/ 168 SC 168.4.2 b)	P 64	L 29	# 3	C/ 168	SC 168.5.2		P 66	L 48	# 70	
chreiner, Stephan	Rosenberger	- Hochfrequenzted	chnik GmbH & Co. KG	Jones, Pete	er	C	cisco System	IS		
omment Type T C	Comment Status D		TCI	Comment 7	<i>уре</i> т	Comment St	atus D		Tes	st modes
"Present the minimum imper position (TC1 - TC3) where TCI introduces a more port	Is this paragraph also affected by question raised in the editor's note in 168.4.2? "This specification either needs to be changed to reflect maintaining the TCI RL specification approach"									
Additionally, a differential in will have 4 differential ports	Suggested	Remedy								
remaining ports during the r		ne, 100 pair 100).		lf yes, t	hen add or upd	ate editor's note.				
IggestedRemedy				Proposed F	Response	Response Sta	atus W			
"Present the minimum impe	edance described in 168	3.8.1 at all pairs of	f TCI TC3"	PROPO	DSED ACCEPT	IN PRINCIPLE.				
oposed Response R	esponse Status W			 (related	to comment 3	but also remove	s a dunlicate	shall)		
PROPOSED ACCEPT IN P DEFER - Big Ticket Item	RINCIPLE.			Change	e "When test mo		the transmit	tter shall present	t a high impedan	ce
(the impedance is presente			,	"When		enabled, the tran 8.4.2 to be teste		output the 'I' syr	nbol. This perm	its the
This is related to writing out meets the return loss requir Suggest rewrite as:		ing is that when in	n receive mode the TCI							
Change "Present the minim return loss specified in 168.			ne TCI" to "Meet the			eeds to be updat ribe the TCI RL.	ed depends	on whether we a	add a minimum	
				C/ 168	SC 168.5.3		0.07	L1	# 5	
WAS				0/ 100	30 100.3.3		P 67	<i>L</i> 1	# 5	
	um impedance describ	ed in 168 8 1 at th	e TCI" to	Schreiner, S		F			r ந chnik GmbH & C	Co. KG
WAS Change "Present the minim "Present the minimum impe			ne TCI" to:		Stephan	F Comment St	Rosenberger		chnik GmbH & C	Co. KG st modes
Change "Present the minim "Present the minimum imper 168 SC 168.5.2	edance described in 168 P 66	3.8.1 across TC3" <i>L</i> 30	# [4]	Schreiner, S Comment 7 The tes measur	Stephan <i>Type</i> T at fixtures 168-1 rements with a l	<i>Comment St</i> 2 and 168-13 rep MDI. The introdu	Rosenberger atus D presents the ction of the T	Hochfrequenzte measurement se	chnik GmbH & C Tes	st modes
Change "Present the minim "Present the minimum imper 168 SC 168.5.2 chreiner, Stephan	edance described in 168 P66 Rosenberger	3.8.1 across TC3" <i>L</i> 30	# 4	Schreiner, S Comment 1 The tes measur pairs re	Stephan <i>Type</i> T t fixtures 168-1 rements with a l equires a difference	<i>Comment St</i> 2 and 168-13 rep	Rosenberger atus D presents the ction of the T	Hochfrequenzte measurement se	chnik GmbH & C Tes	st modes
Change "Present the minim "Present the minimum imper 168 SC 168.5.2 chreiner, Stephan comment Type T C	edance described in 168 P66 Rosenberger Comment Status D	3.8.1 across TC3" <i>L</i> 30 • Hochfrequenzted	# 4 chnik GmbH & Co. KG <i>Test modes</i>	Schreiner, S Comment 7 The tes measur pairs re Suggested	Stephan <i>Type</i> T t fixtures 168-11 rements with a l requires a difference Remedy	Comment St 2 and 168-13 rep MDI. The introdu nt measurement	Rosenberger atus D presents the ction of the T setup.	Hochfrequenzte measurement se "CI, which has n	chnik GmbH & C Tes	st modes
Change "Present the minim "Present the minimum imper 168 SC 168.5.2 chreiner, Stephan comment Type T C "These test modes shall ch	edance described in 168 P66 Rosenberger Comment Status D ange only the data syml	3.8.1 across TC3" <i>L</i> 30 Hochfrequenzted bols provided to tl	# 4 chnik GmbH & Co. KG <i>Test modes</i> he transmitter circuitry	Schreiner, S Comment 7 The tes measur pairs re Suggested/ Redraw	Stephan <i>Type</i> T at fixtures 168-1 rements with a l requires a difference <i>Remedy</i> <i>i</i> the figures and	Comment St 2 and 168-13 rep MDI. The introdu nt measurement d provide the req	Rosenberger atus D presents the ction of the T setup. uired descrip	Hochfrequenzte measurement se "CI, which has n	chnik GmbH & C Tes	st modes
