Cl **33**　　*SC* **33.8.2.1**　　　　*P* **134**　　*L* **20**　　# 1

Jones, Chad　　　　　　　　　Cisco

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

"Contact point for enquiries about the PICS" - an approved maintenance comment changes enquiries to inquiries

SuggestedRemedy

change enquiries to inquiries

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **79**　　*SC* **79.5.2.1**　　　　*P* **172**　　*L* **20**　　# 2

Jones, Chad　　　　　　　　　Cisco

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

"Contact point for enquiries about the PICS" - an approved maintenance comment changes enquiries to inquiries

SuggestedRemedy

change enquiries to inquiries

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**　　*SC* **0**　　　　*P* **0**　　*L* **0**　　# 10

Yseboodt, Lennart　　　　　　　Philips

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

There are still lingering occurences or "pair to pair" or other variants which need changing to "pair-to-pair".

SuggestedRemedy

Replace on
- page 100, line 50
- page 101, line 5
- page 105, line 12

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**　　*SC* **33.1.1**　　　　*P* **20**　　*L* **5**　　# 11

Yseboodt, Lennart　　　　　　　Philips

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

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

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

SuggestedRemedy

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

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 159.

EZ

Cl **33**　　*SC* **33.1.4**　　　　*P* **22**　　*L* **17**　　# 12

Yseboodt, Lennart　　　　　　　Philips

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

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

SuggestedRemedy

"System power parameters vs system Type"

Proposed Response　　　*Response Status* **W**

PROPOSED ACCEPT.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected　　RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **12**　　　Page 1 of 26
7/9/2015 5:15:00 PM

Cl **33** *SC* **33.1.4** *P* **22** *L* **21** # 13

Yseboodt, Lennart   Philips

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

Icable, A is not bold

SuggestedRemedy

Icable, A in bold text

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.1.4.1** *P* **23** *L* **15** # 14

Yseboodt, Lennart   Philips

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

"with the additional requirement that channel DC loop resistance shall be 25ohm or less."
no space between 25Ohm

SuggestedRemedy

25 Ohm (add space)

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.4.6** *P* **42** *L* **37** # 16

Yseboodt, Lennart   Philips

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

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

SuggestedRemedy

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

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7** *P* **67** *L* **53** # 17

Yseboodt, Lennart   Philips

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

Bottom line of Table 33-11 is not bold everywhere

SuggestedRemedy

Make line bold.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7** *P* **68** *L* **45** # 18

Yseboodt, Lennart   Philips

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

Table 33-11, item 17b, additional information, Pclass 'class' not in subscript and no capital
C.

SuggestedRemedy

Replace by P_Class.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33** *SC* **33.2.7.4a** *P* **72** *L* **7** # 19

Yseboodt, Lennart   Philips

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

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

SuggestedRemedy

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

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment #232.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general *Comment ID* **19** Page 2 of 26
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn 7/9/2015 5:15:00 PM
SORT ORDER: Comment ID

Cl **33**   *SC* **33.2.7.4a**   *P* **72**   *L* **9**   # 20
Yseboodt, Lennart   Philips

Comment Type   **E**   *Comment Status*   **D**   *Editorial*
"Type 3 and Type 4 PSEs operating over 4-pair are subject to..."
4-pair is not used in rest of document

SuggestedRemedy
use four-pair

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

EZ

Cl **33**   *SC* **33.2.7.4a**   *P* **72**   *L* **10**   # 21
Yseboodt, Lennart   Philips

Comment Type   **E**   *Comment Status*   **D**   *Editorial*
"The contribution of PSE PI pair to pair effective resistance unbalance(PSE_P2PRunb) to
the whole effective..."

Missing space between unbalance and (

SuggestedRemedy
Replace by
"The contribution of PSE PI pair to pair effective resistance unbalance (PSE_P2PRunb) to
the whole effective..."

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

EZ

Cl **33**   *SC* **33.2.7.4a**   *P* **72**   *L* **11**   # 22
Yseboodt, Lennart   Philips

Comment Type   **E**   *Comment Status*   **D**   *Editorial*
"... to the whole effective
 system end to end resistance/current unbalance (E2EP2PRunb),..."

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

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

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

EZ

Cl **33**   *SC* **33.2.7.4a**   *P* **72**   *L* **19**   # 23
Yseboodt, Lennart   Philips

Comment Type   **E**   *Comment Status*   **D**   *Editorial*
Space missing between number and 'ohm' symbol. 3 occurences.

SuggestedRemedy
Add space.

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

EZ

Cl **33**   *SC* **33.2.7.4a**   *P* **72**   *L* **21**   # 24
Yseboodt, Lennart   Philips

Comment Type   **E**   *Comment Status*   **D**   *Editorial*
Annex 33B is for autoclass not P2P unbalance

SuggestedRemedy
Use Annex 33A.

