| CI 33 SC 33.1 | P | L 11 | # 58 | CI 33 | SC 33.1. | 3 | P 21 | L 38 | # 141 |
|--------------------------------------|--|-----------------|-----------------------|------------------------------|---|-----------------------------|---|--|---|
| Schindler, Fred | Seen Simply | | | Jones, Cha | ad | | Cisco | | |
| Comment Type ER | Comment Status R | | Maintenance | Comment | Туре Т | | Comment Status A | | Definition |
| | ns use the construct choice1/cho ome of this construction are used | | | | | | 1273 on behalf of George Z | | • |
| SuggestedRemedy | | | | | | | dard is ambiguous and is in ns section. The imprecise la | | |
| Replace these cons | tructs with words. For example, | | | to a sp | ecific interfa | ce po | pint necessary for the speci | fications attached | d to the PI, including a |
| These enitites allow | devices to draw or supply | | | pin-out | I. In contrast | the i | anguage in the definitions s | ection is more p | recise. |
| Response | Response Status C | | | Suggested | Remedy | | | | |
| REJECT. | | | | | | | erface (PI) is the generic ter | | |
| should be filed as a | erenced on line 11 is existing tex maintenance request. | | | To: The Sourci defined | e Power Inte ng Equipmer d in 1.4.324 (| erface nt (P\$ (1.4.3 | een the PSE or PD and the e (PI) is the mechanical and SE) or Powered Device (PD 336 in P802.3bx/D2.0). In ar defined in 1.4.256 (1.4.268 | electrical interfa) and the transm n Endpoint PSE a | ce between the Power ission medium as and in a PD the Power |
| All readers are enco | ouraged to submit specific commo | ents to replace | "/" where appopriate. | Response | | | Response Status C | | , |
| C/ 33 SC 33.1.1 (seboodt, Lennart | P 19 Philips | L 52 | # 115 | ACCEI | PT IN PRINC | CIPLI | | | |
| | Comment Status A C 11801:1995. use 33 we refer to ISO/IEC 1180 5 has been withdrawn by ISO. | 1:2002 for char | Cabling | mecha the trai | ower Interfa inical and ele nsmission m | ectric ediu | I) is the generic term that re al interface between the PS m. I in a PD, the PI is encompa | E or PD and | |
| SuggestedRemedy | , | | | the MD | DI." | | • | | |
| | 801:1995 to ISO/IEC 11801:2002 | 2 | | To: | | | | | |
| Response | Response Status C | | | | | | is the mechanical and ele ower Sourcing Equipment (| | |
| ACCEPT. | | | | Powere | ed Device (P | PD) a | nd the transmission mediun | | |
| EZ | | | | In an E | Endpoint PSE | E and | 802.3bx/D2.0). I in a PD the Power Interfac .4.268 in P802.3bx/D2.0)" | e is the MDI | |
| | | | | Add Ed | ditor's Note: | "Edi | tor to consult with staff on d | luplication of defi | nitions." |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

C/ 33 SC 33.1.3

| CI 33 SC 33.1.4 P 21 Jones, Chad Cisco | L 50 | # 139 | C/ 33 Yseboodt, | SC 33.1.4 Lennart | P 22 Philips | L 10 | # 111 |
|--|--|--|---------------------------|----------------------|--|------------------|-------------------------|
| Comment Type T Comment Status D | | Cabling | Comment | Туре Т | Comment Status A | | Cabling |
| Maintenance Request #1271, on behalf of GEOFF THON TECHNOLOGY | MPSON, GR | ACASI S.A./LINEAR | "Rchai | า". | Channel Pair-set maximum DC | | |
| Move as much of the cabling specification to cabling doo was entered as a tracking mechanism for Thompson Con P802.3REVbx/D2.0 during initial WG ballot. Resolution of P802.3bt as they will have Cl 33 open.) | mment #59 a | gainst | | | . In 802.3-2012 this parameter h. | was also called | Rch. |
| SuggestedRemedy | | | Response | | Response Status C | | |
| See attached sheet for proposed new text. | | | ACCE | PT. | | | |
| (http://www.ieee802.org/3/maint/requests/maint_1271.pd Proposed Response Response Status W | lf, page 2) | | EZ | | | | |
| Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. | | | C/ 33 | SC 33.1.4 | P 22 | L 15-1 | # 116 |
| PROPOSED ACCEPT IN PRINCIPLE. | | | Yseboodt, | | Philips | 215-1 | π 110 |
| A number of these changes have already been adopted. | The two rer | naining changes are: | | | • | | 0.1.1 |
| Replacing the first sentence in 33.1.4 with: "A power system, consists of a single PSE, a single PD a | and the link s | ection connecting | In othe | nce to ISO/IEC | Comment Status A \$ 11801:1995. \$ 33 we refer to ISO/IEC 1180 has been withdrawn by ISO. | 01:2002 for chan | Cabling nel parameters. |
| them. A power system is characterized as Type 1 or Type 2 by lowest type numbe see Table 33–1." | er of the PSE | or PD in the system, | Suggestea | Remedy | 01:1995 to ISO/IEC 11801:200 | 2 | |
| and replacing the first paragraph of 33.1.4.1 with (as well subclause to "Cabling requirements"): | as changing | the title of the | Response ACCE | PT. | Response Status C | | |
| "The supply of power over the data connection is intender requirements to the cabling that is normally installed for data usage. This is approximately trattention. Power at Type 1 power levels may be transmitted over all specified premiser restrictions. Higher power levels may require heavier gauge conductors than are found in Class uncommonly) in some lighter gauge Class D or better cable. The requirements for Typ better cable and components as specified in ANSI/TIA/EIA-568-A." | rue but may ses cabling v s C/Category | require some further vithout further v 3 cabling and (more | EZ | | | | |

C/ 33 SC 33.1.4

| <i>Cl</i> 33 SC 33.1 Darshan, Yair | .4 P 22 Microsemi | L 21 | # [11 | C/ 33 Yseboodt, I | SC 33.1.4 Lennart | Ļ | P 22 Philips | L 21 | # 114 |
|--|---|-----------------|-------------------------|-----------------------------|---------------------------------------|---|---|------------------|------------------------|
| Comment Type T | Comment Status A | | Pres Table 33-1 Cabling | Comment | <i>Type</i> T for Type 4 is | | omment Status A | | Pres Table 33-1 |
| Some of the TBD http://www.ieee80 Table 33-1 need t Revised Table 33 The parameters a Type 4 Icable: 0.9 In addition, the fol Cable Type: same TBD. This will be Loop resistance: 3 | Table 33-1. Some of the TBD parameters can be updated per the work done at page 10 of: http://www.ieee802.org/3/bt/public/mar15/darshan_01_0315_rev009a.pdf. Table 33-1 need to be revised per the folowing proposal. Please see attached "Draft D0.4: Revised Table 33-1.pdf: The parameters are: Type 4 Icable: 0.962A (TIA guys will have to tell us the # of cables max etc. later) In addition, the following TBD parameters can be updated as well: Cable Type: same as in Type 3 and adding a text notifying number of cables per bundle TBD. This will be delivered by TIA etc. Loop resistance: Same as for Type 3. To add new row that specify Type 4 parameter for new and better cable that allows 100 cables per bundle. In this row, cabling Type, loop resistance is TBDs. | | | | | 99.9W as 2V) / 2 = s 8 Opera unbalance | the maximum allowed 0.960 A (+footnote ref tion, the current per pa e." sponse Status C | 3) | pacted by pair to pair |
| cables per bundle | To add new row that specify Type 4 parameter for new and better cable that allows 100 cables per bundle. In this row, cabling Type, loop resistance is TBDs. | | | | SC 33.1. 4 alerie | l . | <i>P</i> 22 Siemon | L 22 | # 4 |
| SuggestedRemedy Table 33-1 to upd Table 33-1.pdf" do | ate the following Type 4 parameter ocument": | s (See attached | d "Draft D0.4: Revised | Comment T Clarify | | | omment Status A . resistance or current |) | Cabling |
| TBD per TBD star 3. Loop resistance 4. To add new row | me as in Type 3. Add note below t ndard. e: Same as for Type 3. v that specify Type 4 parameter for . In this row, cabling Type, loop res | new and better | cable that allows 100 | Response ACCEI | • | Res CIPLE. | e" with "inter-pair resis sponse Status C | tance unbalance" | |
| Response | Response Status C | | | EZ | | | | | |

C/ 33 SC 33.1.4

| CI 33 | SC 33.1.4 | P 22 | L 22 | # 50 | C/ 33 | SC 33 | .1.4 | P 22 | L 23 | # 113 |
|----------------------|-----------------|--|--------------------|----------------------|-----------------|--|-----------------------|--|-------------------|------------------------|
| Beia, Chris | tian | STMicroelectr | onics | | Yseboodt, | , Lennart | | Philips | | |
| Comment [·] | Туре Е | Comment Status A | | Cabling | Comment | Туре в | Ξ | Comment Status A | | Cablin |
| | nce unbalance, | refers to Annex 33A inaccura not about inter-pair unbalance | | channel pair to pair | "In Ty | ote 2 belov pe 3, 60W m resistan | Operatio | on, the current per pair-set | might be impact | ed by pair to pair |
| Replac | | | | | Better | r to refer to | class. | | | |
| | | 33A for inter-pair unbalance. | | | Suggestee | dRemedy | | | | |
| With: See int | formative annex | 33A for Channel pair to pair I | resistance unba | lance. | | rpe 3, Clas m resistan | | ation, the current per pair- ance." | set might be imp | acted by pair to pair |
| Response | | Response Status C | | | Response | | | Response Status C | | |
| ACCEI | PT. | | | | ACCE | EPT IN PR | | | | |
| EZ | | | | | OBE I | by comme | nt #12. | | | |
| CI 33 | SC 33.1.4 | P 22 | L 23 | # 12 | EZ | | | | | |
| Darshan, Y | ′air | Microsemi | | | C/ 33 | SC 33 | .1.4.1 | P 22 | L 41 | # 140 |
| Comment | | Comment Status A | | Cabling | Jones, Ch | ad | | Cisco | | |
| | | elow Table 33-1. ct for Type 3 and 4 but yet it is | s reffering to Tyr | ne 3 only | Comment | Type 1 | г | Comment Status A | | Cablin |
| Suggested | Remedy | W operation, the current | 0 71 | | | enance W INEAR TE | | comment #59 on behalf of DGY | GEOFF THOMF | SON, GRACASI |
| To: | | ation, the current See | | | Simpl | ify the first | paragrap | st paragraph of 33.1.4.1) bh by updating the referen al requirement. | ce to the 2002 ve | ersion of 11801 which |
| Response | | Response Status C | | | Suggestee | dRemedy | | | | |
| ACCEI EZ | PT. | | | | Opera requir | ements ar | es Class e also me | nent D, or better, cabling as sp at by Category 5e or better tegory 5 cable and compo | cable and comp | onents as specified in |
| | | | | | The s | | | this clause can remain ur this material. | nchanged unless | the referenced cabling |
| | | | | | Response |) | | Response Status C | | |
| | | | | | ACCE | PT. | | | | |
| | | | | | | | | | | |

C/ 33 SC 33.1.4.1

| Cl 33 SC 33.1.4.1 Maguire, Valerie | <i>P</i> 23 Siemon | L 5 | # 1 | C/ 33 SC 33.2.01 P 24 L 29 # 59 Schindler, Fred Seen Simply |
|---|---|--|--|---|
| Comment Type ER Use correct draft Stand SuggestedRemedy | Comment Status A ards name 184A" with "TSB-184-A" (3 h | | Cabling | Comment Type ER Comment Status A Type New text in the specification uses the word can rather than the word may. For example, Provide the second status Type |
| Response ACCEPT. EZ | Response Status C | | | Can operate as 2-pair under fault conditions "May" provides permission whereas "can" states ability. SuggestedRemedy Replace constructs using "can" that provide permission with "may. " End notes containing |
| C/ 33 SC 33.1.4.2 Jones, Chad | P 23 Cisco | L 10 | # 143 | these constructs with a period. <i>Response</i> ACCEPT IN PRINCIPLE. C |
| Comment Type T Maintenance WG Ballo S.A./LINEAR TECHNO | Comment Status A t comment #60 on behalf of LOGY | GEOFF THOMP | Cabling PSON, GRACASI | Add period to end of note 1. Replace Note 4 with: "May operate over 2 pairs under fault conditions." |
| Maintenance WG Ballo S.A./LINEAR TECHNO (through line 28, i.e. the The first sentence shou reference to 11801 to th | t comment #60 on behalf of LOGY e entirety of 33.1.4.2) Id be deleted. It would be a ne 2002 edition which precis | ppropriately hand | SON, GRACASI | Add period to end of note 1. Replace Note 4 with: "May operate over 2 pairs under fault conditions." Cl 33 SC 33.2.0a P 24 L 24 # 38 Dwelley, David Linear Technology |
| Maintenance WG Ballo S.A./LINEAR TECHNO (through line 28, i.e. the The first sentence show reference to 11801 to th following text: 6.4.8 Dire The d.c. resistance unb shall not exceed 3 % fo The remainder of 33.1.4 cabling parameter mea documentation. If 802. | t comment #60 on behalf of LOGY e entirety of 33.1.4.2) Id be deleted. It would be a | ppropriately han ely matches this unbalance nductors within ea chieved by desig s purely informati riate to the refer to be retained ir | PSON, GRACASI dled by updating the requirement with the ach pair of a channel gn. ive/tutorial material on enced cabling n our document then it | Replace Note 4 with: "May operate over 2 pairs under fault conditions." C/ 33 SC 33.2.0a P 24 L 24 # 38 |

C/ **33** SC **33.2.0a**

| C/33 SC : | 33.2.0a | P 24 | L 30 | # 37 | C/ 33 | SC | 33.2.1 | P 24 | L 46 | # 10 |
|-----------------------------------|--|--|--------------------|---|------------------|----------------------|--------------|--|------------------------|--------------------------|
| Owelley, David | | Linear Techr | nology | | Bustos He | eredia, | Jairo | Würth Ele | ektronik eiSo | |
| Comment Type | T Co | omment Status A | | Types | Comment | t Type | Е | Comment Status R | | Туре |
| | | perate as 2-pair under | | | PSEs | s may si | upport eitl | her Alternative A, Alternat | ive B, or both. | |
| | | n is specified behavio nese power levels, and | | eater PDs. 2-pair not typically specified. | Suggeste | dReme | dy | | | |
| SuggestedRemed | • | | | | | | | her Alternative A, Alternat | | |
| Delete note 4. | | | | | | | | through pairs 2 and 3, wl power provision. | hereas when using | Alternative B, pairs 1 |
| Response | Res | sponse Status C | | | Response | | | Response Status C | | |
| ACCEPT IN F | | | | | REJE | | | | | |
| Replace note | 4 with: | | | | These | e pin de | efinitions a | are shown in Table 33-2. | | |
| "2-pair operati | ion allowed if P | SE is supplying class | 4 power or less." | | CI 33 | SC | 33.2.3 | P 31 | L 1 | # 117 |
| | art of comment | ##50 | | | Yseboodt, | , Lenna | art | Philips | | |
| | | | | | Comment | t Type | т | Comment Status A | | Туре |
| C/ 33 SC : Stencel, Len | 33.2.1 | P 24 Bourns, Inc. | L 42 | # 49 | | SE devid ds 4P p | | ovide power via one of tw | o valid four-wire co | nnections." |
| Comment Type | TR Co | omment Status A | | Types | Suggeste | dReme | dy | | | |
| | 2 diagrams sho | wing Alt A and Alt B fo | or an End PSE. C | only midspan version is | | SE devid | ce may pr | ovide power via one or bo | oth of two valid four- | wire connections." |
| shown. | | | | | or "A PS | SE devid | ce may pr | ovide power via at least o | ne of two valid four | -wire connections." |
| SuggestedRemed | - | | | | or | | | | | <i></i> |
| Add 2 Addition figure 33-1a | | BASE-TX Endpoint P | SE Alt A and Alt I | В | | | ce may pr | ovide power via one or tw | o valid four-wire co | nnections. |
| 0 | 1000BASE-T/ | 10GBASE-T Endpoint | t PSE Alt A and A | lt B | Response ACCF | | PRINCIP | Response Status C | | |
| ÷. | or Add Figure 33-5 to text and make these two diagrams figures 33-5a and 33-5b. | | | | | ACCEPT IN PRINCIPLE. | | | | |
| Response | Res | sponse Status C | | | | ace text ections. | | SE device may provide p | ower via one or bot | h of two valid four-wire |
| ACCEPT. | | | | | -7 | | | | | |
| Need to create | e figures | | | | EZ | | | | | |
| EZ | | | | | | | | | | |
| L | | | | | | | | | | |

