

EEE P802.3cq D0.1 Maintenance #13: Power over Ethernet over 2 pairs 1st Task Force review comments

CI 33 SC 33.1.4 P L # 1 [REDACTED]  
 Jones, Chad Cisco

Comment Type TR Comment Status A

Filed on behalf of Geoff Thompson (1271)

Move as much of the cabling specification to cabling documents as possible. (This RR was entered as a tracking mechanism for Thompson Comment #59 against P802.3REVbx/D2.0 during initial WG ballot. Resolution of this comment was given over to P802.3bt as they will have CI 33 open.)

*SuggestedRemedy*

see maint\_1271.pdf for proposed text

Response Response Status C

ACCEPT IN PRINCIPLE.

Editor to align usage of link segment and link section with clause 145.

No other changes based upon this comment.

CI 33 SC 33 P624 L # 2 [REDACTED]  
 Jones, Chad Cisco

Comment Type TR Comment Status A

Filed on behalf of George Zimmermann (1273)

Text in the existing standard is ambiguous and is inconsistent with the more precise definition in the definitions section. The imprecise language "generic term" does not point to a specific interface point necessary for the specifications attached to the PI, including a pin-out. In contrast the language in the definitions section is more precise.

*SuggestedRemedy*

Change: The Power Interface (PI) is the generic term that refers to the mechanical and electrical interface between the PSE or PD and the transmission medium. To: The Power Interface (PI) is the mechanical and electrical interface between the Power Sourcing Equipment (PSE) or Powered Device (PD) and the transmission medium as defined in 1.4.324 (1.4.336 in P802.3bx/D2.0). In an Endpoint PSE and in a PD the Power Interface is the MDI as defined in 1.4.256 (1.4.268 in P802.3bx/D2.0)

Response Response Status C

ACCEPT IN PRINCIPLE.

Change: The Power Interface (PI) is the generic term that refers to the mechanical and electrical interface between the PSE or PD and the transmission medium.

To:

The Power Interface (PI) is the mechanical and electrical interface between the Power Sourcing Equipment (PSE) or Powered Device (PD) and the transmission medium as defined in 1.4.406.

In an Endpoint PSE and in a PD the Power Interface is the MDI as defined in 1.4.324.

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Cl 33 SC 33 P622 L # 3  
 Jones, Chad Cisco

Comment Type TR Comment Status A

Filed on behalf of David Law (1276)  
 CLAUSE NUMBER: 1.4, 1.5, 33.1

The IEEE Std 802.3-2012 keywords include 'Power over Ethernet', however 'Power over Ethernet' and 'PoE' do not appear anywhere within the body of the standard.

*SuggestedRemedy*

[1] Add the following new definition in alphanumeric order to IEEE Std 802.3 subclause 1.4 'Definitions':

1.4.xxx IEEE 802.3 Power over Ethernet (IEEE 802.3 PoE): A system consisting of one PSE and one PD that provides power across balanced twisted-pair cabling. (See IEEE Std 802.3, Clause 33).

[2] Add the following new definition in alphanumeric order to IEEE Std 802.3 subclause 1.5 'Abbreviation':

PoE Power over Ethernet

[3] Modify the first paragraph of IEEE Std 802.3 subclause 33.1 'Overview' to read as follows:

This clause defines the functional and electrical characteristics for providing a Power over Ethernet (PoE) system for deployment over balanced twisted-pair cabling. The system consists of two optional power (non-data) entities, a Powered Device (PD) and Power Sourcing Equipment (PSE), for use with the MAU defined in Clause 14 and the PHYs defined in Clause 25 and Clause 40. These entities allow devices to draw/supply power using the same generic cabling as is used for data transmission.

Response Response Status C

ACCEPT IN PRINCIPLE.

[1] and [2] have already been done as part of IEEE P802.3bt.

Changes proposed in [3] shall be made.

Cl 33 SC 33 P667 L # 4  
 Jones, Chad Cisco

Comment Type TR Comment Status A

Filed on behalf of Koussalya Balasubramanian (1277)

PDs in the field turn on their DC-DC load during inrush. This leads to PD cap not charging up fully (even if PD cap is <180uf PSE is following inrush rules from Section 33.2.7.5). This may lead to operational problems after inrush. There is a Voff requirement in PD table 33-18 to ensure power supply remains turned off for V<30V, but customers seem to read this as applicable only "after power on" not during "power on"- hence ether turn on their DC-DC during inrush causing problems.