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Comment ID* **24**   Page 3 of 26
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   7/9/2015 5:15:00 PM
SORT ORDER: Comment ID

Cl **33**   *SC* **33.2.7.4a**   *P* **72**   *L* **27**   # 25
Yseboodt, Lennart   Philips

Comment Type **E**   *Comment Status* **D**   *Editorial*
    Ohm sign after formula does not match style of other formulas.

SuggestedRemedy
    Ohm sign smaller and bottom right.

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

    EZ

Cl **33**   *SC* **33.2.7.4a**   *P* **72**   *L* **33**   # 26
Yseboodt, Lennart   Philips

Comment Type **E**   *Comment Status* **D**   *Editorial*
    Rpair_min is italic

SuggestedRemedy
    Change Pair_min to non-italic

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

    EZ

Cl **33**   *SC* **33.2.7.6**   *P* **74**   *L* **6**   # 27
Yseboodt, Lennart   Philips

Comment Type **E**   *Comment Status* **D**   *Editorial*
    Remove space at end of scentence
    Original text: "... PSE may remove power from that pair set . The cumulative duration of
    TCUT-2P is measured with a sliding window of at least 1 second width."

SuggestedRemedy
    "... PSE may remove power from that pair set. The cumulative duration of TCUT-2P is
    measured with a sliding window of at least 1 second width."

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

    EZ

Cl **33**   *SC* **33.2.7.7**   *P* **74**   *L* **16**   # 28
Yseboodt, Lennart   Philips

Comment Type **E**   *Comment Status* **D**   *Editorial*
    a pai set is not correct

SuggestedRemedy
    'a pai set' should be 'a pair set'

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

    "a pairset"

    EZ

Cl **33**   *SC* **33.2.7.7**   *P* **75**   *L* **1**   # 29
Yseboodt, Lennart   Philips

Comment Type **E**   *Comment Status* **D**   *Editorial*
    The definitions of I_PSEUT-2P and I_PSELT-2P make use of
    variables that do not exist.

SuggestedRemedy
    Change Tcutmin-2P to T_CUT-2P min
    Change Tcutmax-2P to T_CUT-2P max
    Change Ilimmin-2P to I_LIM-2P min

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

    EZ

Cl **33**   *SC* **33.2.7.7**   *P* **75**   *L* **46**   # 30
Yseboodt, Lennart   Philips

Comment Type **E**   *Comment Status* **D**   *Editorial*
    "A PSE in the POWER_ON state may remove power from a pair set without regard to T lim
    when the pair set
    voltage no longer meets the V port_PSE-2P specification."
    Tlim is lowercase letters, should be uppercase subscript.

SuggestedRemedy
    T_LIM

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

    EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Comment ID* **30**   Page 4 of 26
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   7/9/2015 5:15:00 PM
SORT ORDER: Comment ID

Cl **33**   *SC* **33.2.7.8**   *P* **75**   *L* **54**   # 31
Yseboodt, Lennart   Philips

Comment Type **E**   *Comment Status* **D**   *Editorial*
Remove space at end of scentence.
Original text: "The specification for TOff in Table 33-11 shall apply to the discharge time
from VPort_PSE-2P to VOff of a pair set with a test resistor of 320 k attached to that pair
set . In addition, it is recommended that the ..."

SuggestedRemedy
"The specification for TOff in Table 33-11 shall apply to the discharge time from
VPort_PSE-2P to VOff of a pair set with a test resistor of 320 k attached to that pair set. In
addition, it is recommended that the ..."

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

EZ

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

Comment Type **E**   *Comment Status* **D**   *Editorial*
"P Class is the class power defined in 33.2.6 and Equation (33-3), or ..."

SuggestedRemedy
Parentheses around Equation number are unneeded. Remove.

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

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

EZ

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

Comment Type **E**   *Comment Status* **D**   *Editorial*
4-pair capable is not consistent

SuggestedRemedy
change to 'four-pair'

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

EZ

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

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

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

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

EZ

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

Comment Type **E**   *Comment Status* **D**   *Editorial*
Figure caption is missing

SuggestedRemedy
"Figure 33-16 - PD state diagram"

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Comment ID* **36**   Page 5 of 26
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   7/9/2015 5:15:01 PM
SORT ORDER: Comment ID

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

Comment Type **E**   *Comment Status* **D**   *Editorial*
"Type 3 PDs operating with a maximum power draw
corresponding to class 0-3 respond to 1-Event classification by returning a Class signature
0, 1, 2, or 3 in
accordance with the maximum power draw, PClass_PD."

PClass_PD not in subscript.

SuggestedRemedy
change 'P_Class_PD' to sub_script

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

EZ

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

Comment Type **E**   *Comment Status* **D**   *Editorial*
V_PP is in capital letters PP

SuggestedRemedy
change V_PP to V_pp

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

EZ

Cl **33**   *SC* **33.2.6**   *P* **59**   *L* **15**   # 42
Yseboodt, Lennart   Philips

Comment Type **E**   *Comment Status* **D**   *Editorial*
Line weight in Table 33-8-PSE classification configurations is inconsistent

SuggestedRemedy
Make this in the same way as in the related table 33-15a (page 89)

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

This may be due to revision tracking.

