C/ 104 SC 104.2 P14 L 19 # 2 C/ 104 SC 104.7.1.3 P 21 L7 Jones, Chad Cisco General Motors Wienckowski, Natalie Comment Type Ε Comment Status D Editorial Comment Type E Comment Status D Clean-up Not sure why this sentence is it's own paragraph. Works just fine after the last sentence of Row 6a is changed but it isn't included in the Editor's note. the previous paragraph (which is only 3 sentences covering two lines). I'd make this all one SuggestedRemedy paragraph Add "6a" to the list in the Editor's note before "6b". SuggestedRemedy Proposed Response Response Status W delete the line feed after the last sentence on line 17, adding the one sentence to the PROPOSED ACCEPT IN PRINCIPLE. previous paragraph. Proposed Response Response Status W Add 6a to the list in the Editor's note if note is note deleted by comment 9 PROPOSED ACCEPT IN PRINCIPLE. Accomodated by comment 61 C/ 104 SC 104.7.1.3 P 21 L 17 Response to comment 61 is: Wienckowski, Natalie General Motors ACCEPT. Move the following sentence from the end of paragraph 1 (Line17) to the beginning of Comment Type E Comment Status D F7 paragraph 2 (line 19) The elipses on the merged row indicating skipped rows should be left justified, not centered. VPD is the voltage at the PD PI. SuggestedRemedy Left justify the elipses (...). Final text should read: Do the same on P21L40, P21L46, P22L21, and P22L26. Proposed Response Response Status W VPSE is the voltage at the PSE PI. VPSE is measured between any positive conductor and any negative conductor PROPOSED ACCEPT. at the PI.

Cl 104 SC 104.5.6.1 P17 L 42 # 3

Jones, Chad Cisco

Comment Type E Comment Status D Editorial

"When either there is no PSE or the PSE is not sourcing power..." 'Either' is superfluous.

VPD is the voltage at the PD PI. VPD is measured between any positive conductor and any

SuggestedRemedy

negative conductor at the PI.

delete 'either' making it read: "When there is no PSE or the PSE is not sourcing power..."

Proposed Response Status W
PROPOSED ACCEPT.

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G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ FM SC FM P 1 # 6 C/ 104 P17 L 10 L 2 SC 104.5.6 # 8 CME Consulting/ADI, APL Gp, Cisco, CommScope, CME Consulting/ADI, APL Gp, Cisco, CommScope, Zimmerman, Zimmerman, Comment Type Ε Comment Status D alignment with revision Comment Type Ε Comment Status D alignment with revision Update front matter to 802.3dc revision d2.1, and reflecting 802.3dd as the first revision of Change editing instructions to remove "(as modified by IEEE Std 802.3cg-2019)" since this IEEE Std 802.3-202x is an amendment to the revision. SuggestedRemedy SuggestedRemedy Remove references to IEEE Std 802.3cq-2019, including: "(as modified by IEEE Std Change header to be amendment to 802.3-202x, change first paragraph on page 1 as per comment, and update pages 3 through 11 to align with 802.3dc D2.1 and reflecting 802.3cg-2019)" *with and without parens* and ". inserted by IEEE Std 802.3cg-2019." from 802.3dd as the first amendment. all editing instructions. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Accomodated by comment #10 Response to comment 10 is: C/ 104 SC 104 P14 L 5 ACCEPT IN PRINCIPLE. CME Consulting/ADI, APL Gp, Cisco, CommScope, Zimmerman, Implement commenter's suggested remedy, noting that the recommendation is that IEEE 802.3dd is Amendment 1 (which is consistent with the remedy, but not with the comment Comment Type E Comment Status D Clean-up text) Editor's Note (Expected to be removed by comment during Working Group Ballot)" Commenter's suggested remedy was: Update front matter plus headers and footers. In front matter: update abstract, replace SuggestedRemedy Introduction with Introduction from P802.3/D2.1, add self description from latest draft of remove all editor's notes so marked. P802.3cs to introduction. A search on 2018 should pull up any other locations for update. Proposed Response Response Status W C/ FM SC FM P6 L 26 # 7 PROPOSED ACCEPT. TFTD - Review all notes in discussion CME Consulting/ADI, APL Gp, Cisco, CommScope, Zimmerman, Comment Type Comment Status D EΖ Ε C/ FM SC FM P1 L 2 # 10 missing hyphen "Editor-in Chief" **RMG** Consulting Grow. Robert SuggestedRemedy Comment Type ER Comment Status D alignment with revision per comment The draft should be written as an amendment to IEEE Std 802.3-20xx, specifically as Amendment 2 per Mr. Law's recommendation to the WGAC. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Update front matter plus headers and footers. In front matter: update abstract, replace Introduction with Introduction from P802.3/D2.1, add self description from latest draft of P802.3cs to introduction. A search on 2018 should pull up any other locations for update. Put in amendment number on title pate, boxed note at beginnning of front matter Introduction, and on self description at end of Introduction. Proposed Response Response Status W