*SuggestedRemedy*

Request the following text be added as note to section 33.4.1  
 Add the following to section 33.3.7.3

"PDs shall not draw more than the maximum current allowed by a PSE during inrush as outlined in section 33.2.7.5"

Change 2nd paragraph of Section 33.3.7.1 as follows (change shown in underline) "The PD shall not turn on until a voltage greater than Voff and less than or equal to Von"

Response Response Status C

ACCEPT IN PRINCIPLE.

Adopt yseboodt\_1118\_03\_inrush.pdf

EEE P802.3cq D0.1 Maintenance #13: Power over Ethernet over 2 pairs 1st Task Force review comment:

CI 33 SC 33.1.4 P624 L # 5  
 Jones, Chad Cisco

Comment Type TR Comment Status A

Filed on behalf of Geoff Thompson (1278)

The "definitions" for:

Iport (1.4.234)

Vpd (1.4.425)

Vpse (1.4.426)

are incorrectly placed in the definitions clause of the overall standard for terms (1.4).

They are not terms, They are parameters, as such they belong within the technical clause in which they are used.

*SuggestedRemedy*

Text is not to be changed.

Existing text is to be moved to appropriate placement within clause 33. Suggested placement is adjacent to I cable definition in 33.1.4.

Response Response Status C

ACCEPT IN PRINCIPLE.

Append the following definitions to end of 33.1.4:

Iport is the current on either powered pair.

Vpd is the voltage at the PD PI, measured between any positive conductor and any negative conductor of the powered pairs.

Vpse is the voltage at the PSE PI, measured between any positive conductor and any negative conductor of the powered pairs.

CI 33 SC 33 P660 L # 6  
 Jones, Chad Cisco

Comment Type TR Comment Status A

Filed on behalf of Lennart Yseboodt (1294)

The entry arc into IDLE reads "[ Vpd < Vreset ] \* mdi\_power\_required \* !pd\_reset"

The effect is that at ANY voltage below Vport\_pd min, this condition will apply and reset the state machine to IDLE. The intent is to allow a global override to reset the SM to IDLE when the PI voltage drops below Vreset, but this has been done incorrectly.

See comment #213 against D1.5 for P802.3bt

*SuggestedRemedy*

This MR pertains to Figure 33-16, page 657, the PD state machine.

Change the entry arc condition into IDLE to read:

(Vpd < Vreset) \* mdi\_power\_required \* !pd\_reset

Response Response Status C

ACCEPT IN PRINCIPLE.

Adopt yseboodt\_1118\_02\_pdstatediagram.pdf

CI 33 SC 33 P L # 7  
 Jones, Chad Cisco

Comment Type TR Comment Status A

Filed on behalf of Lennart Yseboodt (1300)

The existing text in 33.3.7.9 says "When VPort\_PD max is applied across the PI..."

VPort\_PD max is a single voltage point of 57.0V. This has the effect of invalidating the requirement. The intent of this requirement was to not backfeed at any voltage from 0V to 57V. In addition the existing text is not 100% clear on where the 100K load resistor is to be placed.

*SuggestedRemedy*

This MR pertains to 33.3.7.9 on Backfeed voltage.

Replace the text in 33.3.7.9 as follows:

"When any voltage in the range of 0V to VPort\_PD max is applied across the PI at either polarity specified on the conductors for Mode A according to Table 33-13, the voltage measured across the PI for Mode B with a 100 kOhm load resistor connected across Mode B shall not exceed Vbfd max as specified in Table 33-18. When any voltage in the range of 0V to VPort\_PD max is applied across the PI at either polarity specified on the conductors for Mode B according to Table 33-13, the voltage measured across the PI for Mode A with a 100 kOhm load resistor connected across Mode A shall not exceed Vbfd max."

Response Response Status C

ACCEPT.

