2 seem to show this sublayer as being parallel with the physical layer instead of lying beneath it.

**SuggestedRemedy**  
 Either the drawings or the paragraph needs to be changed so that they appear to agree with each other. Maybe the paragraph can be re-written so that the power sublayer is said to be optionally located alongside the physical layer.

**Proposed Response**      **Response Status**    **C**  
 ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.1.3**      **P 16**      **L 6**      # **548**  
 Grow, Robert M.      Intel

**Comment Type**    **E**      **Comment Status**    **A**

Figures should be consistent with the style of other 802.3 clauses.

**SuggestedRemedy**  
 Redraw figures 33.1, 33.2, and 33.3 in a style consistent with other clauses (e.g., Figure 14-1)

**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.1.3**      **P 16**      **L 6**      # **186**  
 Turner, Ed      Lattice Semiconductor

**Comment Type**    **E**      **Comment Status**    **A**

Figure 33.1 uses the incorrect font for the text.  
 It's usual to use the sans-serif font in diagrams. See Clause 2.1.

**SuggestedRemedy**  
 Change text to sans-serif font.  
 Also applies to all other figures (except 33.10).

**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.2**      **P 18**      **L 11**      # **74**  
 Rasimas, Jennifer G.      Nortel Networks

**Comment Type**    **E**      **Comment Status**    **A**

missing punctuation

**SuggestedRemedy**  
 put a comma after the word 'document'.

**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.2**      **P 18**      **L 11**      # **738**  
 Jonathan Thatcher      World Wide Packets

**Comment Type**    **E**      **Comment Status**    **A**

Remove word "generally"

**SuggestedRemedy**  
 See comment

**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.2**      **P 18**      **L 11**      # **174**  
 Turner, Ed      Lattice Semiconductor

**Comment Type**    **E**      **Comment Status**    **A**

Text missing between 'For' and 'purposes'.

**SuggestedRemedy**  
 Insert 'the' between 'For' and 'purposes'.

**Proposed Response**      **Response Status**    **C**  
 ACCEPT.



# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2 P 18 L 3 # 737  
Jonathan Thatcher World Wide Packets

Comment Type E Comment Status A

Change sentence to something like:  
"Power sourcing equipment (PSE) is a DTE that provides power to the remote powered device (PD) via twisted pair cabling.  
The PSE's main functions are to detect a PD, supply...."

SuggestedRemedy

See comment

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Reworded due to comments 465, 73, 601, 644.

Cl 33 SC 33.2 P 18 L 3 # 601  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

Sentence is awkward with the existing punctuation.

SuggestedRemedy

Suggest that the comma in "(PSE) is just that, the equipment..." be replaced with a dash.  
Alternatively, the beginning of the sentence could be modified to something along the lines of:

"Power sourcing equipment, as the name implies, is the equipment that provides power..."

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2 P 18 L 3 # 465  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A

Change: "...provides the power to the twisted pair cabling."

SuggestedRemedy

To: "...provides the power to the link segment."  
for consistency & accuracy.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2 P 18 L 3 # 73  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

wrong punctuation

SuggestedRemedy

change the comma after the word 'that' to a colon.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2 P 18 L 4 # 644  
karam, roger cisco

Comment Type E Comment Status A

Search the Link for a PD, Detect a PD, Supply Power to the link

SuggestedRemedy

Search the Link for a PD, Detect a PD, Classify a PD (optional), Supply Power to the link

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2 P 18 L 5 # 396  
Darshan, Yair PowerDsine

Comment Type E Comment Status A

Detecting the PD class by PSE is not listed as one of the PSE functions

SuggestedRemedy

Add to the end of line 5 the following:  
".....remove power from the link and detect the PD class (optional)

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2 P 19 L 42 # 398  
Darshan, Yair PowerDsine

Comment Type E Comment Status A

A full stop is required after the words "..100BASE-TX systems" instead of comma.

SuggestedRemedy

Change from "...with .....100BASE-TX systems, 1000BASE-T is beyond.." to: "...with .....100BASE-TX systems. 1000BASE-T is beyond.."

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.1 P 18 L 14 # 553  
Grow, Robert M. Intel

Comment Type E Comment Status R Editorial Required

There is unnecessary redundancy in the clause. Pinout is common for both PSE and PD. It only needs to be described once.

## SuggestedRemedy

Create new subclause (e.g., 33.1.4). Move 33.2.1, and edit for both PD and PSE by merging in 33.3.1. Delete Table 33-6. Move 3rd paragraph of 33.3.1 to 33.3.

Proposed Response Response Status C

REJECT.  
We believe it is clearer to have completeness in PD and PSE as the design of each of these is likely to be separate

Cl 33 SC 33.2.1 P 18 L 16 # 550  
Grow, Robert M. Intel

Comment Type E Comment Status A

Specify a single device.

## SuggestedRemedy

"A PSE device..."

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.1 P 18 L 18 # 75  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing punctuation

## SuggestedRemedy

put a comma before and after the phrase "in conjunction with Table 1".

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.1 P 18 L 35 # 76  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing comma

## SuggestedRemedy

put a comma after '100BASE-TX'

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.1 P 18 L 35 # 36  
McCormack, Michael 3Com

Comment Type E Comment Status A

The postulate that 1000BASE-T is not polarity sensitive is not correct

## SuggestedRemedy

Change paragraph to 'For purposes of data transfer, the type of PSE data port is relevant to the far end PD and in some cases to the cabling system between them. Therefore, alternative A matches the positive voltage to the TD pair. Automatically configuring MDI/MDI-X PSEs are assigned the polarity choice associate with MDI-X configurations. Alternative B does not have such an association.'

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.1 P 18 L 37 # 175  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A

Typo on 'associate'.

## SuggestedRemedy

Change 'associate' to 'associated'

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.1 P 18 L 37 # 551  
Grow, Robert M. Intel

Comment Type E Comment Status A

Typo

## SuggestedRemedy

Chane "associate" to "associated".

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.1 P 18 L 37 # 602  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

Misspelled word.

## SuggestedRemedy

"associate" should be "associated".

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.1 P 18 L 37 # 500  
 Nadeau, Gerard UNH InterOperability L  
 Comment Type E Comment Status A  
 Missing "d" on the word associated. "...choice associate with...  
 SuggestedRemedy  
 change associate to associated  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.1 P 18 L 37 # 77  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing hyphen  
 SuggestedRemedy  
 since "automatically configuring" is an adjective describing the PSEs, i think it should be hyphenated (automatically-configuring).  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.1 P 18 L 37 # 277  
 Dawe, Piers Agilent  
 Comment Type E Comment Status A  
 not "associate"  
 SuggestedRemedy  
 associated  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.1 P 18 L 37 # 78  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 wrong tense of word  
 SuggestedRemedy  
 add a 'd' to the end of 'associate' to make it 'associated'.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.1 P 18 L 38 # 79  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 different word should be used  
 SuggestedRemedy  
 replace the word 'similar' with the word 'such'.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.1 P 18 L 41 # 501  
 Nadeau, Gerard UNH InterOperability L  
 Comment Type E Comment Status A  
 Unnecessary comma? ... B, or, both.  
 SuggestedRemedy  
 ...B, or both. Drop comma after the word "or".  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.1 P 18 L 41 # 80  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 extra comma in the sentence  
 SuggestedRemedy  
 remove the comma between the words 'or' and 'both'.  
 Proposed Response Response Status C  
 ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.1 P 18 L 41 # 603  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

Sentence allows "alternative A, or alternative B, or both", and appears to conflict with line 16 on the same page, which allows the use of only "one of two" connections (not both).

SuggestedRemedy

Delete the sentence entirely.

Move the text beginning on line 22 of page 19 here instead, since it more clearly defines the requirements: "The ordering of the alternatives ... on the same link simultaneously.)"

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Move sentence to p.19, l.22.

Cl 33 SC 33.2.1 P 18 L 43 # 37  
McCormack, Michael 3Com

Comment Type E Comment Status D

The note is to pessimistic.

SuggestedRemedy

Add the closing sentence 'This problem may be corrected with unconventional cabling.'

Proposed Response Response Status Z

Cl 33 SC 33.2.1 P 18 L 44 # 81  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing comma

SuggestedRemedy

insert a comma after the word 'communications' so it reads "...to data communications, but not with regard..."

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.1 P 18 L 48 # 552  
Grow, Robert M. Intel

Comment Type E Comment Status A

Paragraph has nothing to do with pin assignment.

SuggestedRemedy

Move to detailed specifications (e.g., 33.2.3)

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.1 P 18 L 48 # 38  
McCormack, Michael 3Com

Comment Type E Comment Status A

The value was changed to the proper limiting current value, but the old voltage based text was left in tact.

SuggestedRemedy

Stike 'unless active current balancing is implemented at the PSE.'

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.1 P 18 L 48 # 604  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

Lines 48 through 52 refer to voltage and current requirements, and don't seem to belong in a section titled "MDI pin assignments".

SuggestedRemedy

Move lines 48 to 52 to a more appropriate section, such as 33.2.8.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.1 P 18 L 48 # 447  
Paul Nikolich self

Comment Type E Comment Status A

Should "active current balancing" be defined somewhere in the specification? It should be since this particular requirement is conditional on its implementation, yet I couldn't find it.

"The current difference measured between two conductors of the same pair shall not differ by more than 6.13 mA at the PSE connector unless active current balancing is implemented by the PSE."

SuggestedRemedy

Define "active current balancing"

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.1 P 18 L 48 # 278  
Dawe, Piers Agilent

Comment Type E Comment Status A

Quantity broken over two lines:

6.13

mA

SuggestedRemedy

Use the nonbreaking space: try ctrl-shift-space. Also in 33.4.7 and 33.4.8.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.1 P 18 L 51 # 554  
Grow, Robert M. Intel

Comment Type E Comment Status A

Redundant text

SuggestedRemedy

Delete paragraph.

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Move offending text to 33.2.8 and reword to be a test condition.

Line 48 and 49, move to table 5. Strike "unless . . . PSE."

Cl 33 SC 33.2.1 P 18 L 51 # 39  
McCormack, Michael 3Com

Comment Type E Comment Status A

The requirement is untestable.

SuggestedRemedy

Change to "The DC voltage measured between any combination of conductors shall be as specified in section 33.2.8."

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.1 P 18 L 52 # 82  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
missing punctuation

SuggestedRemedy

put a period at the end of the last sentence on this page, after the words 'Section 33.2.8'.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.1 P 19 L 24 # 83  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
wrong punctuation mark

SuggestedRemedy

at the end of line 24, change the semi-colon to a comma.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.1 P 19 L 25 # 555  
Grow, Robert M. Intel

Comment Type E Comment Status A

Inappropriate use of plural.

SuggestedRemedy

Change to read: "however, a PSE ...".

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.10 P 27 L 12 # 297  
Dawe, Piers Agilent

Comment Type E Comment Status A  
"minimum current as defined in Table 12"

SuggestedRemedy  
Please add its symbol: I\_Port?

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.10 P 27 L 15 # 15  
Brown, Benjamin AMCC

Comment Type E Comment Status A  
[lines 15-16] Extra copy of a sentence

SuggestedRemedy  
Remove the last sentence of this subclause - a left over copy.

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.10 P 27 L 3 # 724  
Thaler, Pat Agilent Technologies

Comment Type E Comment Status A  
Either change this subclause to also cover other power removal situations such as overload or rename something like Underload power removal.

Also, should there be a time specified for a minimum time that power shall be removed once one of these problems is detected?

SuggestedRemedy  
[as proposed]

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

See resolution of comment 678.

Cl 33 SC 33.2.2 P 19 L 29 # 556  
Grow, Robert M. Intel

Comment Type E Comment Status A  
Inappropriate use of plural. Misc. capitalization and grammar problems.

SuggestedRemedy  
Change 1st paragraph to read "A PSE may be placed in one of two locations with respect to the link, either coincident with the data terminal equipment (DTE) or separated from the DTE. A PSE that is coincident with the DTE operation of the link is said to be an "endpoint PSE." A PSE which is not coincident with the DTE is said to be a "midspan PSE." The requirements of this document shall apply equally to endpoint and midspan PSE unless specifically targeted to only one implementation."

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.2 P 19 L 29 # 605  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A  
Sentence is awkward with the existing punctuation.

SuggestedRemedy  
Replace the comma in "to the link, either..." with a colon, and add a comma in "data terminal equipment, or separated" as shown.

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.2 P 19 L 30 # 467  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A  
thru line 33. Grammar, singular vs plural

PSEs that are coincident with the DTE operation of the link are said to be "Endpoint PSE." PSEs which are not coincident with the DTE are said to be "midspan PSE." The requirements of this document shall apply equally to endpoint and midspan PSE unless specifically targeted to only one implementation.

## SuggestedRemedy

PSEs that are coincident with the DTE operation of the link are said to be "Endpoint PSEs." PSEs which are not coincident with the DTE are said to be "midspan PSEs." The requirements of this document shall apply equally to endpoint and midspan PSEs unless specifically targeted to only one implementation.

-or-

A PSE that is coincident with the DTE operation of the link is said to be an "Endpoint PSE." A PSE that is not coincident with the DTE is said to be a "midspan PSE." The requirements of this document shall apply equally to endpoint and midspan PSEs unless specifically targeted to only one implementation.

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.2 P 19 L 31 # 84  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
punctuation in the wrong spot

## SuggestedRemedy

in both sets of quotes on line 31, move the period OUTSIDE of the quotation marks.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.2 P 19 L 35 # 703  
Thaler, Pat Agilent Technologies

Comment Type E Comment Status A  
A small wording change makes this note unnecessary.

## SuggestedRemedy

Change the 2nd and 3rd sentences in the paragraph above the note to "PSEs that are coincident with a DTE .... PSEs which are not coincident with a DTE ...."

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Using Geoff Thompson's wording.

See comment 450, which gives definition of mid-span.

Cl 33 SC 33.2.2 P 19 L 38 # 558  
Grow, Robert M. Intel

Comment Type E Comment Status A  
Grammar.

## SuggestedRemedy

Change to "An endpoint ... " twice.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.2 P 19 L 41 # 161  
Plunkett, Timothy R NSWCD

Comment Type E Comment Status A  
The last paragraph contains a comma splice.

## SuggestedRemedy

Either this should be divided into two separate sentences or the two parts should be separated by a word like "therefore".

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.2.2**      **P 19**      **L 41**      # **559**  
 Grow, Robert M.      Intel  
**Comment Type**    **E**      **Comment Status**    **A**  
 Grammar.  
**SuggestedRemedy**  
 Change to "A midspan ... " twice.  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT IN PRINCIPLE.  
 Also change "are" to "is".