Kousi and Lennart to discuss.

EZ

Cl **33**   *SC* **33.2.7**   *P* **66**   *L* **33**   # 44
Yseboodt, Lennart   Philips

Comment Type **E**   *Comment Status* **D**   *Editorial*
Add a reference to the new section on Tpud. [Table 33-7, Item 1b].

SuggestedRemedy
Change additional information of item 1b to read "See 33.2.7.TBD, 33.2.7.5"

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

EZ

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

Comment Type **E**   *Comment Status* **D**   *Editorial*
Table 33-18, item 11,
the a) and b) are not needed and not referred to and inconsistent with the other tables.

SuggestedRemedy
Remove a) and b).

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Comment ID* **45**   Page 6 of 26
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   7/9/2015 5:15:01 PM
SORT ORDER: Comment ID

Cl **33**   *SC* **33.4.9**   *P* **110**   *L* **32**   # 47
Yseboodt, Lennart   Philips

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

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

 Unbearable suspense. Where are they specified?!

SuggestedRemedy

Proposed Response   *Response Status* **W**

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

add "33.1.4.1" after "in"

EZ

Cl **33**   *SC* **33.4.9.1.3**   *P* **114**   *L* **50**   # 48
Yseboodt, Lennart   Philips

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

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

SuggestedRemedy

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

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.4.9.1.4c**   *P* **115**   *L* **34**   # 49
Yseboodt, Lennart   Philips

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

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

SuggestedRemedy

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

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.5.1.1**   *P* **118**   *L* **10**   # 50
Yseboodt, Lennart   Philips

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

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

SuggestedRemedy

change to four-pair (two times in table)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.5.1.1.1a**   *P* **118**   *L* **42**   # 52
Yseboodt, Lennart   Philips

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

4-pair not consistent

SuggestedRemedy

change to four-pair (three times)

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **52**   Page 7 of 26
7/9/2015 5:15:01 PM

Cl **33**   *SC* **33.6.3.4**   *P* **127**   *L* **53**   # 53

Yseboodt, Lennart   Philips

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

Table 33-23 "Attribute to state diagram variable cross-reference"
is not nicely separated over the pages.

SuggestedRemedy

Move the whole table to the next page.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33A.4**   *P* **153**   *L* **13**   # 54

Yseboodt, Lennart   Philips

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

Space between 3 and %.

SuggestedRemedy

Make 3 % => 3%.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33A.4**   *P* **154**   *L* **3**   # 55

Yseboodt, Lennart   Philips

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

dimensions should have spaces between number and dimension.
Except procent.

SuggestedRemedy

Change 100m to 100 m.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Editor to consult style guide to make sure this is correct and then act accordingly.

There are other comments along this same line.

EZ

Cl **33**   *SC* **33.2.2**   *P* **28**   *L* **28**   # 56

Yseboodt, Lennart   Philips

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

Comment #28 Draft 1.0 not implemented.

SuggestedRemedy

Implement #28/D1.0.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

This fixes the crooked line in figure Figure 33-5b.

EZ

Cl **33**   *SC* **33.2.7.4a**   *P* **71**   *L* **51**   # 58

Yseboodt, Lennart   Philips

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

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

Wrong Equation reference.

SuggestedRemedy

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

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **58**

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7/9/2015 5:15:01 PM

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

Comment Type **ER**   *Comment Status* **D**   *Editorial*
The paragraph on line 8 through 12 uses the construct x_sub_y as literal text.
The intention was for 'y' to become subscript.

SuggestedRemedy
Implement subscripts.

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

EZ

Cl **33**   *SC* **33.2.6**   *P* **59**   *L* **13**   # 61
Yseboodt, Lennart   Philips

Comment Type **ER**   *Comment Status* **D**   *Editorial*
Comment #42 Draft 1.0 not implemented.

SuggestedRemedy
Implement #42/D1.0.

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

EZ

Kousi and Lennart to discuss.

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

Comment Type **ER**   *Comment Status* **D**   *Editorial*
Table 33-18, item 11 defines V_On and V_Off.
This is a clash with identically named V_Off from Table 33-11, Item 16.
These Voffs do something totally different.

SuggestedRemedy
Rename Table 33-18 V_On to V_On_PD.
Rename Table 33-18 V_Off to V_Off_PD.
Change all references to the PD V_Off and PD V_On to the new V_Off_PD and V_On_PD.

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

EZ

Cl **33**   *SC* **33.3.7.4**   *P* **97**   *L* **5**   # 64
Yseboodt, Lennart   Philips

Comment Type **ER**   *Comment Status* **D**   *Editorial*
"At any static voltage at the PI, c lass 6 or class 8 PDs in operating condition, the peak power shall not exceed
 P Class at the PSE PI for more than T CUT min, as defined in Table 33-11 and 5% duty cycle."

 Bad phrasing + extra space in 'class'.

SuggestedRemedy
"For class 6 and class 8 PDs in any operating condition with any static voltage at the PI, the peak power shall not exceed
 P_Class at the PSE PI for more than T_CUT min, as defined in Table 33-11 and with 5% duty cycle."