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID 10

Implement commenter's suggested remedy, noting that the recommendation is that IEEE 802.3dd is Amendment 1 (which is consistent with the remedy, but not with the comment

PROPOSED ACCEPT IN PRINCIPLE.

text)

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C/ 104 SC 104.2 P14 L 12 # 11 C/ 104 SC 104.5.3.3 P14 L 25 # 14 RMG Consulting **RMG** Consulting Grow, Robert Grow, Robert Comment Type TR Comment Status D EΖ Comment Type Ε Comment Status D EΖ The draft includes bad subclause and table numbers. The aggregate of these errors create P802.3/D2.1 has "Variables" numbered 104.5.4.3 a probably of technical errors as a result. SuggestedRemedy SuggestedRemedy Update subclause number. Update draft using P802.3/D2.1 as the base text. This draft used as the base for this Proposed Response Response Status W amendment should be close to IEEE Std 802.3-20xx, and it will be easier to track changes to P802.3 in future drafts for any changes that would affect this project than it is to deal PROPOSED ACCEPT. with the inconsistencies. C/ 104 SC 104.5.3.6 P15 L 1 Proposed Response Response Status W **RMG** Consulting PROPOSED ACCEPT. Grow, Robert Comment Type E Comment Status D F7 C/ 104 SC 104.2 P14 L 12 # 12 P802.3/D2.1 has "State diagram" numbered 104.5.4.6. Grow. Robert RMG Consulting SuggestedRemedy Comment Type Comment Status D EΖ Ε Update subclause number. P802.3/D2.1 has "Class Power Requirements" numbered 104.3. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Update subclause number. SC 104.5.4 C/ 104 P16 L 1 # 16 Proposed Response Response Status W **RMG** Consulting PROPOSED ACCEPT. Grow, Robert Comment Type E Comment Status D EΖ C/ 104 SC 104.5.3 P14 # 13 L 23 P802.3/D2.1 has "PD signature" numbered 104.5.5. Grow. Robert RMG Consulting SuggestedRemedy Comment Status D EΖ Comment Type Ε Update subclause number. P802.3/D2.1 has "PD state diagram" numbered 104.5.4. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Update subclause number.

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/ 104 SC 104.5.4 P16 L7 # 17 C/ 104 P17 L14 # 20 SC 104.5.6 **RMG** Consulting **RMG** Consulting Grow, Robert Grow, Robert Comment Type Ε Comment Status D EΖ Comment Type Ε Comment Status D EΖ The editing instruction and Table number do not agree. P802.3/D2.1 has "Valid PD P802.3/D2.1 has "PD power supply limits" numbered Table 104-11. detection signature characteristics, measured at PD PI" numbered Table 104-9. SuggestedRemedy SuggestedRemedy Update table number. Update editing instruction and Table number. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. On page 16 C/ 104 P17 SC 104.5.6.1 L 33 Change editing instruction to "Change Table 104-9 as follows:" RMG Consulting Grow, Robert Change table number to 104-9 Comment Type E Comment Status D F7 C/ 104 SC 104.5.6 P17 L 1 # 18 P802.3/D2.1 has "PD discharge" numbered 104.5.7.1. RMG Consulting Grow. Robert SuggestedRemedy Comment Type Ε Comment Status D ΕZ Update subclause number., also change editing instruction number at line 39. P802.3/D2.1 has "PD power" numbered 104.5.4.7. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Update subclause number. C/ 104 SC 104.5.6.3 P18 L 1 # 22 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Grow, Robert RMG Consulting Renumber PD Power as 104.5.7 Comment Type Comment Status D EΖ Ε P802.3/D2.1 has "Input current" numbered 104.5.7.3. C/ 104 P17 # 19 SC 104.5.6 L 10 SuggestedRemedy Grow. Robert RMG Consulting Update subclause number.. also change editing instruction number at line 7. EΖ Comment Type Ε Comment Status D Editing instruction should be updated for being an amendment to 802.3-20xx. Proposed Response Response Status W PROPOSED ACCEPT. SuggestedRemedy Change Table 104-11 items 6b, 15, as follows, (unchanged rows not shown): P19 C/ 104 SC 104.7.1.1 L 11 # 23 Proposed Response Response Status W Grow. Robert RMG Consulting PROPOSED ACCEPT. EΖ Comment Type Ε Comment Status D Editing instruction should be updated for being an amendment to 802.3-20xx. SuggestedRemedy Replace Figure 104-10 to remove tCHRG and VCHRG as follows: Proposed Response Response Status W PROPOSED ACCEPT.