EEE P802.3cq D0.1 Maintenance #13: Power over Ethernet over 2 pairs 1st Task Force review comment:

Cl 33 SC 33 P L # 8  
 Jones, Chad Cisco

Comment Type TR Comment Status A  
 Filed on behalf of David Law (1306)

There is an assignment to the pd\_dll\_power\_type variable in the NITIALIZE state of Figure 33-46 'PSE power control state diagram' as well as a mapping to it in Table 33-41 'Attribute to state diagram variable cross-reference' so effectively there are two sources to this variable. There is a case where a Type 2 PSE that supports 1-event physical layer classification, Data Link Layer Classification, and chooses the option of setting the parameter\_type variable to 1 in the set\_parameter\_type function if mutual identification is not complete, is connected to a Type 2 PD, which will result in two different values for pd\_dll\_power\_type from these two sources.

After a successful detection, Figure 33-13 'Type 1 and Type 2 PSE state diagram' will transition in to the DETECT\_EVAL state and then to the ONE\_EVENT\_CLASS state (arrow B), since the PSE supports 1-event physical layer classification (class\_num\_events = 1). The state diagram will then call the do\_classification function which will result in the pd\_requested\_power variable being set to 3 and the mr\_pd\_class\_detected variable being set to 4. The state diagram will then proceed to the CLASSIFICATION\_EVAL and, assuming sufficient power, to the POWER\_UP state.

Once power up has been completed successfully, since this is a TYPE 2 PSE (PSE\_TYPE = 2), the state diagram will transition from the POWER\_UP state to the SET\_PARAMETERS state calling the set\_parameter\_type function. Since only 1-event physical layer classification has taken place mutual identification is not complete however a Type 2 PD has been detected since the mr\_pd\_class\_detected variable is set to 4. The PSE therefore has the option of setting the parameter\_type variable to 1 (see page 72, line 54, 'When a Type 2 PSE powers a Type 2 PD, the PSE may choose to assign a value of '1' to parameter\_type if mutual identification is not complete ...'). I will assume this option is taken.

The state diagram will therefore transition to the POWER\_ON state. At some point later, since Data Link Layer Classification is supported, the pse\_dll\_ready variable becomes TRUE and the aLdpXdot3RemPowerType attribute will return a bit string indicating a Type 2 PD. This, according to Table 33-41 'Attribute to state diagram variable cross-reference', also results in pd\_dll\_power\_type being set to 2. The problem is that, according to the Figure 33-46 'PSE power control state diagram', when pse\_dll\_ready becomes TRUE the value of parameter\_type is latched on to pd\_dll\_power\_type, and at that point intimeitis1.

Now it seems that the intent was that when pd\_dll\_power\_type became 2 due to Data Link Layer Classification, the equation on the transition from the POWER\_ON state to the SET\_PARAMETERS state became true ((PSE\_TYPE = 2) \* (pd\_dll\_power\_type = 2) \* (parameter\_type = 1)) resulting in the set\_parameter\_type function being called for a second time. The parameter\_type variable would then be set 2 enabling the PSE to increase the power it supplies from Type 1 to Type 2 limits.

The problem is there are two values of pd\_dll\_power\_type once Data Link Layer

Classification is in operation, the one based on the Table 33-41 mapping which in this case would be set to a value of 2, and the one output by the Figure 33-46 state diagram, which in this case would be set to a value of 1. As well as the statement that 'State diagrams take precedence over text.' incorporated by the reference to subclause 21.5 in subclause 33.2.5.2 the definition of the pd\_dll\_power\_type variable in subclause 33.2.5.4 'Type 1 and Type 2 variables' for Figure 33-13 state that it is 'control variable output by the PSE power control state diagram (Figure 33-46) ...'. Based on this it would seem that the latter value of 1 should be used, however the problem with that is the second call to SET\_PARAMETERS state will then never happen, and the PSE will have to continue using Type 1 limits.

It would seem a better approach would be to remove the assignment of parameter\_type to pd\_dll\_power\_type in the INITIALIZE state of Figure 33-46 'PSE power control state diagram' and just use the Table 33-41 'Attribute to state diagram variable cross-reference' mapping for Figure 33-13. This is the only use of the parameter\_type and pd\_dll\_power\_type variables in Figure 33-46 so they can also be removed from the associated variable definition lists.

The variable pd\_dll\_power\_type however has to gated while pse\_dll\_ready is FALSE, since at that time aLdpXdot3RemPowerType is undefined and therefore the mapping of Table 33-41 'Attribute to state diagram variable cross-reference' is undefined. There4 also needs to be some qualification based on DLL being implemented for the case of a Type 2 PSE with 2-event physical layer classification but no Data Link Layer Classification.