Change "Present the minim "Present the minimum imper 168 SC 168.5.2 chreiner, Stephan comment Type T C "These test modes shall ch and" contradicts the sem transmitter shall present a f	edance described in 168 P66 Rosenberger Comment Status D ange only the data symi tence page 66, line 48-4 high impedance termina	3.8.1 across TC3" <i>L</i> 30 Hochfrequenzted bols provided to th 49: "When test mon tion to the line as	# 4 chnik GmbH & Co. KG <i>Test modes</i> he transmitter circuitry ode 4 is enabled, the specified in 168.4.2 for	Schreiner, S Comment 7 The tes measur pairs re Suggested Redraw Proposed F	Stephan Type T at fixtures 168-1 rements with a lequires a different Remedy the figures and Response	Comment St 2 and 168-13 rep MDI. The introdu nt measurement d provide the req Response Sta	Rosenberger atus D presents the ction of the T setup. uired descrip	Hochfrequenzte measurement se "CI, which has n	chnik GmbH & C Tes	st modes
Change "Present the minim "Present the minimum imper 168 SC 168.5.2 Thereiner, Stephan omment Type T Co "These test modes shall ch and" contradicts the sem transmitter shall present a h the 'I' symbol.", because hig	edance described in 168 P66 Rosenberger Comment Status D ange only the data symi tence page 66, line 48-4 high impedance termina	3.8.1 across TC3" <i>L</i> 30 Hochfrequenzted bols provided to th 49: "When test mon tion to the line as	# 4 chnik GmbH & Co. KG <i>Test modes</i> he transmitter circuitry ode 4 is enabled, the specified in 168.4.2 for	Schreiner, S Comment 7 The tes measur pairs re Suggested Redraw Proposed F PROPO	Stephan <i>Type</i> T at fixtures 168-12 rements with a lacular remedy at the figures and Response DSED ACCEPT	Comment St 2 and 168-13 rep MDI. The introdu nt measurement d provide the req Response Sta IN PRINCIPLE.	Rosenberger atus D presents the ction of the T setup. uired descrip atus W	Hochfrequenzte measurement se "CI, which has m tive text.	chnik GmbH & C Tes	st modes ire
Change "Present the minim "Present the minimum imper- table SC 168.5.2 Chreiner, Stephan comment Type T C "These test modes shall ch and" contradicts the sent transmitter shall present a h the 'I' symbol.", because hig the transmitter	edance described in 168 P66 Rosenberger Comment Status D ange only the data symi tence page 66, line 48-4 high impedance termina	3.8.1 across TC3" <i>L</i> 30 Hochfrequenzted bols provided to th 49: "When test mon tion to the line as	# 4 chnik GmbH & Co. KG <i>Test modes</i> he transmitter circuitry ode 4 is enabled, the specified in 168.4.2 for	Schreiner, S Comment 7 The tes measur pairs re Suggested/ Redraw Proposed F PROPO Comme the edit	Stephan <i>Type</i> T at fixtures 168-12 rements with a lacular remedy <i>t</i> the figures and <i>Response</i> OSED ACCEPT enter is correct,	Comment St 2 and 168-13 rep MDI. The introdu nt measurement d provide the req Response Sta IN PRINCIPLE.	Rosenberger atus D presents the ction of the T setup. uired descrip atus W	Hochfrequenzte measurement se "CI, which has m tive text.	chnik GmbH & C Tes etups for hore ports and wi	st modes ire
Change "Present the minim "Present the minimum imper- d 168 SC 168.5.2 Chreiner, Stephan <i>comment Type</i> T Co "These test modes shall ch and" contradicts the sent transmitter shall present a h the 'l' symbol.", because hig the transmitter	edance described in 168 P66 Rosenberger Comment Status D ange only the data syml tence page 66, line 48-4 high impedance termination gh impedance termination t alter the electrical and	3.8.1 across TC3" <i>L</i> 30 Hochfrequenzted bols provided to th 49: "When test mo tion to the line as on is not only a da jitter characterist	# 4 chnik GmbH & Co. KG <i>Test modes</i> he transmitter circuitry ode 4 is enabled, the specified in 168.4.2 for ata symbol provided to	Schreiner, S Comment 7 The tes measur pairs re Suggested Redraw Proposed F PROPO Comme	Stephan <i>Type</i> T at fixtures 168-11 rements with a laguires a difference <i>Remedy</i> <i>y</i> the figures and <i>Response</i> DSED ACCEPT enter is correct, for.	Comment St 2 and 168-13 rep MDI. The introdu nt measurement d provide the req Response Sta IN PRINCIPLE.	Rosenberger atus D presents the ction of the T setup. uired descrip atus W	Hochfrequenzte measurement se "CI, which has m tive text.	chnik GmbH & C Tes etups for hore ports and wi	st modes ire