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID 23

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C/ 104 SC 104.7.1.2 P19 L 35 # 24 C/ 104 P 22 L 51 SC 104.7.2.6 # 27 **RMG** Consulting **RMG** Consulting Grow, Robert Grow, Robert Comment Type Ε Comment Status D EΖ Comment Type E Comment Status D EΖ Editing instruction should be updated for being an amendment to 802.3-20xx. Editing instruction should be updated for being an amendment to 802.3-20xx. Additionally P802.3/D2.1 has "SCVOLT_INFO register table" numbered Table 104-14. SuggestedRemedy SuggestedRemedy Replace Figure 104-11 to remove tCHRG and VCHRG as follows: Change Table 104-14, Description for b[7:0] as shown:. Also change table number to Proposed Response Response Status W 104.14 page 23. line 1. PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. C/ 104 P 20 L7 SC 104.7.1.3 # 25 (fixed typo in remedy) RMG Consulting Grow, Robert Change Table 104-14, Description for b[7:0] as shown: Also change table number to 104-14 page 23, line 1. Comment Type Ε Comment Status D F7 Editing instruction should be updated for being an amendment to 802.3-20xx. C/ 104 P 25 L4 SC 104.9.4.1 # 28 SuggestedRemedy Grow. Robert RMG Consulting Replace Figure 104-12 to remove tCHRG and VCHRG as follows: Comment Type Ε Comment Status D ΕZ Proposed Response Response Status W P802.3/D2.1 has "Powered Device (PD)" numbered 104.9.4.3. PROPOSED ACCEPT. SuggestedRemedy Update subclause number. C/ 104 SC 104.7.1.3 P 21 L7 # 26 Proposed Response Response Status W **RMG** Consulting Grow, Robert PROPOSED ACCEPT. Comment Status D EΖ Comment Type E Editing instruction should be updated for being an amendment to 802.3-20xx. Additionally C/ 104 SC 104.9.4.1 P 25 L6 # 29 P802.3/D2.1 has "SCCP electrical requirements" numbered Table 104-12. Grow. Robert RMG Consulting SuggestedRemedy EΖ Comment Type Ε Comment Status D Change Table 104-12 as follows, editing rows 6b, 7, 8, 9, 11, 15, 16, and 18, and removing Editing instruction should be updated for being an amendment to 802.3-20xx. rows 20 and 21, unchanged rows not shown: Also change table number to 104.12 at line 11 and page 22, line 1. SuggestedRemedy Proposed Response Response Status W PD 11 and PD 17. PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT.