C/ 33 SC 33.2.3

| C/ 33 | SC 33.2.3 | <i>P</i> 31 | L 8-23 | # 88 | C/ 33 | SC 33 | .2.4.1 | P 32 | L 20 | # 39 |
|-------------------------|---------------------------------|--|---------------------|-----------------------|-----------------|----------------------------|--------------------|--|---|---|
| 'seboodt, Le | | Philips | | | Dwelley, I | | | Linear Te | chnology | |
| omment Ty | • | Comment Status R | | Τγμ | | | | Comment Status A | | 4P Power |
| | | ord Alternative in Table 33-2 i be chosen but not both. | mplies | | Uncle Altern | ar text: "A ative A and | Type 3 d Altern | or Type 4 PSE that is ca ative B simultaneously i | apable of delivering s not required to m | g power over both neet backoff algorithm." |
| uggestedR | emedy | | | | Suggeste | dRemedy | | | | |
| | aming will als | to "Configuration". o affect other mentions of Alte | ernative | | and A | Iternative E | Type 3 B is not | required to use the back | ends to provide por coff algorithm." | wer on both Alternative A |
| esponse | | Response Status C | | | Response | | | Response Status C | | |
| REJECT | г. | | | | ACCE | PT IN PRI | INCIPLI | Ε. | | |
| | believe that th | ne word "alternative" is causin | g confusion when | applied to 4-pair | | | | or Type 4 PSE that will o ously is not required to u | | |
| power. | | | | | C/ 33 | SC 33 | .2.4.1 | P 32 | L 20-2 | # 118 |
| / 33 | SC 33.2.4.1 | P 32 | L 20 | # 67 | Yseboodt | Lennart | | Philips | | |
| chindler, Fr | red | Seen Simply | | | Comment | Туре Е | Ξ | Comment Status A | | PSE Detection |
| omment Ty | • | Comment Status D | | 4P Poi | | | | E that is capable of delive | | |
| This text will be th | | w Type midspan to power the | PD using 4P but | it does not ensure th | | | | ously is not required to net and backoff | neet backoff algori | thm." |
| Replacin | na this text to | requiring legacy behavior peri | nits a consistent r | process to be used b | v Suggeste | dRemedy | | | | |
| custome | ers to locate th | his potential problem. If a mid ally the end-point PSE will pov | span is placed be | | ″А Ту | | | E that is capable of deliver busly is not required to n | | |
| This und | losirable oper | ation can then be discovered | romotoly by lookir | a at the end point | Response | | | Response Status C | | |
| | | , the admin may disable the e | | | ACCE | PT. | | | | |
| midspan | always powe | rs the PD. | | | EZ | | | | | |
| If the exi | isting text is u | sed the configuration may be | different after eac | h power cycle. | C/ 33 | SC 33 | 241 | P 32 | L 21 | # 43 |
| uggestedR | emedy | | | | Stencel, L | | | Bourns, li | | <i>n</i> +5 |
| Stike the | e added sente | nce. | | | Comment | | - | Comment Status A | | PSE Detection |
| oposed Re | esponse | Response Status Z | | | | prrection | - | | | |
| REJECT | Г. | | | | Suggeste | Remedy | | | | |
| This con | nment was W | ITHDRAWN by the comment | er. | | | | ackoff a | algorithm" to "meet the b | ackoff algorithm re | equirement". |
| | | | | | Response | | | Response Status C | Ū | |
| Should v | we require 4P | midspans to use the back-off | algorithm? Mayb | e. | | | - | | | |
| | uld NOT requi e would requir | re 4P endspans to use the ba e. | ck-off algorithm w | hich striking this | EZ | - | | | | |
| OMMENT \$ | STATUS: D/d | ed ER/editorial required GR ispatched A/accepted R/reje ubclause, page, line | | | | d Z/withdr | awn | - | 33 © 33.2.4.1 | Page 7 of 37 5/23/2015 2:59:38 |

| PSE_DLL_CAPA SuggestedRemedy change column ty Proposed Response REJECT. This comment wa | nn "class_num_events" adresses ABLE is true or false. tytle to "max class_num_events" e Response Status Z vas WITHDRAWN by the commen class_num_events already indica 'SE supports. | nter. | maximum number of |
|---|--|---|---|
| Table 33-3 colum PSE_DLL_CAPA SuggestedRemedy change column ty Proposed Response REJECT. This comment wa The definition of o class events a PS Cl 33 SC 33.2 | nn "class_num_events" adresses ABLE is true or false. tytle to "max class_num_events" e Response Status Z vas WITHDRAWN by the commen class_num_events already indica 'SE supports. | nter. ates that it is the r | _events for describing if maximum number of |
| PSE_DLL_CAPA SuggestedRemedy change column ty Proposed Response REJECT. This comment wa The definition of o class events a PS Cl 33 SC 33.2 | ABLE is true or false. tytle to "max class_num_events" <i>Response Status</i> Z vas WITHDRAWN by the commen class_num_events already indica 'SE supports. | nter. ates that it is the r | maximum number of |
| change column ty Proposed Response REJECT. This comment wa The definition of o class events a PS Cl 33 SC 33.2 | Response Status Z vas WITHDRAWN by the commer class_num_events already indica | ates that it is the r | |
| Proposed Response REJECT. This comment wa The definition of o class events a PS Cl 33 SC 33.2 | Response Status Z vas WITHDRAWN by the commer class_num_events already indica | ates that it is the r | |
| REJECT. This comment wa The definition of o class events a PS C/ 33 SC 33.2 | vas WITHDRAWN by the commer class_num_events already indica PSE supports. | ates that it is the r | |
| The definition of class events a PS | class_num_events already indica SE supports. | ates that it is the r | |
| class events a PS C/ 33 SC 33.2 | PSE supports. | | |
| | 244 P30 | 1.00 | |
| Darshan, Tali | Microsemi | L 32 | # 14 |
| Comment Type T | Comment Status A | | PSE State Diagram |
| Missing pointer to | to do_detection details. | | |
| SuggestedRemedy | | | |
| Add "See 33.2.5" | ;" | | |
| Response | Response Status C | | |
| ACCEPT. | | | |
| | | | |
| | | | |
| | Missing pointer SuggestedRemedy Add "See 33.2.5 Response | Missing pointer to do_detection details. SuggestedRemedy Add "See 33.2.5" Response Response Status C | Missing pointer to do_detection details. SuggestedRemedy Add "See 33.2.5" Response Response Status C |

C/ 33 SC 33.2.4.4

| C/ 33 SC 33.2. | 4.4 P 40 | L 14 | # 15 | CI 33 | SC 33.2.4.5 | P 38 | L 13 | # 21 |
|--|--|---|---|--|--|---|----------------|---|
| Darshan, Yair | Microsemi | | | Darshan, Yair | | Microsemi | | |
| Comment Type T | Comment Status A | | PSE State Diagram | Comment Typ | e E | Comment Status A | | PSE State Diagran |
| Mutual identificatio This is mentioned i ""When a Type 2 F | PSE powers a Type 2, Type 3 or 1' to parameter type if mutual ide | PSE may choose to | It seems that there is a Typo here: The timer name is tlcf_timer and then the text says in line 16: See Tclf in Table 33-7. So we need to decide if it is tclf or tlcf. In addition, it is Table 33-10 and not 33-7 in lines 13, 15, 36, 40, 44. In Table 33-10 it is Tclf. | | | | | |
| 15-20. "Mutual identificatio differentiate betwee identification allows 2, Type 3 and Type able to complete m So if PSE fail to de | I identification is not complete p on is the mechanism that allows en Type 1, Type 2, Type 3 and T s Type 2, Type 3 or Type 4 PSE e 4 PDs. PDs or PSEs that do hutual identification and can only etect the PD class than classifica cation to be completed, the PD r | a Type 2, Type 3 Type 4 PSEs. Ad s to differentiate ot implement clas perform as Type ttion is not compl | 3 or Type 4 PD to ditionally, mutual between Type 1, Type ssification will not be e 1 devices." lete. | Change " Correct ir Scan the <i>Response</i> ACCEPT | lcf_timer to T .in Table 33- lines 13, 15, draft for simila | 7" to "in Table 33-10 and ve 36, 40, 44. ar for all Tlcf and Tclf occurre <i>Response Status</i> C .E. | nces and corre | ect accordingly. |
| | Change a | Il occurences | s of Tclf to Tlcf. The "lcf" was | meant to stan | d for long class finger. | | | |
| SuggestedRemedy | | | | | diagram uses | s lcf and everything should ma | atch it. | - · · · · · · · · · · · · · · · · · · · |
| SuggestedRemedy No need to define 33.2.6. | "Mutual Identification is not com | plete". It is alread | dy clearly defined in | | diagram uses | s lcf and everything should ma | atch it. | |
| No need to define 33.2.6. | "Mutual Identification is not com Response Status C | plete". It is alread | dy clearly defined in | The state | diagram uses | s lcf and everything should m | atch it. | |
| No need to define | Response Status C | plete". It is alread | dy clearly defined in | The state | SC 33.2.4.5 | | | # [68 |
| No need to define 33.2.6. Response ACCEPT IN PRINC | Response Status C | | dy clearly defined in | The state EZ C/ 33 Schindler, Fre Comment Typ | SC 33.2.4.5 d De TR | P 38 | | # [68 |
| No need to define 33.2.6. Response ACCEPT IN PRINC Accepting this com | Response Status C CIPLE. | ne text. | dy clearly defined in | The state EZ C/ 33 Schindler, Fre | SC 33.2.4.5 d be TR for TCLf medy | P 38 Seen Simply | | # [68 |
| No need to define 33.2.6. Response ACCEPT IN PRINC Accepting this com | Response Status C CIPLE. Inment results in no changes to the | ne text. | dy clearly defined in | The state EZ Cl 33 Schindler, Fre Comment Typ Fix Typo SuggestedRe Use TCLI Response | SC 33.2.4.5 d be TR for TCLf medy | P 38 Seen Simply Comment Status A Response Status C | | # [68 |
| No need to define 33.2.6. Response ACCEPT IN PRINC Accepting this com | Response Status C CIPLE. Inment results in no changes to the | ne text. | dy clearly defined in | The state EZ Cl 33 Schindler, Fre Comment Typ Fix Typo SuggestedRe Use TCLI Response ACCEPT | SC 33.2.4.5 d pe TR for TCLf medy | P 38 Seen Simply Comment Status A Response Status C E. | | # [68 |
| No need to define 33.2.6. Response ACCEPT IN PRINC Accepting this com | Response Status C CIPLE. Inment results in no changes to the | ne text. | dy clearly defined in | The state EZ Cl 33 Schindler, Fre Comment Typ Fix Typo SuggestedRe Use TCLI Response ACCEPT | SC 33.2.4.5 d for TCLf medy = | P 38 Seen Simply Comment Status A Response Status C E. | | |

Cl 33 SC 33.2.4.5

| CI 33 SC 3 | 33.2.4.5 | P 40 | L 19-2 | # 120 | C/ 33 | SC | 33.2.4.7 | P 42 | L 27 | # 32 |
|--|---|--|---|--|--|---|--|--|--|--|
| Yseboodt, Lennart | : | Philips | | | Darshan, ' | Yair | | Microsemi | | |
| Comment Type | Е | Comment Status A | | PSE State Diagram | Comment | Туре | т | Comment Status A | | PSE State Diagran |
| shall meet the choose to mee | PI electricated the electric | PD of a lower Type than its al requirements of PSE Typ rical requirements of a grea T LIM-2P , and P Type (see | be that matches iter Type (up to | the PD Type, but may its maximum capability) | we ha In ado | ive in al dition, a | l other CLA n exit is mi | 33-9 there is a missing exit SS_EV_XX BLOCKS. ssing also from CLASS_EV: EV_XX BLOCKS. | | · |
| Unclear and gr | rammatical | ly dubious sentence. | | | Suggestee | dReme | dy | | | |
| SuggestedRemedy | У | | | | 1) Ado | d exit fr | om CLASS | _EV3 to point "E": Tcle3_tin | ner_done*(mr_ | pd_class_detectted=0) |
| electrical requin of the PSE Typ The PSE may I Con-2P , I LIN equal to the | irements pe that corr choose to M-2P , T LI | D of a lower Type than its o responds to the connected apply the requirements for M-2P and P Type (see Tab an or equal to the PD Type. | PD Type. le 33-11) of any | | Tcle3 Response ACCE | _timer_ e EPT IN | done*(mr_ PRINCIPLE | | | |
| Response | | Response Status C | | | There | is no n | eed for an | exit from CLASS_EV3 to E ignatures are valid in CLAS | as there can be | e no class mismatch in |
| , ACCEPT. | | | | | CLAS | S_⊑V3 | (all class s | agnatures are valid in CLAS | S_⊏V3). | |
| | | | | | | 1 | | | | |
| Type and powe there to remind | | directly related and this nee | ds further study | (as the editor's note is | to be | added i | n front of "(| K_EV_LAST from CLASS_E mr_pd_class_detected = 4) | 1 | |
| Cl 33 SC 3 | | P 42 | ds further study | v (as the editor's note is # 75 | | added i SC | | | | 8_timer_done * " needs # [<u>44</u> |
| Cl 33 SC 3 | d us). | P 42 Seen Simply | - | `` | to be : C/ 33 | added i SC .en | n front of "(| mr_pd_class_detected = 4) P 43 | 1 | |
| there to remind Cl 33 SC 3 Schindler, Fred | d us). 33.2.4.7 TR | P 42 Seen Simply Comment Status A | - | `` | to be a CI 33 Stencel, L Comment Clarify | added i SC en <i>Type</i> y text. F | n front of "(33.2.5 E | P 43 P 43 Bourns, Inc. Comment Status A tence "The PSE shall turn of | L 41 | # 44 PSE Detection |
| there to remine Cl 33 SC 3 Schindler, Fred Comment Type Where is entry | d us). 33.2.4.7 TR / point "A1" | P 42 Seen Simply Comment Status A | - | # 75 | to be a CI 33 Stencel, L Comment Clarify | added i SC en <i>Type</i> y text. F used fo | n front of "(33.2.5 E Rewrite sent or two-pair of | P 43 P 43 Bourns, Inc. Comment Status A tence "The PSE shall turn of | L 41 | # 44 PSE Detection |
| there to remind CI 33 SC 3 Schindler, Fred Comment Type Where is entry SuggestedRemedy | d us). 33.2.4.7 TR / point "A1" // | P 42 Seen Simply Comment Status A | L 2 | # 75 | to be a C/ 33 Stencel, L Comment Clarify those Suggested | added i SC en Type y text. F used fo dReme | n front of "(33.2.5 E Rewrite sen or two-pair of dy | P 43 P 43 Bourns, Inc. Comment Status A tence "The PSE shall turn of | L 41 | # 44 PSE Detection on the same pairs as |
| there to remind Cl 33 SC 3 Schindler, Fred Comment Type Where is entry SuggestedRemedy | d us). 33.2.4.7 TR / point "A1" y another port | P 42 Seen Simply Comment Status A coming from? | L 2 | # 75 | to be a C/ 33 Stencel, L Comment Clarify those Suggested | added i SC en <i>Type</i> y text. F used fo dRemed ge t: "Th | n front of "(33.2.5 E Rewrite sen or two-pair of dy | P 43 P 43 Bourns, Inc. Comment Status A tence "The PSE shall turn of detection." | L 41 | # 44 PSE Detection on the same pairs as |
| there to remind Cl 33 SC 3 Schindler, Fred Comment Type Where is entry SuggestedRemedy If "A1" is just a | d us). 33.2.4.7 TR / point "A1" y another port | P 42 Seen Simply Comment Status A coming from? tion of "A" replace "A1" with Response Status C | L 2 | # 75 | to be a Cl 33 Stencel, L Comment Clarify those Suggested chang Response | added i SC en 7 Type y text. F used fo dRemed ge t: "Th | n front of "(33.2.5 E Rewrite sen or two-pair of dy | P 43 Bourns, Inc. Comment Status A tence "The PSE shall turn of detection." Il only turn on power to the p Response Status C | L 41 | # 44 PSE Detection on the same pairs as |
| there to remind CI 33 SC 3 Schindler, Fred Comment Type Where is entry SuggestedRemedy If "A1" is just and Response ACCEPT IN PF "A1" needs a s | d us). 33.2.4.7 TR / point "A1" y another port RINCIPLE. separate er | P 42 Seen Simply Comment Status A coming from? tion of "A" replace "A1" with Response Status C | L 2 n "A." a different state | # <u>75</u> PSE State Diagram | to be a CI 33 Stencel, L Comment Clarify those Suggested chang Response ACCE Remo "a pair | added i SC en y text. F used fo dRemed ge t: "Th e EPT IN I e FPT IN I ove this r-set" in | n front of "(33.2.5 E Rewrite sem or two-pair of dy ne PSE sha PRINCIPLE sentence a n the first se | P 43 Bourns, Inc. Comment Status A tence "The PSE shall turn of detection." Il only turn on power to the p Response Status C | L 41 on power only o pairs on which o that "the PI" h | # 44 <i>PSE Detection</i> on the same pairs as a valid PD is detected." has been replaced with |