**Cl 33**      **SC 33.2.2**      **P 19**      **L 42**      # **560**  
 Grow, Robert M.      Intel  
**Comment Type**    **E**      **Comment Status**    **R**      **Editorial Required**  
 If it is believed that it may be possible to midspan power 1000BASE-T, then the last phrase should be deleted. If it is believed that the specifications in this clause are incompatible with 1000BASE-T operation, then that should be stated.  
**SuggestedRemedy**  
 Either remove the last phrase, or replace with a new sentence: "Midspan power sourcing is incompatible with 1000BASE-T operation."  
**Proposed Response**      **Response Status**    **C**  
 REJECT.  
 Current specification is not sufficient to support 1000BASE-T in the mid-span and may not be interoperable with 1000BASE-T.  
 The Task Force considered this problem and felt that rapid completion of the standard was more important than the significant technical work to develop this feature.

**Cl 33**      **SC 33.2.2**      **P 19**      **L 42**      # **85**  
 Rasimas, Jennifer G.      Nortel Networks  
**Comment Type**    **E**      **Comment Status**    **A**  
 wrong punctuation  
**SuggestedRemedy**  
 change the comma after 'systems' to a semi-colon.  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.2.3**      **P 19**      **L 30**      # **606**  
 Brikovskis, Rhett      Lantern Communicatio  
**Comment Type**    **E**      **Comment Status**    **A**  
 Inconsistent references to plural power sourcing equipment as "PSE" and PSEs". Sentences on lines 30 and 31 refer to both (define some "PSEs" that are "endpoint PSE", etc).  
**SuggestedRemedy**  
 Pick one plural term and use it consistently. Also do a global search and replace when a plural form is selected.  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.2.3**      **P 19**      **L 46**      # **572**  
 Hinrichs, Henry      Pulse Inc.  
**Comment Type**    **E**      **Comment Status**    **A**  
 Sentence contains excess verbage.  
**SuggestedRemedy**  
 Remove sixth word, then sentence reads "The PSE shall not apply operating power ....."  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.2.3**      **P 19**      **L 46**      # **372**  
 Booth, Brad      Intel  
**Comment Type**    **E**      **Comment Status**    **A**  
 Remove "an" from sentence.  
**SuggestedRemedy**  
 Change to read "... shall not apply operating power..."  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.2.3**      **P 19**      **L 46**      # **607**  
 Brikovskis, Rhett      Lantern Communicatio  
**Comment Type**    **E**      **Comment Status**    **A**  
 Wrong words.  
**SuggestedRemedy**  
 "apply an operating power" should be "apply operating voltage" or "supply operating power".  
**Proposed Response**      **Response Status**    **C**  
 ACCEPT IN PRINCIPLE.



# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.2.3**      **P 19**      **L 49**      # **573**  
 Hinrichs, Henry      Pulse Inc.  
*Comment Type*    **E**      *Comment Status*    **A**  
     Incorrect article  
*SuggestedRemedy*  
     Sentence should read "The PSE is not required to probe the link in order to detect all PDs that present....."  
*Proposed Response*      *Response Status*    **C**  
     ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.2.3**      **P 19**      **L 49**      # **86**  
 Rasimas, Jennifer G.      Nortel Networks  
*Comment Type*    **E**      *Comment Status*    **A**  
     phrase doesn't sound correct  
*SuggestedRemedy*  
     change "...all PDs which present..." to "...a PD which presents..."  
*Proposed Response*      *Response Status*    **C**  
     ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.2.3**      **P 19**      **L 49**      # **468**  
 Thompson, Geoffrey O.      Nortel  
*Comment Type*    **E**      *Comment Status*    **A**      *Editorial Required*  
     The following text is confusing:  
     The PSE is not required to probe the link in order to detect all PDs which present a valid signature. For any number of reasons the PSE may not be attempting to detect PDs for a period of time. This period of time is indeterminate. Also, a PSE may attempt to detect PDs but may not then power the PDs detected.  
*SuggestedRemedy*  
     Perhaps the following would be clearer:  
     A PSE is not required to probe the link segment. Because of configuration or other reasons, a PSE may not attempt to detect a connected PD for a period of time. This period of time is indeterminate. Also, a PSE may attempt to detect a connected PD but may not then power the detected PD.  
*Proposed Response*      *Response Status*    **C**  
     ACCEPT.

**Cl 33**      **SC 33.2.3**      **P 19**      **L 50**      # **561**  
 Grow, Robert M.      Intel  
*Comment Type*    **E**      *Comment Status*    **A**  
     Inappropriate use of plural. For example, the last usage implies multiple PDs on the link.  
*SuggestedRemedy*  
     Change three instances of "PDs" to "a PD". (Usage of plural is correct in line 49.)  
*Proposed Response*      *Response Status*    **C**  
     ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.2.3**      **P 19**      **L 50**      # **705**  
 Thaler, Pat      Agilent Technologies  
*Comment Type*    **E**      *Comment Status*    **A**  
     For a given implementation, the period is not necessarily indeterminate, but the standard is not stating a requirement for the period.  
*SuggestedRemedy*  
     "This period of time is implementation dependent."  
*Proposed Response*      *Response Status*    **C**  
     ACCEPT.

**Cl 33**      **SC 33.2.3**      **P 19**      **L 51**      # **608**  
 Brikovskis, Rhett      Lantern Communicatio  
*Comment Type*    **E**      *Comment Status*    **A**  
     Intent of the sentence isn't clear:  
  
     "Also, a PSE may attempt to detect PDs but may not then power the PDs detected."  
  
     Does this imply that a PD may be successfully detected (not attempted) but then may not be powered, or that a PSE may attempt to detect PDs (which fails) and then does not power the PDs.  
*SuggestedRemedy*  
     Intent of the sentence appears to be more concisely conveyed by:  
  
     "Also, a PSE may successfully detect PDs but may not then power the PDs detected."  
*Proposed Response*      *Response Status*    **C**  
     ACCEPT IN PRINCIPLE.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.2.3**      **P 19**      **L 51**      # **574**  
Hinrichs, Henry      Pulse Inc.  
**Comment Type**    **E**      **Comment Status**    **A**  
Improper sentence structure  
**SuggestedRemedy**  
Sentence should read "Also a PSE may attempt to detect PDs but then may not power the PDs detected."  
**Proposed Response**      **Response Status**    **C**  
ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.2.3**      **P 19**      **L 51**      # **1**  
Jackson, Stephen S.      Hatteras Networks  
**Comment Type**    **E**      **Comment Status**    **A**  
... attempt to detect PDs but may not then power ...  
**SuggestedRemedy**  
change to:  
... attempt to detect PDs, but then may not power ...  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.2.3**      **P 20**      **L 1**      # **645**  
karam, roger      cisco  
**Comment Type**    **E**      **Comment Status**    **A**  
PD detection Shall Operate without regard to Data Link Status contradicts page 21 Note on Line 40,41  
**SuggestedRemedy**  
PD detection may operate if the Link is up  
**Proposed Response**      **Response Status**    **C**  
ACCEPT IN PRINCIPLE.  
Will reword page 20, line 1, to be a test condition.

**Cl 33**      **SC 33.2.3**      **P 20**      **L 2**      # **575**  
Hinrichs, Henry      Pulse Inc.  
**Comment Type**    **E**      **Comment Status**    **A**  
Incorrect article usage  
**SuggestedRemedy**  
Sentence should read "..... or may be requested by a PD that is not yet operational."  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.2.4**      **P 20**      **L 11**      # **176**  
Turner, Ed      Lattice Semiconductor  
**Comment Type**    **E**      **Comment Status**    **A**  
Figure 33.5.  
'>70K' and '2.8 to 10 Volts' are not IEEE standard format.  
**SuggestedRemedy**  
Change '>70K' to '>70 K<omega\_symbol>'.  
Change '2.8 to 10 Volts' to '2.8-10 V'.  
Include a space between the number and the symbol.  
See IEEE style guide section 14.1.  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.2.4**      **P 20**      **L 11**      # **40**  
McCormack, Michael      3Com  
**Comment Type**    **E**      **Comment Status**    **A**  
While the box to represent the source impedance may be politically correct, I prefer the saw tooth pattern we used to use for resistive elements. 802.3 traditionally uses the saw tooth graphic, IEEE std 315 allows either.  
**SuggestedRemedy**  
Change the graphic of the Zsource in Figures 33.5 and 33.6 to saw tooth patterns.  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.4 P 20 L 27 # 609  
 Brikovskis, Rhett Lantern Communicatio  
 Comment Type E Comment Status A  
 Doesn't appear appropriate to call the two circuits "equivalent", since they aren't.  
 SuggestedRemedy  
 Either change "alternative equivalent" to "alternative version" or "functional equivalent".  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.4 P 20 L 28 # 373  
 Booth, Brad Intel  
 Comment Type E Comment Status A  
 Change colon to a period.  
 SuggestedRemedy  
 [as proposed]  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.4 P 20 L 28 # 87  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing comma  
 SuggestedRemedy  
 insert a comma after the word 'quadrant'  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.4 P 20 L 49 # 177  
 Turner, Ed Lattice Semiconductor  
 Comment Type E Comment Status A  
 'volts' is spelt out as a word. This is not IEEE standard format.  
 SuggestedRemedy  
 Change '30 volts' to '30 V'.  
 This also occurs in many places elsewhere in the document. Rather than submit a comment for each instance, perform a global search and replace to fix it everywhere.  
 Also ensure that a space is inserted between the number and the unit symbol.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.4 P 20 L 49 # 343  
 Naganuma, Ken Toko America Inc.  
 Comment Type E Comment Status A  
 Wrong unit : 5ma  
 SuggestedRemedy  
 5mA  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.4 P 20 L 49 # 178  
 Turner, Ed Lattice Semiconductor  
 Comment Type E Comment Status A  
 '5ma' does not have a capital 'a' and there is no space between the '5' and the 'ma'.  
 SuggestedRemedy  
 Replace '5ma' with '5 mA'.  
 This also occurs in many places elsewhere in the document for other occurrences of 'ma'.  
 Rather than submit a comment for each instance, perform a global search and replace to fix it everywhere. Take care to check each replace so as not to accidentally change 'ma' within a word to 'mA'.

Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.4 P 20 L 49 # 612  
 Brikovskis, Rhett Lantern Communicatio  
 Comment Type E Comment Status A  
 The "A" in mA needs to be capitalized.  
 SuggestedRemedy  
 Capitalize it.  
 Proposed Response Response Status C  
 ACCEPT.

# P802.3af Draft 3.0 Comments

CI 33 SC 33.2.4 P 20 L 50 # 706  
Thaler, Pat Agilent Technologies

Comment Type E Comment Status A

It is the behavior of the circuit rather than the circuit which is exhibited.

## SuggestedRemedy

Replace with "The PSE shall exhibit the behavior of either the circuit in Figure 33.5 or the circuit Figure 33.6 in all detection states."

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

See comment

CI 33 SC 33.2.4 P 20 L 50 # 88  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing punctuation

## SuggestedRemedy

insert a comma before the phrase "Figure 33.5 or Figure 33.6" and another comma after that same phrase.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

CI 33 SC 33.2.4 P 20 L 50 # 179  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A

No space between '500' and 'nF'.

## SuggestedRemedy

Replace '500nF' with '500 nF'.  
This also occurs in many places elsewhere in the document. Rather than submit a comment for each instance, perform a global search and replace to fix it everywhere.

Proposed Response Response Status C

ACCEPT.

CI 33 SC 33.2.4 P 20 L 50 # 610  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

Text is awkward--requires PSE to "exhibit one of the detection circuits..."

## SuggestedRemedy

Change text to read "The PSE detection circuit shall exhibit Thevenin equivalence to one of the detection circuits shown in Figure 33.5 or Figure 33.6 in all detection states."

Proposed Response Response Status C

ACCEPT.

CI 33 SC 33.2.4 P 20 L 50 # 375  
Booth, Brad Intel

Comment Type E Comment Status A

Last sentence of the paragraph is hard to understand.

## SuggestedRemedy

Change to read "The PSE shall exhibit the properties of one of the detection circuits, see Figure 33-5 or Figure 33-6, in all detection states."

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

CI 33 SC 33.2.4 P 20 L 7 # 740  
Jonathan Thatcher World Wide Packets

Comment Type E Comment Status A

Change "probing via" to "sampling"

## SuggestedRemedy

See comment

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Say "probing and sampling"

CI 33 SC 33.2.4.1 P 21 L 3 # 611  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

What voltage is 2.8 to 10 volts?

## SuggestedRemedy

Replace "voltage" with "port voltage" or otherwise clarify where the specified voltage is measured (particularly since it carries a "shall" and will need a PICS entry").

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.4.1 P 21 L 7 # 614  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

What voltage rise and fall times are controlled--Vdetect or Vport?

## SuggestedRemedy

Clarify where the voltage rise and fall times are specified and measured.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.4.1 P 21 L 7 # 517  
Grow, Robert M. Intel

Comment Type E Comment Status A

Awkward sentence. Improper units abbreviation.

## SuggestedRemedy

Replace with: "The PSE shall control the rise and fall time to be greater than 10 ms when switching between detection voltages."

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.4.1 P 21 L 7 # 89  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing punctuation

## SuggestedRemedy

insert commas around (before and after) the phrase "when switching between detection voltages".

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.4.1 P 21 L 8 # 469  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A

Capitalization error, micro seconds should be mu, lower case s

## SuggestedRemedy

[as proposed]

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.4.1 P 21 L 8 # 613  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

The "s" in ms needs to be lower-case.

## SuggestedRemedy

Make it lower-case.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.5 P 21 L 12 # 615  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

Sentence refers to "the following criteria", but none is listed immediately following the sentence. Does it refer to section 33.2.5.1, all of 33.2.5, or something else?

## SuggestedRemedy

Delete the sentence, since sections 33.2.5.1 and 33.2.5.3 already list all of the criteria.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.5 P 21 L 12 # 90  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

wrong punctuation

## SuggestedRemedy

change the period at the end of the sentence to a colon.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.5.1 P 21 L 16 # 470  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A

[assume comment type "approve (editorial)]

Please rephrase: "The PSE shall probe the link in order to detect all PDs which present a valid signature. A PSE must detect links with all the following characteristics:"  
1) "all PDs" implies that you can have more than one connected. This is supposed to be a point-to-point link. It is treated as such. If there are multiple PDs in a daisy-chain or similar they are probed as one.  
2) "Link" should be link segment.

SuggestedRemedy

"The PSE shall probe the link segment in order to detect the presence of a connected PD that presents a valid signature. A PSE must detect a connection with all the following characteristics:"

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.5.1 P 21 L 17 # 91  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing a word, which makes the sentence read better

SuggestedRemedy

make "all the following" now say "all of the following".

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.5.1 P 21 L 19 # 181  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A

'19K to 26.5K <omega> DC' is not IEEE standard format.

SuggestedRemedy

Change '19K to 26.5K <omega> DC' to '19-26.5 K<omega>dc'.  
This also occurs in many places elsewhere in the document. Rather than submit a comment for each instance, perform a global search and replace to fix it everywhere.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.5.1 P 21 L 20 # 92  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

the word 'and' is on the wrong line sine we added a new criterium.