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 104 SC 104.9.4.1 P 25 # 30 C/ 104 P15 L 41 L 10 SC 104.5.3.6 # 33 **RMG** Consulting Grow, Robert Slavick, Jeff Broadcom Comment Type Ε Comment Status D EΖ Comment Type TR Comment Status D State Diagrams P802.3/D2.1, where "PD Discharge" is numbered PD11, Subclause is 104.5.7. Which arc is taken if wakeup=0 and sccp reset pulse = 1 and Vpd > Vsiq disable SuggestedRemedy SuggestedRemedy Add Vpd <= Vsig disable to transition A criteria from PD SLEEP Update base text to that of P802.3/D2.1. Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. Change exit from PD SLEEP to branch "A" to: "(!wakeup) * sccp reset pulse * (VPD ≤ Vsig disable)" C/ 104 P 25 L 20 # 31 SC 104.9.4.1 RMG Consulting Grow, Robert C/ 104 SC 104.5.4.3 P15 L 30 Comment Type Ε Comment Status D F7 Slavick, Jeff Broadcom P802.3/D2.1 has this PICS numbered PD17 Comment Type TR Comment Status D State Diagrams SuggestedRemedy definition of sscp_reset_pulse states during detection this variable takes on true/false values. Now you're using it in PD SLEEP as well Update base text to that of P802.3/D2.1. SuggestedRemedy Proposed Response Response Status W remove "during detection," from both TRUE and FALSE desciprtions for sscp_reset_pulse PROPOSED ACCEPT. Proposed Response Response Status W C/ 104 SC 104.9.4.4 P 25 L 25 # 32 PROPOSED ACCEPT. RMG Consulting Grow, Robert C/ FM SC FM P11 L 1 # 35 Comment Status D Comment Type TR alignment with revision This PICS item already exists in P802.3/D2.1. This version includes differences from Ran. Adee Cisco COMEL2 in the revision draft Comment Type E Comment Status D alignment with revision SuggestedRemedy 802.3cu is repeated twice. Amendment 12 is 802.3cv. Either delete subclause and its contents; or turn into a Change edit to the next revision. SuggestedRemedy Proposed Response Response Status W Change cu to cv PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Response Status W Change edit on COMEL2 (<SO> = strikeout start/end, = underline start/end) to: PROPOSED REJECT. Feature: "Type E <SO>PSE and<SO> PD fault tolerance" 802.3dd is going to be an amendment to 802.3-202x. No change required. Value/Comment: "The PI shall meet the fault tolerance requirements as specified in 146.8.5 and 146.8.6"

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Strikeout PSETE:M in Status

C/ FM SC FM P13 L 44 # 36 C/ 104 SC 104.2 P14 L 17 # 38 Cisco Cisco Ran, Adee Ran, Adee Comment Type Ε Comment Status D Editorial Comment Type Ε Comment Status D Editorial "editing instructions have been written to minimize the probability of changes being lost at Paragraph break is at the wrong place in the middle of the definition of VPD. publication from other IEEE 802.3 amendment projects running in parallel (e.g., IEEE SuggestedRemedy P802.3bj and IEEE P802.3bk)" Move "VPD is the voltage at the PD PI." to the beginning of the second paragraph. bi and bk were completed a long time ago, and were relatively unrelated to each other. This Proposed Response Response Status W text is probably copied from a draft of 802.3bm that ran in parallel to both. It as not a PROPOSED ACCEPT IN PRINCIPLE. relevant example ("e.g.") of parallel projects. Accomodated by comment 61 Response to comment 61 is: In recent projects this text was used to point to other projects running in parallel to the ACCEPT. specific projects. Move the following sentence from the end of paragraph 1 (Line17) to the beginning of paragraph 2 (line 19) However, to save work in copying this text between projects, it does not need to be specific or give any examples. VPD is the voltage at the PD PI. SuggestedRemedy Delete "(e.g., IEEE P802.3bj and IEEE P802.3bk)". Final text should read: Proposed Response Response Status W VPSE is the voltage at the PSE PI. VPSE is measured between any positive conductor and PROPOSED REJECT. any negative conductor The editor's note is an example of how editing works. Updating the example drafts neither at the PL fixes an error nor adds clarity. VPD is the voltage at the PD PI. VPD is measured between any positive conductor and any C/ 104 SC 104 P14 L9 # 37 negative conductor at the PI. Ran, Adee Cisco C/ 104 SC 104.5.3.6 P15 L 27 # 39 ΕZ Comment Type Е Comment Status D Ran, Adee Cisco In the base standard 104.2 is "Link segment". The subclause labeled "Class power Comment Type E Comment Status D Editorial requirements" is 104.3. It looks as if sscp reset pulse is a conditio of arrow A. SuggestedRemedy SuggestedRemedy Change to 104.3 in editorial instructions and subclause title. Move the sscp reset pulse label near the transition it belongs to. Proposed Response Response Status W Proposed Response PROPOSED ACCEPT. Response Status W PROPOSED ACCEPT IN PRINCIPLE.