C/ 33 SC 33.2.5

| CI 33 | SC 33.2.5.0a | P 43 | L 52 | # 40 | C/ 33 | SC 33.2.5.1 | | L 25, 4 | # 92 |
|-----------------------------|---|---|--------------------|--------------------------|----------------------|----------------------------------|---------------------------------|----------------------|-----------------------------------|
| owelley, Dav | | Linear Techno | ology | | Yseboodt, | | Philips | | |
| Comment Ty | | Comment Status A | | Connection Check | Comment | | Comment Status A | | PSE Detection |
| | tion, only tests th s specified" | hat result in a voltage at the | PSE PI that is w | ithin the Vvalid voltage | • | | and 33-2 are incorrect, also r | eferences to them | incorrect. |
| 0 | · | | | | Suggested | - | | | |
| | | ine as written blocks the us or Connection Check. This li | | | Figure Figure | 33-1 => Figure 33-2 => Figure | 33-11 33-12 | | |
| SuggestedR | Remedy | | | | | nces to fix: 10, 29 and 44/4 | 15 | | |
| | e text to: "In addit nax) as specified | tion, only tests that result in d" | a voltage at the | PSE PI that is below | Response | · | Response Status C | | |
| Response | | Response Status C | | | ACCE | ΥТ. | | | |
| ACCEP | Т. | | | | EZ | | | | |
| 2/ 33 Darshan, Ya | SC 33.2.5.0a air | P 44 Microsemi | L 3 | # [16 | C/ 33 Stencel, Le | SC 33.2.5.1 n | P 44 Bourns, Inc. | L 49 | # 48 |
| omment Ty | уре Т | Comment Status A | | Connection Check | Comment | ype ER | Comment Status A | | PSE Detection |
| | | is single signature PD and I | Dual signature P | D so it can be tested | incorre | ct table numbe | r` | | |
| for comp | | ng voltage Va to mode A an | d checking the c | surrent la while | Suggested change | Remedy Table 33-1 to | Table 33-4. | | |
| | | mode B and checking la who | | | Response | | Response Status C | | |
| This oct | ually varify if the | ere is low impdenace betwee | n nonitivo roilo c | f Mada A and Nagativa | , | PT IN PRINCIP | - | | |
| rails of N | Mode B. | · | | Ũ | | - | s in the PSE Detection section | ons (33 2 5 1-33 2) | 5 5) |
| | | b>Va doesnt change the cur ngle Signature and Dual Sig | | | | | | | 0.0). |
| There a | re many ways to | o do it. It is what connection | check does. | | EZ | | | | |
| uggooto d' | Pomodu | | | | C/ 33 | SC 33.2.5.2 | P 45 | L 46 | # 45 |
| uggestedR Add the | - | t attached in document "Sir | ale Signature ar | nd Dual Signature | Stencel, Le | n | Bourns, Inc. | | |
| | | .pdf" at the end of 33.2.5.0a | | | Comment | | Comment Status A | | PSE Detection |
| esponse | | Response Status C | | | Incorre | ct tablenumber | r. link is good. | | |
| | | | | / H | Suggested change | Remedy table 33-1 to t | able 33-4. | | |
| | tor's note to con o be defined." | nection check section that s | tates "Test setu | D/compliance testing | Response ACCEI | PT IN PRINCIP | Response Status C LE. | | |
| | | | | | OBE by | comment # 4 | 8. | | |
| | | | | | EZ | | | | |
| OMMENT | STATUS: D/disp | d ER/editorial required GR/ patched A/accepted R/reje pclause, page, line | • • | | 0 | Z/withdrawn | CI 3 SC 3 | 3 3.2.5.2 | Page 11 of 37 5/23/2015 2:59:3 |

| Cl 33 SC 33.2. Schindler, Fred | 5.3 P 45 Seen Simply | L 52 | # 61 | Cl 33 SC 33.2.5. Stencel, Len | 4 <i>P</i> 46 Bourns, Inc. | L 30 | # 47 |
|--|--|----------------------------|----------------|---|--|----------------------------|--------------------------|
| Comment Type ER | 1, | within a link sect | PSE Detection | Comment Type ER incorrect table numb | Comment Status A | | PSE Detection |
| The sentence cons | struction is incorrect. | | | SuggestedRemedy change table 33-3 to | Table 33-6 | | |
| Consider, | | - Course and a Hold and a | den fellensten | Response ACCEPT IN PRINCI | Response Status C PLE. | | |
| characteristics," | ture on a pair-set within a link se | ction shall have | the following | OBE by comment # | 48. | | |
| Response ACCEPT IN PRIN | Response Status C | | | EZ | | | |
| | with: an offset voltage up to Vos max a 33–5, a PSE shall accept as a va | | | C/ 33 SC 33.2.6 Bennett, Ken Comment Type E | P 47 Sifos Techn <i>Comment Status</i> D | L 17 ologies, In | # 6 |
| within a link sectio Cl 33 SC 33.2. Stencel, Len | n with both of the following character 5.3 P 45 Bourns, Inc. | cteristics: L 54 | # [46 | don't have to implem via class current (inc | or PSEs which do not impleme ent classification, which is inc luding 0mA). Any PD which p ir class is not a conformant PI | correct. All PDs pr | rovide class information |
| Comment Type ER Incorrect table nur | | | PSE Detection | SuggestedRemedy Omit "PDs or" at the | beginning of the sentence. | | |
| SuggestedRemedy change table 33-2 | to Table 33-5 | | | Proposed Response REJECT. | Response Status Z | | |
| Response ACCEPT IN PRIN | Response Status C CIPLE. | | | This comment was V | VITHDRAWN by the commen | ter. | |
| OBE by comment | # 48. | | | This would be a main | tononce request on this is av | isting tout which I | haliava applica to alaca |
| EZ | | | | o PDs. | ntenance request as this is exi | isting text which I | believe applies to class |

C/ 33 SC 33.2.6

| Cl 33 SC Schindler, Fred | C 33.2.6 | P 47 Seen Simply | L 30 | # 69 | C/ 33 Yseboodt, | SC 33.2.6 Lennart | P 48 Philips | L 12 | # 121 |
|---|--|---|---------------|--------------------|--|---|---|------------------|------------------------------------|
| SuggestedRem | for Vport_PSE <i>edy</i> | Comment Status D -2p needs to be created. | | PSE Classification | It is al 4 pow | ble 33-7, for Clas so possible for a rer. | Comment Status A s 4, the Number of Classificat PSE to produce 3 classificati | | |
| Proposed Resp REJECT. | onse | Response Status Z | r. | | Suggested Repla Response ACCE | ce "2" by "2 or 3 | Response Status C | | |
| | | eter whose limits are given e of this parameter to V_F | | | C/ 33 Yseboodt, | | P 48-49 Philips | L- | # <u>112</u> |
| CI 33 SC | C 33.2.6 art | P 47 Philips | L 30-3 | # 110 | Comment Table Suggested | 33-8 PSE and P | Comment Status A D classification permutations | is unduly diffic | PSE Classification ult to read. |
| using two-p to arrive at o margined va Issue 1: ***s | over- alues as shown systems and** Ch max is redu | n = R Ch max/2 when pow n in Table 33–4." * should be removed. undant. R_Ch is the maxim | 0 0 | | Repla Conte | PT IN PRINCIP | Response Status C E. ggested in yseboodt_d04_Tab entical to the one in D0.4 urther in next comment cycle. | | .pdf |
| 1: remove " | • | ì | | | C/ 33 Yseboodt, | SC 33.2.6 Lennart | <i>P</i> 48-49 Philips | L - | # 119 |
| = R_Ch whe using two-p | en powering airs, or R_Cha | nentations may use V_PSI n = R_Ch/2 when powerin n in Table 33–4." | | | Suggested | 33-8 is incorrect | Comment Status A y broken up over pages 48 ar | nd 49. | PSE Classification |
| Response ACCEPT. | H | Response Status C | | | Response | table on page 4 | Response Status C | | |
| EZ | | | | | | bly OBE by com | nent # 112. | | |
| | | | | | EZ | | | | |

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/ 33Page 13 of 37COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 33.2.65/23/2015 2:59:38 PMSORT ORDER: Clause, Subclause, page, lineSC 33.2.65/23/2015 2:59:38 PM

| C/ 33 SC | 33.2.6 | P 49 | L 34-3 | # 81 | C/ 33 | SC 33.2.6.1 | P 50 | L3 | # 83 |
|---|--------------|--|----------------------------|--------------------------|------------------|---|----------------------------------|-----------------|-------------------------|
| Yseboodt, Lenn | | Philips | ∠ J 4 -J | π 01 | Yseboodt, | | Philips | 23 | π 05 |
| Comment Type | Е | Comment Status A | | PSE Classification | Comment | Туре Е | Comment Status A | | PSE Classificaitor |
| one of the following: 2- Data Link La | -Event Phys | sful detection, all Type 2 PS sical Layer classification; 2-E | vent Physical La | yer classification and | specif by T p | ications shall be | | E-2P in 33.2.3 | and timing |
| classificatio | n; or 1-Eve | nt Physical Layer classification | on and Data Link | Layer classification." | Suggestee | dRemedy | | | |
| 2-Event sho | ould be Mul | tiple-Event. | | | | | ame as defined for V Port_PS | E-2P in 33.2.3 | and timing |
| SuggestedRem | edy | | | | | fications shall be pdc in Table 33- | | | |
| | nt to succes | sful detection, all Type 2 PS | Es perform class | ification using at least | Response | , , | Response Status C | | |
| one of the following: M | lultiple-Eve | nt Physical Layer classification | on; Multiple-Even | t Physical Layer | ACCE | PT. | | | |
| classificatio | n and Data | | | | EZ | | | | |
| Response | | Response Status C | | | C/ 33 | SC 33.2.6.1 | P 50 | L 5-6 | # 85 |
| ACCEPT. | | | | | Yseboodt, | Lennart | Philips | | |
| EZ | | | | | Comment | Туре Е | Comment Status A | | PSE Classification |
| CI 33 SC | C 33.2.6 | P 49 Philips | L 8 | # 99 | in Tab | easurements of ble 33-7." g Table reference | l Class shall be taken after the | e minimum relev | vant class event timing |
| Comment Type | Е | Comment Status A | | PSE Classification | Suggested | dRemedy | | | |
| 51 | Type 2, Ph | ysical Layer Classification co | blumn, first cell sa | | | easurements of ble 33-10." | Class shall be taken after the | e minimum relev | vant class event timing |
| SuggestedRem | edy | | | | Response | • | Response Status C | | |
| Replace "2- | Event" by " | Multiple-Event". | | | ACCE | PT. | | | |
| Response ACCEPT. | | Response Status C | | | EZ | | | | |
| | | | | | | | | | |
| Possible OE | BE by comr | nent # 112. | | | | | | | |

C/ 33 SC 33.2.6.1

| C/ 33 SC 33.2.6.1 Yseboodt, Lennart | P 50 Philips | L 5-6 | # 84 | C/ 33 Darshan, Y | SC 33.2.6.2 Yair | P 50 Microsemi | L 31 | # 33 |
|---|---|----------------------------|--|---------------------------------------|--|--|------------------|---------------------|
| current according to Table 33-6." | Comment Status A ure the resultant I Class and o meant (please check). | classify the PD ba | PSE Classification ased on the observed | Suggested Replac | 33-TBD is Table <i>IRemedy</i> ce Table 33-TBl | D with Table 33-9. | | PSE Classification |
| SuggestedRemedy "The PSE shall measu current according to Table 33-9." | ure the resultant I Class and o | classify the PD ba | ased on the observed | Same <i>Response</i> ACCE EZ | in line 45 and 5 PT. | 3 Response Status C | | |
| Response ACCEPT. EZ | Response Status C | | | C/ 33 Schindler, | SC 33.2.6.2 Fred | P 50 Seen Simply | L 31 | # 60 |
| | P 50 Philips <i>Comment Status</i> A ss event is Class 4, a Type 1 | L 9-10 PSE shall assign | # 86 PSE Classification n the PD to Class 0; a | table t unava S <i>uggestec</i> | table (figure et o be used. If th ilable. IRemedy | Comment Status A c) exists please begin using a d e table (figure etc) needs to be | e created use a | construct like TBD- |
| identification is comple This refers to Type 2 F Layer classification. | PD as a Type 2 PD but may ete." PSEs that use 1-Event Physic xists for Type 3 or 4 PSEs, u | cal Layer classific | cation and Data Link | Response ACCE | | | e the text easie | r to review. |
| Type 2 PSE | ss event is Class 4, a Type 1 ve 2 PD but may provide Clas | - | | Cl 33 Yseboodt, Comment | Туре Е | P 50-51 Philips Comment Status A res to Table 33-7, all incorrect. | L 1-54 | # 87 |
| Response ACCEPT. | Response Status C | fication section. | | Suggested | Remedy | e of Table 33-7 to Table 33-10 Response Status C | in 33.2.6.2 | |
| | , , | | | ACCE EZ | PT. | | | |

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: Clause, Subclause, page, line