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

EZ

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

Comment Type **ER**   *Comment Status* **D**   *Editorial*
"... shall not exceed Icont-2Punb as specified ..."

SuggestedRemedy
"... shall not exceed I_con-2P-unb as specified ..."

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

OBE by comment 218.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **65**   Page 9 of 26
7/9/2015 5:15:01 PM

Cl **33**   *SC* **33B**   *P* **155**   *L* **1**   # 66
Yseboodt, Lennart   Philips

Comment Type **ER**   *Comment Status* **D**   *Editorial*
Change bars are missing.

SuggestedRemedy
Add change bars here, and also in the other Annexes where they are missing.

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

EZ

Cl **79**   *SC* **79.3.2.5**   *P* **162**   *L* **37**   # 67
Yseboodt, Lennart   Philips

Comment Type **ER**   *Comment Status* **D**   *Editorial*
"Poweris the effective..."
Space missing.

SuggestedRemedy
"Power is the effective..."

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

EZ

Cl **79**   *SC* **79.3.2.6b**   *P* **164**   *L* **2**   # 68
Yseboodt, Lennart   Philips

Comment Type **ER**   *Comment Status* **D**   *Editorial*
Comment D1.0/#123 not implemented.

SuggestedRemedy
Implement D1.0/#123.

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

EZ

Cl **33**   *SC* **33.1.4.1**   *P* **24**   *L* **12**   # 70
Yseboodt, Lennart   Philips

Comment Type **T**   *Comment Status* **D**   *Cabling*
"Type 3 operation requires Class D or better cabling as specified in ISO/IEC 11801:2002"
Does this not also apply to Type 4 ?

SuggestedRemedy
"Type 3 and Type 4 operation requires Class D or better cabling as specified in ISO/IEC 11801:2002"

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

OBE by comment 161.

EZ

Cl **33**   *SC* **33.2.7**   *P* **68**   *L* **2**   # 73
Yseboodt, Lennart   Philips

Comment Type **T**   *Comment Status* **D**   *PSE Power*
Items 13, 21, 23 and 24 only list Type 1 and 2.
These all seem valid also for the new Types.

SuggestedRemedy
Change PSE Type to 'All'.

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **73**   Page 10 of 26
7/9/2015 5:15:02 PM

Cl **33**   *SC* **33.2.7**   *P* **69**   *L* **16**   # 74

Yseboodt, Lennart   Philips

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

Table 33-11, item 21.
Tdbo is only defined for Type 1,2.
It remains valid also with Type 3 and Type 4 endspans.

SuggestedRemedy

add Type 3,4 to this row.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment # 73

EZ

Cl **33**   *SC* **33.2.7.4**   *P* **71**   *L* **26**   # 75

Yseboodt, Lennart   Philips

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

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

 The shall statement is unclear.

SuggestedRemedy

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

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.3.7.4**   *P* **96**   *L* **53**   # 78

Yseboodt, Lennart   Philips

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

"V Overload is the PD PI voltage when the PD is drawing the permissible P Peak_PD."
Voverload is missing -2P.

SuggestedRemedy

Change 'Voverload' to 'Voverload-2P'.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.3.7.4**   *P* **97**   *L* **2**   # 79

Yseboodt, Lennart   Philips

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

"At any static voltage at the PI, and any PD operating condition, with the exception of class 6 or class 8 PDs,
 the peak power shall not exceed P Class_PD max for more than T CUT min, as defined in Table 33-11..."
TCUT min is missing -2P suffix. (Line 2)

"At any static voltage at the PI, c lass 6 or class 8 PDs in operating condition, the peak power shall not exceed
 P Class at the PSE PI for more than T CUT min, as defined in Table 33-11..."
TCUT min is missing -2P suffix. (Line 6)

SuggestedRemedy

Change 'TCUT min' to 'TCUT-2P min'.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **79**   Page 11 of 26
7/9/2015 5:15:02 PM

Cl **33**   *SC* **33.3.7.5**   *P* **99**   *L* **15**   # 81
Yseboodt, Lennart   Philips

Comment Type **T**   *Comment Status* **D**   *Editorial*
    T_CUT min is not a defined parameter

SuggestedRemedy
    Change to T_CUT-2P min

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

    EZ

Cl **33**   *SC* **33.3.7.5**   *P* **99**   *L* **19**   # 82
Yseboodt, Lennart   Philips

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

SuggestedRemedy
    Change TLIM to TLIM-2P.

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

    EZ

Cl **33**   *SC* **33.2.3**   *P* **32**   *L* **12**   # 83
Yseboodt, Lennart   Philips

Comment Type **TR**   *Comment Status* **D**   *Editorial*
    In Table 33-2, header row, "Alternative B" is wrong.

SuggestedRemedy
    Replace by "Alternative B(S)"

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

    OBE by comment 162.