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Move sccp reset pulse to right, next to left-hand exit from DO DETECTION

C/ 104 P15 L 41 # 40 SC 104.5.3.6

Comment Type Т Comment Status D Comment Type

L 56

42

Ran, Adee

Cisco

State Diagrams

The conditions of transitioning from PD SLEEP are not mutually exclusive. For example, it is posible that (VPD>Vsig disable), (!wakeup), and sccp reset pulse are all true, and It is unclear what transition should occur in that case.

SuggestedRemedy

Maybe add "*(VPD<=Vsig_disable)" to the condition leading to A.

Proposed Response

Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Accomodated by response to comment 33

Response to comment 33 is:

Т

ACCEPT IN PRINCIPLE. Change exit from PD SLEEP to branch "A" to:

"(!wakeup) * sccp reset pulse * (VPD ≤ Vsig disable)"

C/ 104 SC 104.5.4 P16

L 15

41

Ran. Adee

Comment Type

Cisco

Comment Status D

Signature

It is unclear what "Vsig disable max" means, especially now that Vsig disable limits depend on class.

SuggestedRemedy

If Isignature limit conditions are class dependent, break it into two rows and specify the conditions for each row separately.

Otherwise write the condition with a specific voltage.

Alternatively add a table footnote to explain what Vsig disable max means.

Proposed Response

Response Status W

PROPOSED REJECT.

Text is clear - reader first determines Vsig disable max from class.

C/ 104

SC 104.5.6.1

P17

Cisco Ran, Adee

Т Comment Status D PD discharge "the voltage(...) shall not exceed (...) at a delay of TOFF max (see Table 104-4) after the

removal of PSE power"

"at a delay of TOFF max (see Table 104-4) after the removal of PSE power" is ambiguous is it only at that specific point in time? Or starting from that point and on? Or until that point?

I assume the intent is "from that point and on".

Also, the first statement describes a situation when there is no power from the PSE, but the "shall" statment as written is not limited to these times.

SuggestedRemedy

Change the last sentence to:

In order to constrain this current, the voltage across a 5 k<0hm> resistor connected across the PD PI shall not exceed VPUP (see Table 104-8) when the PD is not drawing power from its PI, except possibly within TOFF max (see Table 104-4) from the removal of PSE power from the PD PI.

Change the corresponding PICS item in 104.9.4.1 accordingly.

Proposed Response

Response Status W

PROPOSED ACCEPT.

C/ 104 SC 104.6.1

Comment Type

L 23

43

Ran. Adee

т

Comment Status D

Isolation

"Compliance with requirements of 104.8 may require greater isolation" - 104.8 has no requirements in its body, but has 7 subclauses. It is unclear what requirements are referred to, and what "greater isolation" means.

P18

Cisco

The added sentence is too general to be helpful for readers.

SuggestedRemedy

Point to the specific subclause(s) and describe the additional isolation requirements (e.g. 2 MΩ at 500 V as mentioned in zimmerman 3dd 01a 06152021).

Alternatively, delete the added sentence.

Proposed Response

Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change 104.8. to 104.8.1.