Change "Present the minim "Present the minimum imper- "168 SC 168.5.2 chreiner, Stephan omment Type T C "These test modes shall ch and" contradicts the sent transmitter shall present a h the 'I' symbol.", because hig the transmitter uggestedRemedy "These test modes shall no and receiver from those, wh	edance described in 168 P66 Rosenberger Comment Status D ange only the data syml tence page 66, line 48-4 high impedance termination gh impedance termination t alter the electrical and	3.8.1 across TC3" <i>L</i> 30 Hochfrequenzted bols provided to th 49: "When test mo tion to the line as on is not only a da jitter characterist	# 4 chnik GmbH & Co. KG <i>Test modes</i> he transmitter circuitry ode 4 is enabled, the specified in 168.4.2 for ata symbol provided to	Schreiner, S Comment T The tes measur pairs re Suggested/ Redraw Proposed F PROPO Comme the edit TFTD: Sugges Redraw	Stephan <i>Type</i> T at fixtures 168-11 rements with a laguires a difference Remedy the figures and Response DSED ACCEPT enter is correct, for.	Comment St 2 and 168-13 rep MDI. The introdu nt measurement d provide the req <i>Response Sta</i> IN PRINCIPLE. but a replaceme	Rosenberger atus D presents the ction of the T setup. uired descrip atus W nt figure is n	Hochfrequenzte measurement se "CI, which has m tive text. eeded. This is r	chnik GmbH & C Tes etups for hore ports and wi	st modes ire ırely for
Change "Present the minim "Present the minimum imper- tor 168 SC 168.5.2 chreiner, Stephan comment Type T CC "These test modes shall ch and" contradicts the semi transmitter shall present a h the 'I' symbol.", because hig the transmitter uggestedRemedy "These test modes shall no and receiver from those, wh proposed Response Reference	edance described in 168 P66 Rosenberger Comment Status D ange only the data symil tence page 66, line 48-4 nigh impedance termination the alter the electrical and hich can appear in norm esponse Status W R/editorial required GR	3.8.1 across TC3" <i>L</i> 30 Hochfrequenzted bols provided to th 49: "When test motion to the line as on is not only a da jitter characterist al (non-test mode	# 4 chnik GmbH & Co. KG <i>Test modes</i> he transmitter circuitry ode 4 is enabled, the specified in 168.4.2 for ata symbol provided to tics of the transmitter e) operation.	Schreiner, S Comment 7 The tes measur pairs re Suggested/ Redraw Proposed F PROPO Comme the edit TFTD: Sugges Redraw 1 termin	Stephan <i>Type</i> T at fixtures 168-12 rements with a laguires a different <i>Remedy</i> <i>y</i> the figures and <i>Response</i> DSED ACCEPT enter is correct, for. at: <i>y</i> figures to shown nated in 100 oh	Comment St 2 and 168-13 rep MDI. The introdu nt measurement d provide the req <i>Response Sta</i> IN PRINCIPLE. but a replaceme	Rosenberger atus D presents the ction of the T setup. uired descrip atus W nt figure is n	Hochfrequenzte measurement se "CI, which has m otive text. eeded. This is r en at either TC 1	chnik GmbH & C Tes etups for hore ports and wi not something pu or TC2 and TC 2 Page 1	st modes ire Irely for 2 or TC

ner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG nent Type T Comment Status D To he mixing segment at each point TC3, without any DTEs attached, shall meet" By proving the 4 wire interface on TCI TC3, the measurement on the TC3 interface will cover To hy the link segment to the right or left side up to the next TCI. At this position - without a TE attached, the link might be open. estedRemedy he mixing segment return loss, with DTEs or representative dummy loads attached, shall eet" set Response Response Status W ROPOSED ACCEPT. SC 168.8.1.1 P74 L 20 # 10 ner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG ment Type T Comment Status D To as SC 168.8.1.1 P74 L 20 # 10 To ner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG To To nis specification can't be met if through connection is provided by DTE, which is iggested by the TCI 4 wire interface on TC3. stedRemedy To emove the first paragraph (without PMA_) because a measument with the PMA (or					
