C/ FM SC FM P 1 # 6 C/ FM SC FM P1 L 27 # 58 L 2 CME Consulting/ADI, APL Gp, Cisco, CommScope, Zimmerman, Marris, Arthur Cadence Design Systems Comment Type Ε Comment Status A alignment with revision Comment Type Ε Comment Status R alignment with revision Update front matter to 802.3dc revision d2.1, and reflecting 802.3dd as the first revision of If 802.3dd is really going to be an amendment to 802.3-2018 you need to include 802.3ct IEEE Std 802.3-202x and 802.3cp SuggestedRemedy SuggestedRemedy Add IEEE Std 802.3ct-2021 and IEEE Std 802.3cp-2021 here and on page 11 line 6 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 Response Response Status C 802.3dd as the first amendment. REJECT. Response Response Status C 802.3dd is going to be an amendment to 802.3-202x. No change required. ACCEPT IN PRINCIPLE. C/ FM SC FM P11 # 35 Accomodated by comment #10 L 1 Response to comment 10 is: Cisco Ran, Adee ACCEPT IN PRINCIPLE. Implement commenter's suggested remedy, noting that the recommendation is that IEEE Comment Type E Comment Status R alignment with revision 802.3dd is Amendment 1 (which is consistent with the remedy, but not with the comment 802.3cu is repeated twice. Amendment 12 is 802.3cv. text) SuggestedRemedy Commenter's suggested remedy was: Update front matter plus headers and footers. In front matter: update abstract, replace Change cu to cv Introduction with Introduction from P802.3/D2.1, add self description from latest draft of Response Response Status C P802.3cs to introduction. A search on 2018 should pull up any other locations for update. REJECT. # 10 C/ FM SC FM P1 L2 802.3dd is going to be an amendment to 802.3-202x. No change required. Grow. Robert RMG Consulting C/ 104 SC 104.5.6 P17 L 10 Comment Type Comment Status A ER alianment with revision CME Consulting/ADI, APL Gp, Cisco, CommScope, Zimmerman. The draft should be written as an amendment to IEEE Std 802.3-20xx, specifically as Comment Type Ε Comment Status A alignment with revision Amendment 2 per Mr. Law's recommendation to the WGAC. Change editing instructions to remove "(as modified by IEEE Std 802.3cg-2019)" since this SuggestedRemedy is an amendment to the revision. 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 P802.3cs to introduction. A search on 2018 should pull up any other locations for update. 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 Put in amendment number on title pate, boxed note at beginning of front matter all editing instructions. Introduction, and on self description at end of Introduction.

Response

ACCEPT.

Response

text)

ACCEPT IN PRINCIPLE.

Response Status C

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

Response Status C

C/ 104 SC 104.6.2 P18 # C/ 104 P 25 L 33 SC 104.9.4.4 L 31 # 46 44 Cisco Cisco Ran, Adee Ran, Adee Comment Type Ε Comment Status R alignment with revision Comment Type Ε Comment Status A 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 SugaestedRemedy 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 Response Response Status C need to be resolved in the future. REJECT. Response Response Status C The draft is an amendment to 802.3-202x ACCEPT IN PRINCIPLE. # 53 C/ 104 SC 104.6.2 P18 L 37 Accomodated by comment 32. Response to comment 32 is: Anslow. Pete Independent ACCEPT IN PRINCIPLE. Comment Type Ε Comment Status A alignment with revision Change edit on COMEL2 (<SO> = strikeout start/end. = underline start/end) to: Feature: "Type E <SO>PSE and<SO> PD fault tolerance" The revision of 802.3 has made changes to 104.6.2 and has added item COMEL2 in Value/Comment: "The PI shall meet the fault tolerance requirements as specified in 104.9.4.4 146.8.5 and 146.8.6" SuggestedRemedy Strikeout PSETE:M in Status Bring the draft into alignment with the changes made in the 802.3dc revision D2.1. C/ 146 SC 146.8.5 P 27 L 23 # 50 particularly in 104.6.2 and 104.9.4.4. Ran. Adee Cisco Response Response Status C ACCEPT. Comment Status A Comment Type alignment with revision The editorial instruction says "Change the first paragraph of 146.8.5, inserted by IEEE Std C/ 104 SC 104.9.4.4 P 25 L 25 # 32 802.3cg-2019". But 802.3cg added the entire clause 146, not this specific paragraph. Grow. Robert RMG Consulting If desired, the fact that clause 146 was added by 802.3cg can be stated in a single note at Comment Type TR Comment Status A alignment with revision the beginning of this clause, but not in the specific editorial instruction. This PICS item already exists in P802.3/D2.1. This version includes differences from COMEL2 in the revision draft Similarly for the two editorial instructions in 146.8.6. SugaestedRemedy SuggestedRemedy Either delete subclause and its contents: or turn into a Change edit to the next revision. Delete the three instances of ". inserted by IEEE Std 802.3cg-2019" Response Response Response Status C Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Change edit on COMEL2 (<SO> = strikeout start/end, = underline start/end) to: Accomodated by comment 8 which removes all such instances in aligment with the Feature: "Type E <SO>PSE and<SO> PD fault tolerance" revision. Value/Comment: "The PI shall meet the fault tolerance requirements as specified in Response to comment 8 is ACCEPT. 146.8.5 and 146.8.6" Strikeout PSFTF:M in Status 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