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID 43

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C/ 104 SC 104.6.2 P18 # 44 C/ 104 P 25 L 33 SC 104.9.4.4 L 31 # 46 Cisco Cisco Ran, Adee Ran, Adee Comment Type Ε Comment Status D alignment with revision Comment Type Ε Comment Status D alignment with revision 104.6.2 text does not match the 2018 standard. It was hard to find that it was modified by The new item COMEL2 coincides with a similar item recently added in 802.3dc D2.1 (see 802.3ca. comment #12 in https://www.ieee802.org/3/dc/comments/P8023_D2p0_comments_final_by_id.pdf). SuggestedRemedy SuggestedRemedy Add to the editorial instruction "as amended by 802.3cg". Align the text with 802.3dc D2.1, or add an editor's note to explain any difference that may Proposed Response Response Status W need to be resolved in the future. PROPOSED REJECT. Proposed Response Response Status W The draft is an amendment to 802.3-202x PROPOSED ACCEPT IN PRINCIPLE. Accomodated by comment 32. C/ 104 SC 104.9.1 P 24 L 4 # 45 Response to comment 32 is: Cisco Ran, Adee ACCEPT IN PRINCIPLE. Change edit on COMEL2 (<SO> = strikeout start/end. = underline start/end) to: Comment Type Ε Comment Status D Editorial Feature: "Type E <SO>PSE and<SO> PD fault tolerance" No apparent changes in 104.9.1 or 104.9.2. The project name 802.3dd appears in Value/Comment: "The PI shall meet the fault tolerance requirements as specified in 104.9.2.2 (apparently changing the existing text) but this will disappear when integrated into 146.8.5 and 146.8.6" the standard. Strikeout PSETE:M in Status SuggestedRemedy C/ 146 SC 146.5.4.2 P 26 L 19 Remove these subclauses and their hierarchy from the amendment. Ran. Adee Cisco Proposed Response Response Status W Comment Type Ε Comment Status D **Fditorial** PROPOSED ACCEPT. The added text creates two separate cases that the first sentence refers to; these cases should be written as a bulleted list after the first sentence (as presented in stewart_3dd_02_09072021).

Also, preferably, the part common to both cases should not be repeated, but instead be part of the first sentence.

SuggestedRemedy

Preferably, insert "The magnitude of the positive and negative droop is defined with respect to an initial value at 133.3 ns after the zero crossing and a final value at 800 ns after the zero crossing" before the first sentence of this subclause.

Rewrite the requirements as two bullets (for PI that is / is not encompassed within the MDI) either using the definition above or based on the current text.

Proposed Response Status W

PROPOSED REJECT.

The text is consistent with the style of similar text in IEEE Std 802.3 (e.g., see Clause 96) which does not use a bulleted list

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID 47

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 CI 146
 SC 146.5.4.2
 P 26
 L 25
 # 48

 Ran, Adee
 Cisco

 Comment Type
 E
 Comment Status
 D
 Editorial

The sentence "For applications such as those shown in Annex 146A, implementers should consider transmitter amplitude limitations" is unclear for a reader unfamiliar with Annex 146A. That annex does not decribe the applications, it only lists guidelines for these applications.

Also, it is unclear which transmitter amplitude limitations should be considered and whether this applies only to a PI encompassed within the MDI as currently written.

SuggestedRemedy

Change "For applications such as those shown in Annex 146A" to "For intrinsically-safe applications addressed by Annex 146A"

Clarify if it's only for PI encompassed within the MDI.

Clarify what amplitude limitations should be considered.

Consider making this sentence an informative NOTE.

Proposed Response

Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "For applications such as those shown in Annex 146A, implementers should consider transmitter amplitude limitations."

to

"Implementers should consider transmitter amplitude limitations when appropriate to the application, such as those addressed by Annex 146A."

 CI 146
 SC 146.8.3
 P 26
 L 43
 # 49

 Ran, Adee
 Cisco

 Comment Type
 T
 Comment Status
 D
 Editorial

It would benefit the readers if graphical representations of the return loss limits were provided, especially to show the difference between the two specifications.

The following Matlab/Octave code can be used to illustrate equation 146-17 (top subplot) and 146-17a (bottom subplot):

figure; subplot(2,1,1); f=linspace(0.1, 0.2, 100); plot(f, 20-18*log10(0.2./f), 'k'); hold on; f=linspace(0.2, 1, 100); plot(f, 20*ones(size(f)), 'k'); f=linspace(1, 10, 100); plot(f, 20-16.7*log10(f), 'k'); f=linspace(10, 20, 100); plot(f, 3.3-7.6*log10(f/10), 'k'); ylim([0 22]); axis ij; grid on; xlabel('Frequency (MHz)'); ylabel('Return loss (dB)'); text(3, 15, sprintf('Meets equation

constraints')); subplot(2,1,2); f=linspace(0.1, 0.5, 100); plot(f, 20-18*log10(0.5./f), 'k'); hold on; f=linspace(0.5, 1, 100); plot(f, 20*ones(size(f)), 'k'); f=linspace(1, 10, 100); plot(f, 20-16.7*log10(f), 'k'); f=linspace(10, 20, 100); plot(f, 3.3-7.6*log10(f/10), 'k'); ylim([0 22]); axis ij; grid on; xlabel('Frequency (MHz)'); ylabel('Return loss (dB)'); text(3, 15, sprintf('Meets equation constraints'));

(displayed in linear frequency scale as is common for return loss specifications, but can be changed to log-f if desired)

SVG file can be provided if needed.