    EZ

Cl **33**   *SC* **33.2.7.4**   *P* **71**   *L* **40**   # 86
Yseboodt, Lennart   Philips

Comment Type **TR**   *Comment Status* **D**   *Editorial*
    "Rchan is the channel loop resistance as defined in 33.1.4; this parameter has a worst-
    case value of R Ch , defined in Table 33-1"

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

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

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

    EZ

Cl **33**   *SC* **33.2.6**   *P* **58**   *L* **18**   # 96
Yseboodt, Lennart   Philips

Comment Type **TR**   *Comment Status* **D**   *PSE Classification*
    Table 33-7.
    Comment #101 implemented incorrectly.

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

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

    Comment 101 from D1.0 clearly said:

    "Don't implement suggested remedy.

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

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

    EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **96**

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7/9/2015 5:15:02 PM

Cl **33**   *SC* **33.3.7**   *P* **95**   *L* **20**   # 100

Yseboodt, Lennart   Philips

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

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

SuggestedRemedy

Set PD Type to 'All'.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **79**   *SC* **79.3.2.4**   *P* **161**   *L* **2**   # 103

Yseboodt, Lennart   Philips

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

Table 79-4 does not allow a Type 3/4 PSE/PD to identify itself.
We should define how these devices fill out the fields.

SuggestedRemedy

Add to section 79.3.2.4
"A Type 3 or Type 4 device shall set the bits in 'power type' to (TBD)".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.3.5**   *P* **88**   *L* **36**   # 110

Johnson, Peter   Sifos Technologies

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

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

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

SuggestedRemedy

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

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.2.7**   *P* **66**   *L* **51**   # 112

Johnson, Peter   Sifos Technologies

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

Table 33-11 Item 4:

All 3 versions of Icon-2P specifications appear to need to reference paragraph 33.2.7.4.

SuggestedRemedy

Add 'See 33.2.7.4' to Type 3,4 4-pair mode.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.2.7.7**   *P* **74**   *L* **16**   # 118

Bullock, Chris   Cisco Systems

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

Pair set is missing an 'r'.

SuggestedRemedy

Change "a pai set" to "a pair set"

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment 28

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **118**   Page 13 of 26
7/9/2015 5:15:02 PM

Cl **33**   *SC* **33.2.3**   *P* **32**   *L* **5**   # 120
Bullock, Chris   Cisco Systems

Comment Type **ER**   *Comment Status* **D**   *Editorial*
A PSE device may provide power via one or both the of two valid four-wire connections.

The words "the of" should be "of the"

SuggestedRemedy
Replace:
A PSE device may provide power via one or both the of two valid four-wire connections.

With:
A PSE device may provide power via one or both of the two valid four-wire connections.

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

EZ

Cl **33**   *SC* **33.2.5.5**   *P* **56**   *L* **51**   # 121
Bullock, Chris   Cisco Systems

Comment Type **ER**   *Comment Status* **D**   *Editorial*
Reference to table is wrong. Ropen is defined in Table 33-6, not Table 33-4.

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

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

OBE by comment 204.

EZ

Cl **33**   *SC* **33.2.7.4a**   *P* **72**   *L* **7**   # 122
Bullock, Chris   Cisco Systems

Comment Type **ER**   *Comment Status* **D**   *Editorial*
"PSE PI Pair-to-Ppair-to-pairair" should be "PSE PI Pair-to-pair"

SuggestedRemedy
Change "PSE PI Pair-to-Ppair-to-pairair" to "PSE PI Pair-to-pair"

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

OBE by comment 232.

EZ

Cl **33**   *SC* **33.2.5.1**   *P* **55**   *L* **8**   # 123
Bullock, Chris   Cisco Systems

Comment Type **TR**   *Comment Status* **D**   *Connection Check*
Table 33-4:
Voc and Isc should also apply to connection check state.
For Item 1 and 2, change Additional information column to include Connection Check.

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

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **123**   Page 14 of 26
7/9/2015 5:15:02 PM

Cl **33**   *SC* **33.2.7**   *P* **68**   *L* **3439**   # 130
Darshan, Yair   Microsemi

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

This comment was accepted in D1.0 and was not executed in D1.1
Table 33-11 item 17, additional information column, line 12
The text: "The pair set with highest current" is not clear since we are looking at two pairs
of the same polarity and we care of the pair with the highest current and not the pair-set
(which is the positive and negative pairs of a pair set) with the highest current.

SuggestedRemedy

Change to "The pair with highest current" in two locations

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

This is from comment 347 D1.0

Cl **33**   *SC* **Annex 33C**   *P* **155**   *L* **13**   # 131
Darshan, Yair   Microsemi

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

In June 2015 comment cycle D1.0 we have accepted comment #360 to adopd pages 3 and
4 of darshan_01_0615.pdf. Page 4 (Annex C) was not inserted in D1.1.

SuggestedRemedy

To insert page 4 from
http://www.ieee802.org/3/bt/public/jun15/darshan_01_0615_rev_013a.pdf to PAGE 55 after
Annex B.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.2.7.7**   *P* **74**   *L* **16**   # 144
Schindler, Fred   Seen Simply

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

Typo "pai".