SuggestedRemedy

take the 'and' off of line 20 (leave the comma there) and put the 'and' at the end of line 21.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.5.1 P 21 L 20 # 376  
Booth, Brad Intel

Comment Type E Comment Status A

Need to move the "and".

SuggestedRemedy

Move "and" from the end of bullet b) to the end of bullet c).

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.5.1 P 21 L 20 # 318  
Dawe, Piers Agilent

Comment Type E Comment Status A

"and" in wrong place

SuggestedRemedy

b) ... ,  
c) ... , and

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.5.1 P 21 L 22 # 93  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing punctuation

SuggestedRemedy

put a period at the end of line 22.

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.5.2 P 21 L 26 # 94  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing punctuation  
 SuggestedRemedy  
 put a comma before and after the phrase ""as invalid"".  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.5.3 P 21 L 36 # 379  
 Booth, Brad Intel  
 Comment Type E Comment Status A  
 Bullets are incorrectly labeled.  
 SuggestedRemedy  
 Change from d), e), f) to a), b), c).  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.5.3 P 21 L 36 # 521  
 Grow, Robert M. Intel  
 Comment Type E Comment Status A  
 Lettered list is wrong.  
 SuggestedRemedy  
 Item d) needs to be an a).  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.5.3 P 21 L 36 # 344  
 Naganuma, Ken Toko America Inc.  
 Comment Type E Comment Status A  
 Wrong unit : 500 ms  
 SuggestedRemedy  
 500mS  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.5.3 P 21 L 36 # 95  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 incorrect letters used for list  
 SuggestedRemedy  
 d) e) and f) should be a) b) and c)  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.5.3 P 21 L 37 # 345  
 Naganuma, Ken Toko America Inc.  
 Comment Type E Comment Status A  
 Wrong unit : 400ms  
 SuggestedRemedy  
 400mS  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.5.3 P 21 L 37 # 96  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing punctuation  
 SuggestedRemedy  
 put commas before and after the phrase "after a valid detection"  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.2.5.3 P 21 L 38 # 619  
 Brikovskis, Rhett Lantern Communicatio  
 Comment Type E Comment Status A  
 Item "f)" in the list does not belong in a section on "Timing Criteria".  
 SuggestedRemedy  
 Move this item to 33.2.8, or to a unique section.  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.5.3 P 21 L 40 # 358  
Goldis, Moty Avaya

Comment Type E Comment Status R

The note there , stated that the PSE does not require to inspect the link for a valid PD.

After the last change (in Nov )with the link option ,it is not accurate.

SuggestedRemedy

Delete the first sentence of the note

Proposed Response Response Status C

REJECT.

Cl 33 SC 33.2.5.3 P 36 L 36 # 618  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

List begins with "d)", not "a)".

SuggestedRemedy

Correct the list numbering.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.6 P 21 L 43 # 98  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

capitalization issue

SuggestedRemedy

suggest capitalizing the word "Class" in this heading, as it is capitalized throughout the document.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.6 P 21 L 45 # 502  
Nadeau, Gerard UNH InterOperability L

Comment Type E Comment Status A

Unnecessary comma "...information, ..."

SuggestedRemedy

Remove comma

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Remove clause: "..., and PDs may provide information, "

Cl 33 SC 33.2.6 P 21 L 45 # 97  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

wording of sentence "If the PSE does not classify PDs it must classify all PDs as Class 0." sounds strange.

SuggestedRemedy

remove entire sentence and replace with "If the PSE is not capable of classifying PDs, it must assign all PDs to class 0."

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.6 P 21 L 46 # 381  
Booth, Brad Intel

Comment Type E Comment Status A

Missing a comma.

SuggestedRemedy

Last sentence of first paragraph needs a comma after the first "PDs".

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.6 P 21 L 46 # 621  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

Text "If the PSE does not classify PDs it must classify all PDs..." is self-contradictory.

SuggestedRemedy

Change text to "If the PSE does not classify PDs it must treat all PDs..."

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.



# P802.3af Draft 3.0 Comments

*Cl* **33**      *SC* **33.2.6**      *P* **21**      *L* **46**      # **442**  
Brown, Kevin C.      Broadcom

*Comment Type*    **E**      *Comment Status*    **A**      *Editorial Required*

The following sentence is self-contradictory:

"If the PSE does not classify PDs it must classify all PDs a Class 0."

## SuggestedRemedy

If a PSE successfully completes Class 0 detection of PD, and the PSE does not classify the PD in Classes 1, 2, 3, or 4, then the PSE shall classify the PD in Class 0.

*Proposed Response*      *Response Status*    **C**

ACCEPT IN PRINCIPLE.

If a PSE successfully completes detection of a PD, and the PSE does not classify the PD into Class 1, 2, 3, or 4, then the PSE shall classify the PD as Class 0.

*Cl* **33**      *SC* **33.2.6**      *P* **21**      *L* **46**      # **162**  
Plunkett, Timothy R      NSWCCD

*Comment Type*    **E**      *Comment Status*    **A**

Last line of first paragraph needs a comma after the phrase "If the PSE does not classify PDs".

## SuggestedRemedy

add the above comma

*Proposed Response*      *Response Status*    **C**

ACCEPT.

*Cl* **33**      *SC* **33.2.6**      *P* **21**      *L* **48**      # **620**  
Brikovskis, Rhett      Lantern Communicatio

*Comment Type*    **E**      *Comment Status*    **A**

Missing "s".

## SuggestedRemedy

"PD" should be "PDs".

*Proposed Response*      *Response Status*    **C**

ACCEPT IN PRINCIPLE.

*Cl* **33**      *SC* **33.2.6**      *P* **21**      *L* **50**      # **402**  
Darshan, Yair      PowerDsine

*Comment Type*    **E**      *Comment Status*    **A**

I have got comments that using "class 0 detection" is confusing.

## SuggestedRemedy

To use "detection" word for detection only and "classification" word for classification only. Thus the words "Class 0" in line 50 should be deleted.

*Proposed Response*      *Response Status*    **C**

ACCEPT IN PRINCIPLE.

*Cl* **33**      *SC* **33.2.6**      *P* **21**      *L* **53**      # **99**  
Rasimas, Jennifer G.      Nortel Networks

*Comment Type*    **E**      *Comment Status*    **A**

punctuation missing

## SuggestedRemedy

put a comma after the phrase "...by either applying voltage and measuring current" so it reads "...by either applying voltage and measuring current, or by applying current and measuring voltage."

*Proposed Response*      *Response Status*    **C**

ACCEPT.

*Cl* **33**      *SC* **33.2.6.1**      *P* **22**      *L* **1**      # **523**  
Grow, Robert M.      Intel

*Comment Type*    **E**      *Comment Status*    **R**      *Editorial Required*

Table 2 belongs in introductory material.

## SuggestedRemedy

Move to previously proposed common section (PSE and PD common concepts) with appropriate edits. Extract relevant material from 33.3.3 for the common section and delete Table 9.

*Proposed Response*      *Response Status*    **C**

REJECT.

The consensus of the committee is that the purposes are better served by separate and distinct sections because implementers are typically concerned with one or the other.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.6.1 P 22 L 12 # 647  
karam, roger cisco

Comment Type E Comment Status A  
in Table 2  
we list 15W for class 0 under the maximum power Levels at the output of the PSE

SuggestedRemedy  
changed the number to 15.4 in TABLE 2

Proposed Response Response Status C  
ACCEPT.

Also for line 17.

Cl 33 SC 33.2.6.1 P 22 L 16 # 346  
Naganuma, Ken Toko America Inc.

Comment Type E Comment Status A  
Keep consistency : 3.84 to 6.49

SuggestedRemedy  
3.84 - 6.49

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.6.1 P 22 L 18 # 347  
Naganuma, Ken Toko America Inc.

Comment Type E Comment Status A  
Keep consistency : 6.49 to 12.95

SuggestedRemedy  
6.49 - 12.95

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.6.1 P 22 L 3 # 472  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A  
[assume comment type "approve (editorial)"]  
Change:  
"The possible classifications that can be determined are listed in Table 2."  
To:...

SuggestedRemedy  
"The classifications are listed in Table 2."

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.6.1 P 22 L 9 # 403  
Darshan, Yair PowerDsine

Comment Type E Comment Status A  
[Table 2] The title of the right column should be "Max Power levels at input of PD"

SuggestedRemedy  
Change the title of the right column of table -2 from:  
"Power levels at input of PD"  
to: "Max Power levels at input of PD"

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.6.2 P 22 L 29 # 710  
Thaler, Pat Agilent Technologies

Comment Type E Comment Status A  
Please clarify. Is this voltage still applied through the detection circuit of 33.2.4?

SuggestedRemedy  
[as proposed]

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

No.

A. We need a statement regarding the PSE classification circuit in 33.2.6.

B. We need the concept of powering pairs in section 33.2.1.

C. We need to carry the concept of powering pairs forward.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.6.2 P 22 L 34 # 635  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A  
The formats used in tables 10 & 11 are much easier to read than those used in tables 3 & 4.

SuggestedRemedy  
Change table format to that used in tables 10 and 11.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.6.2 P 22 L 36 # 182  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A  
Table 3.  
'8 ma to 13 ma' is not IEEE standard format.

SuggestedRemedy  
Replace '8 ma to 13 ma' with '8-13 mA'  
This also occurs in many places elsewhere in the document. Rather than submit a comment for each instance, perform a global search and replace to fix it everywhere.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.6.2 P 22 L 37 # 348  
Naganuma, Ken Toko America Inc.

Comment Type E Comment Status A  
Wrong unit :5ma 8ma 13ma 25ma 31ma 35ma 43ma 47ma 100ma

SuggestedRemedy  
5mA 8mA 13mA 25mA 31mA 35mA 43mA 47mA 100mA

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.6.3 P 23 L 10 # 524  
Grow, Robert M. Intel

Comment Type E Comment Status A  
Table is not in IEEE format.

SuggestedRemedy  
Fix column widths. The third row should be the heading and the two classifications techniques being the subordinate rows.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.6.3 P 23 L 11 # 349  
Naganuma, Ken Toko America Inc.

Comment Type E Comment Status A  
Wrong unit : 8ma 16ma 16ma 25ma 25ma 35ma 35ma 47ma 47ma

SuggestedRemedy  
8mA 16mA 16mA 25mA 25mA 35mA 35mA 47mA 47mA

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.2.7 P 23 L 26 # 46  
McCormack, Michael 3Com

Comment Type E Comment Status A  
Ton\_nominal should be defined in a table

SuggestedRemedy  
Move the 1 second value to a new line in Table 5

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.7 P 23 L 32 # 383  
Booth, Brad Intel

Comment Type E Comment Status A  
Add to last sentence a note about beyond the scope.

SuggestedRemedy  
Change the last sentence to read "... these other modes, and is considering beyond the scope of this specification."

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.7.1 P 23 L 28 # 281  
Dawe, Piers Agilent

Comment Type E Comment Status A Editorial Required  
PD is not attached to one of the PSE's ports. It's somewhere else.

SuggestedRemedy  
connected

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.7.1 P 23 L 36 # 47  
McCormack, Michael 3Com

Comment Type E Comment Status A

The paragraph form of the backoff requirement is tough to read.

## SuggestedRemedy

Suggest defining a new term, Tbackoff which should be defined in Table 5 and rewrite the paragraph to reference the new term.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.7.1 P 23 L 37 # 713  
Thaler, Pat Agilent Technologies

Comment Type E Comment Status R

Isn't the alternative A PSE testing across the 12 and 36 pair while the alternative B PSE is testing across the 45 and 78 pairs? Why do they interfere?

## SuggestedRemedy

[as proposed]

Proposed Response Response Status C

REJECT.

We can envision an implementation where they do interfere, and we expect this to be a common implementation, i.e., a single signature circuit provided via diode bridges to both sets of powering pairs.

Cl 33 SC 33.2.7.1 P 23 L 42 # 503  
Nadeau, Gerard UNH InterOperability L

Comment Type E Comment Status A

Confusing text "...the PSE shall delay no less than 2 seconds.... You are telling them to wait so why not say just that.

the PSE shall wait at least 2 seconds...

## SuggestedRemedy

Suggest replacing "During this delay,...." with "During this wait,..." or "During this hold,..." or "During this pause,..." Line 43-44 on you use the text "During this detection backoff,..."

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.7.1 P 23 L 43 # 100  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

wrong tense of word

## SuggestedRemedy

volt should be singular, not plural since there is only one volt. remove the 's' from the end of 'volts'.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.7.1 P 23 L 47 # 504  
Nadeau, Gerard UNH InterOperability L

Comment Type E Comment Status A

Can use simpler text.

## SuggestedRemedy

replace "...for the..." with "...a..."

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.7.1 P 23 L 50 # 505  
Nadeau, Gerard UNH InterOperability L

Comment Type E Comment Status A

Is there really only one timing requirement in 33.2.7? What do they say "six in one, half a dozen in the other."

## SuggestedRemedy

Possibly replace "requirement" with "requirements". I shall defer to our esteemed editor on this one.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.8 P 24 L # 718  
Thaler, Pat Agilent Technologies

Comment Type E Comment Status A

The purpose of a table is not well served by having such long notes which spread the table out to multiple pages. The table becomes harder to use and the notes are cryptic.

## SuggestedRemedy

Move the information in the long notes into subclauses of 2.8 and just put a reference in the table.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Reword notes and move to end of table, and shorten mnemonics.  
But the comments will remain in the table.

Cl 33 SC 33.2.8 P 24 L 15 # 14  
Brown, Benjamin AMCC

Comment Type E Comment Status A

Extra number

## SuggestedRemedy

Replace "3.5V/1uS" with "3.5V/uS"

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.8 P 24 L 17 # 350  
Naganuma, Ken Toko America Inc.

Comment Type E Comment Status A

Keep consistency : Ohms

## SuggestedRemedy

[ohm symbol]

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.8 P 24 L 3 # 626  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

Multiple "shall" statements (ie, multiple PICS) for the same requirements.

## SuggestedRemedy

Delete one of the "shalls", for example:

"The PSE shall provide power to the MDI conforming to the requirements of Table 5".

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.8 P 24 L 3 # 284  
Dawe, Piers Agilent

Comment Type E Comment Status A Editorial Required

"to the MDI which shall conform to the specification of Table 5 ". Table 5 does not relate to the MDI. Period at end of sentence is missing.

## SuggestedRemedy

"to the MDI according to Table 33-5." or "to the MDI in conformance with Table 33-5".

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

in conformance

Cl 33 SC 33.2.8 P 24 L 38 # 527  
Grow, Robert M. Intel

Comment Type E Comment Status A

Fix the style for splitting the table over multiple pages.

## SuggestedRemedy

Add border line at bottom of columns. Remove the indent on the Notes lettered lists (e.g., item 4) to reduce table length.