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| C/ 33 SC 33. | | | L 46 | # 22 | CI 33 | | 33.2.7 | P 53 | L 38 | # 17 |
|--|---|------------|------------------|--------------------|------------------|-------------|------------|---|---------------------|---------------------|
| Darshan, Yair | Micro | osemi | | | Darshan, | Yair | | Microsemi | | |
| Comment Type E | Comment Status | A | | PSE Classification | Comment | Туре | т | Comment Status D | | PSE Unbalance |
| the fact that the r number, it actual | he additional information f naximum value of TME3 is y limited by Tpon. clear by the additional info | s not defi | ned, doesn't me | | result | | age 4 at | mV was subjected to be ru http://www.ieee802.org/3/l | | |
| SuggestedRemedy | | | | | | | | in the specifications we have | | |
| Change the addit | ional information text from d of detection until power- | | ited by 33.2.7.1 | 2. | | | | eed for it. It will never happ ufficient (with 1mV). | ben in real life. | |
| Change the addi The maximum va | ional information text to: lue of TME2 is limited by wer-on according to 33.2. | the maxir | - | | ~1.6% | 6 with 2n | nV instea | reased during compliance ad of 1mV. This 1.6% can n't need it. | | |
| Response | Response Status | С | | | | | | cts MPS unbalance at sho | | |
| ACCEPT. EZ | | | | | we wi Vdiff t | ll ever ne | ed İow F | lem with the proposed MP P2P_unb with Ideal diode I o it is better to kill potentia | oridge we can't go | back and reduce PSE |
| | | | | | 5. Thi currer | | bout opti | mizing the spec, as for wh | o will get higher V | diff budget at high |
| | | | | | See a | ittached | Updated | PSE Vdiff for 802.3bt D0. | 4, darshan_02_05 | 15.pdf for details. |
| | | | | | Suggeste | dRemed | 'y | | | |
| | | | | | To Re | educe PS | SE Vdiff i | n Table 33-11 to 1mV. | | |
| | | | | | Proposed REJE | , | se | Response Status Z | | |
| | | | | | This c | comment | t was Wl | THDRAWN by the comme | nter. | |
| | | | | | Would | d like to l | hear fron | n system vendors (switch | nanufacturers) on | this topic. |

CI 33 SC 33.2.7

| CI 33 SC 33. | | L 12 | # 138 | CI 33 | SC 33.2.7 | P 54 | L 33 | # 31 |
|--|---|--|---|--|--|--|--|--|
| arshan, Yair | Microsemi | | | Darshan, Y | air | Microsemi | | |
| specified in Table new row in Table In Extended pow Ptype_min) and a We will need sep burden will be ost will be cost effec At worst case we and waiting to fin We have the resi for the typical use | 4a: ber that Icont-2P-unb for extended 33-11 item 4. It will be adressed 33-11 to defined the maximum Ico er, Ppd at short cable will be highed also the same case with Type 4. arate requirements for PD that way PD to limit P2P_lunb and Ipeak P tive. This need more work. need to set Pclass_PD=Pclass(P ish first the typical use cases. ults for extended power with the same e cases: | in seperate work ont-2P_Ufor exten- er than 51W (may ant to use extend D_Peak power s SE) which I did a ume system unba | and will required two nded power. be close to ed power were the o total effect on current lready few month ago | column In addi 33.2.7. Vport_I Suggested Change To: See 33 Response ACCEF Add fol | 23-11 item 10 ion to 33.2.7.7, 1 which defined PSE-2P spec. Remedy 2 additional infor .2.7.7 and 33.2 PT IN PRINCIPL lowing text to 33 | Response Status C E. 3.2.7.7 | is that are relevant I when pair-set vol 33.2.7.7" | for TLIM such as tage no longer meets |
| This will need to some new spect TIA will have to to Table 33-1, what maximum Icont-2 temperature rise temperature rise SuggestedRemedy Add additirial note [Editorial note: Ic Pclass_PD is ver minimum resista extended power, | be specified to allow transformer of equirement for PD in order to redu- ell us regarding temperature rise if if total 4P current is kept but one of P_unb and the other pair has the Based on mathematical work that over the cable. e below Table 33-11 as follows: ont-2P and Ipeak_2P need to be a y close to Pclass. It will result with nee but will not change the total 4F | 0mA, Icont-2P_unb=Icable=773mA 5mA, Icont-2P_unb=Icable=1087mA. specified to allow transformer design at worst case condition after uirement for PD in order to reduce this numbers. Is regarding temperature rise if total 4P total current is 2*Icable per otal 4P current is kept but one of the pairs has the above pair with unb and the other pair has the rest, if they expect increase in used on mathematical work that I did, I expect that it will not affect er the cable. | | when the control of the second | SC 33.2.7 Fred Type TR rameter applies ated comment of Remedy ,3,4 for valid Ty PT IN PRINCIPL | pes in the above items. <i>Response Status</i> C E. | ort_PSE-2P specif <i>L</i> 36 ly ameter items 13, 1 | fication. # [70] PSE Power |
| Response ACCEPT. | Response Status C | | | Item 13 | , 22, and 24 lef | should have 1,2,3,4 listed t as is for now. in table from "1,2,3,4" to " | | |
| OMMENT STATUS | equired ER/editorial required GR : D/dispatched A/accepted R/reje se, Subclause, page, line | 0 1 | | 0 | Z/withdrawn | CI SC | 33 33.2.7 | Page 17 of 37 5/23/2015 2:59:38 |

| | | | | | | D | | |
|---|---|-----------------------|---------------------|---|---|--|---|---|
| <i>Cl</i> 33 <i>SC</i> 33.2.7 Schindler, Fred | P 54 Seen Simply | L 36 | # 74 | C/ 33 SC 3 Darshan, Yair | 33.2.7 | P 55 Microsemi | L | # 18 |
| | Comment Status A power of the PI. This may be e each pair-set for dual-signature | | | | | Comment Status A 33-11 item 17 and 33.2.9.1.2 | | Pres MP |
| Response ACCEPT IN PRINCI Add Editor's note to : | | | 1 11 | combinations conditions and Many of the P Type 1 and Ty There is a nee over 4 pairs or | in the pre for sing SE=PD c pe 2 PS ed to set t over 2pa | not cover Ihold range for all I sensence of system pair to p e and dual signature PDs. ombinations will not work with Es. wo different sets of Ihold rang airs in order to allow different on PD as much as possible. | air unbalance n the current II ge for measuri | and/or P2P balanced hold range specified for ng total Ihold current |
| Cl 33 SC 33.2.7 Yseboodt, Lennart Comment Type TR Per Table 33-11: Typ | P 54 Philips Comment Status A be 3,4 PSE must deliver 0.5*Pc power over 2P then Icon-2P is | L 9 | # 101 Pres Class | -Support curre -No requireme PSE Type 3 a | ent Type ents for M nd 4 PSE | in darshan_01_0515.pdf allov I,2 PDs and new Type 3 and PS current unbalance for Typ s. detection implementations to | 4 PDs. be 1, 2, 3 class | s 0-8 PDs connected to |
| SuggestedRemedy Split Type 3,4 up into The 2P mode: Icon-2 | power over 2P methodr-2P is p Type 3,4 in 2P mode and Typ 2p(min) = Pclass / VPort_PSE-2 2p(min) = 0.5*Pclass / VPort_PS | be 3,4 in 4P moc P | le. | The above pro -Simple PD sp -Simple test so -Simple PSE N | ec. etup. | er: ection implementation. | | |
| Response ACCEPT. | Response Status C | | | SuggestedRemed | V | E and PD requirements base line text in the attached prese | | |
| | | | | Response ACCEPT IN P | RINCIPL | Response Status C E. | | |
| | | | | | 04 05 | | | |

Adopt darshan_01_0515_Rev010.pdf (minus title slide) as baseline text.

CI 33 SC 33.2.7

| <i>Cl</i> 33 Darshan, Y | SC 33.2.7 air | P 55 Microsemi | L 26 | # 19 | Cl 33 Schindler, | SC 33.2.7 Fred | P 55 Seen Simply | L 40 | # 62 |
|-----------------------------------|---|--|------------------|------------------------------|----------------------------|--------------------------|---|-----------------|-------------------------|
| This pa on Mar Table 3 | 33-11 item Item arameter is redu ch meeting with 33-11 item 4a: lo | Comment Status A 20, lunb_ptp: indant for PSE specification a the new items: con_2P-unb and clause 33.2. spec Table 33-18 but is not ne | 7.4a. | | Suggeste | e variable a. | Comment Status A | | PSE Unbalance |
| Suggested | | | | | Response | | Response Status C | | |
| Option | - | | | | ACCE | PT IN PRINCIP | ίLΕ. | | |
| a) Rem | iove lunb_p2p f | rom Table 33-11 item 20. OR | | | Alpha | is the unbalanc | e factor between the pair sets. | It should be no | oted somewhere. |
| | | r to Table 33-18 new item 14 r current unbalance of pairs w | | | OBE | by comment # 3 | 0 | | |
| Symbo | l: lunb_ptp | ··· · · · · · · · · · · · · · · · · · | | | EZ | | | | |
| Additio | nax: TBD. nal information: | | | | Cl 33 Darshan, | SC 33.2.7 Yair | P 55 Microsemi | L 41 | # 29 |
| Add su Iunb_p | .2.7.10. b-claues 33.2.7 tp=(I1-I2)/(I1+I2 | 2). | | | <i>Comment</i> Missir | | Comment Status A e end of Note 1. | | PSE Unbalance |
| I1 and TBD2. | I2 are measure | rent of the same polarity. d at the maximum operating F | | | Suggester Insert | | end of Note 1 text. | | |
| clause. | note: To comple | ete the PD PI Pair to Pair Unb | alance requirem | ents and add it to this | Response ACCE | | Response Status C | | |
| Response | PT IN PRINCIPI | Response Status C | | | | | | | |
| ACCEP | | LE. | | | EZ | | | | |
| Remov | e lunb_p2p. | | | | CI 33 Darshan, | SC 33.2.7 Yair | P 55 Microsemi | L 41 | # 30 |
| | | | | | | | Comment Status A not explained in Note 1. lain it. | | PSE Unbalance |
| | | | | | | • | rstem end to end pair to pair re ard explicitly. | sistance/curren | t unbalance that is not |
| | | | | | Response ACCE | | Response Status C | | |
| | | | | | EZ | | | | |
| | | | | | | | | | |
| TYPE: TR/t | echnical require | ed ER/editorial required GR/ | general required | I T/technical E/editorial G/ | aeneral | | C/ 33 | | Page 19 of 37 |

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/ 33Page 19 of 37COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 33.2.75/23/2015 2:59:38 PMSORT ORDER: Clause, Subclause, page, line

| C/ 33 SC 33.2.7.1 | 1 P 61 | L 35 | # 64 | CI 33 | SC 33.2.7.4 | P 56 | L 34 | # 20 |
|--|--------------------------------|--------------------------|-----------------------|-----------------------------|-----------------------------|--|---------------------|-------------------------|
| Schindler, Fred | Seen Simply | | | Darshan, Ya | air | Microsemi | | |
| Comment Type ER | Comment Status A | | PSE Unbalance | Comment T | ype T | Comment Status A | | Pres Unbalance |
| The senetence applies | s to Types 2,3 and 4. | | | | | eters need some updates: | (| |
| SuggestedRemedy | | | | 1. PPE/ power). | AK_pd_2P nee | d to be defined as 0.5*Pclass | FOR CLASSES 5 TO | 8 (It is half the total |
| Type 2, Type 3, and T presence of (lunb / 2). | ype 4 Endpoint PSEs shall me | et the requirem | ents of 25.4.5 in the | | | er for Type 3 and 4 systems. Jation of E2EP2Plunb with th | e same data bas | se we used to define |
| Response ACCEPT. | Response Status C | | | Icon-2P | _lunb but now | PD power is Ppeak PD which alues for K in darashan_03_05 | n is defined by Ec | |
| ACCEPT. | | | | SuggestedF | Remedy | | | |
| C/ 33 SC 33.2.7.2 Bennett, Ken | P 55 Sifos Technolo | L 25 ogies, In | # 7 | (a) Cha PPeak_ 33–18. | nge from: PD-2P is the p | beak power a PD may draw po | er pair-set for its | class; see Table |
| Comment Type ER | Comment Status A | | PSE Unbalance | | | | | |
| Table 33-11, Item 20. and section 33.2.7.4a | The specification for lunb_ptp | has been supe | rceeded by item 4.1 | | | beak power a PD may draw p 8, PPeak_PD-2P=0.5*Pclass | | class; see Table |
| SuggestedRemedy | | | | 55-10. | 1 01 0123553 3- | 0, FFEak_FD-2F=0.5 FClass | _F D. | |
| Remove the lunb_ptp | section from item 20. | | | | nge from: | stem end to end pair-to-pair u | abalance offect" | |
| Response | Response Status C | | | | | ms and K=TBD for four pair s | | |
| ACCEPT IN PRINCIP | LE. | | | To: | | | | |
| OBE by comment # 1 | 9 | | | | et at the syste | m operating point were maxir | num Ipeak-2P is | obtained due to |
| | | | | | | air-to-pair unbalance effect". | | |
| | | | | | or Type 3 syste | ms (Type 1 and 2). ems. | | |
| | | | | | for Type 4 sys | | | |
| | | | | | | 2P maximum value is gurante ements in clause TBD and by | | |
| | | | | Response | | Response Status C | | |
| | | | | ACCEP | T IN PRINCIP | LE. | | |
| | | | | | hanges shown _03_0515_RE | | | |

C/ 33 SC 33.2.7.4

| CI 33 | SC 33.2.7.4 | P 56 | L 34 | # 8 |
|-------|-------------|------|------|-----|
| | | | | |

Bennett, Ken

Sifos Technologies, In



Pres Unbalance

Comment Status A Comment Type TR

Response

ACCEPT IN PRINCIPLE.

lpeak-2P unb = $(1+K) \times (lpeak-2P)33-6$

33.2.7.4 is the additional information for item 4 in table 33-11 (Icon-2P). The Icon 2P equation (0.5*PClass/Vport 2P) for type 3 and 4 in table 33-11 is based upon a perfectly balanced connection, and does not include the additional pair-set current that would be necessary to maintain PClass in an unbalanced connection (due to E2ERunb).

The additional information (Section 33.2.7.4) currently only addresses Ipeak-2P, and it does consider an unbalanced connection, using the (1+K) factor. However, Ipeak-2P described Equation 33-4 includes pair-set values for the PSE and PD, and it is unclear whether the PD pair-set value in 33-4 will also include the K factor (which would result in including K twice).

SugaestedRemedv

Change section 33.2.7.4 as follows:

33.2.7.4 Continuous output current capability in the POWER ON state

Icon-2P in table 33-11 is specified for a balanced system. When end-to-end unbalance is present, the PSE minimum requirement is:

Icon-2P unb = (1+K) x (Icon-2P)33-4

Where K is the factor due to the "system end to end pair-to-pair unbalance effect". K=0 for two pair systems and K=TBD for four pair systems.

In addition to ICon-2P unb, the PSE shall support the following AC current waveform parameters, while within the operating voltage range of VPort PSE:

IPeak-2P minimum for TCUT minimum and 5 % duty cycle:

[Editorial note: the equation below is unformatted. The only difference relative to Equation 33-4 in 802.3at is the "N" factor]

Ipeak-2P= Nx{(Vpse-[SQR_ROOT[Vpse^2-4N(Rchan)(Ppeak_PD)])/(2N(Rchan))} 33-5

Where:

Ipeak-2P: is the PSE minimum peak current requirement per pair-set in a balanced system

VPSE: is the PSE voltage at the PSE PI as defined in 33.1.4

RChan: is the channel loop resistance as defined in 33.1.4: this parameter has a worst-case value of RCh, defined in Table 33-1

N: N = 1 for 2-pair power. N = 0.5 for 4-pair power

PPeak PD: is the peak power a PD may draw for its class: see Table 33-18.

Ipeak-2P is specified for a balanced system. When end-to-end unbalance is present. minimum PSE pairset requirement is:

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: Clause, Subclause, page, line

OBE by comment # 20 C/ 33 SC 33.2.7.4 P 56 L 43 # 3 Maguire, Valerie Siemon Comment Type **T** Comment Status A PSE Power Clarify type of unbalance (i.e. resistance or current) SuggestedRemedy Replace "pair-to-pair unbalance effect" with "pair-to-pair resistance unbalance effect" Response Response Status C ACCEPT IN PRINCIPLE. OBE by comment # 20 P 57 SC 33.2.7.4a L10 C/ 33 # 63 Schindler, Fred Seen Simply Comment Type ER Comment Status A Editorial

Response Status C

We should determine if the IEEE has rules for variable subscripts. Sometimes we use lower case, upper case, or a combination if cases.

