IEEE P802.3dd D3.0 Clause 104 Maintenance Initial Sponsor ballot comments

C/ FM	SC FM	P 10	L 36	# I-1	C/ 146	SC 146.8.	3 P 27	L 6	# I-3	
Zimmerman, George ADI, APL Group, Cisco, CommScope, Marvell, SenTe			Ran, Adee Cisco Systems, Inc.							
Comment Type E Comment Status A Editorial Section One of IEEE Std 802.3-202x includes through Annex K, not Annex H. Editorial Editorial					Comment TypeTComment StatusAEditoriEquation 146–17a has f ranges expressed as "0.1 <= f < 0.5 MHz" etc.					
SuggestedF Change	R <i>emedy</i> e "Annex H" to "/	Annex K"					on below the equation sta t is used in the equation),		quency in MHz", so f itself out of place.	
Response ACCEF	РТ.	Response Status C					46–17 on the previous pa rently running 802.3dc rev		sting equation, it may be	
C/ 146	SC 146.5.4.2	P26	L24	# 1-2	SuggestedRemedy Delete "MHz" from the four ranges in equation 146–17a.					
Zimmerman, George ADI, APL Group, Cisco, CommScope, Marvell, SenTe Comment Type T Comment Status A Droop Implementers indicate that receivers are insensitive to droop of 30%, and that it improves					Response Response Status C ACCEPT.					
	-	10BASE-T1L transceivers w	ith inline power.		C/ 0	SC 0	P18	L 44	# 1-4	
Suggested	,				Maytum,	Michael	None-F	Retired		
Change "25%" to "30%" at P26 L24					Comment	t Type TR	Comment Status	R	Editoria	
Response		Response Status C			text s	tates "exceed	Vpup as defined in Table	104–12"		
ACCEPT IN PRINCIPLE.						SuggestedRemedy				
Instead of changing the droop as the commenter suggests, make it clear that droop is allocated to the PHY and not measurement. Additionally, align the MDI return loss with the					No Vpup value in Table 104–12, instert Vpup value					
droop s	droop specified.					 Э	Response Status	w		
Change the 3rd paragraph of 146.5.4.2 to read: When a Clause 104 Type E PSE or PD PI is encompassed within the MDI, the magnitude of both the positive and negative droop shall be less than 25% measured with respect to an initial value at 400 ns after the zero crossing and a final value at 1066.7 ns after the zero crossing. Implementers should consider transmitter amplitude limitations when appropriate to the application such as those applications addressed in Annex 146A. This specification is at the MDI with the MDI loaded as specified in 146.5.4. Addition of power coupling					Response Response Status W REJECT. The CRG disagrees with the commenter. The Vpup value is item 1 in Table 104-12, and is unchanged from the base standard. Unchanged rows are not shown in keeping with editorial practice (and noted in the editing instruction). See Table 104-12 of the base standard for the unchanged values on page 4407 line 49 of IEEE P802.3dc D3.0.					
		ment noise can increase the			C/ 104	SC 104.3	P15	L17	# I-5	
 coupling network might add 3% and noise might further increase droop by 2%, adding up to 5%. Limiting additional apparent droop due to test setup is strongly encouraged and should be corrected for according to the measurement configuration being used. Change Equation 146-17a from 0.1 MHz to 0.5 MHz to read: 20 - 21.5*log_10(f/0.5) dB 						n, Geoffrey	GraCa	SI S.A.		
						t Type TR	Comment Status	A	Editoria	
						The definition is not sufficiently complete and precise.				
						SuggestedRemedy				
20 21	20 - 21.3 log_10(i/0.3) dB					Change the text to read: VPSE is the voltage at the PSE PI. VPSE is measured between any positive conductor and any negative conductor at the PI of the PSE.				
					Response	9	Response Status	С		

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C/ 104	SC 1	04.3	P 15	L 19	# I-6	C/ 146	SC 146.8.6	P 27	L 40	# <mark> </mark> -7	
Thompson,	Geoffre	әу	GraCaSI S.A.			Thompson	, Geoffrey	GraCaSI S.A.			
Comment T			Comment Type T Comment Status A MDI fau								
The definition is not sufficiently complete and precise.					It seems odd to me that this is the only Cu SPE clause that needs to have this requirement imposed. Doesn't this text need to be in each SPE copper PHY clause?						
Suggested Remedy					SuggestedRemedy Spread reg't across SPE copper PHY clauses as appropriate. Alternatively, if this						
Change the text to read: VPD is the voltage at the PD PI. VPD is measured between any positive conductor and any negative conductor at the PI of the PD.											
Response ACCEP			Response Status C			requirement is not applicable and is not implemented for cost reasons in a particular application area then provisions are needed to make sure that the port does not get connected to PoDL.					
						Response		Response Status C			
						ACCEPT IN PRINCIPLE. Clauses 96, 97, and 149 (100BASE-T1, 1000BASE-T1, and 2.5G/5G/10GBASE-T1) all refer to 96.8.3 which has a different form of MDI fault requirement, which already has a current limit and does does not need the change. Change to align clause 147 with this change is below, believing commenter intended both the change to both the DC voltage tolerance and the fault tolerance sections. Add Clause 147 to the draft, inserting 147.9.3 and 147.9.4 Change the first sentence of 147.9.3 as follows: The DTE , with the exception of MDIs encompassing Clause 104 PSEs, shall					
						Change the first paragraph of 147.9.4 as follows: The wire pair of the MDI , with the exception of MDIs encompassing Clause 104 PSEs, shall withstand without damage the application of short circuits of any wire to the other wire of the same pair or ground potential, as per Table 147–5, under all operating conditions indefinitely with the source current limited to 2000 mA where applicable due to applied voltage. Normal operation shall resume after all short circuits have been removed. Clause 104 PSE fault tolerance requirements are defined in 104.6.2.					
						Add 147.12.3 to the draft, Insert new row at the end of Table in 147.12.3: *PPSE MDI encompasses a Clause 104 PSE 147.9.3 and 147.9.4 O Yes[] No[]					
						Chang (uncha MDI 3	anged rows not MDI line powe	for MDI3 and MDI4 as shown	.3 Up to 60 V d	Ic with the source	
						circuit the sa	of any wire to the me pair or group	ance 147.9.4 Withstand wit he other wire of hd potential. Normal operation E: M Yes []			

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