all editing instructions.

fixes an error nor adds clarity.

C/ 104 SC 104 P14 L **5** # 9 C/ FM SC FM P13 L 44 CME Consulting/ADI, APL Gp, Cisco, CommScope, Cisco Zimmerman, Ran, Adee Comment Type Ε Comment Status A Clean-up Comment Type Ε Comment Status R Editor's Note (Expected to be removed by comment during Working Group Ballot)" "editing instructions have been written to minimize the probability of changes being lost at publication from other IEEE 802.3 amendment projects running in parallel (e.g., IEEE SuggestedRemedy P802.3bj and IEEE P802.3bk)" remove all editor's notes so marked. bi and bk were completed a long time ago, and were relatively unrelated to each other. This Response Response Status C text is probably copied from a draft of 802.3bm that ran in parallel to both. It as not a ACCEPT IN PRINCIPLE. relevant example ("e.g.") of parallel projects. Change "Expected to be removed by comment during Working Group Ballot" with "To be removed before publication" In recent projects this text was used to point to other projects running in parallel to the specific projects. C/ 104 SC 104.7.1.3 P 21 L7 # However, to save work in copying this text between projects, it does not need to be specific Wienckowski, Natalie **General Motors** or give any examples. Comment Type E Comment Status A Clean-up SuggestedRemedy Row 6a is changed but it isn't included in the Editor's note. Delete "(e.g., IEEE P802.3bj and IEEE P802.3bk)". SuggestedRemedy Response Response Status C Add "6a" to the list in the Editor's note before "6b". REJECT. Response Response Status C The editor's note is an example of how editing works. Updating the example drafts neither

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: Topic

ACCEPT.

Topic Editorial Page 3 of 14 11/16/2021 11:48:37 AM

36

Editorial

Cl 104 SC 104.2 P14 L16 # 61

Baggett, Tim Microchip

Comment Type E Comment Status A 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.

Response Response Status C ACCEPT.

 CI 104
 SC 104.2
 P14
 L 16
 # 62

 Dawe, Piers
 Nvidia

 Comment Type
 E
 Comment Status
 A
 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.

Response Status C

ACCEPT IN PRINCIPLE. Accommodated 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.

Topic Editorial

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: Topic

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C/ 104 SC 104.2 P14 L 17 # 38 C/ 104 P15 L 27 SC 104.5.3.6 # 39 Cisco Cisco Ran, Adee Ran, Adee Comment Type Ε Comment Status A Editorial Comment Type E Comment Status A Editorial Paragraph break is at the wrong place in the middle of the definition of VPD. It looks as if sscp reset pulse is a conditio of arrow A. SuggestedRemedy SuggestedRemedy Move "VPD is the voltage at the PD PI." to the beginning of the second paragraph. Move the sscp reset pulse label near the transition it belongs to. Response Response Response Status C Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE Accomodated by comment 61 Move sccp_reset_pulse to right, next to left-hand exit from DO_DETECTION, rearrange "A" input to DO CLASSIFICATION to avoid confusion Response to comment 61 is: ACCEPT. C/ 104 SC 104.5.6.1 P17 L 42 # Move the following sentence from the end of paragraph 1 (Line17) to the beginning of paragraph 2 (line 19) Jones, Chad Cisco Comment Type Comment Status A Editorial VPD is the voltage at the PD PI. "When either there is no PSE or the PSE is not sourcing power..." 'Either' is superfluous. Final text should read: SuggestedRemedy delete 'either' making it read: "When there is no PSE or the PSE is not sourcing power..." VPSE is the voltage at the PSE PI. VPSE is measured between any positive conductor and any negative conductor Response Response Status C at the PI. ACCEPT. VPD is the voltage at the PD PI. VPD is measured between any positive conductor and any SC 104.5.6.1 P17 negative conductor at the PI. C/ 104 L 44 Huber, Thomas Nokia SC 104.2 C/ 104 P14 L 19 # Comment Type Comment Status A Editorial Jones, Chad Cisco Awkward grammar in "This can cause a current to flow out the PD." Comment Type E Comment Status D **Fditorial** SuggestedRemedy Not sure why this sentence is it's own paragraph. Works just fine after the last sentence of the previous paragraph (which is only 3 sentences covering two lines). I'd make this all one Change to "This can cause a current to flow from the PD." paragraph Response Response Status C SuggestedRemedy ACCEPT.