he mixing segment at each point TC3, without any DTEs attached, shall meet" By hyprogram to the interface on TCI TC3, the measurement on the TC3 interface will cover hyprogram to the right or left side up to the next TCI. At this position - without a ITE attached, the link might be open. InstedRemedy he mixing segment return loss, with DTEs or representative dummy loads attached, shall eet" Sed Response Response Status W ROPOSED ACCEPT. SC 168.8.1.1 P74 L20 # 10 mer, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG then Type T Comment Status D TC his specification can't be met if through connection is provided by DTE, which is traggested by the TCI 4 wire interface on TC3. InstedRemedy					
aving the 4 wire interface on TCI TC3, the measurement on the TC3 interface will cover ally the link segment to the right or left side up to the next TCI. At this position - without a TE attached, the link might be open. astedRemedy the mixing segment return loss, with DTEs or representative dummy loads attached, shall eet" asted Response Response Status W ROPOSED ACCEPT. B SC 168.8.1.1 P74 L20 # 10 mer, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG tent Type T Comment Status D TO his specification can't be met if through connection is provided by DTE, which is liggested by the TCI 4 wire interface on TC3. IsstedRemedy					
he mixing segment return loss, with DTEs or representative dummy loads attached, shall eet" sed Response Response Status ROPOSED ACCEPT. 3 SC 168.8.1.1 P74 L 20 a Comment Status a Comment Status b T comment Status D a To any the met if through connection is provided by DTE, which is is ggested by the TCI 4 wire interface on TC3. stedRemedy Status					
eet" Response Response Status W ROPOSED ACCEPT. Rosenberger Hochfrequenztechnik GmbH & Co. KG as SC 168.8.1.1 P74 L 20 # 10 ner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG nent Type T Comment Status D To nis specification can't be met if through connection is provided by DTE, which is iggested by the TCI 4 wire interface on TC3. Iterational status Iterational status stedRemedy Iterational status Iterational status Iterational status Iterational status					
ROPOSED ACCEPT. 3 SC 168.8.1.1 P74 L20 # 10 ner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG nent Type T Comment Status D To nis specification can't be met if through connection is provided by DTE, which is iggested by the TCl 4 wire interface on TC3. stedRemedy					
ner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG nent Type T Comment Status D To nis specification can't be met if through connection is provided by DTE, which is niggested by the TCI 4 wire interface on TC3.					
ent Type T Comment Status D To nis specification can't be met if through connection is provided by DTE, which is ggested by the TCI 4 wire interface on TC3. To To stedRemedy To To To To					
his specification can't be met if through connection is provided by DTE, which is liggested by the TCI 4 wire interface on TC3. IstedRemedy					
-					
emove the first paragraph (without PMA) because a measurment with the PMA (or					
Remove the first paragraph (without PMA), because a measurment with the PMA (or PMA load) is sufficient					
sed Response Response Status W					
ROPOSED ACCEPT. TD esolve with comment 8					
3 SC 168.8.1.2 P74 L27 # 11					
ner, Stephan Rosenberger Hochfrequenztechnik GmbH & Co. KG nent Type T Comment Status D To					
The NOTE indicates clearly what the purpose of the paragraph is. However, a meaningful physical implementation with a 4 wire TCI TC3 interface might not be able to fulfill the paragraph from line 28 to line 32					
s <i>tedRemedy</i> emove this paragraph					
sed Response Response Status W					
ROPOSED ACCEPT IN PRINCIPLE.					
sted emov					

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 74	Page 2 of 4
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	Li 27	3/13/2024 10:07:49 PM
SORT ORDER: Page, Line		

C/ 169	SC 169.2	P 86	L 27	# 36	C/ 169	SC 169	P86	L 51	# 86
Jones, Chac	1	Cisco Systems			Chauve, V	/incent	Schneider El	ectric	
Comment Ty	/pe T	Comment Status D		Power - TCI	Comment	Type TR	Comment Status D		Power lev
		llowed DC resistance of the s	ubs. Is this so	pmething we need ot	1W to	low for or appli	cation See V.CHAUVE Preser	ntation	
specify?					Suggestee	dRemedy			
SuggestedR	•				chang	e Pmdp(max) f	rom 1W to 16W for type 0		
add a sp	pecification for r	nax DC resistance of the stub	if needed.		Proposed	Response	Response Status W		
Proposed R	,	Response Status W			PROF	OSED ACCEP	, T IN PRINCIPLE.		