SuggestedRemedy

We should review the conventions and adapt variables to fit them.

Response Response Status C

ACCEPT IN PRINCIPLE.

Kousi to consult style guide and clean up draft where needed.

C/ 33 SC 33.2.7.4a Page 21 of 37 5/23/2015 2:59:38 PM

| C/ 33 SC 33 | 3.2.7.4a | P 57 | L 17 | # 72 | CI 33 S | C 33.2.7.7 | P 59 | L 19-2 | # 123 |
|-----------------------------------|------------------|---|---------------------|--------------------------|-----------------------------|--------------------------------|--|----------------------|-----------------------|
| Schindler, Fred | | Seen Simply | | | Yseboodt, Lenr | art | Philips | | |
| Comment Type | E Comi | ment Status A | | PSE Unbalance | Comment Type | т | Comment Status A | | PSE Power |
| This section onl | y applies to Typ | es 3 and 4. | | | "A PSE ma | y remove po | ower from a pair-set of a PI i | f the pair-set curre | ent" |
| | nat a reader mus | that this section app st parse to discover onse Status C | | eginning of this section | First one pa Then the fu | airset excee Il current of | too much current, this can ds, and gets disconnected a the PD gets transferred to th hutdown time is doubled. | fter Tlim. | |
| ACCEPT IN PR | INCIPLE. | | | | Some textu | al clarificatio | ons added + distinction betw | veen single and du | al signature PD. |
| Add following te | ext to beginning | of 33.2.7.4a: | | | SuggestedRem | edy | | | |
| "Type 3 and Typ this section." | pe 4 PSEs oper | ating over 4 pairs ar | e subject to unbla | ance requirements in | exceeds the in Figure 33 | e 'PSE lowe 3-14, when c | ower from both pair-sets of a rbound template' connected to a single signatu | ure PD. | |
| Cl 33 SC 33 Yseboodt, Lennart | 3.2.7.7 | P 59 Philips | L 19 | # 90 | the 'PSE lo in Figure 33 | werbound te 3-14, when c | wer from a pair-set of a PI if emplate' connected to a dual signatur d from both pair-sets of a PI | e PD. | |
| 51 | | ment Status A n a pair-set of a PI i | f the *the* pair-se | PSE Power t current" | 'PSE upper when conne | bound temp ected to a si | late' in Figure 33-14, ngle signature PD. | | |
| SuggestedRemedy "A PSE may rer | move power fror | n a pair-set of a PI i | f the pair-set curr | ent" | upperbound | d template' i | d from a pair-set of a PI befo n Figure 33-14, ual signature PD." | ore its pair-set cur | rent exceeds the PSE |
| Response | Respo | onse Status C | | | Response | | Response Status C | | |
| ACCEPT. | | | | | ACCEPT IN | N PRINCIPL | E. | | |
| EZ | | | | | The "PSE I 14. | owerbound t | emplate" and "PSE upperbo | ound template" are | e shown in Figure 33- |
| | | | | | from both p pair set, an | air sets if th d shall remo | ingle signature PD, a Type 3 e current draw exceeds the ive power from both pair set on either pair set. | "PSE lowerbound | template" on either |
| | | | | | any pair se | t that exceed | ual signature PD, a Type 3 d ds the "PSE lowerbound terr ds the "PSE upperbound ten | nplate", and shall r | |
| | | | | | Power may | be removed | from both pair sets any tim | e power is remove | ed from one pair set. |
| | | | | | | | | | |

C/ 33 SC 33.2.7.7

| C/ 33 SC 33.2.8 P 61 L 52 # 102 Yseboodt, Lennart Philips | C/ 33 Yseboo | SC : It, Lennar | 33.2.9.1.1 t | P 62 Philips | L 30-3 | # 130 |
|--|-----------------|--------------------|----------------------------|-----------------------------------|--------------------|------------------------|
| Comment Type T Comment Status A PSE does not initiate power provision to a link if the PSE is unable to provide the | SE Power Comme | nt Type | E Table 33-1 | Comment Status A | | PSE MPS |
| maximum power level requested by the PD based on the PD's class." This is open for misinterpretation: the power 'requested by the PD' can be higher th maximum power of | nan the Rep | | | able 33-12. | | |
| the PDs class due to power demotion. | Respon ACC | se CEPT. | | Response Status C | | |
| SuggestedRemedy A PSE does not initiate power provision to a link if the PSE is unable to provide the | e EZ | | | | | |
| maximum power level of the PDs assigned class. | C/ 33 | SC : It, Lennar | 33.2.9.1.1 | P 63 Philips | L 1 | # 82 |
| Response Response Status C ACCEPT IN PRINCIPLE. | Comme | | E | Comment Status A | | PSE MPS |
| Add editor's note: "Text needs to be added to mutual ID section to assign PD class power demotion." Cl 33 SC 33.2.9.1.1 P 62 L 28 # 71 | s during num | bered Tal | ble 33-1. ly | Parameters for AC discon | nect-detection fun | ctions" is incorrectly |
| Schindler, Fred Seen Simply | Respon | se | | Response Status C | | |
| Comment Type TR Comment Status A H | PSE MPS ACC | EPT. | | | | |
| The Task Force should determine whether new Types may use AC MPS. | EZ | | | | | |
| If permited several parameters may need to be recheck to ensure interoperability. example, the minimum VPSE may need to drop from 52V to a lower value. | CI 33 | | 33.2.9.1.2 | P 63 | L 2 | # 34 |
| SuggestedRemedy | Darshar | , Yair | | Microsemi | | |
| Determine if the Task Force wants to have new Types use AC MPS and adjust text accordingly. | | | ER e 33-1 nar | Comment Status A | | PSE MPS |
| Response Response Status C ACCEPT IN PRINCIPLE. | | | le 33-1 in p 3-12 (AC d | bage 22. isconnect parameters) | | |
| Accepting this comment results in no changes to the text. | ••• | edRemed | • | | | |
| | | nge to 33 | -12. | | | |
| At least one member of the group wants AC disconnect. | Respon ACC | se CEPT. | | Response Status C | | |
| Add editor's note: "Yair to review AC MPS for 4-Pair." in AC MPS section. | 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: Clause, Subclause, page, line

C/ 33 SC 33.2.9.1.2

| C/ 33 SC 33.2.9.1. Yseboodt, Lennart | 2 P 64 Philips | L 18 | # 131 | C/ 33 SC 33.3. Yseboodt, Lennart | 1 P 64 Philips | L 38 | # 104 |
|---|---|------|---------|---|---|---------------------|--------------------------|
| Comment Type E Reference to Table 33 | Comment Status A | | PSE MPS | <i>Comment Type</i> T The term pair-set i | Comment Status A sonly defined for the PSE, but a | also used and vali | PD F d for a PD. |
| SuggestedRemedy Replace Table 33-1 by Response ACCEPT. | r Table 33-12. Response Status C | | | | a PD refers to either of the con ode A and Mode B." <i>Response Status</i> C CIPLE. | nductor sets." afte | r "The two conductor |
| conductors." This statement is valid Type 3 and 4 PDs are | P 64 Philips Comment Status A ble of accepting power on eith for Type 1 & Type 2. required to support 4P power ine with Table 33-13a and we | | | set" without a hypł Add sentence to 3 "This clause uses | | 1.4." | nt with the use of "Pair |
| accept power on both Type 3 and Type 4 PD | is shall be capable of acceptir pair-sets. Is shall be capable of acceptir sower on both pair-sets. <i>Response Status</i> C | 0.1 | | Section 1.4 was no | ast comment cycle to add the de it updated accordinly in D0.4. set"landlits definition[as]referrin ed in 33.2.3. | | |

C/ 33 SC 33.3.1

| CI 33 SC : | 33.3.1 | P 64 | L 53 | # 142 | CI 33 | SC 33.3.2 | P 65 | L - | # 109 |
|--|--|--|---|--|--|--|--|---------------------|-------------------|
| lones, Chad | | Cisco | | | Yseboodt, | Lennart | Philips | | |
| Comment Type | т | Comment Status D | | PD PI | Comment | Туре Т | Comment Status A | | PD Types |
| Text in the ex commonly fou withstand app across the pir of the link seg | isting stand und in Ethe plication of ns correspo gment woul | 1274 on behalf of George Zin dard is ambiguous and is inco rnet equipment. The intent is common-mode PoE voltage. Inding to the two pairs twisted d run a DC current across the | onsistent with t to require PDs Application of d differentially t e transformer v | erminations and usage s to be able to 57V DC voltages in o form a balanced pair | does not tak Suggesteo Possib Replac | e extended pow <i>Remedy</i> le solutions: | with a "Highest Class" colum | | Type 4 (71.3W) it |
| SuggestedRemed Change: The permanent da To:The PD sh sets of two pir | dy PD shall w amage. nall withsta ns at the P | et equipment and burn them ithstand any voltage from 0 \ nd any common-mode voltag l indefinitely without permane palanced twisted wire pairs of | ′ to 57 V at the e from 0 V to 5 nt damage. T | 7 V applied to any two he two pins in each set | PD CI * 0-3 * 4 * 0-3 * 4 (lir * 4-6 * 7-8 | ass ne removed) | | | |
| Proposed Respon | nse | Response Status W | | | See re | eplacement table | e suggestion in yseboodt_D04 | 1_Table_33-13a_\ | /100.pdf |
| PROPOSED | | N PRINCIPLE. Can we use the definition of | pair-set make | this simpler? | Response ACCE | | Response Status C | | |
| | 33.3.1 | P 65 | L6 | # 97 | Adopt | table referenced | in suggested remedy. | | |
| rseboodt, Lennar | | Philips | - • | | C/ 33 | SC 33.3.2 | P 65 | L 32 | # 65 |
| Comment Type | Е | Comment Status A | | PD PI | Schindler, | Fred | Seen Simply | | |
| | - | or 2, mistyped Positive V_p | | | Comment Replac | 51 | Comment Status A w, "May be" with "Allowed." | | PD Types |
| SuggestedRemed Replace by "F | • | PD" | | | Suggesteo See at | • | | | |
| Response ACCEPT. | | Response Status C | | | Response | | Response Status C .E. | | |
| EZ | | | | | Possib | le OBE by com | ment # 109 | | |
| | | | | | make | change if comm | ent #109 is not resolved with a | a change to this te | ext. |
| | | | | | 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: Clause, Subclause, page, line

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| C/ 33 Yseboodt, I | SC 33.3.2 _ennart | P 65 Philips | L 33 | # 106 | C/ 33 Dwelley, E | SC 33.3.2 David | P 65 Linear Tech | L 49 Inology | # 41 |
|-----------------------------|-----------------------------|--|------------------|------------------------------|----------------------------|--|---|------------------------|----------------------|
| Comment T | | Comment Status A | | PD Types | Comment | | Comment Status A | | PD Types |
| Table 3 | 3-13a, column DL | L classification, Type 1 / ⁻ onal would be more apt. | 13W row, conten | | Table | | 'Needs 4-Pair Identification | before enabling 4 | |
| Suggestedl | Remedy | | | | Enabl | ing 4-pair power | s a PSE function, not a PD | function | |
| | e "May be" with "C | | 1 Table 22 12a | v100 pdf | Suggester | | | | |
| See rep Response | | uggestion in yseboodt_D0 <i>Response Status</i> C | 4_1able_33-13a | _v100.pat | 00 | ve Note 2. | | | |
| • | PT IN PRINCIPLE. | | | | Response |) | Response Status C | | |
| | | | | | ACCE | PT IN PRINCIPL | | | |
| | e OBE by comme | | | | Do co | mment 109 first. | | | |
| make c | hange if commen | t #109 is not resolved with | a change to this | text. | Repla | ce "Yes" in 4-pai | Capable column with "Ma | ndatory" for all Tvi | be 3 or Type 4 rows. |
| EZ | | | | | | | -pair Capable column with | | |
| CI 33 | SC 33.3.2 | P 65 | L 37 | # 107 | rows. | ice Allowed III 4 | -pair Capable column with | | ype i and i ype z |
| Yseboodt, I | _ennart | Philips | | | Remo | we note 2 Need | to add 4PID information to | PSE section | |
| Comment 7 | Гуре Т | Comment Status A | | PD Types | | | | | |
| | | L classification, Type 3 / ⁻ Type 3 13W (Class 3 max | | | C/ 33 Yseboodt, | SC 33.3.2 Lennart | P 66 Philips | L 10 | # 134 |
| Suggestedl | Remedy | | | | Comment | Туре Т | Comment Status A | | PD Classification |
| row "Ty | /pe 3, 13W". | nal" in the column "Data Li | - | | greate | er implement | Ds operating with a max por | | |
| Response | | Response Status C | | | classi | fication (see | ysical Layer classification (lass signature of 4, 5, 6, or | , | Data LITIK Layer |
| | | | | | Class | 8 missing. | | | |
| OBE D | y comment # 109 | | | | Suggestee | dRemedy | | | |
| | | | | | greate both r classi | er implement nultiple-Event Ph fication (see | Ds operating with a max poo ysical Layer classification (lass signature of 4, 5, 6, 7, | see 33.3.5.2) and | 5 |
| | | | | | Response | | Response Status C | | |
| | | | | | ACCE | PT. | · | | |
| | | | | | EZ | | | | |
| | | | , | | | | | | • •• ••- |
| | | | | I T/technical E/editorial G/ | | | CI | 33 33 3 2 | Page 26 of 37 |

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SC 33.3.2 5/23/2015 2:59:38 PM SORT ORDER: Clause, Subclause, page, line

| C/ 33 SC 33.3.2 P 66 L 12 # 98 Yseboodt, Lennart Philips | C/ 33 SC 33.3.2 P 66 L 4-8 # 132 Yseboodt, Lennart Philips |
|---|---|
| Comment Type T Comment Status A PD Power Line 9 says: The maximum power a PD expects to draw from a PSE is P Class_PD max as defined in Table 33-18. Purpose of this statement is unclear. If the reference point is the PSE, then the power is Pclass. If the reference point is the PD PI, the it is Pclass_pd for class 0-5 & 7 and Pclass for classes 6 and 8. | Comment Type E Comment Status A PD Types 'Max power' should be 'Maximum power' (two instances) SuggestedRemedy PD Types SuggestedRemedy Replace 'Max power' by 'Maximum power' PD Types Response Response Status C ACCEPT. C C |
| SuggestedRemedy Remove altogether or replace by: The maximum power a PD expects to draw from a PSE is P_Class at the PSE PI as defined in Equation 33-3 and Table 33-7. | EZ C/ 33 SC 33.3.3 P 68 L 16-3 # 91 |
| Response Response Status C ACCEPT IN PRINCIPLE. Remove this sentence. This information is covered in Table 33-18 and section 33.3.7.2. | Yseboodt, Lennart Philips Comment Type E Comment Status A PD State Diagram Variable is renamed from pse_dll_power_type to pse_dll_power_level, but it describes the type of the PSE connected. pse_dll_power_type is a more apt name. PD State Diagram |
| CI 33 SC 33.3.2 P 66 L 4-10 # 108 Yseboodt, Lennart Philips Comment Type T Comment Status A PD Types "Type 3 PDs operating up to a max power draw corresponding to Class 3 or less implement both 1-Event Physical Layer Classification and Data Link Layer classification (see 33.6) and advertise a 1-Event class signature of 0,1,2, or 3." There is no reason for a Type 3 13W (Class 3 max) PD to require DLL support. | SuggestedRemedy Rename pse_dll_power_level to pse_dll_power_type or to pse_dll_type Response Response Status C ACCEPT IN PRINCIPLE. Leave name as pse_dll_power_level Change description to: "A control variable output by the PD power control state diagram (Figure 33-3) that indicates the power level of the PSE by which the PD is being powered. |
| SuggestedRemedy "Type 3 PDs operating up to a max power draw corresponding to Class 3 or less implement a minimum of 1-Event Physical Layer classification and advertise a 1-Event class signature of 0, 1, 2, or 3. Response Response Status C | Values: 1: The PSE is delivering class 3 power or less. 2: The PSE is delivering class 4 power. 3: The PSE is delivering class 5 or class 6 power. 4: The PSE is delivering class 7 or class 8 power. |
| ACCEPT. Agree. Class 0-3 PDs should not be required to support LLDP. | |