SuggestedRemedy

Replace with "pair".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment 28

EZ

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

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

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

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

SuggestedRemedy

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

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment 35.

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **146**   Page 15 of 26
7/9/2015 5:15:02 PM

Cl **33**   *SC* **33.3.7.5**   *P* **98**   *L* **17**   # 149
Schindler, Fred   Seen Simply

Comment Type **ER**   *Comment Status* **D**   *PD Power*
Draft text,
"Class 6 or Class 8 PDs, shall operate below the PD extended template defined in Figure 33-18."

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

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

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

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

EZ

Cl **33**   *SC* **33.3.8**   *P* **102**   *L* **31**   # 151
Schindler, Fred   Seen Simply

Comment Type **ER**   *Comment Status* **D**   *Editorial*
The legacy table 33-19 had Iport_MPS removed and then added to Table 33-19a. The note below Table 33-19 references the current moved to Table 33-19a.

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

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

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

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

EZ

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

Comment Type **ER**   *Comment Status* **D**   *Editorial*
Fix typo "variable 4P-ID"

SuggestedRemedy
Replace with "variable PD 4P-ID".

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

EZ

Cl **33**   *SC* **33.3.8**   *P* **102**   *L* **41**   # 158
Balasubramanian, Koussalya   self

Comment Type **E**   *Comment Status* **D**   *Editorial*
The note below Table 33-19 referencing Iport_mps doesnt belong there as Table 33-19 doesnt contain Iport_mps any more.

SuggestedRemedy
Move the note below Table 33-19a

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

OBE by comment 151.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID   *Comment ID* **158**   Page 16 of 26
7/9/2015 5:15:03 PM

Cl **33**   *SC* **33.1.1**   *P*   *L*   # 159
Balasubramanian, Koussalya   self

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

The last statement "and derating of the cabling maximum ambient operating temperature" when read along with the full sentence, doesnt imply clearly that this applies to both Type 2 and 3.

SuggestedRemedy

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

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

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.1.4.1**   *P* **23**   *L* **24**   # 161
Balasubramanian, Koussalya   self

Comment Type **ER**   *Comment Status* **D**   *Cabling*

Type 4 details are missing.

SuggestedRemedy

Add an editor's note to include Type 4 details.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.2.3**   *P* **32**   *L* **10**   # 162
Balasubramanian, Koussalya   self

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

Column 4 title of Table 33-2 is not in sync with Table 33-2a

SuggestedRemedy

Change title of 4th column in Table 33-2 to Alternative B(S) to be in sync with Table 33-2a

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.3.7.4**   *P* **97**   *L* **45**   # 164
Balasubramanian, Koussalya   self

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

Comment #370 on D1.0 changes original text which uses Equation 33-12 only for Class 4 to class 0 through 4. I believe this is not the intention.

SuggestedRemedy

Go back to original text.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Remove "0 through" from line 45.

EZ

Cl **00**   *SC* **0**   *P*   *L*   # 166
Walker, Dylan   Cisco

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

Can we please reconsider the use of "pair set"?

SuggestedRemedy

Replace all instances of "pair set" with "pairset" or "pair-set", whichever the TF prefers.

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

The task force would like to use "pairset".

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Comment ID* **166**   Page 17 of 26
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   7/9/2015 5:15:03 PM
SORT ORDER: Comment ID

Cl **33**   *SC* **33**   *P* **19**   *L* **1**   # 167
Walker, Dylan   Cisco

Comment Type **ER**   *Comment Status* **D**   *Editorial*
Section header wound up with "Autoclass" inserted within "Dependent" somehow.

"33. Data Terminal Equipment (DTE) Power via Media DepAutoclassendent Interface (MDI)"

SuggestedRemedy
Replace with "33. Data Terminal Equipment (DTE) Power via Media Dependent Interface (MDI)"

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

EZ

Cl **33**   *SC* **33.1.1**   *P* **20**   *L* **5**   # 168
Walker, Dylan   Cisco

Comment Type **ER**   *Comment Status* **D**   *Editorial*
This sentence is a bit confusing.

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

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

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

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

OBE by comment # 159.

EZ

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

Comment Type **E**   *Comment Status* **D**   *Editorial*
There is a change bar that I cannot trace back to 2012.

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

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

It may be because we inserted something after this sentence.

EZ

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

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

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

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **170**   Page 18 of 26
7/9/2015 5:15:03 PM

Cl **33**   *SC* **33.2.2**   *P* **25**   *L* **40**   # 171
Walker, Dylan   Cisco

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

Misplaced comma in "A Midspan PSE that results in a link that can support 1000BASE-T, and 10GBASE-T operation and optionally support 10BASE-T and 100BASE-TX operation (see Figure 33–7)."

SuggestedRemedy

Replace with "A Midspan PSE that results in a link that can support 1000BASE-T and 10GBASE-T operation, and optionally support 10BASE-T and 100BASE-TX operation (see Figure 33–7)."