(May wis DEFER	SED REJECT. sh to add editor	s note)			DEFE Need	to replace Pmp	d(max) spec for both type 0 ar	nd 1 with somet	ning that reflects the ur
TFTD The stut	o is considered	part of the DTE. The power e	ntity interface	s at TC1 or TC2, beyond	load c	oncept.			
the stub	. We MAY nee	d to specify the DC resistance	on the through	ph-path of the TCI	C/ 169	SC 169	P 86	L 51	# 87
though					Chauve, V	/incent	Schneider El	ectric	
<need a<="" td=""><td>a proposal></td><td></td><td></td><td></td><td>Comment</td><td>Type TR</td><td>Comment Status D</td><td></td><td>Power lev</td></need>	a proposal>				Comment	Type TR	Comment Status D		Power lev
		D aa	1.00	"	1W to	low for or appli	cation See V.CHAUVE Preser	ntation	
/ 169	SC 169.3	P86	L 39	# 96	Suggestee	dRemedv			
Paul, Michae		Analog Devices	5		••	-	rom 2W to 32W for type 1		
Comment Ty	•	Comment Status D		Voltage classes	-	Response	Response Status W		
24V non	ninal MPSE is a	n odd label because 24V is b	elow VMPSE	(min) for system type 0.		,	T IN PRINCIPLE.		
SuggestedR Change	emedy label to "30V N	ominal MPSE"			-	resolved by co	-		
0					DEFE	R			
	, SED ACCEPT	-	(to replace Pmp oncept.	d(max) spec for both type 0 ar	nd 1 with somet	ning that reflects the ur
Incorpor	ate commenter	s remedy & do a global check	for 24V nomi	nal MPSE					
C/ 169	SC 169.3	P 86	L 44	# 79					
ones, Peter	r	Cisco Systems							
Comment Ty	/ре Т	Comment Status D		Voltage classes					
		l to Table 104–1,, Table 104- &7) as 36V, why are we only							
SuggestedR	emedy								
	r changing 30V	to 36V.							
Proposed R	esponse	Response Status W							
	SED ACCEPT	,							
		97. Comment 97 replaced the	tout from DO						

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 Z/withdrawn SORT ORDER: Page, Line

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Cl 169	SC 169.3	P 87	L 2	# 97	C/ 169	SC 169		P101	L16	# 88		
Paul, Michael Analog Devices						Chauve, Vincent Schneider Electric						
Comment Type E Comment Status D Power - TCI Try to remove references to TC3						Comment Type TR Comment Status D Power leve 1W to low for or application See V.CHAUVE Presentation Power leve						
SuggestedR Change	emedy "TC3 Interface	e" to "TCI"			Suggestedl change		x) froi	m 1W to 16W for type 0				
Replace	SED ACCEPT	Response Status W IN PRINCIPLE. Jgh P87 L9 (Table 169-1 and df page 3.	footnotes) with	n text and table from	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add new section 169.5.5.2 MPD Power after 169.5.5.1, MPD Inrush, as detailed in paul_02_240313_v1.pdf slide 4.							
	- Michael to w	ork good wording			DEFER Need to load co	replace P	mpd(max) spec for both type 0 and	1 with somet	hing that reflects the unit		
		rrent flowing at the MPSE and luring inrush or an overload c			C/ 169	SC 169		P101	L17	# 89		
"the maximum absolute value of the difference in current flowing at TC1 from current at TC2 except during inrush or an overload condition." "the current flowing from the mixing segment to the MPD except during inrush or an overload condition."						Chauve, Vincent Schneider Electric Comment Type TR Comment Status D 1W to low for or application See V.CHAUVE Presentation						
						SuggestedRemedy						
C/ 169	SC 169.3	P 87	L 7	# 38	change	Pmdp(ma	x) froi	m 2W to 32W for type 1				
Jones, Chad	I	Cisco System	IS		Proposed Response Response Status W							
bound th	d: we say Pm	Comment Status D pd(max) is the average allow an average 1W if I draw 100\			OBE by Add ne paul_02	comment	88 - 69.5.	IN PRINCIPLE. 5.2 MPD Power after 169.5.5. If slide 4.	1, MPD Inrusi	h, as detailed in		
SuggestedRemedy define the bounds and add them to the text. Then add (see 169.x to this note to point the reader there).					 DEFER Need to replace Pmpd(max) spec for both type 0 and 1 with something that reflects the unit load concept.							
Accomm WA See com DEFER	SED ACCEPT nodated by cor AS nment 87: replace Pmpd	Response Status W IN PRINCIPLE. mment 97. See paul_02_250	·									

Pa **101** Li **17**