CI 33 SC 33.3.3.3

| C/ 33 SC 33.3.3.3 Beia, Christian | B P 68 STMicroelect | L 17 ronics | # 51 | C/ 33 Beia, Chris | | 33.3.3.3 | S | P 68 TMicroelect | L 34 ronics | # 55 |
|--|--|------------------|---|--|---------|--------------|-----------------------------------|---------------------|-----------------------|------------------------|
| Comment Type E | Comment Status A | | PD State Diagram | Comment | Туре | TR | Comment Sta | atus A | | PD State Diagram |
| | nange from pse_dll_power_typ s not correspond to the name | | | maxim | num pov | wer suppli | #4 in pse_powe ed by a Type4 P | | | should indicate the |
| | ame "pse_dll_power_type" ins | tead of "pse_dll | _power_level" | Suggested Replac 4: The With: | ce: | - | g the PD's reque | ested power | or Class 7 powe | er, whichever is less. |
| Response | Response Status C | | | | PSE is | s deliverino | g the PD's reque | sted power | or Class 8 powe | er, whichever is less. |
| ACCEPT IN PRINCI | LE. | | | Response | | | Response Sta | tus C | | |
| OBE by comment # 9 | 11. | | | ACCE | PT IN F | PRINCIPL | E. | | | |
| Cl 33 SC 33.3.3.3 Yseboodt, Lennart | B P 68 Philips | L 34 | # 136 | | oy comr | ment #136 | i | | | |
| Comment Type T "4: The PSE is delive | Comment Status A ring the PD's requested power | r or Class 7 pow | PD State Diagram er, whichever is less." | EZ | | | | | | |
| Should be Class 8. | | | | | | | | | | |
| SuggestedRemedy "4: The PSE is delive | ring the PD's requested power | r or Class 8 pow | er, whichever is less." | | | | | | | |
| Response ACCEPT. | Response Status C | | | | | | | | | |

ΕZ

C/ 33 SC 33.3.3.3

| Cl 33 SC 33.3.3.4a F | °69 <i>L</i> 12-1 | # 94 | CI 33 | SC 33.3.3.4a | P 69 | L 8 | # 53 |
|--|-----------------------------|--------------------|-----------------------|--|--|---------|------------------|
| Yseboodt, Lennart Phi | ilips | | Beia, Christ | tian | STMicroelec | tronics | |
| Comment Type T Comment State | us A | PD State Diagram | Comment T | Type ER | Comment Status A | | PD State Diagram |
| "Type 3 MPS: A control variable that indic connected. This variable is used to indicate which M | | | timings | are not defined | ing: the classification event I in Table 33-7. Actually they comment is addressing this) | | |
| should use. Values: | | | Suggested | Remedy | | | |
| TRUE: The PSE uses Type 3 MPS requi FALSE: The PSE uses Type 1 MPS requ | irements." | | With: | assification ever | nt timing requirements are de | | |
| Bad variable name. Type description inco | omplete. | | | issincation ever | t timing requirements are de | | 5-17 |
| SuggestedRemedy | | | Response | | Response Status C | | |
| "short_mps: A control variable that indica connected. This variable is used to indicate which M | | | ACCEF Comme | ent 56 added ap | ppropriate row. | | |
| should use. Values: TRUE: The PSE uses Type 3, 4 MPS rec FALSE: The PSE uses Type 1, 2 MPS re | | | C/ 33 Yseboodt, L | | Philips | L 8 | # 93 |
| Response Response Statu ACCEPT IN PRINCIPLE. | is C | | Comment 7 Bad ref | <i>Type</i> E ference to Table | Comment Status A 33-7 | | PD State Diagram |
| "short_mps: A control variable that indica | tes to the PD the Type of F | PSE to which it is | Suggestedl Table 3 | Remedy 33-7 => Table 3 | 3-10 | | |
| connected. This variable is used to indicate which M should use. | PS timing requirements (se | ee 33.3.8) the PD | Response ACCEF | PT IN PRINCIPI | Response Status C .E. | | |
| Values: TRUE: The PSE uses Type 3, 4 MPS tim FALSE: The PSE uses Type 1, 2 MPS tir | | | OBE by | y comment #56 | | | |
| · · · · · · · · · · · · · · · · · · · | J - 1 | | EZ | | | | |

C/ 33 SC 33.3.3.4a

| C/ 33 S | SC 33.3.5.1 | P 74 | L 14 | # 135 | C/ 33 | SC 33.3 | 5.2 | P 75 | L 33 | # 56 |
|--|---|---|--|--|--|--|--|---|--|---|
| /seboodt, Len | nart | Philips | | | Beia, Chris | stian | | STMicroelect | tronics | |
| Comment Type | e T | Comment Status A | | PD Classification | Comment | Type TR | C | Comment Status A | | PD Classification |
| Event class draw corre | ssification, Typesponding , 5, 6 , or 7 res ,issing. | ation is a subset of Multiple- be 2, Type 3 and Type 4 PD spond to 1-Event classificati | s operating with | | Amon used t neces The A to the Howe | to determine sary becaus uto class sig Autoclass fe ver the timin | the PSE it is me nature tir ature and requirer | n electrical requirement MPS capability, is miss ntioned in table 33-19a. ning in 33-17a (TACS) of d not to MPS. ments are the same for able 33-10), with some of | sing. The PD TL cannot be used, both (in the rar | CF definition is as it specifically refers nge of Tpdc_max to |
| Event class draw corre | ssification, Typesponding | ation is a subset of Multiple- be 2, Type 3 and Type 4 PD | s operating with | | To kee | ep PD desig | | (5% clock accuracy) a g | | |
| to class 4, | , 5, 6, 7, or 8 i | respond to 1-Event classification | ation with a Class | s 4 signature." | Suggested | line in Table | 22 17 60 | | | |
| Response ACCEPT I | IN PRINCIPLI | Response Status C E. | | | Item: | "7"; paramet | er: "Long | first class event timing" tional information: "See | | F"; Units:"ms"; Min: |
| "Since 1-F | - vent classific | ation is a subset of Multiple- | | | Response | • | Re | esponse Status C | | |
| Event class draw corre | ssification, Typesponding | ation is a subset of Multiple- be 2, Type 3 and Type 4 PD nd to 1-Event classification | s operating with | | ACCE Addec symbo | PT IN PRIN d as much ra ol name to d | CIPLE. nge as po ferentiate | ossible while still keepin e from the PSE variable | | . Added PD to the |
| Event class draw corre to class or EZ C/ 33 S | ssification, Typesponding r higher respo | pe 2, Type 3 and Type 4 PD | s operating with with a Class 4 sig <i>L</i> 21 | | ACCE Addec symbo Add a Item: | PT IN PRIN d as much ra ol name to d line in Table "7"; paramet | CIPLE. nge as po ferentiate 33-17 fo er: "Long | ossible while still keepin e from the PSE variable or: | e. '; Symbol: "TLC | . Added PD to the F_PD"; Units:"ms"; Min: |
| Event class draw corre to class or EZ 2/ 33 S welley, David | ssification, Ty _f esponding r higher respo SC 33.3.5.2 d | pe 2, Type 3 and Type 4 PD nd to 1-Event classification P 75 | s operating with with a Class 4 sig <i>L</i> 21 | gnature." | ACCE Addec symbo Add a Item: | PT IN PRIN d as much ra ol name to d line in Table "7"; paramet | CIPLE. nge as po ferentiat 33-17 fo ar: "Long .5ms"; A | ossible while still keepin e from the PSE variable or: first class event timing | e. '; Symbol: "TLC | |
| Event class draw corre to class or EZ 2/ 33 S Dwelley, David Comment Type Table 33-1 | ssification, Ty _f esponding r higher respo SC 33.3.5.2 d e TR 16a: class ma | pe 2, Type 3 and Type 4 PD nd to 1-Event classification <i>P</i> 75 Linear Techn <i>Comment Status</i> R pping will cause LT legacy F | s operating with with a Class 4 sig <i>L</i> 21 ology PDs to motorboal | gnature." # 42 PD Classification | ACCE Addec symbo Add a Item: "75.5r | PT IN PRIN d as much ra ol name to d line in Table "7"; paramet ns"; Max: "8 SC 33.3 | CIPLE. nge as po ferentiat 33-17 fo ar: "Long .5ms"; A | ossible while still keepin e from the PSE variable or: first class event timing" dditional information: "\$ | e. '; Symbol: "TLC See 33.3.8" <i>L</i> 20 | F_PD"; Units:"ms"; Min: |
| Event class draw corre to class or EZ Cl 33 S Dwelley, David Comment Type Table 33-1 and 8 looks SuggestedRen | ssification, Ty _f esponding r higher respo SC 33.3.5.2 d e TR 16a: class ma ks weird but w medy | pe 2, Type 3 and Type 4 PD nd to 1-Event classification P75 Linear Techn Comment Status R pping will cause LT legacy F ill improve interoperability in | s operating with with a Class 4 sig <i>L</i> 21 ology PDs to motorboat the field. | gnature." # 42 PD Classification | ACCE Addec symbo Add a Item: "75.5r C/ 33 Schindler, Comment | PT IN PRIN d as much ra bl name to d line in Table "7"; paramet ns"; Max: "8 SC 33.3 Fred <i>Type</i> ER | CIPLE. nge as po ferentiati 33-17 fo er: "Long 5.5ms"; A 5.3 | ossible while still keepin e from the PSE variable or: first class event timing additional information: "S P 76 | e. '; Symbol: "TLC See 33.3.8" <i>L</i> 20 | F_PD"; Units:"ms"; Min: # 6 <u>6</u> |
| Event class draw corre to class or EZ Cl 33 S Dwelley, David Comment Type Table 33-1 and 8 looks SuggestedRen Reverse cl class 7: cla | ssification, Ty _f esponding r higher respo SC 33.3.5.2 d e TR 16a: class ma ks weird but w medy | pe 2, Type 3 and Type 4 PD nd to 1-Event classification <i>P</i> 75 Linear Techn <i>Comment Status</i> R pping will cause LT legacy F | s operating with with a Class 4 sig <i>L</i> 21 ology PDs to motorboat the field. | gnature." # 42 PD Classification | ACCE Addec symbo Add a Item: ' "75.5r C/ 33 Schindler, Comment Repla Suggested | PT IN PRIN d as much ra ol name to d line in Table "7"; paramet ns"; Max: "8 SC 33.3 Fred Type ER ce " the PD | CIPLE. nge as pr ferentiat 33-17 fo er: "Long .5ms"; A 5.3 C o which i | ossible while still keepin e from the PSE variable or: first class event timing kdditional information: "S P76 Seen Simply Comment Status A | e. '; Symbol: "TLC See 33.3.8" <i>L</i> 20 | F_PD"; Units:"ms"; Min: # 6 <u>6</u> |
| Event class draw corre to class or EZ C/ 33 S Dwelley, David Comment Type Table 33-1 and 8 look: SuggestedRen Reverse cl class 7: cla class 8: cla | ssification, Typ esponding r higher respo SC 33.3.5.2 d e TR 16a: class ma cs weird but w medy class_sig_B m ass_sig_B: 3 | pe 2, Type 3 and Type 4 PD nd to 1-Event classification P75 Linear Techn Comment Status R pping will cause LT legacy F ill improve interoperability in | s operating with with a Class 4 sig <i>L</i> 21 ology PDs to motorboat the field. | gnature." # 42 PD Classification | ACCE Addec symbo Add a ltem: " 75.5r C/ 33 Schindler, Comment Repla Suggested " the c | PT IN PRIN d as much ra ol name to d line in Table "7"; paramet ms"; Max: "8 SC 33.3 Fred <i>Type</i> ER ce " the PD dRemedy connected Pl | CIPLE. nge as pr ferentiati 33-17 fo er: "Long .5ms"; A 5.3 C o which i D." | ossible while still keepin e from the PSE variable or: first class event timing kdditional information: "S P76 Seen Simply Comment Status A t is connected." with | e. '; Symbol: "TLC See 33.3.8" <i>L</i> 20 | F_PD"; Units:"ms"; Min: |
| Event class draw corre to class or EZ C/ 33 S Dwelley, David Comment Type Table 33-1 and 8 looks SuggestedRen Reverse cl class 7: cla | ssification, Typ esponding r higher respo SC 33.3.5.2 d e TR 16a: class ma cs weird but w medy class_sig_B m ass_sig_B: 3 | be 2, Type 3 and Type 4 PD nd to 1-Event classification P 75 Linear Techn <i>Comment Status</i> R pping will cause LT legacy F ill improve interoperability in appings for classes 7 and 8 | s operating with with a Class 4 sig <i>L</i> 21 ology PDs to motorboat the field. | gnature." # 42 PD Classification | ACCE Addec symbo Add a Item: ' "75.5r C/ 33 Schindler, Comment Repla Suggested | PT IN PRIN d as much ra of name to d line in Table "7"; paramet ns"; Max: "8 SC 33.3 Fred Type ER ce " the PD dRemedy connected Pl | CIPLE. nge as pr ferentiati 33-17 fo er: "Long .5ms"; A 5.3 C o which i D." | ossible while still keepin e from the PSE variable or: first class event timing kdditional information: "S P76 Seen Simply Comment Status A | e. '; Symbol: "TLC See 33.3.8" <i>L</i> 20 | F_PD"; Units:"ms"; Min: # <u>66</u> |

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: Clause, Subclause, page, line