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.8 P 24 L 8 # 282  
Dawe, Piers Agilent

Comment Type E Comment Status A

"Min. Max " . or not?

SuggestedRemedy

No dot seems more common: "Min Max "

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.8 P 24 L 8 # 283  
Dawe, Piers Agilent

Comment Type E Comment Status A

This table is important and runs over three pages which makes it hard to follow. Most entries are identified by "Item" and by symbol. the "Item" column could be dispensed with to make the table easier to follow.

SuggestedRemedy

Delete the column "Item" (there are no calls from the text to items in this table).  
Label the untitled column "Symbol".  
Following other clauses, it is more usual to have a column "Units" (rather than "Unit") to the right of the numerical limits.  
Make the "Notes" column considerably wider. Use a consistent font size in it.  
Fix up the Frame template so that continuation headers show as  
"Table 33-5—PSE output requirements (continued)" or similar.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.8 P 24 L 8 # 627  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A

Table doesn't have lower border, and table titles on all three pages are identical.

SuggestedRemedy

Add lower border, and retitle table according to IEEE style guide (not sure whether IEEE uses Table 5a, 5b, 5c, or Table 5, Table 5 continued, etc).

Applies to table 12 as well.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.8 P 25 L 14 # 410  
Darshan, Yair PowerDsine

Comment Type E Comment Status A

[Table 5] Item 4 comment b) line 14 refers to the PSE output. The word input should be changed to output

SuggestedRemedy

The word "input" at line 14 should be changed to "output"

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.8 P 25 L 14 # 101  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

wrong word used

SuggestedRemedy

change 'input' to 'output'

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.8 P 25 L 17 # 286  
Dawe, Piers Agilent

Comment Type E Comment Status A

ac

Editorial Required

SuggestedRemedy

AC

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.2.8 P 25 L 27 # 351  
Naganuma, Ken Toko America Inc.

Comment Type E Comment Status A

Wrong unit : 50ms

SuggestedRemedy

50mS

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

CI 33 SC 33.2.8 P 25 L 5 # 285  
Dawe, Piers Agilent

Comment Type E Comment Status A  
"4 Output current- Normal Powering Mode..."  
"5 Output current startup mode"

## SuggestedRemedy

"4 Output current in normal powering mode..."  
"5 Output current in startup mode"  
Similarly in Table 33-12.

Proposed Response Response Status C  
ACCEPT.

CI 33 SC 33.2.8 P 25 L 5 # 183  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A  
Table 5.  
'mADC' is not the usual format.

## SuggestedRemedy

Replace 'mADC' with 'mAdc'.  
See Clause 8.3.2.1 for example.

Proposed Response Response Status C  
ACCEPT.

CI 33 SC 33.2.8 P 26 L 10 # 629  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A  
Several errors in "units" column of table:  
  
Line 10, 19, 27, 30, 32--"mS" should be "ms"

## SuggestedRemedy

Correct table

Proposed Response Response Status C  
ACCEPT.

CI 33 SC 33.2.8 P 26 L 14 # 413  
Darshan, Yair PowerDsine

Comment Type E Comment Status A  
[Table 5] The comment for item 7 is not clear enough due to comments received.  
Change line 14 as recommended below.

## SuggestedRemedy

Change line 14 from: "remove power within 400ms"  
to "remove power within TPMDO1.  
TPMDO1 =100ms max.  
TPMDO1+ TPMDO = 400ms max."

Proposed Response Response Status C  
ACCEPT.

CI 33 SC 33.2.8 P 26 L 19 # 352  
Naganuma, Ken Toko America Inc.

Comment Type E Comment Status A  
Wrong unit : 50ms<Tovld<70ms

## SuggestedRemedy

50mS<Tovld<70mS

Proposed Response Response Status C  
ACCEPT.

CI 33 SC 33.2.8 P 26 L 20 # 414  
Darshan, Yair PowerDsine

Comment Type E Comment Status A  
[Table 5] At overload condition the port must disconnected from power.

## SuggestedRemedy

Change from "may" to "shall"

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.2.8**      **P 26**      **L 22**      # **415**  
 Darshan, Yair      PowerDsine

**Comment Type E**      **Comment Status A**

[Table 5] Items 10,11:

I got a comment that it is better English to change from "short load condition" to "short circuit"

## SuggestedRemedy

Change item 10 at PARAMETER column line 22:  
 from "Output current - at short load condition"  
 to "Output current - at short circuit condition"

Change Item 10 at NOTES column line 23:  
 from "short load condition..."  
 to "short circuit condition.."

Change item 11 at PARAMETER column line 27:  
 from "Short load duration"  
 to "Short circuit duration"

Change item 11 at NOTES column line 27:  
 from "If Fault condition ...."  
 to " If short circuit condition...."

**Proposed Response**      **Response Status C**  
 ACCEPT.

**Cl 33**      **SC 33.2.8**      **P 26**      **L 23**      # **288**  
 Dawe, Piers      Agilent

**Comment Type E**      **Comment Status A**

line 23 must  
 line 28 will

## SuggestedRemedy

shall?

**Proposed Response**      **Response Status C**  
 ACCEPT.

**Cl 33**      **SC 33.2.8**      **P 26**      **L 38**      # **630**  
 Brikovskis, Rhett      Lantern Communicatio

**Comment Type E**      **Comment Status R**

Text states that PSE "shall" comply with "local and national codes" for safety. Doesn't the standard need to include references for these local and national codes if this is a requirement?

## SuggestedRemedy

Change "the PSE shall" to "It is recommended that the PSE should"

**Proposed Response**      **Response Status C**  
 REJECT.

**Cl 33**      **SC 33.2.8**      **P 26**      **L 45**      # **528**  
 Grow, Robert M.      Intel

**Comment Type E**      **Comment Status A**

Grammar

## SuggestedRemedy

Change to read: "The power allocation algorithm shall not provide power to a link..."

**Proposed Response**      **Response Status C**  
 ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.2.8**      **P 32**      **L 3**      # **302**  
 Dawe, Piers      Agilent

**Comment Type E**      **Comment Status A**

This table is important and runs over three pages which makes it hard to follow. Most entries are identified by "Item" and by symbol. the "Item" column could be dispensed with to make the table easier to follow.

## SuggestedRemedy

Delete the column "Item". Use symbols e.g. I\_Port at p31 line 35 and p32 line 16.  
 Label the untitled column "Symbol".

Following other clauses, it is more usual to have a column "Units" (rather than "Unit") to the right of the numerical limits.

Make the "Notes" column considerably wider. Use a consistent font size in it.

Fix up the Frame template so that continuation headers show as  
 "Table 33-12—PD power supply limits (continued)" or similar.

**Proposed Response**      **Response Status C**  
 ACCEPT.

Will make best effort to achieve this.



# P802.3af Draft 3.0 Comments

Cl 33 SC 33.2.9 P 26 L 42 # 48  
McCormack, Michael 3Com

Comment Type E Comment Status A

The allocation section is tough to read.

## SuggestedRemedy

The editor should use his license to rewrite without changing technical requirements.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.9 P 26 L 43 # 454  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A Editorial Required

This sentence makes no sense. The draft is written as a single link segment document that hooks only one PSE to only one PD. Hooking to multiple devices is beyond the scope. Does "all the devices" mean "all the classes of device" or does it mean "the loads that could be attached to a PSE that shares its power supply with other PSEs".

## SuggestedRemedy

Change: "all the devices"

To: "all the classes of powered device"

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Strike first sentence of first paragraph of 33.2.9 and replace with the following:

In equipment that implement multiple PSEs,  
it may be desirable to implement a common power source  
for all PSEs. In such a case the power source may not be capable of supplying the  
requested power to all connected PDs simultaneously.

Cl 33 SC 33.2.9 P 26 L 43 # 576  
Hinrichs, Henry Pulse Inc.

Comment Type E Comment Status A

Incorrect article usage.

## SuggestedRemedy

Sentence should read "It may be desirable to implement a PSE that does not contain....."

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.2.9 P 26 L 43 # 473  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A Editorial Required

Needs work. I think this is just about classes and not about multiport but it isn't clear.

## SuggestedRemedy

Perhaps:

It may be desirable to implement a PSE which does not contain a power supply capable of supplying maximum power to any class of device that could possibly connect to it. In such a case...

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

See comment 454

Cl 33 SC 33.3 P 28 L 12 # 102  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing comma

## SuggestedRemedy

add a comma after the word 'PD', before the word 'unless'.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.3 P 28 L 9 # 508  
Nadeau, Gerard UNH InterOperability L

Comment Type E Comment Status A

Don't start sentence with "PD is specified..."

## SuggestedRemedy

Use either

A PD is specified... or

PDs are specified... or

The PD is specified...

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3 P 33 L 46 # 427  
Darshan, Yair PowerDsine

Comment Type E Comment Status A

[Table 12] It is recommended to add few clarifications to the notes of item 5-b regarding the max inrush current parameter and the min current requirement during startup mode.

## SuggestedRemedy

Lines 46-52:

Add the underlined words to the current wording:

a) linrush is limited by the PSE for a `duration of 50ms if Cport < 180uF as specified in table 5 item5.

b) linrush must be limited by the PD if Cport > 180uF to the max limit as specified.

c) 10mA minimum current must be maintained when measured when the PD is fed by 44V to 57V source with 20 Ohm in series. "

In addition, Line 46 column "Min." fill with 10mA value.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.1 P 28 L 17 # 51  
McCormack, Michael 3Com

Comment Type E Comment Status A

Should advise the reader that the modes of the PD are analogous to the Alternatives of the PSE.

## SuggestedRemedy

Encourage the editor to add words to that effect in the second sentence of the paragraph.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.1 P 28 L 17 # 290  
Dawe, Piers Agilent

Comment Type E Comment Status A

prejudice

## SuggestedRemedy

preference

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.1 P 28 L 21 # 103  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing commas

## SuggestedRemedy

put commas around the phrase "or Mode B but not Mode A"

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.3.1 P 28 L 21 # 577  
Hinrichs, Henry Pulse Inc.

Comment Type E Comment Status A

Sentence is not clear.

## SuggestedRemedy

Sentence should read "PDs that implement only Mode A or Mode B are specifically not in compliance with this standard."

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.3.1 P 28 L 22 # 578  
Hinrichs, Henry Pulse Inc.

Comment Type E Comment Status A

Snetence not clear.

## SuggestedRemedy

Sentence should read "Furthermore PDs that use Mode A and Mode B simultaneously....."

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.1 P 28 L 49 # 104  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

wrong punctuation used

## SuggestedRemedy

change semi-colon to a comma

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3.1 P 28 L 49 # 270  
Tom Mathey Independent

Comment Type E Comment Status A

The text on lines 49 to 53 refers to clause 14 for MDI and MDI-X. Some readers (more familiar with analog than standards writing) may then assume that the text only applies to clause 14 10BASE-T, and not to higher speeds.

## SuggestedRemedy

Add text that MDI and MDI-X are defined in clause 14 and definitions apply across all speeds.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.1 P 28 L 51 # 291  
Dawe, Piers Agilent

Comment Type E Comment Status A

"... is at a lower ... If ... shall be"

## SuggestedRemedy

Should these two be consistent: both "is" or both "shall"?

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.3.1 P 28 L 51 # 579  
Hinrichs, Henry Pulse Inc.

Comment Type E Comment Status A

There are 4 instances in this and the following sentence where "the pair" is used.

## SuggestedRemedy

These should be changed to "wire pair"

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.1 P 28 L 52 # 514  
Nadeau, Gerard UNH InterOperability L

Comment Type E Comment Status A

Missing "shall" as to be consistant with previous statement:

1st statement line 52:

...MDI per clause 14, the pair (1,2) is at a....

second statement line 53:

...MDI-X per clause 14, the pair (1,2) shall be at....

## SuggestedRemedy

change the first statement (line 52) to read:

...MDI per clause 14, the pair (1,2) shall be at a lower potential than the pair (3,6).

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.3.1 P 28 L 52 # 580  
Hinrichs, Henry Pulse Inc.

Comment Type E Comment Status A

Incorrect usage of a pronoun and inconsistant usage of verbs. In the previous sentence "is at a ..." is used

## SuggestedRemedy

Sentence could read "If the interface is implemented as a MDI-X per clause 14, wire pair (1,2) is at a higher potential than wire pair (3,6)"

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Change the word "shall be" to "is".

Cl 33 SC 33.3.1 P 28 L 52 # 105  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

extra word inserted

## SuggestedRemedy

remove the word 'that' so the sentence reads "...lower potential than the pair..."

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3.1 P 29 L 1 # 52  
 McCormack, Michael 3Com  
 Comment Type E Comment Status A  
 Note is overly pessimistic  
 SuggestedRemedy  
 Add the closing sentence 'This problem may be corrected with unconventional cabling.'  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.1 P 29 L 11 # 292  
 Dawe, Piers Agilent  
 Comment Type E Comment Status A Editorial Required  
 Grammar: "If a PD that is ..., and will not accept power via the MDI, shall"  
 SuggestedRemedy  
 "A PD that is ..., and will not accept power via the MDI, shall"  
 Or the following suggested remedy covers the case of a PD which is powered but shouldn't be:  
 "A PD that will not accept power via the MDI, shall"  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 See comment 632

Cl 33 SC 33.3.1 P 29 L 2 # 106  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing comma  
 SuggestedRemedy  
 put a comma after the work 'Link'.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.1 P 29 L 3 # 107  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing hyphen  
 SuggestedRemedy  
 put a hyphen between 'Auto' and 'MDI-X'  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.1 P 29 L 4 # 108  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing comma  
 SuggestedRemedy  
 put a comma between the words 'powered' and 'but'.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.1 P 29 L 8 # 581  
 Hinrichs, Henry Pulse Inc.  
 Comment Type E Comment Status A  
 Incorrect article usage.  
 SuggestedRemedy  
 Sentence should read "IF a PD that is not powered...."  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.2 P 29 L 11 # 510  
 Nadeau, Gerard UNH InterOperability L  
 Comment Type E Comment Status A  
 Add "the PD" after "...MDI,..." It will match the previous paragraph.  
 SuggestedRemedy  
 ...MDI, the PD shall...  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3.2 P 29 L 11 # 509  
Nadeau, Gerard UNH InterOperability L

Comment Type E Comment Status A  
Drop the "If"

SuggestedRemedy  
A PD

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.2 P 29 L 11 # 53  
McCormack, Michael 3Com

Comment Type E Comment Status A  
Typo 'or'

SuggestedRemedy  
Change 'or' to 'of'

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.2 P 29 L 11 # 110  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
incorrect wording of sentence

SuggestedRemedy  
change the beginning of the sentence from "If a PD that..." to "A PD that..." (in other words, remove the word 'If' and capitalize the 'a').

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.  
  
See comment 632.

Cl 33 SC 33.3.2 P 29 L 11 # 443  
Brown, Kevin C. Broadcom

Comment Type E Comment Status A  
Sentence lacks a subject.