Proposed Response Status Z

REJECT.

previous paragraph.

This comment was WITHDRAWN by the commenter.

delete the line feed after the last sentence on line 17, adding the one sentence to the

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: Topic

Topic Editorial

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 CI 104
 SC 104.9.1
 P 24
 L 4
 # 45

 Ran, Adee
 Cisco

 Comment Type
 E
 Comment Status
 A
 Editorial

No apparent changes in 104.9.1 or 104.9.2. The project name 802.3dd appears in 104.9.2.2 (apparently changing the existing text) but this will disappear when integrated into the standard.

SuggestedRemedy

Remove these subclauses and their hierarchy from the amendment.

Response Status C

ACCEPT.

C/ 146 SC 146.5.4.2 P26 L19 # 47

Ran, Adee Cisco

Comment Type E Comment Status R Editorial

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.

Response Status C

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

 CI 146
 SC 146.5.4.2
 P 26
 L 25
 # 48

 Ran, Adee
 Cisco

 Comment Type
 E
 Comment Status
 A
 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.

Response Status C

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 applications addressed in Annex 146A."

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: Topic

C/ 146 SC 146.8.3 L 43 # 49 C/ FM SC FM P6 L 26 P 26 # 7 Cisco CME Consulting/ADI, APL Gp, Cisco, CommScope, Ran, Adee Zimmerman, Comment Type Т Comment Status R Editorial Comment Type Ε Comment Status A EΖ It would benefit the readers if graphical representations of the return loss limits were missing hyphen "Editor-in Chief" provided, especially to show the difference between the two specifications. SuggestedRemedy The following Matlab/Octave code can be used to illustrate equation 146-17 (top subplot) per comment and 146-17a (bottom subplot): Response Response Status C ACCEPT. 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-C/ 104 SC 104 P14 L9 # 37 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 Ran. Adee Cisco EΖ Comment Type Comment Status A 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-In the base standard 104.2 is "Link segment". The subclause labeled "Class power 16.7*log10(f), 'k'); f=linspace(10, 20, 100); plot(f, 3,3-7.6*log10(f/10), 'k'); ylim([0,22]); axis requirements" is 104.3. ii; grid on; xlabel('Frequency (MHz)'); ylabel('Return loss (dB)'); text(3, 15, sprintf('Meets SuggestedRemedy equation Change to 104.3 in editorial instructions and subclause title. constraints')); Response Response Status C (displayed in linear frequency scale as is common for return loss specifications, but can be ACCEPT. changed to log-f if desired) SC 104.2 P14 L12 C/ 104 SVG file can be provided if needed. Grow. Robert RMG Consulting SuggestedRemedy ΕZ Add a figure illustrating equations 146-17 and 146-17a and refer to it in the text, with Comment Type TR Comment Status A editorial license. The draft includes bad subclause and table numbers. The aggregate of these errors create a probably of technical errors as a result. Response Response Status C REJECT. SuggestedRemedy The text is clear and correct. Many equations are provided in IEEE Std 802.3 without the Update draft using P802.3/D2.1 as the base text. This draft used as the base for this need to show plots. 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 SC 0 C/ 00 with the inconsistencies. Anslow, Pete Independent Response Response Status C Comment Type E Comment Status A EΖ ACCEPT. The copyright year variable is set to 202x for page 13 and Clause 146 SuggestedRemedy

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: Topic

Set the copyright_year variable to 2021 for page 13 and Clause 146

Response Status C

Response

ACCEPT.