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.2.3**   *P* **32**   *L* **12**   # 173
Walker, Dylan   Cisco

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

Table 33-2 "Alternative B" column header does not match Table 33-2a.

SuggestedRemedy

Update Table 33-2 "Alternative B" column to "Alternative B(S)".

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

OBE by comment 162.

EZ

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

Comment Type **ER**   *Comment Status* **D**   *Connection Check*

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

SuggestedRemedy

Replace:

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

With:

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

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

Cl **33**   *SC* **33.2.6**   *P* **57**   *L* **37**   # 180
Walker, Dylan   Cisco

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

Move the DLL acronym to directly after the full name.

SuggestedRemedy

Replace:

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

With:

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

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID   *Comment ID* **180**   Page 19 of 26
7/9/2015 5:15:03 PM

Cl **33** *SC* **33.2.7.4** *P* **71** *L* **45** # 184
Walker, Dylan Cisco

Comment Type **ER** *Comment Status* **D** *Editorial*
K is not italicized.

SuggestedRemedy
Italicize K to match the other variable names.

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

EZ

Cl **33** *SC* **33.2.7.4a** *P* **72** *L* **7** # 185
Walker, Dylan Cisco

Comment Type **ER** *Comment Status* **D** *Editorial*
33.2.7.4a section heading has a duplicate "pair-to-pair" randomly inserted.

SuggestedRemedy
Replace:

"33.2.7.4a PSE PI Pair-to-Ppair-to-pairair resistance and current unbalance"

With:

"33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"

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

OBE by comment 232

EZ

Cl **33** *SC* **33.2.7.7** *P* **74** *L* **16** # 186
Walker, Dylan Cisco

Comment Type **ER** *Comment Status* **D** *Editorial*
Misspelling.

SuggestedRemedy
Replace:

"Power shall be removed from a pai set of a PSE before the pair set current exceeds the
"PSE upperbound template" in Figure 33–14."

With:

"Power shall be removed from a pairset of a PSE before the pair set current exceeds the
"PSE upperbound template" in Figure 33–14."

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

OBE by comment 28

EZ

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

Comment Type **TR** *Comment Status* **D** *PSE MPS*
The following sentence is redundant and should be removed according to the Editor's Note
on page 66, line 9.

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

SuggestedRemedy
Delete the sentence.

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **187**

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7/9/2015 5:15:03 PM

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

Comment Type **ER**   *Comment Status* **D**   *Editorial*
Table 33-12 pertains to AC MPS, not DC MPS.

SuggestedRemedy
Relocate Table 33-12 to within Section 33.2.9.1.1.

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

EZ

Cl **33**   *SC* **33.5.1.1**   *P* **118**   *L* **19**   # 193
Walker, Dylan   Cisco

Comment Type **TR**   *Comment Status* **D**   *Management*
Table 33-21.

The value of "11" for bits 11.3:2 has not been updated to reflect PSE support for both Alternative A and Alternative B.

SuggestedRemedy
Under Description for bits 11.3:2:

Replace: "1 1 = Reserved"

With: "1 1 = PSE pinout Alternative A and B"

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

EZ

Cl **33**   *SC* **33.5.1.1.4**   *P* **119**   *L* **40**   # 195
Walker, Dylan   Cisco

Comment Type **ER**   *Comment Status* **D**   *Management*
Grammar. Also, "will never be assigned" was proven false by this Task Force for value "11", so suggest deleting it.

SuggestedRemedy
Change:

"The combinations '00' for bits 11.3:2 are reserved and will never
be assigned."

To:

"The combination '00' for bits 11.3:2 is reserved."

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

EZ

Cl **1**   *SC* **1.4**   *P* **18**   *L* **17**   # 198
Dwelley, David   Linear Technology

Comment Type **ER**   *Comment Status* **D**
I'm still not comfortable with "pair set". "Pair" and "set" are commonly used in the 802.3 standard, and combining them this way is non-unique and subject to search-and-replace errors. The original motion in September 2014 called out "pair-set", but that isn't much better. I prefer the term "pairset" - it's a new, unique word and isn't likely to be mistaken for something else. A search of 802.3-2012 finds zero instances of "pairset".

SuggestedRemedy
Change "pair set" to "pairset" throughout the draft.

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

OBE by comment # 166.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID   *Comment ID* **198**   Page 21 of 26
7/9/2015 5:15:04 PM

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

Comment Type **E**   *Comment Status* **D**   *Editorial*
"See section 33.2.7.12 for complete details."

Details in 33.2.7.12 are not anywhere near complete on this subject

SuggestedRemedy
Remove "complete"

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

EZ

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

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

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

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

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

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

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

Do no implement suggested remedy.

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

EZ

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

Comment Type **T**   *Comment Status* **D**   *Editorial*
If a PSE performing detection using Alternative B detects an open circuit (see 33.2.5.5) on the link section, then..."

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

SuggestedRemedy
Change "link section" to "pair set"

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

Change "link section to "pairset".