CI 33 SC 33.3.5.3

| CI 33 S | C 33.3.5.3 | P 76 | L 29 | # 73 | C/ 33 | SC 33.3.7 | P 77 | L 27-3 | # 103 |
|---|--|--|--|---|---|---|---|--------------------|---------------------|
| Schindler, Fred | | Seen Simply | | | Yseboodt | Lennart | Philips | | |
| Comment Type | TR | Comment Status A | | Pres Autoclass | Comment | Туре Т | Comment Status A | | Pres PD Voltage |
| Some of th | e requirement | s for Autoclass need to be | covered. | | | | Itage for a PD VPort_PD-2P(| min) is based on t | he highest power |
| SuggestedRem | nedy | | | | | of the Type. | d 7 will never see a voltage as | s low as currently | specified |
| | | time over which the measu used that is valid within TA | | | Hence Also, | their design cal | Is for an input voltage operation does not determine the mi | ng window that is | unnecessarily wide. |
| Response | | Response Status C | | | | W can still 37 0V input volta | ge from a Type 1 PSE. | | |
| ACCEPT I | | | | | Suggeste | • | | | |
| Adopt base | line text show | n in yseboodt_0515_Autoc | ass baseline n | art2_v150.pdf | 00 | , | tage on PD assigned class ra | other than Type | |
| Adopt base | | | ass_baseline_p | | | $_PD-2P(min) =$ | lage off i D assigned class ra | uner man rype. | |
| | s note: "Meas | urment method and PSE m | argin still to be | addressed" at end of | | 1: 42.2V | | | |
| 33.2.6 | | | | | | 2: 40.8V | | | |
| CI 33 S | C 33.3.5.3 | P 76 | L 37 | # 54 | | 3: 37.0V 4: 42.5V | | | |
| Beia, Christian | | STMicroelectr | • • | | | 4. 42.3V 5: 44.4V | | | |
| | | | 51105 | | | 6: 42.5V | | | |
| Comment Type | e TR | Comment Status A | | PD Classification | | 7: 43.0V | | | |
| | 7 | | | | Class | 8: 41.2V | | | |
| Table 33-17 | 1. | | straduces an un | necessary design | Response | | Response Status C | | |
| The autocla | ass signature | iming specification TACS in | | | | | | | |
| The autocla burden to th | ass signature he PD, since - | iming specification TACS in 3ms window over a 80ms | | | | | | | |
| The autocla burden to th than +-4%. | ass signature he PD, since - | 3ms window over a 80ms | timer requires a | clock accuracy better | | PT IN PRINCIP | | | |
| The autocla burden to tl than +-4%. This is the | ass signature the PD, since the only parameter | 3ms window over a 80ms r requiring such a high acc | timer requires a uracy of PD inte | clock accuracy better | ACCE | PT IN PRINCIP | | ther than Type. | |
| The autocla burden to tl than +-4%. This is the Since this F | ass signature f he PD, since - only paramete PD behavior is | 3ms window over a 80ms r requiring such a high acc a response to a PSE long | timer requires a uracy of PD inte finger, tentative | clock accuracy better rnal clock. y specified in table 33- | ACCE Base | PT IN PRINCIP | _E. | ther than Type. | |
| The autocla burden to tl than +-4%. This is the Since this F 11 as TLCF | ass signature f he PD, since - only paramete PD behavior is ==85ms min, | 3ms window over a 80ms r requiring such a high acc a response to a PSE long the requirement for TACS o | timer requires a uracy of PD inte finger, tentative an be relaxed s | clock accuracy better rnal clock. y specified in table 33- till maintaining a good | ACCE Base VPort Class | PT IN PRINCIP minimum PD vol _PD-2P(min) = 0: 37.0V | _E. | ther than Type. | |
| The autocla burden to th than +-4%. This is the Since this F 11 as TLCF margin (gre | ass signature + he PD, since + only paramete PD behavior is F=85ms min, ey area) on PS | 3ms window over a 80ms r requiring such a high acc a response to a PSE long | timer requires a uracy of PD inte finger, tentative an be relaxed s | clock accuracy better rnal clock. y specified in table 33- till maintaining a good | ACCE Base VPort Class Class | PT IN PRINCIP minimum PD vol _PD-2P(min) = 0: 37.0V 1: 42.2V | _E. | ther than Type. | |
| The autocla burden to th than +-4%. This is the Since this F 11 as TLCF margin (gre SuggestedRem | ass signature f he PD, since - only paramete PD behavior is ==85ms min, ay area) on PS nedy | 3ms window over a 80ms r requiring such a high acc a response to a PSE long the requirement for TACS o E timings (1ms after Tpdc_ | timer requires a uracy of PD inte finger, tentativel can be relaxed s max and before | clock accuracy better rnal clock. y specified in table 33- till maintaining a good | ACCE Base VPort Class Class Class | PT IN PRINCIP minimum PD vol _PD-2P(min) = 0: 37.0V 1: 42.2V 2: 40.8V | _E. | ther than Type. | |
| The autocla burden to th than +-4%. This is the Since this F 11 as TLCF margin (gre SuggestedRem | ass signature f he PD, since - only paramete PD behavior is ==85ms min, ay area) on PS nedy | 3ms window over a 80ms r requiring such a high acc a response to a PSE long the requirement for TACS o | timer requires a uracy of PD inte finger, tentativel can be relaxed s max and before | clock accuracy better rnal clock. y specified in table 33- till maintaining a good | ACCE Base VPort Class Class Class Class | PT IN PRINCIP minimum PD vol _PD-2P(min) = 0: 37.0V 1: 42.2V 2: 40.8V 3: 37.0V | _E. | ther than Type. | |
| The autocla burden to tl than +-4%. This is the Since this F 11 as TLCF margin (gree SuggestedRem Change TA | ass signature f he PD, since - only paramete PD behavior is F=85ms min, ey area) on PS hedy ICS min value | 3ms window over a 80ms r requiring such a high acc a response to a PSE long the requirement for TACS o E timings (1ms after Tpdc_ | timer requires a uracy of PD inte finger, tentativel can be relaxed s max and before | clock accuracy better rnal clock. y specified in table 33- till maintaining a good | ACCE Base VPort Class Class Class Class Class Class | PT IN PRINCIPI minimum PD vol _PD-2P(min) = 0: 37.0V 1: 42.2V 2: 40.8V 3: 37.0V 4: 42.5V | _E. | ther than Type. | |
| The autocla burden to th than +-4%. This is the Since this F 11 as TLCF margin (gree SuggestedRem Change TA Response | ass signature f he PD, since - only paramete PD behavior is F=85ms min, ey area) on PS hedy ICS min value | 3ms window over a 80ms r requiring such a high acc a response to a PSE long the requirement for TACS of E timings (1ms after Tpdc_ to 76ms and max value to | timer requires a uracy of PD inte finger, tentativel can be relaxed s max and before | clock accuracy better rnal clock. y specified in table 33- till maintaining a good | ACCE Base VPort Class Class Class Class Class Class Class | PT IN PRINCIPI minimum PD vol _PD-2P(min) = 0: 37.0V 1: 42.2V 2: 40.8V 3: 37.0V 4: 42.5V 5: 44.4V | _E. | ther than Type. | |
| The autocla burden to tl than +-4%. This is the Since this F 11 as TLCF margin (gree SuggestedRem Change TA Response | ass signature f he PD, since - only paramete PD behavior is ==85ms min, ay area) on PS nedy NCS min value | 3ms window over a 80ms r requiring such a high acc a response to a PSE long the requirement for TACS of E timings (1ms after Tpdc_ to 76ms and max value to | timer requires a uracy of PD inte finger, tentativel can be relaxed s max and before | clock accuracy better rnal clock. y specified in table 33- till maintaining a good | ACCE Base VPort Class Class Class Class Class Class Class Class | PT IN PRINCIPI minimum PD vol _PD-2P(min) = 0: 37.0V 1: 42.2V 2: 40.8V 3: 37.0V 4: 42.5V | _E. | ther than Type. | |

C/ 33 SC 33.3.7

| C/ 33 SC 33.3.7 | P 77 | L 29 | # 23 | C/ 33 SC 3 | 3.3.7 | P 78 | L 15-1 | # 100 |
|---|---|-------------------|------------------------|--|---|---|--------------------|------------------------------------|
| arshan, Yair | Microsemi | | | Yseboodt, Lennart | | Philips | | |
| <i>Comment Type</i> E Typo. Redundant 33.3.7.1 in a | Comment Status A additional informatione colum | inn of Table 33- | PD Power 18 item 1. | PD Powers car | now be calcu | <i>mment Status</i> A llated from Pclass. | | PD Power |
| SuggestedRemedy Change from 33.3.7.13 Response | 3.3.7.1 to 33.3.7.1. Response Status C | | | | Pclass_pd(m Pclass_pd(m Pclass_pd(m | ax) ax) (note: rounded up b | | |
| ACCEPT. | | | | Class 8: 71.3W Response | — · · · | ax) (note: rounded up t ponse Status C | oy 22.3mW) | |
| EZ | | | | ACCEPT IN PF | RINCIPLE. | | | |
| 2/33 SC 33.3.7 | P 78 | L 15 | # 24 | OBE by comme | ent # 24. | | | |
| earshan, Yair Comment Type T | Microsemi Comment Status A | | PD Power | CI 33 SC 3: Darshan, Yair | 3.3.7 | P 78 Microsemi | L 37 | # 25 |
| inserted instead of TBD See darshan_03_0515. The equation to be use Pclass_PD=[W]=Pclass | pdf for details d is: s - 6.25*(Pclass/Vpse_min)^2 r Pclass=45W (Class 5). | | now be calculated and | Table 33-18 ite Peak operating class 6 is 2xTy | m 5 and 6. power for clas be 2 power an | mment Status A ss 5 and 6. can be 1.11 d it is higher than class darshan_03_0515.pdf, o | 5. | |
| class_PD=62W for Pcla | ass=75W (Clas 7). | | | SuggestedRemedy | | | | |
| uggestedRemedy | Table 22.40 | | | Replace TBDs | in Table 33-18 | 3 item 7 for class 5 -8 w | vith 1.11*Pclass_l | PD. |
| Update TBDs in item 4 Pclass_PD=39.94W for Pclass_PD=51W for Cl | r Class 5. lass 6. | | | Response ACCEPT IN PF | RINCIPLE. | ponse Status C | bon 02 0515 P | |
| Pclass_PD=62W for Cl | Response Status C | | | | • | | | · |
| ACCEPT IN PRINCIPL | • | | | CI 33 SC 33 Yseboodt, Lennart | 3.3.7 | P 78 Philips | L 45-4 | # 126 |
| Correcting for typos and | d signifcant digits, and roundi | ing class 5 sligh | tly up to 40. | Comment Type | | <i>mment Status</i> A for Type 1 and 2. | | PD Power |
| Update TBDs in item 4 | Table 33-18 with: | | | SuggestedRemedy | | | | |
| Pclass_PD=40.0W for | | | | Add extra lines | for Type 3 an | d 4 with TBD. | | |
| Pclass_PD=51.0W for (Pclass_PD=62.0W for (| | | | Response ACCEPT. | Res | ponse Status C | | |
| Add editor's note: "Clas | ss 5 power rounded up from 3 | 39.94W to 40W | | EZ | | | | |
| | d ER/editorial required GR/g patched A/accepted R/reject | | | | rawn | Cl 33 SC 33 | | Page 32 of 37 5/23/2015 2:59:39 |

SORT ORDER: Clause, Subclause, page, line

| C/ 33 SC 33.3.7 Yseboodt, Lennart | P 78 Philips | L 45-4 | # 125 | Cl 33 SC 33. Yseboodt, Lennart | 3.8 <i>P</i> 84 Philips | | # 95 |
|--|---|--------------------|---|--|-----------------------------------|--------------------------|-----------------------------------|
| Comment Type T | Comment Status A rent transient and PI capaci | tance are only lis | <i>PD Power</i> ted for Type 1 and 2. | Comment Type E | · | D | PD MPS |
| SuggestedRemedy Add extra lines for Type | 3 and 4 with TBD. | · | | SuggestedRemedy "The MPS consis | sts of current draw equal to | or above Iport_MPS for | a" |
| Response ACCEPT. | Response Status C | | | Proposed Response REJECT. | Response Status | Z | |
| C/ 33 SC 33.3.7 Darshan, Yair | P 79 Microsemi | L 15 | # 26 | This comment w | as WITHDRAWN by the co | mmenter. | |
| Comment Type T 1)Table 33-18 item 11 V | | | PD Power | This is existing la | angauge and I believe it is c | lear enough. | |
| PD Type need to be 1,2, 2) Typo in additional info | | | | Cl 33 SC 33. Schindler, Fred | | 4 L 33 Simply | # 57 |
| SuggestedRemedy 1) Change PD Type fron 2) Change 33.3.7.133.3. | n 1,2, to 1,2,3,4 for both Vo 7.1 to 33.3.7.1. | n and Voff. | | Comment Type E | | Α | PD MPS |
| Response ACCEPT IN PRINCIPLE | Response Status C | | | SuggestedRemedy See above. | | | |
| Proposal "1)" is OBE by | comment # 126. | | | Response ACCEPT. | Response Status | С | |
| accept for proposal "2)" | D a a | 1.40 | # 07 | EZ | | | |
| X SC 33.3.7.3 Darshan, Yair | P 80 Microsemi | L 46 | # 27 | C/ 33 SC 33. Yseboodt, Lennart | 3.8 P 84 Philips | | # 124 |
| <i>comment Type</i> T It is not clear from Table | Comment Status A 33-18 item 9 that the Cport | t min=5uFisper | PD Power | Comment Type E | Comment Status | Α | PD MPS |
| uggestedRemedy Add the following text at | the end of 33.3.7.3: | | | Reference to Zao This should be T See other comm | able 33-12, but note, Table | 33-12 is erroneously lis | sted as Table 33-1. |
| Cport_min is the the min pairs. | imum value of Cport seen b | by an attached P | SE on two twisted | SuggestedRemedy Change reference | e to Table 33-12. | | |
| Response ACCEPT IN PRINCIPLE | Response Status C | | | Response | Response Status | c | |
| | | | | ACCEPT. | | • | |
| Copy item 9 to item 9a in | n table 33-18. | | | EZ | | | |
| Make name Cport_2p Make PD Type 3,4 | | | | | | | |
| TYPE: TR/technical required | | | T/technical E/editorial G/g SE STATUS: O/open W/wi | | awn | CI 33 SC 33.3.8 | Page 33 of 37 5/23/2015 2:59:3 |

| C/ 33 SC 33.3.8 Darshan, Yair | P 85 Microsemi | L 13 | # 35 | C/ 33 Dwelley, D | SC 33.3.8 avid | P 85 Linear Tech | L 15 nology | # 36 |
|--|--|---|--|--|--|---|-----------------------|---------------------------------------|
| Comment Type TR Comment The Iport_MPS conditions for Type 1 | | fied. | Pres MPS | Comment Type 3 | 51 | Comment Status D | the 22mA numbe | PD MPS er is obsolete |
| SuggestedRemedy In Table 33-18 item 1 for PD Type 1- Add to th econdition column: for Single Signature PD and class 0- Response ACCEPT IN PRINCIPLE. OBE by comment # 18. | 4. | | | Proposed REJE | e spec based o <i>Response</i> CT. | n results of joint presentation <i>Response Status</i> Z ITHDRAWN by the commer | | |
| C/ 33 SC 33.3.8 /seboodt, Lennart | P 85 Philips | L 1-4 | # 96 | Will ho | old comment un | til presentation(s) on this top | ic. | |
| Comment Type T Comment | • | | PD MPS | C/ 33 Darshan, N | SC 33.3.8 | P 85 Microsemi | L 15 | # 28 |
| PDs that make use of duty cycling wi PDs that draw just lport_mps with the with even the smallest allowed Cport SuggestedRemedy Replace note by: PDs may not be able to meet the I Pr maximum allowed port voltage droop (V Port_PSE max to V Such a PD should increase its I Port Maintain Power Signature. | e minimum duty ort_MPS specific Port_PSE min v | cycle (all types) cation in Table 3 with series resis |) also get in trouble 33-19 during the tance R Ch). | suppo Suggester Updat Response ACCE OBE b | 33-18 do not co rted by Type 3 a <i>IRemedy</i> ed Table 33-18 PT IN PRINCIP by comment # 1 | 8. | nt balanced and u | Inbalanced conditionall. 0515.pdf. |
| Response Response S ACCEPT. | Status C | | | C/ 33 Maguire, V | SC 33.4.8 /alerie | P 92 Siemon | L 15 | # 2 |
| The note is informative and thus mak good idea for PD designers to consid However, the 180uF number seems implemenations that use pulsing. | ler the effect of I | PSE behavior or | n their PD. | Suggested | erminology cons IRemedy ce "channel unb | Comment Status A istent with rest of draft. alance currents" with "chann Response Status C | nel current unbala | AES |

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: Clause, Subclause, page, line