Topic **EZ**

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Cl 104	SC 104.2	P 14	L 12	# 12		C/ 104	SC 104.5.4	P 16	<i>L</i> 1	# 16	
Grow, Robe	ert	RMG Consulting				Grow, Robert RM0			g		
Comment Type E Comment Status A P802.3/D2.1 has "Class Power Requirements" numbered 104.3.					EZ	Comment Type E Comment Status A P802.3/D2.1 has "PD signature" numbered 104.5.5.					
SuggestedRemedy Update subclause number.						SuggestedRemedy Update subclause number.					
Response ACCEPT.		Response Status C				Response ACCE		Response Status C			
C/ 104	SC 104.5.3	P 14	L 23	# 13		C/ 104	SC 104.5.4	P 16	L 7	# 17	
Grow, Robe	ert	RMG Consulting				Grow, Rob	ert	RMG Consulting	g		
Comment 7	Туре Е	Comment Status A			EZ	Comment	Type E	Comment Status A			EZ
P802.3/D2.1 has "PD state diagram" numbered 104.5.4. SuggestedRemedy Update subclause number. Response Response Status C ACCEPT.					The editing instruction and Table number do not agree. P802.3/D2.1 has "Valid PD detection signature characteristics, measured at PD PI" numbered Table 104-9. SuggestedRemedy Update editing instruction and Table number. Response Response Status C						
C/ 104 Grow, Robe	SC 104.5.3.3 ert	RMG Consulting				ACCEPT IN PRINCIPLE. On page 16 Change editing instruction to "Change Table 104-9 as follows:" Change table number to 104-9					
Comment Type E Comment Status A P802.3/D2.1 has "Variables" numbered 104.5.4.3					EZ	C/ 104	SC 104.5.6	P 17	<i>L</i> 1	# 18	
						Grow, Rob	ert	RMG Consulting	q		
SuggestedRemedy Update subclause number.						Comment P802.3	,,	Comment Status A			EZ
Response Response Status C ACCEPT.						SuggestedRemedy Update subclause number.					
C/ 104	SC 104.5.3.6	P 15	L 1	# 15		Response		Response Status C			
Grow, Robe	ert	RMG Consulting	RMG Consulting			•	PT IN PRINCIPL	•			
Comment Type E Comment Status A EZ P802.3/D2.1 has "State diagram" numbered 104.5.4.6.					Renumber PD Power as 104.5.7						
Suggested	Remedy										

Update subclause number.

Response Status C

Response

ACCEPT.

C/ 104 SC 104.5.6 P17 L 10 # 19 C/ 104 P19 L 11 # 23 SC 104.7.1.1 **RMG** Consulting **RMG** Consulting Grow, Robert Grow, Robert Comment Type Ε Comment Status A EΖ Comment Type Ε Comment Status A 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. SuggestedRemedy SuggestedRemedy Change Table 104-11 items 6b, 15, as follows, (unchanged rows not shown): Replace Figure 104-10 to remove tCHRG and VCHRG as follows: Response Response Response Status C Response Status C ACCEPT. ACCEPT. C/ 104 SC 104.5.6 P17 L14 # 20 C/ 104 SC 104.7.1.2 P19 L 35 # 24 Grow. Robert RMG Consulting Grow. Robert **RMG** Consulting EΖ EΖ Comment Type Comment Status A Comment Type Comment Status A Ε Ε P802.3/D2.1 has "PD power supply limits" numbered Table 104-11. Editing instruction should be updated for being an amendment to 802.3-20xx. SuggestedRemedy SuggestedRemedy Update table number. Replace Figure 104-11 to remove tCHRG and VCHRG as follows: Response Response Status C Response Response Status C ACCEPT. ACCEPT. C/ 104 SC 104.5.6.1 P17 L 33 # 21 C/ 104 SC 104.7.1.3 P 20 L7 # 25 Grow, Robert RMG Consulting Grow, Robert **RMG** Consulting Comment Type Ε Comment Status A EΖ Comment Type Ε Comment Status A EΖ P802.3/D2.1 has "PD discharge" numbered 104.5.7.1. Editing instruction should be updated for being an amendment to 802.3-20xx. SuggestedRemedy SuggestedRemedy Update subclause number., also change editing instruction number at line 39. Replace Figure 104-12 to remove tCHRG and VCHRG as follows: Response Response Status C Response Response Status C ACCEPT. ACCEPT. SC 104.5.6.3 P18 L 1 C/ 104 Grow, Robert RMG Consulting Comment Type Ε Comment Status A EΖ P802.3/D2.1 has "Input current" numbered 104.5.7.3. SuggestedRemedy

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: Topic

Update subclause number., also change editing instruction number at line 7.