Based on this the use of pd\_dll\_power\_type on the POWER\_ON to SET\_PARAMETERS transition should be qualified with pse\_dll\_capable = TRUE and pse\_dll\_ready = TRUE, so the equation would become (PSE\_TYPE = 2) \* (pd\_dll\_power\_type = 2) \* (parameter\_type = 1) \* pse\_dll\_capable \* pse\_dll\_ready.

*SuggestedRemedy*

[1] The equation on the transition from the POWER\_ON state to the SET\_PARAMETERS state in Figure 33-13 'Type 1 and Type 2 PSE state diagram' be changed to read '(PSE\_TYPE = 2) \* (pd\_dll\_power\_type = 2) \* (parameter\_type = 1) \* pse\_dll\_capable \* pse\_dll\_ready'.

[2] The assignment 'pd\_dll\_power\_type <= parameter\_type' in the INITIALIZE state in Figure 33-46 'PSE power control state diagram' be removed.

[3] The definition of parameter\_type be removed from 33.5.3.3 'Single-signature system Variables'.

[4] The definition of pd\_dll\_power\_type be removed from 33.5.3.3 'Single-signature system Variables'.

[5] In definition of pd\_dll\_power\_type in subclause 33.2.5.4 'Type 1 and Type 2 variables' change the text 'A control variable output by the PSE power control state diagram (Figure 33-46) that indicates ...' to read 'A variable mapped from the aLdpXdot3RemPowerType as defined in Table 33-41 that indicates ...'.

Response Response Status C

ACCEPT IN PRINCIPLE.

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Change pd\_dll\_power\_type definition on page 634 to:

pd\_dll\_power\_type

A control variable initially output by the PSE power control state diagram (Figure 33–27) and updated by table 33--23 that indicates the type of PD as advertised through Data Link Layer classification.

<b>CI 33</b>	<b>SC 33</b>	<b>P660</b>	<b>L</b>	<b># 9</b>
Jones, Chad		Cisco		

**Comment Type**    **TR**    **Comment Status**    **A**

Filed on behalf of David Law (1307)

There is an assignment to the pse\_dll\_power\_type variable in the INITIALIZE state of Figure 33–49 'PD power control state diagram' as well as a mapping to it in Table 33–41 'Attribute to state diagram variable cross-reference' so effectively there are two sources to this variable. There is a case where a Type 2 PD is connected to a Type 2 PSE that supports 1-event physical layer classification, Data Link Layer Classification which will result in two different values for pd\_dll\_power\_type from these two sources.

On entry to the DO\_DETECTION state of Figure 33–31 'Type 1 and Type 2 PD state diagram' the pse\_power\_type variable is set to 1. As a result of the 1-event physical layer classification that this PSE will perform, the state diagram will then progress to the DO\_CLASS\_EVENT1 state and then, assuming that the PSE starts supplying power, will progress to the MDI\_POWER1 state once the power\_received variable becomes TRUE.

The pd\_max\_power variable will be set to 0 (4 modulo 4), allowing the PD to draw up to Class 0 power (13.0W). Since pse\_power\_type has been set to 1 the state diagram will then progress to the DLL\_ENABLE state setting the pd\_dll\_enabled variable to TRUE enabling Data Link Layer Classification for the PD. At this point however pse\_power\_type is still set to 1 so the state diagram will transition back to the MDI\_POWER1 state where it will remain as pd\_dll\_enabled is now TRUE.

Since the PSE supports Data Link Layer Classification the aLldpXdot3RemPowerType attribute within the oLldpXdot3RemSystemsGroup managed object class will return a bit string indicating a Type 2 PSE at some point afterwards when the pd\_dll\_ready variable becomes TRUE. This, according to Table 33–41 'Attribute to state diagram variable cross-reference', also results in pd\_dll\_power\_type being set to 2. The problem is that, according to the Figure 33-49 'PD power control state diagram', when pd\_dll\_ready becomes TRUE the value of pse\_power\_type is latched on to pse\_dll\_power\_type, and at that point in time it is 1.