SuggestedRemedy

Add a figure illustrating equations 146-17 and 146-17a and refer to it in the text, with editorial license.

Proposed Response

Response Status W

PROPOSED REJECT.

The text is clear and correct. Many equations are provided in IEEE Std 802.3 without the need to show plots.

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 146 SC 146.8.5 P 27 L 23 # 50 C/ 104 P18 L 37 SC 104.6.2 # 53 Cisco Ran, Adee Anslow, Pete Independent Comment Type Ε Comment Status D alignment with revision Comment Type Ε Comment Status D alignment with revision The editorial instruction says "Change the first paragraph of 146.8.5, inserted by IEEE Std The revision of 802.3 has made changes to 104.6.2 and has added item COMEL2 in 802.3cg-2019". But 802.3cg added the entire clause 146, not this specific paragraph. 104.9.4.4 SuggestedRemedy If desired, the fact that clause 146 was added by 802.3cg can be stated in a single note at Bring the draft into alignment with the changes made in the 802.3dc revision D2.1, the beginning of this clause, but not in the specific editorial instruction. particularly in 104.6.2 and 104.9.4.4. Similarly for the two editorial instructions in 146.8.6. Proposed Response Response Status W SugaestedRemedy PROPOSED ACCEPT. Delete the three instances of ", inserted by IEEE Std 802.3cg-2019" C/ 146 SC 146.11.4.5 P30 L 27 Proposed Response Response Status W Anslow, Pete Independent PROPOSED ACCEPT IN PRINCIPLE. Accomodated by comment 8 which removes all such instances in alignment with the Comment Status D EΖ Comment Type ER revision. The status entry for Item MDI2 does not conform to the syntax set out in 21.6. Response to comment 8 is :M should appear at the end of the entry and "+" is not defined as OR ACCEPT. SuggestedRemedy Remove references to IEEE Std 802.3cg-2019, including: "(as modified by IEEE Std 802.3cg-2019)" *with and without parens* and ". inserted by IEEE Std 802.3cg-2019." from Change the entry to !PPSE*!PPD:M all editing instructions. Proposed Response Response Status W C/ 104 SC 104.5.6.1 P17 L 44 # 51 PROPOSED ACCEPT. Huber, Thomas Nokia SC 146.11.4.5 C/ 146 P30 L 31 # 55 Comment Type Ε Comment Status D Editorial Anslow, Pete Independent Awkward grammar in "This can cause a current to flow out the PD." Comment Status D ΕZ Comment Type ER SuggestedRemedy The status entry for Item MDI2a does not conform to the syntax set out in 21.6. Change to "This can cause a current to flow from the PD." :M should appear at the end of the entry Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Change the entry to (PPSE or PPD):M Proposed Response Response Status W Р C/ 00 SC 0 PROPOSED ACCEPT. Anslow, Pete Independent EΖ Comment Type E Comment Status D The copyright_year variable is set to 202x for page 13 and Clause 146 SuggestedRemedy Set the copyright_year variable to 2021 for page 13 and Clause 146