SuggestedRemedy  
If a PD which is not powered via the MDI will not accept power via the MDI, the PD shall present an invalid signature on both sets of pairs defined in section 33.3.1.

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.  
  
See comment 632.

Cl 33 SC 33.3.2 P 29 L 11 # 745  
Jonathan Thatcher World Wide Packets

Comment Type E Comment Status A  
Change to "...via the MDI, the PD shall..."

SuggestedRemedy  
See comment

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.  
  
See comments 100, etc.

Cl 33 SC 33.3.2 P 29 L 12 # 429  
Darshan, Yair PowerDsine

Comment Type E Comment Status R  
Paragraph number specified at the end of line 12 should be 33.2.5.2

SuggestedRemedy  
Paragraph number specified at the end of line 12 should be 33.2.5.2

Proposed Response Response Status C  
REJECT.

Cl 33 SC 33.3.2 P 29 L 12 # 511  
Nadeau, Gerard UNH InterOperability L

Comment Type E Comment Status A  
change "or" to "of"

SuggestedRemedy  
both set of pairs

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3.2 P 29 L 12 # 111  
 Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
 typo

SuggestedRemedy  
 change 'or' to 'of'.

Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.2 P 29 L 17 # 590  
 John Jetzt Avaya, Inc.

Comment Type E Comment Status D  
 Move sentence.

SuggestedRemedy  
 Move this sentence to be in or after the first paragraph of this section.

Proposed Response Response Status Z

Cl 33 SC 33.3.2 P 29 L 17 # 303  
 Dawe, Piers Agilent

Comment Type E Comment Status A  
 Missing period

SuggestedRemedy  
 ... Table 33-7.

Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.2 P 29 L 17 # 112  
 Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
 missing punctuation

SuggestedRemedy  
 put a period at the end of the sentence, after "...of Table 7".

Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.2 P 29 L 17 # 633  
 Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A  
 Missing period at end of sentence.

SuggestedRemedy  
 Add period.

Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.2 P 29 L 20 # 420  
 Darshan, Yair PowerDsine

Comment Type E Comment Status A  
 [Table 7] Comments that received by some of the draft readers:  
 To specify the location of the measurements of the specified parameters.  
 (It should be obvious however it is not to readers who are not attending our meetings..)

SuggestedRemedy  
 Add to table 7 title that the parameters are measured at PD input connector.  
 (To add this comment to each and every table of parameter when it is relevant)

OR: Add a requirement at the beginning of the PSE and the PD sections that unless  
 otherwise is specified the requirements shown in the draft are measured at the output port  
 or input port connector.

Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.2 P 29 L 20 # 591  
 John Jetzt Avaya, Inc.

Comment Type E Comment Status A  
 Modify title of Table 7

SuggestedRemedy  
 New title: "Valid PD detection signature characteristics, measured at the PD input  
 connector"

Proposed Response Response Status C  
 ACCEPT.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.3.2**      **P 29**      **L 24**      # **293**  
Dawe, Piers      Agilent  
**Comment Type**    **E**      **Comment Status**    **A**  
"2.7 -10.1V ... K[ohm]" You need to avoid using - to mean "to" because later you use it to mean minus, e.g. "29-17 log<sub>10</sub>(f/10)"  
**SuggestedRemedy**  
"2.7 to 10.1 V ... k[ohm]" Similarly in 33.4.3.  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.3.2**      **P 29**      **L 35**      # **634**  
Brikovskis, Rhett      Lantern Communicatio  
**Comment Type**    **E**      **Comment Status**    **A**  
Voltage of 30V only applies for classification, not detection.  
Also, line 36 specifies no adverse effects due to probe voltage, or 57V. The text doesn't specify that 57V is only applied to devices that can accept power, so the higher requirement for 57V always applies to all devices.  
**SuggestedRemedy**  
Change "will be probed" to "may be probed".  
On line 36, change "by extended exposure to probe voltages, or by the power voltages up to 57 Volts" to "by extended exposure to power voltages up to 57 V".  
**Proposed Response**      **Response Status**    **C**  
ACCEPT IN PRINCIPLE.  
Delete paragraph

**Cl 33**      **SC 33.3.2**      **P 29**      **L 35**      # **430**  
Darshan, Yair      PowerDsine  
**Comment Type**    **E**      **Comment Status**    **A**  
I belive that lines 35-37 are not required and/or redundant from the following reason:  
1. The working voltages at different system modes are already specified in the relavent text/tables in the draft and it is ovious that PD input components and PSE output components under all system operating modes should not affected by it. It is implementation issue.  
2. The wording is confusing. The probing voltages is up to 10V during detection and can be up to 30V at open circuit.  
**SuggestedRemedy**  
Delete lines 35-37.  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.3.2**      **P 29**      **L 39**      # **592**  
John Jetzt      Avaya, Inc.  
**Comment Type**    **E**      **Comment Status**    **D**  
Move sentence.  
**SuggestedRemedy**  
Move this sentence to be in or after the second paragraph of this section.  
**Proposed Response**      **Response Status**    **Z**

**Cl 33**      **SC 33.3.2**      **P 29**      **L 42**      # **593**  
John Jetzt      Avaya, Inc.  
**Comment Type**    **E**      **Comment Status**    **A**  
Modify title of Table 8  
**SuggestedRemedy**  
New title: "Non-valid PD detection signature characteristics, measured at the PD input connector"  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.3.2**      **P 29**      **L 8**      # **421**  
Darshan, Yair      PowerDsine  
**Comment Type**    **E**      **Comment Status**    **A**  
I believe that the intention in line 8 was for a PD that was not yet powered via the MDI.  
**SuggestedRemedy**  
Change line 8 from "If a PD which is not powered..." to "If a PD which is not yet powered ..."  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.3.2**      **P 29**      **L 8**      # **507**  
Nadeau, Gerard      UNH InterOperability L  
**Comment Type**    **E**      **Comment Status**    **R**  
Drop the "If"  
**SuggestedRemedy**  
A PD...  
**Proposed Response**      **Response Status**    **C**  
REJECT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3.2 P 29 L 8 # 109  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing punctuation  
 SuggestedRemedy  
 put commas around the phrase "which is not powered via the MDI".  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 23 # 533  
 Grow, Robert M. Intel  
 Comment Type E Comment Status A  
 The class 4 usage is reserved not the maximum power.  
 SuggestedRemedy  
 Change usage in row for Class 4 to Reserved, and Max power to "--".  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 29 # 532  
 Grow, Robert M. Intel  
 Comment Type E Comment Status A  
 The note belongs in the tables.  
 SuggestedRemedy  
 Move the Note to be a line in table 9 and table 10.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 31 # 594  
 John Jetzt Avaya, Inc.  
 Comment Type E Comment Status A  
 Clarify sentence.  
 SuggestedRemedy  
 "...shall provide both the current characteristics and the voltage characteristics of a classification signature, as specified in Tables 10 and 11."  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 32 # 115  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 extra space between words  
 SuggestedRemedy  
 remove the extra space before the number '11'.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 35 # 595  
 John Jetzt Avaya, Inc.  
 Comment Type E Comment Status A  
 Modify title of Table 10  
 SuggestedRemedy  
 New title: "Classification signature, current characteristics, measured at the PD input connector"  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 39 # 596  
 John Jetzt Avaya, Inc.  
 Comment Type E Comment Status A  
 Fix column 1 of Table 10  
 SuggestedRemedy  
 Each entry in column 1 should be "Current for Class x"  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 4 # 582  
 Hinrichs, Henry Pulse Inc.  
 Comment Type E Comment Status A  
 Excess verbage  
 SuggestedRemedy  
 Remove "that may be", then sentence reads " .... PD classification is to provide information about the maximum power required by the ....."  
 Proposed Response Response Status C  
 ACCEPT.



# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3.3 P 30 L 5 # 113  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 wrong punctuation used  
 SuggestedRemedy  
 put a period in place of the semi-colon, and capitalize the 'h' in however.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 5 # 426  
 Darshan, Yair PowerDsine  
 Comment Type E Comment Status A  
 The requirements for class 0 is not "simple resistor". It should be Signature Resistor.  
 SuggestedRemedy  
 Change the words at line 5 from "simple resistor" to "signature resistor".  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 6 # 531  
 Grow, Robert M. Intel  
 Comment Type E Comment Status A  
 Clarity needs to be improved on how class is selected and what is a result of that selection.  
 SuggestedRemedy  
 Start new paragraph at sentence break of line 6. Move paragraph at 26 to be first sentence of new paragraph. Change "shall be" in current line 26 to "is", and change line 7 to read: "...the class selection shall be in accordance with ...".  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 6 # 665  
 karam, roger cisco  
 Comment Type E Comment Status X  
 class 1 to 3  
 also on line 7 the same thing class 1 to 3  
 all right it is confusing either way, we have 4 classes let us make it 1 to 4...  
 SuggestedRemedy  
 class 1 to 4  
 also please change the same on the next line, line 7 of that page  
 Proposed Response Response Status Z

Cl 33 SC 33.3.3 P 30 L 6 # 114  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing comma  
 SuggestedRemedy  
 put a comma after "...the PSE", before "the PD..." so it reads "...power management at the PSE, the PD can ..."  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.3 P 30 L 7 # 512  
 Nadeau, Gerard UNH InterOperability L  
 Comment Type E Comment Status A  
 better text, at least to me. Ending of line 6 into line 7.  
 "...return a Class 1 to 3 classification..."  
 SuggestedRemedy  
 return a classification 1 to 3,  
 or  
 return a classification of 1, 2, or 3,  
 or  
 return a classification between 1 and 3 inclusive,  
 Proposed Response Response Status C  
 ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3.3 P 31 L 1 # 597  
John Jetzt Avaya, Inc.

Comment Type E Comment Status A

Modify title of Table 11

## SuggestedRemedy

New title: "Classification signature, voltage characteristics, measured at the PD input connector"

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.3.3 P 31 L 5 # 598  
John Jetzt Avaya, Inc.

Comment Type E Comment Status A

Fix column 1 of Table 11

## SuggestedRemedy

Each entry in column 1 should be "Voltage for Class x"

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.3.4 P 31 L 25 # 116  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

excess wording in sentence

## SuggestedRemedy

remove the word 'following'.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.3.4 P 31 L 27 # 17  
Brown, Benjamin AMCC

Comment Type E Comment Status A

Wrong word

## SuggestedRemedy

Replace "capable or" with "capable of"

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.3.4 P 31 L 27 # 117  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

typo

## SuggestedRemedy

change the word 'or' to 'of'.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.3.4 P 31 L 27 # 296  
Dawe, Piers Agilent

Comment Type E Comment Status A

"capable or drawing power"

Editorial Required

## SuggestedRemedy

of

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.3.4 P 31 L 27 # 432  
Darshan, Yair PowerDsine

Comment Type E Comment Status A

I believe the intention was to say " The PD may be capable of drawing.." and not " The PD may be capable or drawing.."

## SuggestedRemedy

[as proposed]

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.3.4 P 31 L 27 # 671  
karam, roger cisco

Comment Type E Comment Status A

Possibly a TYPO here  
the PD may be capable or drawing  
the 'or' was meant to be an 'of' ??

## SuggestedRemedy

The PD may be capable of drawing

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.3.4**      **P 32**      **L 7**      # **730**  
 Thaler, Pat      Agilent Technologies

**Comment Type**    **E**      **Comment Status**    **A**

Same comment as on table 5. The long notes reduce table readability.

## SuggestedRemedy

Rewrite long notes as subclauses of 33.3.4 and provide references in the table.

**Proposed Response**      **Response Status**    **C**

ACCEPT IN PRINCIPLE.

See comment 718.

**Cl 33**      **SC 33.3.4**      **P 33**      **L 5**      # **423**  
 Darshan, Yair      PowerDsine

**Comment Type**    **E**      **Comment Status**    **A**

[Table 12] At Austin we changed the definition to "Common mode and/or differential noise pair to pair values"

## SuggestedRemedy

To change line 5 to: "Common mode and/or differential noise pair to pair values"

**Proposed Response**      **Response Status**    **C**

ACCEPT.

**Cl 33**      **SC 33.3.4**      **P 35**      **L 8**      # **477**  
 Thompson, Geoffrey O.      Nortel

**Comment Type**    **E**      **Comment Status**    **A**      **Editorial Required**

The text: "The requirements of section 33.4 are consistent with the requirements of the PHYs of 10BASE-T, 100BASE-TX and 1000BASE-T. With the exception of section 33.4.4, resistance imbalance, no margins have been added, removed, tighten, or relaxed for clause 33."

The intent here is clear but it is risky to double specify things. Normally this is handled by using references in the 2nd instance (not appropriate in this instance) or by having a precedence statement.

## SuggestedRemedy

Add a precedence statement at the end of this paragraph so that, if an inadvertent requirement conflict creeps in, the reader will be able to resolve it.

**Proposed Response**      **Response Status**    **C**

ACCEPT IN PRINCIPLE.

This information is provided for ease of reference.  
User is directed to examine clauses 14 and 25 and /or 40 for the governing material

**Cl 33**      **SC 33.3.4**      **P 35**      **L 8**      # **476**  
 Thompson, Geoffrey O.      Nortel

**Comment Type**    **E**      **Comment Status**    **A**

The text: "The requirements of section 33.4 are consistent with the requirements of the PHYs of 10BASE-T, 100BASE-TX and 1000BASE-T. With the exception of section 33.4.4, resistance imbalance, no margins have been added, removed, tighten, or relaxed for clause 33.

## SuggestedRemedy

Change: tighten  
To: tightened

**Proposed Response**      **Response Status**    **C**

ACCEPT.

**Cl 33**      **SC 33.3.4.1**      **P 35**      **L 14**      # **478**  
 Thompson, Geoffrey O.      Nortel

**Comment Type**    **E**      **Comment Status**    **A**      **Editorial Required**

The text: "The PSE or PD shall provide electrical isolation between the port device circuits,including frame ground (if any)and all MDI leads.."

(admittedly copied from elsewhere) as stated does not make it clear that the requirement also to include the isolation from all other MDI leads associated with other ports.

## SuggestedRemedy

Perhaps: "...and the MDI leads associated with this port."

**Proposed Response**      **Response Status**    **C**

ACCEPT IN PRINCIPLE.

See comment 158.

**Cl 33**      **SC 33.3.5**      **P 31**      **L 35**      # **729**  
 Thaler, Pat      Agilent Technologies

**Comment Type**    **E**      **Comment Status**    **A**

Use the name you gave the current lport.

