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 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 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 Proposed Response Response Status W 802.3dd as the first amendment. PROPOSED REJECT. Proposed Response Response Status W 802.3dd is going to be an amendment to 802.3-202x. No change required. PROPOSED ACCEPT IN PRINCIPLE. C/ FM SC FM Accomodated by comment #10 P11 # 35 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 D 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 Proposed Response Response Status W P802.3cs to introduction. A search on 2018 should pull up any other locations for update. PROPOSED 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 D 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 Comment Status D Ε 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.

Proposed Response

PROPOSED ACCEPT.

Proposed Response Status W

Introduction, and on self description at end of Introduction.

PROPOSED ACCEPT IN PRINCIPLE.

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 text)

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 alignment with

Response Status W

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C/ 104 SC 104.6.2 P18 # C/ 104 P 25 # 46 L 33 SC 104.9.4.4 L 31 44 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. C/ 104 # 53 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 D alignment with revision Change edit on COMEL2 (<SO> = strikeout start/end. <UL> = 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 <UL>146.8.5 and <UL>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. Proposed Response Ran. Adee Cisco Response Status W PROPOSED ACCEPT. Comment Status D 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 D 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" Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. Change edit on COMEL2 (<SO> = strikeout start/end, <UL> = 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. <UL>146.8.5 and <UL>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.

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 alignment with

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C/ 104 SC 104 P14 L **5** # 9 CME Consulting/ADI, APL Gp, Cisco, CommScope, Zimmerman, Comment Type Ε Comment Status D Clean-up Editor's Note (Expected to be removed by comment during Working Group Ballot)" SuggestedRemedy remove all editor's notes so marked. Proposed Response Response Status W PROPOSED ACCEPT. TFTD - Review all notes in discussion C/ 104 SC 104.7.1.3 P 21 L7 # Wienckowski, Natalie General Motors Comment Type E Comment Status D Clean-up Row 6a is changed but it isn't included in the Editor's note.

SuggestedRemedy

Add "6a" to the list in the Editor's note before "6b".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

TFTD

Add 6a to the list in the Editor's note if note is note deleted by comment 9

CI FM SC FM P13 L44 # 36

Ran, Adee Cisco

Comment Type E Comment Status D Editorial

"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 P802.3bj and IEEE P802.3bk)"

bj and bk were completed a long time ago, and were relatively unrelated to each other. This text is probably copied from a draft of 802.3bm that ran in parallel to both. It as not a relevant example ("e.g.") of parallel projects.

In recent projects this text was used to point to other projects running in parallel to the specific projects.

However, to save work in copying this text between projects, it does not need to be specific or give any examples.

SuggestedRemedy

Delete "(e.g., IEEE P802.3bj and IEEE P802.3bk)".

Proposed Response Response

Response Status W

PROPOSED REJECT.

The editor's note is an example of how editing works. Updating the example drafts neither fixes an error nor adds clarity.

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

Cl 104 SC 104.2 P14 L16 # 61

Baggett, Tim Microchip

Comment Type E 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 Status W PROPOSED ACCEPT.

 Cl 104
 SC 104.2
 P14
 L16
 # 62

 Dawe, Piers
 Nvidia

 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 Status W

PROPOSED 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 Cisco Ran, Adee Comment Type Ε Comment Status D Editorial Paragraph break is at the wrong place in the middle of the definition of VPD. SuggestedRemedy

Move "VPD is the voltage at the PD PI." to the beginning of the second paragraph.

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 PL

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 104.2 P14 L19 Cisco Jones, Chad Comment Type Ε Comment Status D Editorial

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 paragraph

SuggestedRemedy

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

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 104.5.3.6 P15 L 27 # 39

Ran. Adee Cisco Comment Type Ε Comment Status D

It looks as if sscp\_reset\_pulse is a conditio of arrow A.