Response Status C

Response

ACCEPT.

Topic **EZ**

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C/ 104 SC 104.7.1.3 P 21 # 26 C/ 104 P 23 L 1 L7 SC 104.7.2.6 # 59 **RMG** Consulting Grow, Robert Marris, Arthur Cadence Design Systems Comment Type Ε Comment Status A EΖ Comment Type Ε Comment Status A EΖ Editing instruction should be updated for being an amendment to 802.3-20xx. Additionally Table number seems wrong P802.3/D2.1 has "SCCP electrical requirements" numbered Table 104-12. SuggestedRemedy SuggestedRemedy Change to Table 104-14 Change Table 104-12 as follows, editing rows 6b, 7, 8, 9, 11, 15, 16, and 18, and removing Response Response Status C rows 20 and 21, unchanged rows not shown:. Also change table number to 104.12 at line 11 and page 22, line 1. ACCEPT. Response Response Status C C/ 104 SC 104.9.4.1 P 25 L4 # 28 ACCEPT. Grow. Robert RMG Consulting C/ 104 SC 104.7.1.3 P 21 # L 17 EΖ Comment Type Comment Status A P802.3/D2.1 has "Powered Device (PD)" numbered 104.9.4.3. Wienckowski. Natalie General Motors Comment Type E Comment Status A EΖ SuggestedRemedy The elipses on the merged row indicating skipped rows should be left justified, not centered. Update subclause number. SuggestedRemedy Response Response Status C Left justify the elipses (...). ACCEPT. Do the same on P21L40, P21L46, P22L21, and P22L26. C/ 104 SC 104.9.4.1 P 25 L6 # 29 Response Status C Response Grow, Robert **RMG** Consulting ACCEPT. Comment Type E Comment Status A EΖ SC 104.7.2.6 P 22 L 51 # C/ 104 Editing instruction should be updated for being an amendment to 802.3-20xx. **RMG** Consulting Grow, Robert SuggestedRemedy ΕZ Comment Type E Comment Status A PD 11 and PD 17. Editing instruction should be updated for being an amendment to 802.3-20xx. Additionally Response Response Status C P802.3/D2.1 has "SCVOLT_INFO register table" numbered Table 104-14. ACCEPT. SuggestedRemedy Change Table 104-14, Description for b[7:0] as shown:. Also change table number to C/ 104 SC 104.9.4.1 P 25 L 10 104.14 page 23. line 1. Grow, Robert RMG Consulting Response Response Status C Comment Type Ε Comment Status A EΖ ACCEPT IN PRINCIPLE. P802.3/D2.1, where "PD Discharge" is numbered PD11. Subclause is 104.5.7. (fixed typo in remedy) Change Table 104-14. Description for b[7:0] as shown:. Also change table number to 104-SuggestedRemedy 14 page 23, line 1. Update base text to that of P802.3/D2.1. Response Response Status C 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: Topic

Topic **EZ**

Page 10 of 14 11/16/2021 11:48:38 AM C/ 104 SC 104.9.4.1 P 25 # 31 C/ 146 P30 # 56 L 20 SC 146.11.4.5 L 33 **RMG** Consulting Grow, Robert Anslow, Pete Independent Comment Type Ε Comment Status A EΖ Comment Type ER Comment Status A EΖ P802.3/D2.1 has this PICS numbered PD17 The status entry for Item MDI4 does not conform to the syntax set out in 21.6. :M should appear at the end of the entry and also N/A [1] is missing from the support column SuggestedRemedy SuggestedRemedy Update base text to that of P802.3/D2.1. Change the status entry to !PPSE:M Response Response Status C Add N/A [] to the support entry. ACCEPT. Response Response Status W ACCEPT. C/ 146 SC 146.11.4.5 P30 L 27 # 54 Anslow. Pete Independent C/ 146 SC 146.11.4.5 P30 L 35 Comment Type Comment Status A EΖ ER Anslow, Pete Independent The status entry for Item MDI2 does not conform to the syntax set out in 21.6. F7 Comment Type ER Comment Status A :M should appear at the end of the entry and "+" is not defined as OR The status entry for Item MDI5 does not conform to the syntax set out in 21.6. SugaestedRemedy :M should appear at the end of the entry and also N/A [] is missing from the support column Change the entry to !PPSE*!PPD:M SuggestedRemedy Response Response Status W Change the status entry to !PPSE:M Add N/A [] to the support entry. ACCEPT. Response Response Status W C/ 146 SC 146.11.4.5 P30 L 31 # 55 ACCEPT. Anslow. Pete Independent SC 104.6.1 P18 C/ 104 L 23 Comment Status A F7 Comment Type ER The status entry for Item MDI2a does not conform to the syntax set out in 21.6. Ran. Adee Cisco :M should appear at the end of the entry Comment Type T Comment Status A Isolation SugaestedRemedy "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 Change the entry to (PPSE or PPD):M to, and what "greater isolation" means. Response Status W Response ACCEPT. 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 $M\Omega$ at 500 V as mentioned in zimmerman 3dd 01a 06152021). Alternatively, delete the added sentence. Response Response Status C ACCEPT IN PRINCIPLE. Change 104.8. to 104.8.1.