C/ 33 SC 33.4.8

| seboodt, Lennart Philips omment Type E Comment Status A AES "For 10GBASE-T operation, insertion loss for **Mispan** PSE devices shall meet the values determined by Equation (33-19a) when measured **fro** the **trasmit** and receive pairs from 1 MHz to 500 MHz." uggestedRemedy Mispan -> Midspan fro -> from trasmit -> transmit esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P96 L 50 # 129 seboodt, Lennart Philips omment Type E Comment Status A AES Reference to Table 33-1 wrong. uggestedRemedy Replace Table 33-1 by Table 33-20. esponse Response Status C | Cl 33 SC 33.4.9.13 $P 97$ $L 5$ # 137 Shariff, Masood CommScope Comment Type T Comment Status R A Connector RL is not correct for Category 5 connectors. SuggestedRemedy Use the following for the first row: 10/100/1000BASE-T 1 MHz <=f <= 31.5 MHz 30 dB 20 MHz < f <= 100 MHz 20 - 20 log(f/100) Response Response Status C REJECT. This should be submitted as a maintenance request. 52 Cl 33 SC 33.4.9.2.1 P 99 L 23 # 52 Beia, Christian STMicroelectronics 52 Comment Type ER Comment Status A Figure 33-1. The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. SuggestedRemedy |
|--|---|
| omment Type E Comment Status A AES "For 10GBASE: T operation, insertion loss for **Mispan** PSE devices shall meet the values determined by Equation (33-19a) when measured **fro** the **trasmit** and receive pairs from 1 MHz to 500 MHz." uggestedRemedy Mispan -> Mispan fro -> from trasmit Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 96 L 50 # 129 seboodt, Lennart Philips AES reference to Table 33-1 wrong. Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 96 L 50 # 129 seboodt, Lennart Philips AES reference to Table 33-1 wrong. Response Status C ACCEPT. EZ ACCEPT. AES uggestedRemedy Response Status C AES Reference to Table 33-1 by Table 33-20. Esponse Response Status C ACCEPT. EZ ACE ACE / 33 SC 33.4.9.1.3 P 97 L 1 # 128 / 33 SC 33.4.9.1.3 P 97 L 1 # 128 | Comment TypeTComment StatusRAConnector RL is not correct for Category 5 connectors.SuggestedRemedyUse the following for the first row: $10/100/1000BASE-T 1 MHz <=f <= 31.5 MHz 30 dB$ $20 MHz < f <= 100 MHz 20 - 20 log(f/100)$ $Response C = 100 MHz 20 - 20 log(f/100)$ ResponseResponse StatusCREJECT.This should be submitted as a maintenance request. $C/33$ $SC 33.4.9.2.1$ $P 99$ $L 23$ $# 52$ Beia, ChristianSTMicroelectronics $STMicroelectronics$ A Comment TypeERComment Status A Figure 33-1.The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. |
| "For 10GASE-T operation, insertion loss for **Mispan** PSE devices shall meet the values determined by Equation (33-19a) when measured **fro** the **trasmit** and receive pairs from 1 MHz to 500 MHz." urggestedRemedy Mispan -> Midspan fro -> from trasmit -> transmit esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 96 L 50 # 129 seboodt, Lennart Philips omment Type E Comment Status A AES Reference to Table 33-1 wrong. urggestedRemedy Replace Table 33-1 by Table 33-20. esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 97 L 1 # 128 | Connector RL is not correct for Category 5 connectors. SuggestedRemedy Use the following for the first row: $10/100/1000BASE-T \ 1 \ MHz \ <= f \ <= \ 31.5 \ MHz \ 30 \ dB \ 20 \ MHz \ < f \ <= \ 100 \ MHz \ 20 \ - \ 20 \ \log(f/100)$ Response Response Status C REJECT. This should be submitted as a maintenance request. C/ 33 SC 33.4.9.2.1 P 99 L 23 # 52 Beia, Christian STMicroelectronics Comment Type ER Comment Status A A Figure 33-1. The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. |
| values determined by Equation (33-19a) when measured **fro** the **trasmit** and receive pairs from 1 MHz to 500 MHz." uggestedRemedy Mispan -> Midspan fro -> from trasmit -> transmit esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 96 L 50 # 129 seboodt, Lennart Philips omment Type E Comment Status A AES Reference to Table 33-1 wrong. uggestedRemedy Replace Table 33-1 by Table 33-20. esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 97 L 1 # 128 seboodt, Lennart Philips | SuggestedRemedy Use the following for the first row: $10/100/1000BASE-T 1 MHz <= f <= 31.5 MHz 30 dB20 MHz < f <= 100 MHz 20 - 20 log(f/100)$ |
| Equation (33-19a) when measured **fro** the **trasmit** and receive pairs from 1 MHz to 500 MHz." uggestedRemedy Mispan -> Midspan fro -> from trasmit -> transmit esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P96 L 50 # 129 seboodt, Lennart Philips omment Type E Comment Status A AES Reference to Table 33-1 wrong. uggestedRemedy Replace Table 33-1 by Table 33-20. esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P97 L 1 # 128 | Use the following for the first row: 10/100/1000BASE-T 1 MHz <= f <= 31.5 MHz 30 dB 20 MHz < f <= 100 MHz 20 - 20 log(f/100) Response Response Status C REJECT. This should be submitted as a maintenance request. C/ 33 SC 33.4.9.2.1 P 99 L 23 # 52 Beia, Christian STMicroelectronics Comment Type ER Comment Status A A Figure 33-1. The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. |
| Mispan -> Midspan fro -> from trasmit -> transmitesponseResponse StatusCACCEPT.EZ/ 33SC 33.4.9.1.3P 96L 50# 129seboodt, LennartPhilipsomment TypeEComment StatusAESReference to Table 33-1 wrong.uggestedRemedyReplace Table 33-1 by Table 33-20.esponseResponse StatusCACCEPT.EZ/ 33SC 33.4.9.1.3P 97L 1# 128seboodt, LennartPhilipsP 97L 1# 128 | 20 MHz < f <= 100 MHz20 - 20 log(f/100)ResponseResponse StatusCREJECT.This should be submitted as a maintenance request.Cl 33SC 33.4.9.2.1P 99L 23# 52Beia, ChristianSTMicroelectronicsComment TypeERComment TypeERComment TypeComment StatusAFigure 33-1.The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. |
| fro -> from trasmit -> transmit esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P96 L 50 # 129 seboodt, Lennart Philips omment Type E Comment Status A AES Reference to Table 33-1 wrong. uggestedRemedy Replace Table 33-1 by Table 33-20. esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P97 L1 # 128 | 20 MHz < f <= 100 MHz20 - 20 log(f/100)ResponseResponse StatusCREJECT.This should be submitted as a maintenance request.Cl 33SC 33.4.9.2.1P 99L 23# 52Beia, ChristianSTMicroelectronicsComment TypeERComment TypeERComment TypeComment StatusAFigure 33-1.The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. |
| trasmit -> transmit esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P96 L 50 # 129 seboodt, Lennart Philips comment Type E Comment Status A AES Reference to Table 33-1 wrong. UggestedRemedy Replace Table 33-1 by Table 33-20. esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P97 L 1 # 128 | REJECT. This should be submitted as a maintenance request. Cl 33 SC 33.4.9.2.1 P 99 L 23 # 52 Beia, Christian STMicroelectronics Comment Type ER Comment Status A Figure 33-1. The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. |
| esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 96 L 50 # 129 seboodt, Lennart Philips comment Type E Comment Status A AES Reference to Table 33-1 wrong. uggestedRemedy Replace Table 33-1 by Table 33-20. esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 97 L 1 # 128 seboodt, Lennart Philips | REJECT. This should be submitted as a maintenance request. Cl 33 SC 33.4.9.2.1 P 99 L 23 # 52 Beia, Christian STMicroelectronics Comment Type ER Comment Status A Figure 33-1. The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. |
| ACCEPT. EZ / 33 SC 33.4.9.1.3 P 96 L 50 # 129 seboodt, Lennart Philips omment Type E Comment Status A AES Reference to Table 33-1 wrong. uggestedRemedy Replace Table 33-1 by Table 33-20. esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 97 L 1 # 128 seboodt, Lennart Philips | Cl 33 SC 33.4.9.2.1 P 99 L 23 # 52 Beia, Christian STMicroelectronics 52 Comment Type ER Comment Status A Figure 33-1. The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. A |
| EZ / 33 SC 33.4.9.1.3 P 96 L 50 # 129 seboodt, Lennart Philips AES omment Type E Comment Status AES reference to Table 33-1 wrong. AES AES uggestedRemedy Replace Table 33-1 by Table 33-20. AES esponse Response Status C ACCEPT. EZ A3 SC 33.4.9.1.3 P 97 L 1 # 128 / 33 SC 33.4.9.1.3 P 97 L 1 # 128 | Cl 33 SC 33.4.9.2.1 P 99 L 23 # 52 Beia, Christian STMicroelectronics 52 Comment Type ER Comment Status A Figure 33-1. The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. A |
| / 33 SC 33.4.9.1.3 P 96 L 50 # 129 seboodt, Lennart Philips AES omment Type E Comment Status AES Reference to Table 33-1 wrong. AES AES uggestedRemedy Replace Table 33-1 by Table 33-20. AES esponse Response Status C ACCEPT. EZ A3 SC 33.4.9.1.3 P 97 L 1 # 128 / 33 SC 33.4.9.1.3 P 97 L 1 # 128 | Beia, Christian STMicroelectronics Comment Type ER Comment Status A Figure 33-1. The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. A |
| 7 33 SC 33.4.9.1.3 P 96 L 50 # 129 seboodt, Lennart Philips # 129 omment Type E Comment Status A AES Reference to Table 33-1 wrong. uggestedRemedy AES AES replace Table 33-1 by Table 33-20. esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 97 L 1 # 128 / 33 SC 33.4.9.1.3 P 97 L 1 # 128 | Comment Type ER Comment Status A A Figure 33-1. The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. A |
| seboodt, Lennart Philips omment Type E Comment Status A AES Reference to Table 33-1 wrong. uggestedRemedy Replace Table 33-1 by Table 33-20. esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P97 L1 # 128 seboodt, Lennart Philips | Figure 33-1. The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. |
| Reference to Table 33-1 wrong. uggestedRemedy Replace Table 33-1 by Table 33-20. esponse Response Status C ACCEPT. EZ / 33 SC 33.4.9.1.3 P 97 L 1 # 128 seboodt, Lennart Philips | The figures numbering on this page till the end of clause 33 is wrong, because it restarts from 33-1, while it should continue as 33-26. |
| Replace Table 33-1 by Table 33-20. esponse Response Status ACCEPT. EZ / 33 SC 33.4.9.1.3 P 97 L 1 # 128 seboodt, Lennart Philips | SuggestedRemedy |
| Replace Table 33-1 by Table 33-20. esponse Response Status ACCEPT. EZ / 33 SC 33.4.9.1.3 P 97 L 1 # 128 seboodt, Lennart Philips | |
| ACCEPT. EZ / 33 SC 33.4.9.1.3 P 97 L 1 # 128 seboodt, Lennart Philips | Renumber Figure 33-1 on page 99 as 33-26; 33-2 on page 110 as 33-27; 33-3 on page |
| ACCEPT. EZ / 33 SC 33.4.9.1.3 P 97 L 1 # 128 seboodt, Lennart Philips | 111 as 33-28. |
| EZ / 33 SC 33.4.9.1.3 <i>P</i> 97 <i>L</i> 1 # 128 seboodt, Lennart Philips | Response Response Status C |
| / 33 SC 33.4.9.1.3 P 97 L 1 # 128 seboodt, Lennart Philips | ACCEPT. |
| seboodt, Lennart Philips | EZ |
| | |
| omment Type F Comment Status A AFS | |
| Table "Connector return loss" should be numbered Table 33-20. | |
| uggestedRemedy | |
| Replace Table 33-1 by Table 33-20. | |
| esponse Response Status C | |
| 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: Clause, Subclause, page, line

C/ 33 SC 33.4.9.2.1

| C/ 33 SC 33 | 6.6 | P 104 | L 24-2 | # 79 | | CI 33 | | 33.6.3.2 | P 105 | L 35-4 | # 76 | |
|--|-------------------------------|---------------------------------------|---------------|------|-----|---|---|----------------------|-------------------------|---------------|------|--|
| 'seboodt, Lennart | | Philips | | | | Yseboodt, | Lennart | | Philips | | | |
| Comment Type T Comment Status A DLL "Type 2 PDs that require more than 13.0 W support Data Link Layer classification (see | | | | | | | Comment Type T Comment Status A Pres D PD_DLLMAX_VALUE is still TBD for Class 5 and up. Can now be filled out since PD | | | | | |
| 33.3.5). Data Link Layer classification is optional for all other devices." | | | | | | powers are known. Note: pd_max_power for class 8 is still TBD pending another comment. | | | | | | |
| Last scentence needs to be adjusted for Type 3 and 4. | | | | | | | SuggestedRemedy | | | | | |
| SuggestedRemedy | | | | | | PD_DLLMAX_VALUE = pd_max_power 5 399 pd_max_power 6 510 pd_max_power 7 620 pd_max_power 8 TBD | | | | | | |
| Replace text by: "Type 2, 3 and 4 PDs that require more than 13.0 W support Data Link Layer classification (see 33.3.5). Data Link Layer classification is optional for all other devices." | | | | | | | | | | | | |
| Response Response Status C | | | | | | Response | | | Response Status C | | | |
| ACCEPT. | Respons | | | | | ACCE | PIINP | RINCIPLE | Ξ. | | | |
| EZ | Z | | | | | | PD_DLLMAX_VALUE = pd_max_power 5 400 pd_max_power 6 510 pd_max_power 7 620 | | | | | |
| 'seboodt, Lennart | | | | | | pd_max_power 8 TBD | | | | | | |
| | E Comme and 4 PSEs shall s | ent Status A send an LLDPDU | containing" | | DLL | C/ 33 Yseboodt, | | 33.6.3.2 | P 105 Philips | L 35-4 | # 77 | |
| SuggestedRemedy | | | | | | Comment Type T Comment Status D Pres DL | | | | | | |
| "Type 2, 3, and 4 PSEs shall send an LLDPDU containing" | | | | | | For Type 4 the Type max power is 99.9W LLDP is a way for the PD to request power beyond what L1 classification can deliver. A PSE that sources 99.9W (@52V) will deliver 76.8W at the PD PI (6.25 ohm channel). | | | | | | |
| Response Response Status C ACCEPT. | | | | | | | | | | | | |
| ACCEPT. | | | | | | Suggested | dRemed | V | | | | |
| EZ | | | | | | _ | | _VALUE = er 8 768 | | | | |
| | | | | | | Proposed | Respon | se | Response Status Z | | | |
| | | | | | | REJE | CT. | | | | | |
| | | | | | | This comment was WITHDRAWN by the commenter. | | | | | | |
| | | | | | | No real PSE will be able to supply this power as some margin is needed in the power limit. | | | | | | |
| | | | | | | | | | | | | |

CI 33 SC 33.6.3.2

133 C/ 33 SC 33.6.3.2 P 105 L 42-5 # 78 C/ 33 SC 33.6.3.3 P 108 L 38-4 Yseboodt, Lennart Philips Yseboodt, Lennart Philips Comment Type T Comment Status A Comment Type E Comment Status A DLL Pres DLL PD INITIAL VALUE is still TBD for Class 5 and up. Can now be filled out since PD powers 'Max power' should be 'Maximum power' (two instances) are known. SuggestedRemedy SuggestedRemedy Replace 'Max power' by 'Maximum power' PD DLLMAX VALUE = Response Response Status C pd max power 5 <= 399 pd_max_power 6 <= 510 ACCEPT. pd max power 7 <= 620 pd_max_power 8 <= 713 ΕZ Response Response Status C SC 33.8.3.4 C/ 33 P 127 L 20 # 5 ACCEPT IN PRINCIPLE. Maguire, Valerie Siemon PD DLLMAX VALUE = Comment Type T Comment Status R Unbalance pd max power 5 <= 400 Clarify type of unbalance (i.e. resistance or current) pd max power 6 <= 510 pd_max_power 7 <= 620 SuggestedRemedy pd max power 8 <= 713 Replace "PSE and PD channel unbalance" with "PSE and PD channel current unbalance" C/ 33 SC 33.6.3.2 P 106 L 13-1 # 122 Response Response Status C REJECT. Yseboodt, Lennart Philips Comment Type **T** Comment Status A Pres DLL This should be filed as a maintenance request. PSE INITIAL VALUE is still TBD for Class 5 and up. Can now be filled out since PD powers are known. SuggestedRemedy PSE INITIAL VALUE = mr pd class detected 5 399 mr_pd_class_detected 6 510 mr pd class detected 7 620 mr_pd_class_detected 8 713 Response Response Status C ACCEPT IN PRINCIPLE. PSE_INITIAL_VALUE = mr pd class detected 5 400 mr pd class detected 6 510 mr_pd_class_detected 7 620 mr pd class detected 8 713

IEEE P802.3bt D0.4 DTE Power via MDI over 4-Pair 2nd Task Force review comments