SuggestedRemedy

Move the sscp\_reset\_pulse label near the transition it belongs to.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Move sccp\_reset\_pulse to right, next to left-hand exit from DO\_DETECTION

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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**Editorial** 

C/ 104 SC 104.5.6.1 P17 L 42 # Jones, Chad Cisco Comment Type Ε Comment Status D Editorial "When either there is no PSE or the PSE is not sourcing power..." 'Either' is superfluous. SuggestedRemedy delete 'either' making it read: "When there is no PSE or the PSE is not sourcing power..." Proposed Response Response Status W PROPOSED ACCEPT. C/ 104 SC 104.5.6.1 P17 L 44 # 51 Huber, Thomas Nokia Editorial Comment Type Comment Status D Awkward grammar in "This can cause a current to flow out the PD." SuggestedRemedy Change to "This can cause a current to flow from the PD." Proposed Response Response Status W PROPOSED ACCEPT. C/ 104 SC 104.9.1 P 24 L4 # 45 Ran, Adee Cisco Comment Type Ε Comment Status D 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. Proposed Response Response Status W 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 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

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

 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

#### PROPOSED REJECT.

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

 CI 00
 SC 0
 P
 L
 # 52

 Anslow, Pete
 Independent

 Comment Type
 E
 Comment Status
 D
 EZ

The copyright year variable is set to 202x for page 13 and Clause 146

Response Status W

#### SuggestedRemedy

Set the copyright\_year variable to 2021 for page 13 and Clause 146

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: Topic

Topic **EZ** 

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C/ FM SC FM	P <b>6</b>	L <b>26</b>	# 7	C/ 104	SC 104.2	P <b>14</b>	L <b>12</b>	# 12		
Zimmerman, CME Consulting/ADI, APL Gp, Cisco, CommScope,				Grow, Robert RMG Consulting						
Comment Type E Comment Status D EZ missing hyphen "Editor-in Chief"			Comment Type <b>E</b> Comment Status <b>D</b> E2 P802.3/D2.1 has "Class Power Requirements" numbered 104.3.							
SuggestedRemedy per comment				Suggested Updat	dRemedy e subclause num	nber.				
Proposed Response PROPOSED ACC	Response Status <b>W</b> CEPT.			•	Response POSED ACCEPT	Response Status <b>W</b>				
C/ 104 SC 104	P <b>14</b>	L <b>9</b>	# 37	C/ 104	SC 104.5.3	P <b>14</b>	L 23	# 13		
Ran, Adee	Cisco			Grow, Rob	pert	RMG Consulting	9			
Comment Type E In the base standarequirements" is 1	Comment Status <b>D</b> ard 104.2 is "Link segment". The 104.3.	subclause label	EZ ed "Class power	Comment P802. Suggested	3/D2.1 has "PD s	Comment Status <b>D</b> state diagram" numbered 104.5.	.4.		EZ	
SuggestedRemedy Change to 104.3 i	in editorial instructions and subcla	ause title.		Updat	e subclause num Response					
Proposed Response PROPOSED ACC	Response Status <b>W</b> CEPT.			•	POSED ACCEPT	Response Status <b>W</b>				
C/ 104 SC 104.	.2 P14	L 12	# 11	C/ 104	SC 104.5.3.3	P <b>14</b>	L <b>25</b>	# 14		
Grow, Robert	RMG Consul		" 11	Grow, Rob Comment		RMG Consulting	9			
•						Comment Status <b>D</b> ables" numbered 104.5.4.3			EZ	
	bad subclause and table numbe nical errors as a result.	rs. The aggrega	ate of these errors create	Suggested	dRemedy					
SuggestedRemedy				•	e subclause num					
amendment should	g P802.3/D2.1 as the base text Id be close to IEEE Std 802.3-20; e drafts for any changes that wou	x, and it will be	easier to track changes	•	Response POSED ACCEPT	Response Status W				
with the inconsiste	encies.	·	•	C/ 104	SC 104.5.3.6	P <b>15</b>	L <b>1</b>	# 15		
Proposed Response	Response Status W			Grow, Rob	pert	RMG Consulting	9			
PROPOSED ACCEPT.					Comment Type E Comment Status D EZ  P802.3/D2.1 has "State diagram" numbered 104.5.4.6.					
			Suggested Updat	dRemedy e subclause num	nber.					
				•	Response POSED ACCEPT	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: Topic