EZ

Cl **33**   *SC* **33.2.9.1.2**   *P* **78**   *L* **23**   # 211
Dwelley, David   Linear Technology

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

Redundant text in light of page 66 line 7.

SuggestedRemedy
Remove sentence.

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

OBE by comment 187.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **211**   Page 22 of 26
7/9/2015 5:15:04 PM

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

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

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

Missing "shall"

SuggestedRemedy

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

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

EZ

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

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

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

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

SuggestedRemedy

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

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

EZ

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

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

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

Awkward phrasing.

SuggestedRemedy

Change to: "All Class 5 and higher PDs shall not exceed Icont_2p_unb (Table 33-11, item 4a) on either pair set when tested according to 33.3.7.10.1."

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

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

EZ

Cl **33**   *SC* **33.2.7.4a**   *P* **72**   *L* **7**   # 232
Dwelley, David   Linear Technology

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

Typo: "Pair-to-Ppair-to-pairair"

SuggestedRemedy

Fix

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Comment ID* **232**   Page 23 of 26
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   7/9/2015 5:15:04 PM
SORT ORDER: Comment ID

Cl **33**　　*SC* **33.2.7.8**　　　*P* **76**　　*L* **3**　　# 234
Dwelley, David　　　　　　　Linear Technology

Comment Type **T**　　*Comment Status* **D**　　　　　　*Editorial*
"...as long as the average voltage across the pair set is VOff."

Voff is a range.

SuggestedRemedy
"...as long as the average voltage across the pair set is the range of VOff."

Alternate fix: "...as long as the average voltage across the pair set is below VOff_max."

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

Replace with:

 "...as long as the average voltage across the pair set is below VOff max."

EZ

Cl **33**　　*SC* **33.2.6**　　　*P* **59**　　*L* **8**　　# 237
Beia, Christian　　　　　　　STMicroelectronics

Comment Type **E**　　*Comment Status* **D**　　　　　　*Editorial*
The text has to be updated since Table 33-8 title has changed

SuggestedRemedy
Change:
A PSE shall meet one of the allowable classification permutations listed in Table 33–8.
With
A PSE shall meet one of the allowable classification configurations listed in Table 33–8.

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

EZ

Cl **33**　　*SC* **33.1.1**　　　*P* **20**　　*L* **5**　　# 246
Zimmerman, George　　　　　　CME Consulting, Inc.

Comment Type **T**　　*Comment Status* **D**　　　　　　*Editorial*
"Type 2 operation requires ISO/IEC 11801:1995 Class D or better cabling, and Type 3 operation requires ISO/IEC 11801:2002 Class D or better cabling, and a derating of the cabling maximum ambient operating temperature."
Change inadvertently removes existing statement that Type 2 requires reduction in maximum operating temperature.

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

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

OBE by comment # 159.

EZ

Cl **33**　　*SC* **33.2.2**　　　*P* **28**　　*L* **17**　　# 250
Zimmerman, George　　　　　　CME Consulting, Inc.

Comment Type **TR**　　*Comment Status* **D**　　　　　　*Editorial*
"Figure 33–5a—10BASE-T/100BASE-TX Alternative A and Alternative B Endpoint PSE location overview"
Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoud reference 4 pair operation.

SuggestedRemedy
Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b):
"Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview"

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **250**

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7/9/2015 5:15:04 PM

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

Comment Type **TR** *Comment Status* **D** *PSE State Diagram*
"The PSE shall provide the behavior of the state diagrams shown in Figure 33–9, Figure 33–9 continued, and Figure 33–10."

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

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

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

EZ

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

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

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

SuggestedRemedy
Delete Editor's note.

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

EZ

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

Comment Type **ER** *Comment Status* **D** *Editorial*
"Figure 33–9—PSE state diagram (continued)"

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

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

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

EZ

Cl **33** *SC* **33.2.5.3** *P* **56** *L* **24** # 261
Zimmerman, George CME Consulting, Inc.

Comment Type **ER** *Comment Status* **D** *Editorial*
"In a multiport system, the implementor should maintain DC isolation..."
"implementor" has been globally changed to "implementer" in 802.3bx revision project.

SuggestedRemedy
Change "implementor" to "implementer" throughout document.

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

EZ

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

Comment Type **E** *Comment Status* **D** *Editorial*
"4Item 17b applies to PSEs that implement MPS detection by measuring sum of the pair set currents of the same polarity."

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

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

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

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
SORT ORDER: Comment ID

Comment ID **265** Page 25 of 26
7/9/2015 5:15:04 PM

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

Comment Type **TR**   *Comment Status* **D**   *Editorial*
"For Type 3 and Type 4 PSEs, when connected to a single-signature PD, both pair sets must reach the POWER_ON state within Tpon after detection on last pair set."

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

SuggestedRemedy
change "must" to "shall"

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

EZ

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

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

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

SuggestedRemedy
delete sentence.

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

OBE by comment 187.

EZ

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general   *Comment ID* **267**   Page 26 of 26
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed Z/withdrawn   7/9/2015 5:15:04 PM
SORT ORDER: Comment ID