Now it seems that the intent was that when pse\_dll\_power\_type became 2 due to Data Link Layer Classification, the equation on the transition from MDI\_POWER1 to MDI\_POWER\_DLY state became true (pse\_power\_type = 2) + (pse\_dll\_power\_type = 2) causing, after a delay, entry to the MDI\_POWER2 state. At that point the pd\_max\_power variable will be increased from 0 (class\_sig modulo 4) to 4 due to the assignment pd\_max\_power <= class\_sig enabling the power drawn to increase from Type 1 to Type 2 limits.

The problem is there are two values of pse\_dll\_power\_type once Data Layer Classification is in operation, the one based on the Table 33–41 mapping which in this case would be set to a value of 2, and the one output by the Figure 33-49 state diagram, which in this case would be set to a value of 1. As well as the statement that 'State Diagrams take precedence over text.' the definition of the pse\_dll\_power\_type variable in subclause 33.3.3.4 'Type 1 and Type 2 Variables' for Figure 33-31 states 'A control variable output by

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the PD power control state diagram (Figure 33–49) that ...'. Based on this it would seem that the latter value of 1 should be used, however the problem with this is that the MDI\_POWER2 state will then never be reached, and the PD will have to continue draw power within the Type 1 limits.

It would seem a better approach would be to remove the assignment of pse\_power\_type to pse\_dll\_power\_type in the INITIALIZE state of Figure 33–49 'PD power control state diagram' and just use the Table 33–41 'Attribute to state diagram variable cross-reference' mapping for Figure 33-31. This is the only use of the pse\_power\_type and pse\_dll\_power\_type variables in Figure 33–49 so they can also be removed from the associated variable definition lists.

The variable pse\_dll\_power\_type however has to gated while pd\_dll\_ready is FALSE, since at that time aLldpXdot3RemPowerType is undefined and therefore the mapping of Table 33–41 'Attribute to state diagram variable cross-reference' is undefined. Based on this the use of pse\_dll\_power\_type on the MDI\_POWER1 to MDI\_POWER\_DLY transition should be qualified with pse\_dll\_ready = TRUE, so the equation would become (pse\_power\_type = 2) + (pse\_dll\_power\_type = 2 \* pd\_dll\_ready).

*SuggestedRemedy*

[1] The equation on the transition from the MDI\_POWER1 state to the MDI\_POWER\_DLY state in Figure 33-31 'Type 1 and Type 2 PD state diagram' be changed to read '(pse\_power\_type = 2) + (pse\_dll\_power\_type = 2 \* pd\_dll\_ready)'.

[2] The assignment 'pse\_dll\_power\_type <= pse\_power\_type' in the INITIALIZE state in Figure 33–49 'PD power control state diagram' be removed.

[3] The definition of pse\_power\_type be removed from 33.5.3.3 'Single-signature system Variables'.

[4] The definition of pse\_dll\_power\_type be removed from 33.5.3.3 'Single-signature system Variables'.

[5] In definition of pse\_dll\_power\_type in subclause 33.3.3.4 'Type 1 and Type 2 Variables' change the text 'A control variable output by the PD power control state diagram (Figure 33–49) that ...' to read 'A variable mapped from the aLldpXdot3RemPowerType as defined in Table 33-41 that indicates ...'.

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

ACCEPT IN PRINCIPLE.

change pse\_dll\_power\_type definition on page 659 to:

pse\_dll\_power\_type

A control variable initially output by the PD power control state diagram (Figure 33–28) and updated by table 33--23 that indicates the type of PSE by which the PD is being powered.

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<i>Cl</i> <b>33</b>	<i>SC</i> <b>33.4.9.1.4</b>	<i>P</i>	<i>L</i>	# <b>10</b>
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Jones, Chad Cisco

*Comment Type* **TR** *Comment Status* **R**

Filed on behalf of Valerie Maguire (1310)

An explanation of Midspan PSE and how it is implemented within a link segment is needed. Align with the resolution to comment #119 against the draft 2.4 Working Group ballot recirculation of P802.3bt. I believe that this change can be implemented as part of the 802.3bt revision project.

*SuggestedRemedy*

Replace "Replacing the work area or equipment cable with a cable that includes a Midspan PSE should not alter the requirements of the cable. This cable" with "A Midspan PSE replaces an element in a link segment and"

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

REJECT.