Topic **EZ** 

Page 8 of 13 11/11/2021 4:01:36 PM C/ 104 SC 104.5.4 P16 L1 # 16 C/ 104 SC 104.5.6 P17 L10 # 19 **RMG** Consulting **RMG** Consulting Grow, Robert Grow, Robert Comment Type Ε Comment Status D EΖ Comment Type E Comment Status D EΖ P802.3/D2.1 has "PD signature" numbered 104.5.5. 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): Update subclause number. Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 104 SC 104.5.4 P16 L7 # 17 C/ 104 SC 104.5.6 P17 L 14 # 20 Grow. Robert RMG Consulting Grow. Robert RMG Consulting F7 Comment Type EΖ Comment Type Comment Status D Comment Status D Ε Ε P802.3/D2.1 has "PD power supply limits" numbered Table 104-11. 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 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 SC 104.5.6.1 P17 L 33 Change editing instruction to "Change Table 104-9 as follows:" Grow, Robert **RMG** Consulting Change table number to 104-9 Comment Type E Comment Status D EΖ SC 104.5.6 P17 *L* 1 C/ 104 # 18 P802.3/D2.1 has "PD discharge" numbered 104.5.7.1. Grow, Robert RMG Consulting SuggestedRemedy Comment Type E Comment Status D EΖ 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 P18 SC 104.5.6.3 L 1 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Grow, Robert **RMG** Consulting Renumber PD Power as 104.5.7 Comment Type E Comment Status D EΖ P802.3/D2.1 has "Input current" numbered 104.5.7.3. SuggestedRemedy Update subclause number., also change editing instruction number at line 7. 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: Topic

Topic **EZ** 

Page 9 of 13 11/11/2021 4:01:36 PM C/ 104 SC 104.7.1.1 P19 L11 # 23 C/ 104 P 21 L7 SC 104.7.1.3 # 26 **RMG** Consulting **RMG** Consulting Grow, Robert Grow, Robert Comment Type Е Comment Status D EΖ Comment Type Ε 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 "SCCP electrical requirements" numbered Table 104-12. SuggestedRemedy SuggestedRemedy Replace Figure 104-10 to remove tCHRG and VCHRG as follows: Change Table 104-12 as follows, editing rows 6b, 7, 8, 9, 11, 15, 16, and 18, and removing Proposed Response Response Status W rows 20 and 21, unchanged rows not shown: Also change table number to 104.12 at line 11 and page 22, line 1. PROPOSED ACCEPT. Proposed Response Response Status W C/ 104 SC 104.7.1.2 P19 L 35 # 24 PROPOSED ACCEPT. **RMG** Consulting Grow. Robert SC 104.7.1.3 C/ 104 P 21 L 17 F7 Comment Type Comment Status D Ε Editing instruction should be updated for being an amendment to 802.3-20xx. Wienckowski, Natalie General Motors Comment Type E Comment Status D EΖ SuggestedRemedy The elipses on the merged row indicating skipped rows should be left justified, not centered. Replace Figure 104-11 to remove tCHRG and VCHRG as follows: Proposed Response SuggestedRemedy Response Status W PROPOSED ACCEPT. Left justify the elipses (...). Do the same on P21L40, P21L46, P22L21, and P22L26. C/ 104 SC 104.7.1.3 P 20 L7 # 25 Proposed Response Response Status W Grow, Robert RMG Consulting PROPOSED ACCEPT. Comment Type Ε Comment Status D EΖ C/ 104 SC 104.7.2.6 P 22 L 51 Editing instruction should be updated for being an amendment to 802.3-20xx. **RMG** Consulting Grow, Robert SuggestedRemedy Comment Type Comment Status D EΖ Replace Figure 104-12 to remove tCHRG and VCHRG as follows: Editing instruction should be updated for being an amendment to 802.3-20xx. Additionally Proposed Response Response Status W P802.3/D2.1 has "SCVOLT\_INFO register table" numbered Table 104-14. PROPOSED ACCEPT. SuggestedRemedy Change Table 104-14, Description for b[7:0] as shown:. Also change table number to 104.14 page 23, line 1. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. (fixed typo in remedy) Change Table 104-14. Description for b[7:0] as shown:. Also change table number to 104-14 page 23, line 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: Topic