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/ 146 SC 146.11.4.5 P30 # 56 C/ 104 P 23 L 1 L 33 SC 104.7.2.6 Anslow, Pete Independent Marris, Arthur Cadence Design Systems Comment Type ER Comment Status D EΖ Comment Type Ε Comment Status D The status entry for Item MDI4 does not conform to the syntax set out in 21.6. Table number seems wrong :M should appear at the end of the entry and also N/A [1] is missing from the support column SuggestedRemedy SuggestedRemedy Change to Table 104-14 Change the status entry to !PPSE:M Proposed Response Response Status W Add N/A [] to the support entry. PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. C/ 104 P 23 SC 104.7.2.6 L8 Marris, Arthur Cadence Design Systems C/ 146 SC 146.11.4.5 P30 L 35 Comment Type T Comment Status D Anslow, Pete Independent Having a tolerance of "0 + 20mV" seems weird Comment Status D EΖ Comment Type ER SuggestedRemedy The status entry for Item MDI5 does not conform to the syntax set out in 21.6. :M should appear at the end of the entry and also N/A [] is missing from the support column Consider adding extra text to explain why a negative tolerance is not allowed SuggestedRemedy Proposed Response Response Status W Change the status entry to !PPSE:M PROPOSED ACCEPT IN PRINCIPLE. Add N/A [] to the support entry. Delete (strikeout) "+/- 20 mV tolerance, " from Description, Insert new final sentence in first paragraph of 104.7.2.6 as follows: Proposed Response Response Status W "The voltage measurement returned by the Read VOLT INFO command is an 8-bit PROPOSED ACCEPT. unsigned value with each least-significant bit equals 10 mV, and is up to 20 mV greater than the actual voltage at the PD PI." SC FM # 58 C/ FM P1 L 27 Marris, Arthur Cadence Design Systems Comment Type Comment Status D alignment with revision If 802.3dd is really going to be an amendment to 802.3-2018 you need to include 802.3ct and 802.3cp SuggestedRemedy Add IEEE Std 802.3ct-2021 and IEEE Std 802.3cp-2021 here and on page 11 line 6 Proposed Response Response Status W

PROPOSED REJECT.

802.3dd is going to be an amendment to 802.3-202x. No change required.

59

EΖ

SCCP

C/ 104 SC 104.2 P14 # 61 L16 Baggett, Tim Microchip Comment Type Ε Comment Status D Editorial The organization of the two new paragraphs in 104.2 could be improved such that the first

paragraph describes V(PSE) and the second paragraph describes V(PD).

SuggestedRemedy

Move the following sentence from the end of paragraph 1 (Line17) to the beginning of paragraph 2 (line 19)

VPD is the voltage at the PD PI.

Final text should read:

VPSE is the voltage at the PSE PI. VPSE is measured between any positive conductor and any negative conductor at the PI.

VPD is the voltage at the PD PI. VPD is measured between any positive conductor and any negative conductor at the PI.

Proposed Response

Response Status W

PROPOSED ACCEPT.

C/ 104 SC 104.2 P14 L16 # 62

Nvidia Dawe, Piers

Comment Type E Comment Status D Editorial

Content is unevenly split between the two new paragraphs

SuggestedRemedy

Move "VPD is the voltage at the PD PI" to the second paragraph. Or, combine the two paragraphs.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Accomodated by comment 61

Response to comment 61 is:

ACCEPT.

Move the following sentence from the end of paragraph 1 (Line17) to the beginning of paragraph 2 (line 19)

VPD is the voltage at the PD PI.

Final text should read:

VPSE is the voltage at the PSE PI. VPSE is measured between any positive conductor and any negative conductor at the PI.

VPD is the voltage at the PD PI. VPD is measured between any positive conductor and any negative conductor at the PI.

C/ 104 SC 104.7.2 P 22 L 43 # 63

Dawe, Piers Nvidia

Comment Status D Comment Type E

In "The PD shall return all 1s in the data and CRC8 fields for any unsupported command", is there a "data field" and is it what is called in e.g. 104.7.2.4, "a 16-bit ... read payload"?

SuggestedRemedy

For consistency, change "data" to "payload"?

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "data" to "payload" on page 22, line 43.

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID 63

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SCCP

C/ 104 SC 104.7.2 P 22 L 43 # 64 Dawe, Piers Nvidia Comment Type T Comment Status D SCCP

This says "The PD shall return all 1s in the data and CRC8 fields for any unsupported command". Is all ones the correct CRC8 for a payload of all 1s? If not, the usefulness of the CRC8 is weakened.

SuggestedRemedy

Should the CRC8 be whatever is the normal CRC for a payload of all 1s?

Proposed Response Response Status W

PROPOSED REJECT.

The CRG disagrees with the commenter. The purpose of the text is to clarify what happens when one of the optional commands introduced in IEEE Std 802.3cg are used with a legacy device. It deliberately returns a bad CRC, does it in a way where devices that do not support the optional capability do not need additional functionality (by making it a straight pull-up).

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 U/unsatisfied Z/withdrawn Comment ID 64 Page 14 of 14 11/11/2021 4:02:07 PM