## SuggestedRemedy

[as proposed]

**Proposed Response**      **Response Status**    **C**

ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3.5 P 31 L 35 # 118  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 extra, unnecessary punctuation  
 SuggestedRemedy  
 remove the comma after the word 'and' at the end of this line  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.5 P 32 L 1 # 444  
 Brown, Kevin C. Broadcom  
 Comment Type E Comment Status A  
 Table 12 does not belong in subclause 33.3.5 PD power maintenance signal.  
 SuggestedRemedy  
 Create subclause 33.3.6 PD Power Supply  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.5 P 32 L 19 # 299  
 Dawe, Piers Agilent  
 Comment Type E Comment Status A Editorial Required  
 "PD max input capacitor value and its circuitry will be design in such a way that when a PD is connected to a PSE through series resistance of 0.1[ohm] to 20[ohm] and PSE voltage is changed from 44V to 57V, the peak current will be 0.4A max for a max duration of 50mS."  
 SuggestedRemedy  
 "The peak current through the PD shall not exceed 0.4 A for a maximum duration of 50 ms when the PD is connected to a PSE through a series resistance of 0.1 to 20 [ohm] and the PSE voltage is changed from 44 to 57 V."  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 These notes were rewritten in technical comment 535

Cl 33 SC 33.3.5 P 32 L 19 # 120  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 wrong tense of word used  
 SuggestedRemedy  
 in NOTES section, change 'design' to 'designed'.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.5 P 32 L 25 # 534  
 Grow, Robert M. Intel  
 Comment Type E Comment Status A  
 Fix formatting.  
 SuggestedRemedy  
 Add bottom border to locations where the table splits. Table should fit on two pages.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.3.5 P 32 L 4 # 636  
 Brikovskis, Rhett Lantern Communicatio  
 Comment Type E Comment Status A  
 Multiple comments on Table 12:  
 Page 33 - "units" column for ripple and noise should be VPP, preceding column either blank or VNOISE.  
 Page 33, line 44 - how are the RMS, DC, and ripple currents bounded by the equality? Not clear what is intended.  
 SuggestedRemedy  
 Correct table.  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 Addressed in technical comment

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3.5 P 32 L 8 # 18  
Brown, Benjamin AMCC  
Comment Type E Comment Status A  
Missing letter  
SuggestedRemedy  
Replace "Pport = Vpor \* Iport" with "Pport = Vport \* Iport"  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.5 P 32 L 8 # 119  
Rasimas, Jennifer G. Nortel Networks  
Comment Type E Comment Status A  
missing letter  
SuggestedRemedy  
in NOTES section, V\_port subscript is missing the letter 't'.  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.5 P 32 L 8 # 298  
Dawe, Piers Agilent  
Comment Type E Comment Status A Editorial Required  
"V\_Por"  
SuggestedRemedy  
"V\_Port"  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.5 P 33 L 21 # 440  
Darshan, Yair PowerDsine  
Comment Type E Comment Status A  
[Table 12] Add few clarifications and useful information to the notes column of item 5  
SuggestedRemedy  
Add to the end of note b, line 32: "For Vport>37V, Irms max=12.95/Vport [Arms]  
Add to the end of line 39: For Vport>37V, Ip=14.4/Vport [Ap].  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.5 P 33 L 25 # 122  
Rasimas, Jennifer G. Nortel Networks  
Comment Type E Comment Status A  
missing units  
SuggestedRemedy  
put 'V' after the 36 in the notes section.  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.5 P 33 L 33 # 123  
Rasimas, Jennifer G. Nortel Networks  
Comment Type E Comment Status A  
waveform is two words and it should be one word  
SuggestedRemedy  
make waveform one word, so that a hyphen appears if it splits onto two lines.  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.5 P 33 L 5 # 660  
karam, roger cisco  
Comment Type E Comment Status A  
common mode/differential noise values  
this can be interpreted as a Ratio  
SuggestedRemedy  
Common mode, and Or differential noise values  
Proposed Response Response Status C  
ACCEPT IN PRINCIPLE. "and/or"

Cl 33 SC 33.3.5 P 33 L 5 # 185  
Turner, Ed Lattice Semiconductor  
Comment Type E Comment Status A  
[submitted without Comment Type] Table 12.  
Several instances of 'Mhz' and 'Khz'.  
SuggestedRemedy  
Change 'Mhz' to 'MHz' and 'Khz' to 'KHz'. Also insert spaces between number and unit.  
Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.3.5 P 33 L 8 # 121  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
missing hyphen

SuggestedRemedy  
add a hyphen between the words 'signal' and 'carrying' because they describe the pairs.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.3.5 P 34 L 10 # 301  
Dawe, Piers Agilent

Comment Type E Comment Status A Editorial Required  
1st

SuggestedRemedy  
first

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.33.2.4 P 20 L 15 # 515  
Grow, Robert M. Intel

Comment Type E Comment Status A  
The P+, P- voltage specification is redundant with tables.

SuggestedRemedy  
Remove the voltage specification from Figure 33-5 and 33-6.

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.33.2.4 P 20 L 8 # 516  
Grow, Robert M. Intel

Comment Type E Comment Status A  
Clarity could be improved.

SuggestedRemedy  
Replace last sentence with: "PSE requirements are specified using a Thevenin circuit.  
This is not intended to limit implementation with an equivalent circuit."

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.33.7 P 44 L 55 # 536  
Grow, Robert M. Intel

Comment Type E Comment Status A Editorial Required  
Where's the PICS? It really should have been done prior to WG ballot when shalls are easier to edit. Writing the PICS is the best method for properly locating shall statements.

SuggestedRemedy  
The document is incomplete until the PICS is added. Add it.

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Being added by committee ballot

Cl 33 SC 33.4 P 35 L 10 # 637  
Brikovskis, Rhett Lantern Communicatio

Comment Type E Comment Status A  
Misspelling

SuggestedRemedy  
"tighten" should be "tightened"

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.4 P 35 L 10 # 127  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
wrong tense of word

SuggestedRemedy  
change 'tighten' to 'tightened'.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.4 P 35 L 10 # 304  
Dawe, Piers Agilent

Comment Type E Comment Status A Editorial Required  
"tighten"

SuggestedRemedy  
tightened

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

CI 33 SC 33.4 P 35 L 10 # 566  
 Burton, Scott Mitel Networks  
 Comment Type E Comment Status A  
 "...removed, tighten, ..."  
 SuggestedRemedy  
 "...removed, tightened, ..."  
 Proposed Response Response Status C  
 ACCEPT.

CI 33 SC 33.4 P 35 L 10 # 385  
 Booth, Brad Intel  
 Comment Type E Comment Status A  
 Capitalize clause.  
 SuggestedRemedy  
 [as proposed]  
 Proposed Response Response Status C  
 ACCEPT.

CI 33 SC 33.4 P 35 L 3 # 583  
 Hinrichs, Henry Pulse Inc.  
 Comment Type E Comment Status A  
 The word "both" is missing.  
 SuggestedRemedy  
 Sentence should read "This section defines the electrical specifications for both the PSE and PD."  
 Proposed Response Response Status C  
 ACCEPT.

CI 33 SC 33.4 P 35 L 4 # 124  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing punctuation  
 SuggestedRemedy  
 place commas around the phrase ""when specified""  
 Proposed Response Response Status C  
 ACCEPT.

CI 33 SC 33.4 P 35 L 5 # 125  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing comma  
 SuggestedRemedy  
 put a comma after the word 'condition'.  
 Proposed Response Response Status C  
 ACCEPT.

CI 33 SC 33.4 P 35 L 9 # 3  
 Jackson, Stephen S. Hatteras Networks  
 Comment Type E Comment Status A  
 section 33.4 is titled "Resistance balance"  
 SuggestedRemedy  
 change text to verbatim title reference, and revise capitalization  
 Proposed Response Response Status C  
 ACCEPT.

CI 33 SC 33.4 P 35 L 9 # 587  
 Stephen Haddock Extreme Networks  
 Comment Type E Comment Status A  
 Sentence is difficult to parse.  
 SuggestedRemedy  
 Change "With the exception of section 33.4.4, resistance imbalance, no margins ..." to "With the exception of resistance balance (33.4.4), no margins ..."  
 Also change "tighten" to "tightened".  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.4 P35 L 9 # 126  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 hard to read sentence  
 SuggestedRemedy  
 -put parentheses around the words 'Resistance imbalance', removing the commas around the phrase  
 -capitalize the 'r' in resistance so it matches the heading it's referring to  
 -add a comma after the closing parenthesis.  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.

Cl 33 SC 33.4.1 P35 L 13 # 256  
 Cobb, Terry Avaya  
 Comment Type E Comment Status A  
 Add the definitions of Environments, as requested.  
 SuggestedRemedy  
 There are two electrical power distribution environments, see Clause 9.7.  
 Environment A - When a LAN or LAN segment, with all its associated interconnected equipment, is entirely contained within a single low-voltage power distribution system and within a single building.  
 Environment B - When a LAN crosses the boundary between separate power distribution systems or the boundaries of a single building.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.4.1 P35 L 18 # 353  
 Naganuma, Ken Toko America Inc.  
 Comment Type E Comment Status A  
 Wrong unit : 60 s  
 SuggestedRemedy  
 60S  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.4.1 P35 L 19 # 354  
 Naganuma, Ken Toko America Inc.  
 Comment Type E Comment Status A  
 Wrong unit : 60 s  
 SuggestedRemedy  
 60S  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.4.1 P35 L 22 # 19  
 Brown, Benjamin AMCC  
 Comment Type E Comment Status A  
 [lines 22-36] I'm not sure which is correct but 2 terms which I think should match don't.  
 SuggestedRemedy  
 The terms are:  
 Line 21/22: "virtual time or half value"  
 Line 36: "virtual time of half value"  
 I'm not sure which should be corrected but they should match.  
 Proposed Response Response Status C  
 ACCEPT.

Cl 33 SC 33.4.10 P38 L 12 # 483  
 Thompson, Geoffrey O. Nortel  
 Comment Type E Comment Status A Editorial Required  
 Figure 33-10 should be labeled as "cross-connect" not "interconnect" as cloesly as I can tell. The connection between the two boxes that are close to each other would be a cross-connect or patch cord in this illustration.  
 See Figure 5 in ISO/IEC 11801 Consolidated Edition : 1999  
 SuggestedRemedy  
 Change to "Cross-connect"  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 See comment 337.



# P802.3af Draft 3.0 Comments

*Cl* **33**      *SC* **33.4.10**      *P* **38**      *L* **13**      # **336**  
Pincu, David      PowerDsine

*Comment Type*    **E**      *Comment Status*    **A**  
The drawing Fig 33-10 should be changed to be as Fig 9 of the ISO/IEC 11801 which it relates to.

*SuggestedRemedy*  
Replace the drawing

*Proposed Response*      *Response Status*    **C**  
ACCEPT IN PRINCIPLE.  
See comment 337

*Cl* **33**      *SC* **33.4.10**      *P* **38**      *L* **22**      # **482**  
Thompson, Geoffrey O.      Nortel

*Comment Type*    **E**      *Comment Status*    **A**      *Editorial Required*  
Figure 33.10 should be labeled as 33-10 in a manner that is consistent with 802.3 style.

*SuggestedRemedy*  
Change this number to 33-10 and change throughout the document.

*Proposed Response*      *Response Status*    **C**  
ACCEPT IN PRINCIPLE.  
See comment 337

*Cl* **33**      *SC* **33.4.10**      *P* **38**      *L* **25**      # **131**  
Rasimas, Jennifer G.      Nortel Networks

*Comment Type*    **E**      *Comment Status*    **A**  
wrong punctuation

*SuggestedRemedy*  
change semi-colon to a comma

*Proposed Response*      *Response Status*    **C**  
ACCEPT IN PRINCIPLE.

See comment 337

*Cl* **33**      *SC* **33.4.10**      *P* **38**      *L* **26**      # **337**  
Pincu, David      PowerDsine

*Comment Type*    **E**      *Comment Status*    **A**  
The sentence "configurations with one connection..." Is not excat nor clear.

It is not exact as even interconnect configuration has two connections one to the swith and one to the patch panel. It is not clear as reference should be made to interconnect versus cross connect as defined in ISO /IEC 11801 para. 5.6.1 Equipment interface and test interface

*SuggestedRemedy*

Change sentence to " For applications using the interconnect topology as defined in ISO/IEC 11801 Para 5.6.1 , the pse can be added as an additional connnection"

*Proposed Response*      *Response Status*    **C**  
ACCEPT IN PRINCIPLE.

New text and figures supplied by ad hoc committee.  
TF Vote: Y:20 N:0 A:0.

NEW TEXT:

33.4.10 Mid-span PSE  
The cabling specifications for 100 W balanced cabling is described in ISO/IEC 11801-2000. The configuration of "channel" and "permanent link" is defined in Figure 33-10.

Here Fig 9 of IEC 11801 is to be inserted

The ISO/IEC 11801 defines in Para. 5.6.1 two types of Equipment interface to the cabling system: " Interconnect model " and the "cross-connect model", see Figure 33-11.

Here a new figure 33-11 to copy Fig 5 (Top lines) of ISO/IEC 11801.

The insertion of a PSE at the FD (Floor Distributor) shall comply with the following guidelines:  
If the existing FD configuration is of the " Interconnect model " type, the PSE can be added, provided it does not increase the length of the resulting "channel" to more than specified 100 meters as defined in ISO/IEC 11801.  
If the existing FD configuration is of the "channel" interconnect model, the PSE needs to be installed instead of one of the connection pairs in the FD. In addition, the installation of the PSE shall not increase the length of the resulting "channel" to more than specified 100 meters as defined in ISO/IEC 11801.  
Configurations with the PSE in the cabling channel shall not alter the transmission requirements of the "permanent link" .The inclusion of the PSE in the channel may reflect in channel continuity for the signal pairs only, as spare pairs on which power is injected may be discontinued at the PSE. The requirements for the two pair channel including the PSE are as follows:

Here "original"11801 Cat 5 requirements for channel are to be inserted.  
Note:

## P802.3af Draft 3.0 Comments

Appropriate termination should be applied on both sides of the interrupted pairs.  
 33.4.10.1 "Connector" or "Telecom outlet" PSE Transmission requirements  
 The PSE equipment to be inserted, as "Connector "or" Telecom outlet" shall meet the following transmission parameters.

33.4.10.1.1 □NEXT (Near End Cross-Talk)

Insert Terry's text of draft D1.2

33.4.10.1.2 □Insertion loss

Insert Terry's text of draft D1.2

33.4.10.1.3 □Return loss

Insert Terry's text of draft D1.2

33.4.10.2 □Work area or Equipment cable PSE

Same text , including testing for insertion loss Next and Return loss.

Cl 33	SC 33.4.10	P 38	L 29	# 537
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Grow, Robert M.

Intel

Comment Type E Comment Status A

Misuse of "requirements". Insertion of a PSE doesn't modify the requirements of the transmission channel. When inserted therefore it can't significantly change the characteristics of the channel.

SuggestedRemedy

Change to read: "...shal not alter the transmission compliance characteristics of the cabling channel..."

Make similar change to line 43.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

See comment 337

Cl 33	SC 33.4.10	P 38	L 3	# 335
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Pincu, David

PowerDsine

Comment Type E Comment Status A

The phrase " ...is described in ISO/IEC 11801-2000 " is referring to a specific edition of the standard.It should be changed to relate to the ISO IEC 11801 and reference can be made to the applicable paragraph 6.1 General.