Topic **EZ** 

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C/ 104	SC 104.7.2.6	P 23	L 1	# 59		C/ 104 SC 104.9.4	.1 P 25	L <b>20</b>	# 31			
Marris, Arthur Cadence Design Systems						Grow, Robert RMG Consulting						
Comment Type E Comment Status D  Table number seems wrong				EZ	Comment Type <b>E</b> P802.3/D2.1 has this		EZ					
SuggestedRe Change to	emedy o Table 104–1	4				SuggestedRemedy Update base text to t	hat of P802.3/D2.1.					
Proposed Response Response Status W PROPOSED ACCEPT.						Proposed Response Response Status W PROPOSED ACCEPT.						
C/ 104	SC 104.9.4.1	P <b>25</b>	L <b>4</b>	# 28		C/ 146 SC 146.11	4.5 P30	L <b>27</b>	# 54			
Grow, Robert		RMG Consulti	ng			Anslow, Pete	Indeper	ndent				
Comment Typ	pe <b>E</b>	Comment Status D			EZ	Comment Type ER	Comment Status			ΕZ		
P802.3/D2.1 has "Powered Device (PD)" numbered 104.9.4.3.						The status entry for Item MDI2 does not conform to the syntax set out in 21.6. :M should appear at the end of the entry and "+" is not defined as OR						
SuggestedRe	<i>emedy</i> ubclause numb	oor				SuggestedRemedy	ŕ					
						Change the entry to	PPSE*!PPD:M					
Proposed Res	sponse SED ACCEPT.	Response Status W				Proposed Response PROPOSED ACCER	Response Status V	v				
C/ 104	SC 104.9.4.1	P <b>25</b>	L <b>6</b>	# 29		C/ 146 SC 146.11						
Grow, Robert		RMG Consulti	ng						# 55			
Comment Typ	pe <b>E</b>	Comment Status D			EZ	Anslow, Pete	Indeper			ΕZ		
Editing instruction should be updated for being an amendment to 802.3-20xx.  SuggestedRemedy						Comment Type ER Comment Status D  The status entry for Item MDI2a does not conform to the syntax set out in 21.6. :M should appear at the end of the entry						
PD 11 an	d PD 17.					SuggestedRemedy	·					
Proposed Response Response Status W					Change the entry to (PPSE or PPD):M							
PROPOS	SED ACCEPT.					Proposed Response	Response Status V	N				
C/ 104	SC 104.9.4.1	P <b>25</b>	L10	# 30		PROPOSED ACCER	T.					
Grow, Robert		RMG Consulti	ng									
Comment Typ P802.3/D		Comment Status <b>D</b> Discharge" is numbered PI	D11, Subclause	e is 104.5.7.	EZ							
SuggestedRe Update ba	,	t of P802.3/D2.1.										

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: Topic

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/ 146 P30 # 56 SC 146.11.4.5 L 33 Anslow, Pete Independent Comment Type ER Comment Status D EΖ 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 Change the status entry to !PPSE:M Add N/A [] to the support entry. Proposed Response Response Status W PROPOSED ACCEPT. C/ 146 SC 146.11.4.5 P30 L 35 # 57 Anslow, Pete Independent F7 Comment Type ER Comment Status D 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 SugaestedRemedy

Change the status entry to !PPSE:M Add N/A [] to the support entry.