This comment does not address a technical problem in the standard. The comment resolution group could not reach consensus on adopting the change.

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<i>Cl</i> <b>33</b>	<i>SC</i> <b>33.4.9.1</b>	<i>P</i>	<i>L</i>	# <b>11</b>
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Jones, Chad Cisco

*Comment Type* **TR** *Comment Status* **R**

Filed on behalf of Valerie Maguire (1311)

An explanation of Connector Midspan PSE and how it is implemented within a link segment is needed. Align with the resolution to comment #116 against the draft 2.4 Working Group ballot recirculation of P802.3bt. I believe that this change can be implemented as part of the 802.3bt revision project.

*SuggestedRemedy*

Replace "The Midspan PSE equipment to be inserted as "connector" or "telecom outlet" shall meet the following transmission parameters" with "A connector Midspan PSE replaces one of the connectors in the link segment and shall meet the following transmission parameters"

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

REJECT.

This comment does not address a technical problem in the standard. The comment resolution group could not reach consensus on adopting the change.

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Cl 33 SC 33.1 P622 L0 # 12  
Yseboodt, Lennart Signify

Comment Type E Comment Status D Pres: Yseboodt1

The introduction of Clause 33 should be aligned with Clause 145.

SuggestedRemedy

Adopt yseboodt\_1119\_01\_introduction.pdf

Proposed Response Response Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter. The contribution was not available at time of the comment resolution meeting.

Cl 33 SC 33.1.4.2 P625 L0 # 13  
Yseboodt, Lennart Signify

Comment Type E Comment Status A Editorial

Equation 33-1 lost it's opening bracket.

SuggestedRemedy

Fix.

Response Response Status C

ACCEPT.

Cl 33 SC 33.2.7.1 P649 L0 # 14  
Yseboodt, Lennart Signify

Comment Type T Comment Status A

The requirement for output voltage under changing load conditions is broken, it only holds until 15mA/us.

"The specification for V Port\_PSE in Table 33-11 shall be met with a (I Hold max \* V Port\_PSE min) to P Type min load step at a rate of change of at least 15 mA/us."

SuggestedRemedy

"The specification for V Port\_PSE in Table 33-11 shall be met with a (I Hold max \* V Port\_PSE min) to P Type min load step at a rate of change of up to 15 mA/us."

Check PICS.

Response Response Status C

ACCEPT.

Cl 33 SC 33.3.3.5 P660 L1 # 15  
Yseboodt, Lennart Signify

Comment Type T Comment Status A Pres: Yseboodt2

The PD state diagram is stuck in the IDLE state due to the definition of "power\_received" being FALSE unless full operating voltage is present. This causes the global arc into IDLE to be permanently true.

SuggestedRemedy

Adopt yseboodt\_1119\_02\_pdstatediagram.pdf

Response Response Status C

ACCEPT IN PRINCIPLE.

Adopt yseboodt\_1118\_02\_pdstatediagram.pdf

Cl 33 SC 33.3.7.3 P667 L0 # 16  
Yseboodt, Lennart Signify

Comment Type T Comment Status A Pres: Yseboodt3

The input inrush section should be aligned with Clause 145's section. This also addresses MR1277.

SuggestedRemedy

Adopt yseboodt\_1119\_03\_inrush.pdf

Response Response Status C

ACCEPT IN PRINCIPLE.

Adopt yseboodt\_1118\_03\_inrush.pdf

Cl 33 SC 33.3.7.4 P667 L0 # 17  
Yseboodt, Lennart Signify

Comment Type T Comment Status A

"Peak operating power shall not exceed P Peak max."

Parameter name does not exist. It should refer to PPeak\_PD, which is defined.

SuggestedRemedy

"Peak operating power shall not exceed P Peak\_PD as defined in Table 33-18."

Update PICS.

Response Response Status C

ACCEPT.

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Cl 33 SC 33.7.5 P694 L # 18  
Darshan, Yair Microchip

Comment Type TR Comment Status R

In 8023bt we have decided to remove telephony voltages requirements from the spec.

SuggestedRemedy

Remove 33.7.5

Response Response Status C

REJECT.

Clause 33 allows for the use of Cat 3 cable. As such, devices can be exposed to telephony voltages. The shall contained in 33.7.5 only requires not resulting in a safety hazard.