SuggestedRemedy

Change the wording to:

"As described in ISO/IEC 11801 paragraph 6.1 General "

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

See comment 337.

Cl 33	SC 33.4.10	P 38	L 32	# 187
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Turner, Ed

Lattice Semiconductor

Comment Type E Comment Status A

'meters' is spelt out.

SuggestedRemedy

Replace 'meters' with 'm'

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

See comment 337

Cl 33	SC 33.4.10	P 38	L 38	# 20
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Brown, Benjamin

AMCC

Comment Type E Comment Status A

[lines 38-45] There are 2 references to 11801-2002. I presume this should be 11801-2000 like in the previous paragraph.

SuggestedRemedy

Replace 2 instances of "11801-2002" with "11801-2000"

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

See comment 337

Cl 33	SC 33.4.10	P 38	L 7	# 310
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Dawe, Piers

Agilent

Comment Type E Comment Status A

"Telecom Closet": I remember Alan Flatman said this had been or would be changed to "room".

SuggestedRemedy

Please check. I'm sorry I don't have the reference to hand.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

See comment 337

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.4.10.1 P 38 L 35 # 132  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 typo  
 SuggestedRemedy  
 add an 's' to the word 'jack' to make it 'jacks'.  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 See comment 337

Cl 33 SC 33.4.10.1 P 38 L 36 # 312  
 Dawe, Piers Agilent  
 Comment Type E Comment Status A  
 Do we need the (1)?  
 SuggestedRemedy  
 Delete "(1)".  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 See comment 337

Cl 33 SC 33.4.10.1 P 38 L 36 # 311  
 Dawe, Piers Agilent  
 Comment Type E Comment Status A  
 Commas don't balance.  
 SuggestedRemedy  
 closet, is  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 See comment 337

Cl 33 SC 33.4.10.1 P 38 L 36 # 133  
 Rasimas, Jennifer G. Nortel Networks  
 Comment Type E Comment Status A  
 missing comma  
 SuggestedRemedy  
 put a comma after the word 'closet'.  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 See comment 337

Cl 33 SC 33.4.10.1 P 38 L 45 # 313  
 Dawe, Piers Agilent  
 Comment Type E Comment Status A Editorial Required  
 Don't requirements for insertion loss, NEXT, FEXT and return loss apply to all pairs?  
 SuggestedRemedy  
 Move the comma: "..., return loss and delay, for ..."  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 See comment 337.

Cl 33 SC 33.4.10.2 P 38 L 43 # 340  
 Pincu, David PowerDsine  
 Comment Type E Comment Status A  
 The paragraph calls for compliance with ISO/IEC 11801 Cat 5 . This means compliance with Enhanced Cat 5 (Cat 5 E) levels.  
 There should be proper justification to deviate from issues discussed and closed in the past , and as they were part of the last draft.  
 SuggestedRemedy  
 To consider reverting to previous draft 2.1 values  
 Proposed Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 See comment 337

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.4.2**      **P 35**      **L 32**      # **355**  
Naganuma, Ken      Toko America Inc.  
**Comment Type**    **E**      **Comment Status**    **A**  
Wrong unit : 500ma  
**SuggestedRemedy**  
500mA  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.4.2**      **P 35**      **L 32**      # **585**  
Dallesasse, John      Molex  
**Comment Type**    **E**      **Comment Status**    **A**  
The "a" in "ma" should be capitalized.  
**SuggestedRemedy**  
Capitalize the "a."  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.4.2**      **P 35**      **L 34**      # **307**  
Dawe, Piers      Agilent  
**Comment Type**    **E**      **Comment Status**    **A**      *Editorial Required*  
You have to tell the reader what Ecm is.  
**SuggestedRemedy**  
Tell the reader what Ecm is.  
**Proposed Response**      **Response Status**    **C**  
ACCEPT IN PRINCIPLE.  
Move later description forward

**Cl 33**      **SC 33.4.2**      **P 35**      **L 40**      # **306**  
Dawe, Piers      Agilent  
**Comment Type**    **E**      **Comment Status**    **A**      *Editorial Required*  
What is the round thing in the figure?  
What is the triangular thing in the figure?  
What is the dotted line?  
Which side is the tester, which is the device under test?  
**SuggestedRemedy**  
Add missing information

**Proposed Response**      **Response Status**    **C**  
ACCEPT IN PRINCIPLE.  
Round thing: see comment 307  
dotted line and triangle: labeled as in figure 33.8  
tester and EUT: see comment 307

**Cl 33**      **SC 33.4.3**      **P 36**      **L 1**      # **694**  
David Hyer      Compaq Computer Co  
**Comment Type**    **E**      **Comment Status**    **A**  
The clause heading is Impedance imbalance, yet the text and figure only discuss Impedance balance.  
**SuggestedRemedy**  
Either change the heading to Impedance balance, or add the appropriate definition for impedance imbalance within the text.  
**Proposed Response**      **Response Status**    **C**  
ACCEPT IN PRINCIPLE.  
Change title.

**Cl 33**      **SC 33.4.3**      **P 36**      **L 44**      # **667**  
karam, roger      cisco  
**Comment Type**    **E**      **Comment Status**    **A**  
two conductors in the differential  
TYPO , Nobody writes engleesh good no more...  
**SuggestedRemedy**  
in the differential  
**Proposed Response**      **Response Status**    **C**  
ACCEPT.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.4.3**      **P 36**      **L 9**      # **436**  
 Darshan, Yair      PowerDsine

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

Impedance imbalance:What is the reason for a a frequency range of 2 MHz to 20MHz.  
 In 802.3 standard I have found 2MHz to 12.5MHz, or 2MHz to 25MHz or 1MHz to 20MHz  
 pending on the issue.  
 Is there particular reason why 2MHz to 20MHz range was specified to be the range?

In addition it is not clear as for the source of the equation in line 11 for 100BT  
 Need clarifications during the comment resolution meeting in order to justify the following:  
 1. The relevancy of paragraph 33.4.3 where it is citing equations and values which already  
 appear elsewhere in the 802.3 (23.5.1.2.6, 23.6.1.4.2, 14.3.1.2.4 etc.)  
 2. The numbers presented here are different than the those specified in 802.3

**SuggestedRemedy**  
 [as proposed]

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

**Cl 33**      **SC 33.4.4**      **P 36**      **L 43**      # **695**  
 David Hyer      Compaq Computer Co

**Comment Type**    **E**      **Comment Status**    **A**  
 the word differential is misspelled

**SuggestedRemedy**  
 Change from "differenctial" to "differential"

**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.4.4**      **P 36**      **L 44**      # **128**  
 Rasimas, Jennifer G.      Nortel Networks

**Comment Type**    **E**      **Comment Status**    **A**  
 misspelled words

**SuggestedRemedy**  
 add an 's' in 'Resistance' and remove the 'c' in 'differential'.

**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

**Cl 33**      **SC 33.4.4**      **P 36**      **L 44**      # **668**  
 karam, roger      cisco

**Comment Type**    **E**      **Comment Status**    **A**

I need Help- what is this paragraph all about?  
 balance in the cable? and we are not specing cables ?  
 if it is about the RJ45 looking in, would 4.3 not cover it?

**SuggestedRemedy**  
 remove it...

**Proposed Response**      **Response Status**    **C**  
 ACCEPT IN PRINCIPLE.

Liaison with TIA needs to be addressed.  
 Will be addressed via the reflector.  
 The next meeting of TR-42 is the week of 2/4.  
 Task Force needs to have a request to Mr. Thompson  
 the week of 1/28.

**Cl 33**      **SC 33.4.4**      **P 36**      **L 44**      # **309**  
 Dawe, Piers      Agilent

**Comment Type**    **E**      **Comment Status**    **A**

"Resitance balance is a measure of the difference"  
 Missing s in Resitance.  
 Strictly true but counter-intuitive: it might be better to say that resistance balance is a  
 measure of the similarity..., or that unbalance is a measure of difference...

**SuggestedRemedy**  
 See comment.

**Proposed Response**      **Response Status**    **C**  
 ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.4.4**      **P 36**      **L 45**      # **163**  
 Plunkett, Timothy R      NSWCDD

**Comment Type**    **E**      **Comment Status**    **A**

Second sentence of the paragraph needs a comma after the phrase "at the PD".

**SuggestedRemedy**  
 add above comma

**Proposed Response**      **Response Status**    **C**  
 ACCEPT.

# P802.3af Draft 3.0 Comments

*Cl* **33**      *SC* **33.4.4**      *P* **36**      *L* **45**      # **129**  
 Rasimas, Jennifer G.      Nortel Networks

*Comment Type*    **E**      *Comment Status*    **A**  
 missing punctuation

## *SuggestedRemedy*

add commas around the phrase "and conductor 2 is looped back to conductor 6 at the PD

*Proposed Response*      *Response Status*    **C**  
 ACCEPT.

*Cl* **33**      *SC* **33.4.6**      *P* **36**      *L* **39**      # **308**  
 Dawe, Piers      Agilent

*Comment Type*    **E**      *Comment Status*    **A**      *Editorial Required*  
 "The balance of the test equipment (such as the matching of the test resistors) must be insignificant"

## *SuggestedRemedy*

unbalance

*Proposed Response*      *Response Status*    **C**  
 ACCEPT IN PRINCIPLE.

The note is unclear.

Remove note.

*Cl* **33**      *SC* **33.4.6**      *P* **37**      *L* **25**      # **480**  
 Thompson, Geoffrey O.      Nortel

*Comment Type*    **E**      *Comment Status*    **A**

The text: "This AC voltage can be ripple from the power supply or any additional noise." suffers from lack of parallel construction, i.e. "from the power supply" is a source of noise and "any additional noise" is the noise itself.

## *SuggestedRemedy*

Perhaps:  
 "This AC voltage can be ripple from the power supply or any other source."  
 -or-  
 "This AC voltage can be power supply ripple or any other additional noise."

*Proposed Response*      *Response Status*    **C**  
 ACCEPT.

*Cl* **33**      *SC* **33.4.6**      *P* **37**      *L* **27**      # **257**  
 Cobb, Terry      Avaya

*Comment Type*    **E**      *Comment Status*    **A**  
 Add figure, as requested.

## *SuggestedRemedy*

Correct the text in the sub-clause to point to a figure 33.10 - Common to common differential AC voltage. (Note, remove the A in Figure 33.9.)

The figure should have two MDI ports (two figures of 33.9) with the arrow for the measured voltage, "Common to common differential AC voltage" between the two different "A of figure 33.9"s of each MDI port.

*Proposed Response*      *Response Status*    **C**  
 ACCEPT.

*Cl* **33**      *SC* **33.4.9**      *P* **37**      *L* **44**      # **130**  
 Rasimas, Jennifer G.      Nortel Networks

*Comment Type*    **E**      *Comment Status*    **A**  
 missing punctuation

## *SuggestedRemedy*

add commas around the phrase "when mated with a specified balanced cabling connection".

*Proposed Response*      *Response Status*    **C**  
 ACCEPT.

*Cl* **33**      *SC* **33.5.2**      *P* **39**      *L* **9**      # **134**  
 Rasimas, Jennifer G.      Nortel Networks

*Comment Type*    **E**      *Comment Status*    **A**  
 incorrect punctuation

## *SuggestedRemedy*

change semi-colon to a period and capitalize the 't' in 'the'.

*Proposed Response*      *Response Status*    **C**  
 ACCEPT.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.5.5**      **P 39**      **L 41**      # **135**  
 Rasimas, Jennifer G.      Nortel Networks  
*Comment Type*    **E**      *Comment Status*    **A**  
 incorrect punctuation  
*SuggestedRemedy*  
 change the period after 'standard' to a comma and make the 'T' in 'the' a lowercase letter.  
 also, change the period after 'apply' to a colon.  
*Proposed Response*      *Response Status*    **C**  
 ACCEPT.

**Cl 33**      **SC 33.5.5**      **P 39**      **L 41**      # **4**  
 Jackson, Stephen S.      Hatteras Networks  
*Comment Type*    **E**      *Comment Status*    **A**  
 Grammatical error, punctuation  
*SuggestedRemedy*  
 Replace the period following the word "standard" with a comma, then set the next word to lower-case, and replace the period after the word "apply" with a colon  
*Proposed Response*      *Response Status*    **C**  
 ACCEPT.

**Cl 33**      **SC 33.5.5**      **P 39**      **L 41**      # **314**  
 Dawe, Piers      Agilent  
*Comment Type*    **E**      *Comment Status*    **A**      *Editorial Required*  
 "Although there is no universal standard. The ..."  
*SuggestedRemedy*  
 "... standard, the ..."  
*Proposed Response*      *Response Status*    **C**  
 ACCEPT.

**Cl 33**      **SC 33.5.5**      **P 39**      **L 41**      # **638**  
 Brikovskis, Rhett      Lantern Communicatio  
*Comment Type*    **E**      *Comment Status*    **A**  
 Incomplete sentences.  
*SuggestedRemedy*  
 Change to "Although there is no universal standard, the maximum voltages listed in the following paragraph generally apply."  
*Proposed Response*      *Response Status*    **C**  
 ACCEPT.

**Cl 33**      **SC 33.5.5**      **P 39**      **L 49**      # **639**  
 Brikovskis, Rhett      Lantern Communicatio  
*Comment Type*    **E**      *Comment Status*    **R**  
 Text requires no safety hazard, but a "safety hazard" is not defined. What specification or guidelines should be used?  
*SuggestedRemedy*  
 Delete the sentence.  
*Proposed Response*      *Response Status*    **C**  
 REJECT. It is IEEE 802.3 boilerplate

**Cl 33**      **SC 33.5.5**      **P 39**      **L 49**      # **673**  
 NAKAMURA, KARL      CISCO SYSTEMS  
*Comment Type*    **E**      *Comment Status*    **R**  
 33 5.5 39 49  
 Application of the above voltage shall not result in any safety hazard  
 there is a problem here, there may be an issue with a metal box  
*SuggestedRemedy*  
 please remove comment  
*Proposed Response*      *Response Status*    **C**  
 REJECT. IEEE boilerplate

**Cl 33**      **SC 33.5.5**      **P 39**      **L 49**      # **315**  
 Dawe, Piers      Agilent  
*Comment Type*    **E**      *Comment Status*    **A**      *Editorial Required*  
 "any of the above voltage"  
*SuggestedRemedy*  
 voltages  
*Proposed Response*      *Response Status*    **C**  
 ACCEPT.