Proposed Response Status W
PROPOSED ACCEPT.

THOI GOLD AGOLT I

 C/ 104
 SC 104.6.1
 P18
 L 23
 # 43

 Ran, Adee
 Cisco

 Comment Type
 T
 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.

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.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change 104.8. to 104.8.1.

Cl 104 SC 104.5.6.1 P17 L56 # 42

Ran, Adee Cisco

Comment Type T 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.

Cl 104 SC 104.7.2 P22 L43 # 64

Dawe, Piers Nvidia

Comment Type T Comment Status D

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 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).

SCCP

C/ 104 SC 104.7.2 P 22 L 43 # C/ 104 P15 SC 104.5.4.3 L 30 # 34 Dawe, Piers Nvidia Slavick, Jeff Broadcom Comment Type Ε Comment Status D SCCP Comment Type TR Comment Status D State Diagrams In "The PD shall return all 1s in the data and CRC8 fields for any unsupported command", definition of sscp reset pulse states during detection this variable takes on true/false is there a "data field" and is it what is called in e.g. 104.7.2.4. "a 16-bit ... read payload"? values. Now you're using it in PD SLEEP as well SuggestedRemedy SuggestedRemedy For consistency, change "data" to "payload"? remove "during detection," from both TRUE and FALSE desciprtions for sscp reset pulse Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Change "data" to "payload" on page 22, line 43. C/ 104 SC 104.5.3.6 P15 L 41 L 8 C/ 104 SC 104.7.2.6 # 60 P 23 Ran, Adee Cisco Marris, Arthur Cadence Design Systems Comment Type Comment Status D State Diagrams Comment Type Т Comment Status D SCCP The conditions of transitioning from PD SLEEP are not mutually exclusive. For example, it Having a tolerance of "0 + 20mV" seems weird 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. SugaestedRemedy SuggestedRemedy Consider adding extra text to explain why a negative tolerance is not allowed Maybe add "\*(VPD<=Vsig\_disable)" to the condition leading to A. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Delete (strikeout) "+/- 20 mV tolerance. " from Description. PROPOSED ACCEPT IN PRINCIPLE. Insert new final sentence in first paragraph of 104.7.2.6 as follows: Accomodated by response to comment 33 "The voltage measurement returned by the Read VOLT INFO command is an 8-bit Response to comment 33 is: unsigned value with each least-significant bit equals 10 mV, and is up to 20 mV greater ACCEPT IN PRINCIPLE. than the actual voltage at the PD PI." Change exit from PD SLEEP to branch "A" to: "(!wakeup) \* sccp\_reset\_pulse \* (VPD ≤ Vsig\_disable)" C/ 104 P16 L 15 # 41 SC 104.5.4 C/ 104 SC 104.5.3.6 P15 L 41 Ran. Adee Cisco Slavick, Jeff Broadcom Comment Type T Comment Status D Signature Comment Status D State Diagrams Comment Type TR It is unclear what "Vsig\_disable max" means, especially now that Vsig\_disable limits depend on class. Which arc is taken if wakeup=0 and sccp\_reset\_pulse = 1 and Vpd > Vsig\_disable SuggestedRemedy SuggestedRemedy If Isignature\_limit conditions are class dependent, break it into two rows and specify the Add Vpd <= Vsig disable to transition A criteria from PD SLEEP conditions for each row separately. Proposed Response Response Status W Otherwise write the condition with a specific voltage. PROPOSED ACCEPT IN PRINCIPLE. Change exit from PD SLEEP to branch "A" to: Alternatively add a table footnote to explain what Vsig disable max means. "(!wakeup) \* sccp reset pulse \* (VPD ≤ Vsig disable)"

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Proposed Response

PROPOSED REJECT.

Response Status W

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

Topic State Diagrams

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