Comment Type T Comment Status A PD discharge
"the voltage() shall not exceed () at a delay of TOFF may (see Table 104-4) after the

"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.

Response Status C

ACCEPT IN PRINCIPLE.

Change from:

at a delay of TOFF max

to

after a delay of TOFF max

Change the corresponding PICS item in 104.9.4.1 accordingly.

 CI 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 Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

---- (proposed response below) ---

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).

 C/ 104
 SC 104.7.2
 P 22
 L 43
 # 63

 Dawe, Piers
 Nvidia

 Comment Type
 E
 Comment Status
 A
 SCCP

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"?

Response Status C

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: Topic

SCCP

Cl 104 SC 104.7.2.6 P23 L8 # 60

Marris, Arthur Cadence Design Systems

Comment Type T Comment Status A

Having a tolerance of "0 + 20mV" seems weird

SuggestedRemedy

Consider adding extra text to explain why a negative tolerance is not allowed

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete (strikeout) "+/- 20 mV tolerance, " from Description,

Insert new final sentence in first paragraph of 104.7.2.6 as follows:

"The voltage measurement returned by the Read_VOLT_INFO command is an 8-bit unsigned value with each least-significant bit equal to 10 mV. The value returned may be less than the actual PD PI voltage, and may be any value up to 20 mV greater than the actual voltage at the PD PI."

Cl 104 SC 104.5.4 P16 L15 # 41

Ran, Adee Cisco

Comment Type T Comment Status R 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.

Response Response Status C

REJECT.

Text is clear - reader first determines Vsig_disable max from class.

Cl 104 SC 104.5.4.3 P15 L30 # 34

Slavick, Jeff Broadcom

Comment Type TR Comment Status A State Diagrams

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

SuggestedRemedy

remove "during detection," from both TRUE and FALSE desciprtions for sscp reset pulse

Response Status C

ACCEPT IN PRINCIPLE.

Add 104.5.4.3 to the draft, with editing instruction to change the definition of sccp_reset_pulse as follows:

sccp_reset_pulse

TRUE: <SO> during detection, <SO> a SCCP reset pulse per Figure 104–10 as described in 104.7.1.1 has been received by the PD.

FALSE: <SO> during detection, <SO> a SCCP reset pulse has not been received by the

PD.

C/ 104 SC 104.5.3.6 P15 L41 # 40

Ran, Adee Cisco

Comment Type T Comment Status A

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.

Response Status C

ACCEPT IN PRINCIPLE.

Accomodated by response to comment 33

Response to comment 33 is:

ACCEPT IN PRINCIPLE.

Change exit from PD_SLEEP to branch "A" to:

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

Cl 104 SC 104.5.3.6 P15 L41 # 33

Slavick, Jeff Broadcom

Comment Type TR Comment Status A State Diagrams

Which arc is taken if wakeup=0 and sccp_reset_pulse = 1 and Vpd > Vsig_disable

SuggestedRemedy

Add Vpd <= Vsig_disable to transition A criteria from PD_SLEEP

Response Status C

ACCEPT IN PRINCIPLE.

Change exit from PD_SLEEP to branch "A" to:

"(!wakeup) * sccp_reset_pulse * (VPD ≤ Vsig_disable)"

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: Topic

Topic State Diagrams

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