**Cl 33**      **SC 33.5.8**      **P 40**      **L 12**      # **641**  
 Brikovskis, Rhett      Lantern Communicatio  
*Comment Type*    **E**      *Comment Status*    **A**  
 Labeling requirement isn't clear--requires "power level" in terms of "current drain".  
*SuggestedRemedy*  
 Label with classification number (0-4), or power requirement in watts.  
*Proposed Response*      *Response Status*    **C**  
 ACCEPT IN PRINCIPLE.  
 Specify in mA with nominal voltage.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.5.8 P 40 L 12 # 317  
Dawe, Piers Agilent

Comment Type E Comment Status A  
[Lines 12-14] Punctuation and end of sentence

## SuggestedRemedy

Like in 33.1:

- a) ... ,
- b) ... , and
- c) ... .

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.5.8 P 40 L 13 # 188  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A  
'100Base-TX' is not in capitals.

## SuggestedRemedy

Replace '100Base-TX' with '100BASE-TX'.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.5.8 P 40 L 13 # 316  
Dawe, Piers Agilent

Comment Type E Comment Status A Editorial Required  
"Port type (i.e.100Base-TX," Not i.e. for an example, and it's BASE here.

## SuggestedRemedy

I suggest "Port type (IEEE Std 802.3 AUI/MAU/PHY type, TIA Category or ISO Class)" but better ask an expert.

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

See comment 486

Cl 33 SC 33.5.8 P 40 L 13 # 136  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
missing punctuation

## SuggestedRemedy

put a period at the end of item b) and item c).

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.5.8 P 40 L 13 # 486  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A Editorial Required  
The text in item b has incorrect capitalization

## SuggestedRemedy

Change "100Base-TX" to "100BASE-TX"

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.5.8 P 40 L 13 # 484  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A  
The text: "i.e." ("id est" or "that is") should, I believe, be "e.g." to mean "for example".

## SuggestedRemedy

In item b) change "i.e." to "e.g."

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.5.8 P 40 L 13 # 386  
Booth, Brad Intel

Comment Type E Comment Status A  
Change "100Base-TX" to "100BASE-TX".

## SuggestedRemedy

[as proposed]

Proposed Response Response Status C  
ACCEPT.



# P802.3af Draft 3.0 Comments

Cl 33 SC 33.6 P L # 387  
Booth, Brad Intel

Comment Type E Comment Status A

This section should be written such that the correct information can be inserted into Clauses 22 and 35.

SuggestedRemedy

[as proposed]

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Text for Clause 22 HAS BEEN PROVIDED AS A COMMENT

No changes to clause 35 are required because additional DTE power registers are being defined separately

Cl 33 SC 33.6 P41 L5 # 189  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A

The sentence 'Where no ... be provided.' does not quite make sense.

SuggestedRemedy

Change to :

'Where no physical embodiment of the MII or GMII exists, an equivalent mechanism to access the PSE and PD MII registers is recommended to be provided.'

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.6.1 P41 L # 669  
karam, roger cisco

Comment Type E Comment Status A

allright what is this management stuff for, the phy has nothing to do with this! can anyone explain this to me?

why are we having to pass this info to the phy?

have anyone looked for the cost of crossing the isolation and the headaches?

SuggestedRemedy

remove

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

put "PHY specific" in quotes

Cl 33 SC 33.6.1.1 P41 L17 # 137  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

wrong tense of word

SuggestedRemedy

change 'choose' to 'chosen'.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.6.1.1 P41 L17 # 22  
Brown, Benjamin AMCC

Comment Type E Comment Status A

wrong word

SuggestedRemedy

Replace "choose" with "chosen"

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.6.1.1 P41 L17 # 487  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A

Grammar

SuggestedRemedy

Change "choose" to "chosen"

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.6.1.1 P41 L17 # 190  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A

Typo on 'choose'.

SuggestedRemedy

Change 'choose' to 'chosen'.

Proposed Response Response Status C

ACCEPT.

# P802.3af Draft 3.0 Comments

**Cl 33**      **SC 33.6.1.1**      **P 41**      **L 17**      # **497**  
Gentry, Denton      Dominet Systems

**Comment Type**    **E**      **Comment Status**    **A**

Minor nit: the word "choose" should be "chosen" in the second sentence of 33.6.1.1.

## SuggestedRemedy

Change the second sentence of 33.6.1.1 to read "The default value for each bit of the PSE Control and Status register should be chosen so that..."

**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.6.1.1**      **P 41**      **L 17**      # **319**  
Dawe, Piers      Agilent

**Comment Type**    **E**      **Comment Status**    **A**  
"be choose"

## SuggestedRemedy

be chosen

**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.6.1.1.1**      **P 41**      **L 22**      # **23**  
Brown, Benjamin      AMCC

**Comment Type**    **E**      **Comment Status**    **A**  
wrong number

## SuggestedRemedy

Replace "Bits 11.15:10" with "Bits 11.15:13"

**Proposed Response**      **Response Status**    **C**  
ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.6.1.1.1**      **P 41**      **L 22**      # **496**  
Gentry, Denton      Dominet Systems

**Comment Type**    **E**      **Comment Status**    **A**

The text in section 33.6.1.1.1 states that bits 15:10 are reserved. The heading states that bits 15:13 are reserved. The heading appears to be correct, and the text incorrect.

## SuggestedRemedy

Change the first sentence of 33.6.1.1.1 to read: "Bits 11.15:13 are reserved for future standardization."

**Proposed Response**      **Response Status**    **C**  
ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.6.1.1.1**      **P 41**      **L 22**      # **513**  
Nadeau, Gerard      UNH InterOperability L

**Comment Type**    **E**      **Comment Status**    **A**

Typo? Line 20: Heading says 11.15:13

Line 22: Says 11.15:10

It should be 13 as bits 10, 11 and 12 are defined in the next paragraphs.

## SuggestedRemedy

Change line 22 to read 11.15:13

**Proposed Response**      **Response Status**    **C**  
ACCEPT IN PRINCIPLE.

**Cl 33**      **SC 33.6.1.1.1**      **P 41**      **L 23**      # **138**  
Rasimas, Jennifer G.      Nortel Networks

**Comment Type**    **E**      **Comment Status**    **A**  
incorrect punctuation

## SuggestedRemedy

replace the comma with a period and capitalize the next letter.

**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.6.1.1.1**      **P 41**      **L 24**      # **323**  
Dawe, Piers      Agilent

**Comment Type**    **E**      **Comment Status**    **A**  
"compatibly"

## SuggestedRemedy

compatibility

**Proposed Response**      **Response Status**    **C**  
ACCEPT.

**Cl 33**      **SC 33.6.1.1.1**      **P 41**      **L 24**      # **139**  
Rasimas, Jennifer G.      Nortel Networks

**Comment Type**    **E**      **Comment Status**    **A**  
misspelling

## SuggestedRemedy

compatibility is spelled wrong.

**Proposed Response**      **Response Status**    **C**  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.6.1.1.2 P41 L 26 # 488  
Thompson, Geoffrey O. Nortel

Comment Type E Comment Status A

Grammar: "Over load" doesn't make the filter to either pass through as gramatically correct or to drop out as a label/manangement term.

## SuggestedRemedy

Change "Over load" to "Over\_load" or "OverLoad" or "Over Load"

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.2 P41 L 30 # 140  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
typo

## SuggestedRemedy

change 'that' to 'than'.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.2 P41 L 33 # 321  
Dawe, Piers Agilent

Comment Type E Comment Status A  
"Register PSE"

## SuggestedRemedy

"the PSE control and status register"? Also line 41.

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.6.1.1.3 P41 L 37 # 192  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A  
Typo on second 'a'.

## SuggestedRemedy

Replace 'that a under' with 'that an under'.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.3 P41 L 37 # 141  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing letter, extra spacing

## SuggestedRemedy

change "a under current" to "an undercurrent" on line 37 and also on line 40.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.3 P41 L 37 # 24  
Brown, Benjamin AMCC

Comment Type E Comment Status A  
[lines 37-40] wrong words

## SuggestedRemedy

In 2 instances, replace "a under current" with "an undercurrent"

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.4 P41 L 47 # 322  
Dawe, Piers Agilent

Comment Type E Comment Status A  
"register is only valid when ..."

## SuggestedRemedy

"register is valid only when ..."

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.4 P42 L 7 # 142  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
extra spacing in words

## SuggestedRemedy

remove space between words for "overcurrent" and "undercurrent" in the Description section of lines 7,8,10, and 11.

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.6.1.1.5 P 42 L 46 # 27  
Brown, Benjamin AMCC

Comment Type E Comment Status A  
[lines 46-54] Numerous instances of the same problems

## SuggestedRemedy

For each of 7 instances of encodings 000 through 110, replace:

"When read as 'xxx' bits 11.7:5 indicates" with

"When read as 'xxx', bits 11.7:5 indicate"

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.6.1.1.5 P 42 L 46 # 324  
Dawe, Piers Agilent

Comment Type E Comment Status A Editorial Required  
" ... bits ... indicates ..."

## SuggestedRemedy

indicate (seven times, and three more in 33.6.1.2.2)

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.5 P 42 L 47 # 143  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
wrong tense of word 'indicates'.

## SuggestedRemedy

remove the 's' from 'indicates' in seven locations of this subclause (lines 47, 49, 50, 51, 52, 53).

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.5 P 42 L 51 # 144  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
wrong punctuation

## SuggestedRemedy

change comma after the word 'fault' to a period and capitalize the next letter.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.5 P 42 L 53 # 326  
Dawe, Piers Agilent

Comment Type E Comment Status A  
missing .

## SuggestedRemedy

stop at end of sentence. You might as well merge the one-sentence next paragraph into this paragraph; also in 33.6.1.1.4 above

Proposed Response Response Status C  
ACCEPT IN PRINCIPLE.

Cl 33 SC 33.6.1.1.6 P 43 L 5 # 327  
Dawe, Piers Agilent

Comment Type E Comment Status A  
"current mode" is confusing, in this clause where we have a "measured current method".

SuggestedRemedy  
delete "current".

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.6 P 43 L 6 # 145  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
wrong tense

## SuggestedRemedy

remove the 's' from 'bits' since it's only referring to one bit.

Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.6.1.1.6 P 43 L 6 # 25  
Brown, Benjamin AMCC  
Comment Type E Comment Status A  
improper plural  
SuggestedRemedy  
Replace "Setting bits" with "Setting bit"  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.6 P 43 L 7 # 5  
Jackson, Stephen S. Hatteras Networks  
Comment Type E Comment Status A  
Run-on sentence.  
SuggestedRemedy  
re-phrase for clarity  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.6 P 43 L 7 # 146  
Rasimas, Jennifer G. Nortel Networks  
Comment Type E Comment Status A  
missing comma  
SuggestedRemedy  
put a comma after the phrase "When placed in this test mode".  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.6 P 43 L 8 # 329  
Dawe, Piers Agilent  
Comment Type E Comment Status A Editorial Required  
"remove"  
SuggestedRemedy  
removed  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.6 P 43 L 8 # 147  
Rasimas, Jennifer G. Nortel Networks  
Comment Type E Comment Status A  
wrong tense of word  
SuggestedRemedy  
change 'remove' to removed'.  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.6 P 43 L 8 # 272  
Tom Mathey Independent  
Comment Type E Comment Status A  
Grammar: Word "remove" on line 8 should be "removed"  
SuggestedRemedy  
change  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.7 P 43 L 21 # 149  
Rasimas, Jennifer G. Nortel Networks  
Comment Type E Comment Status A  
missing comma  
SuggestedRemedy  
put a comma after the word 'provided'.  
Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.1.7.8 P 43 L 13 # 148  
Rasimas, Jennifer G. Nortel Networks  
Comment Type E Comment Status A  
[Subclauses 33.6.1.1.7 and 33.6.1.1.8] Alternative is capitalized and it wasn't earlier in the draft. Need to be consistent.  
SuggestedRemedy  
change all capital A's in 'Alternative' to lowercase (10 occurrences on lines 13,14,16,18,19,21,22,23,30,32).  
Proposed Response Response Status C  
ACCEPT.

# P802.3af Draft 3.0 Comments

Cl 33 SC 33.6.1.1.8 P 43 L 32 # 26  
Brown, Benjamin AMCC

Comment Type E Comment Status A

This appears to be a read only bit

SuggestedRemedy

Consider adding a sentence to the effect of: "Writes to this bit are ignored."

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.6.1.1.9 P 43 L 40 # 150  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing word

SuggestedRemedy

add the word 'but' after 'MDI' to make sentence sound better.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.6.1.2 P 43 L 43 # 330  
Dawe, Piers Agilent

Comment Type E Comment Status A

not "and control"

Editorial Required

SuggestedRemedy

delete "and control"

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.6.1.2 P 44 L 12 # 543  
Grow, Robert M. Intel

Comment Type E Comment Status A

Wrong verb.

SuggestedRemedy

Change two occurrences of "sourcing" to "drawing".

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.6.1.2 P 44 L 7 # 498  
Gentry, Denton Dominet Systems

Comment Type E Comment Status A

In Table 33-23, the Description field for bits 12.2:1 contains headings describing the relevant bits as "12.2" and "11.2". This is incorrect, the second bit should be listed as "12.1".

SuggestedRemedy

Change "11.2" to "12.1" in the Description of bits 12.2:1 in Table 33-23.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Cl 33 SC 33.6.1.2.1 P 43 L 49 # 586  
Dallesasse, John Molex

Comment Type E Comment Status A

There is a "." in front of "Reserved" in the sub-clause title.

SuggestedRemedy

Remove the "."

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.6.1.2.1 P 44 L 8 # 151  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

capitalization issue

SuggestedRemedy

Capitalize the 'm' in 'mode' (lines 8,9,10) to maintain consistency throughout the document.

Proposed Response Response Status C

ACCEPT.

Cl 33 SC 33.6.1.2.2 P 44 L 19 # 152  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A

missing commas

SuggestedRemedy

put a comma after the bit sequence in quotes on lines 19,20, and 21

(i.e. so it reads "When read as 'xx', bits ....")

Proposed Response Response Status C

ACCEPT.

P802.3af Draft 3.0 Comments

Cl 33 SC 33.6.1.2.2 P 44 L 19 # 153  
Rasimas, Jennifer G. Nortel Networks

Comment Type E Comment Status A  
wrong tense of word 'indicates'

SuggestedRemedy  
remove the 's' from 'indicates' on lines 19,20,and 21 (3 occurrences).

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.2.2 P 44 L 19 # 194  
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status A  
Three typos on 'indicates'.

SuggestedRemedy  
Replace three instances of 'indicates' with 'indicate'.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.6.1.2.3 P 44 L 27 # 438  
Darshan, Yair PowerDsine

Comment Type E Comment Status A  
Where is table 33-10? I assume it is Table 12?

SuggestedRemedy  
Change "Table 33-10" to Table 12.  
In addition, the same change is required at line 28.

Proposed Response Response Status C  
ACCEPT.

Cl 33 SC 33.7 P 44 L 56 # 58  
McCormack, Michael 3Com

Comment Type E Comment Status A PICS  
There are no PICS

SuggestedRemedy  
Add PICS for each requirement and option.

Proposed Response Response Status C  
ACCEPT.