Cl 79 SC 79.3.8 Ran, Adee	Р 98 Intel Corporatio	L 16 n	# r04-1	C/ 79 SC 79.3.8. Ran, Adee	2 P100 Intel Corpora	L 36 tion	# r04-3
Comment Type E With the addition of clau	Comment Status X use 145, "Clause 33 and Claus	se 145 defines'	should be "define".	Comment Type E "The field is encoded	Comment Status X as defined in Equation (79-1)	n.	
SuggestedRemedy Change "defines" to "de	fine".			This equation define:	s KPPI as a function of this fiel	d. So it can be us	ed to decode the field.
Proposed Response	Response Status O			Encoding requires so but this is not stated.	blving the equation (numericall	y, since there is no	o analytical solution),
				SuggestedRemedy			
Cl 79 SC 79.3.8.2 Ran, Adee	P 101 Intel Corporatio	L 1	# r04-2		change "encoded" to "decode		
Comment Type E	Comment Status X				s field encodes the approximat n is implementation dependen		ased on Equation (79-
The text here says "KPI	PI is the power price index exp	pressed as a fa	ctor ()"	Proposed Response	Response Status O		
This is confusing since KPPI is computed from	"power price index" is a differe that index.	ent value, defin	ed in the next line.	CIO SCO	Р	L	# r04-4
The introductory text in	this subclause is:			Anslow, Peter	Ciena Corpo	ration	
compared to what the P My understanding is tha	ndex' field shall contain an inc SE considers the nominal ele at KPPI is "the current price of electricity price", so it is not an	ctricity price". electricity com	pared to what the PSE	"Change the base_y However, the base_y	Comment Status X nst D3.3 was ACCEPT with Su ear variable to 201x for all files year variable seems to have be noorrect implementation of con	in the draft." een set to 2018 for	
SuggestedRemedy				SuggestedRemedy			
•••	, change "is the power price ir	ndex" to "is the	relative power price".	Change the base_ye	ear variable to 201x for all files	in the draft.	
Proposed Response	Response Status O			Proposed Response	Response Status O		
				CIO SCO	P	L	# r04-5
				Anslow, Peter	Ciena Corpo	ration	
				"Change the copyrig However, the copyrig	Comment Status X nst D3.3 was ACCEPT with Su ht_year variable to 2018 for the ght_year variable seems to hav o an incorrect implementation of	e table of contents re been set to 201	file." x for all files in the
				SuggestedRemedy	-		
					t_year variable to 2018 for all f	iles in the draft.	
				Proposed Response	Response Status 0		
TVDE: TP/technical required	d ER/editorial required GR/ge	aneral required	T/technical E/editorial	G/general	Comm	nent ID r04-5	Page 1 of 17

	P11	L 41	# r04-6	C/ 14 S	C 14.3.1.1	P 27	L 9	# r04-9
nslow, Peter	Ciena Corpora	ation		Anslow, Peter		Ciena Corpo	oration	
	Comment Status X updated the frontmatter text in r	relation to 802.3.	1.	Comment Type Comment r "Move the	03-6 against	Comment Status X D3.3 was ACCEPT with S tion to be after the headin	uggested Remed	/: change it to: "Change
"Two companion do 802.3.1 describes E Simple Network Mar models for Ethernet.	ph with the text from the latest of cuments exist, IEEE Std 802.3.1 thernet management information hagement Protocol (SNMP). IEE IEEE Std 802.3.1 and IEEE Std lity for enhancements to IEEE St	and IEEE Std 8 n base (MIB) mo E Std 802.3.2 de d 802.3.2 are up	302.3.2. IEEE Std dules for use with the escribes YANG data dated to add	the first par However, tl SuggestedRem	ragraph of 14. he editing inst <i>hedy</i> diting instruct	3.1.1 as follows:"" irruction has not been mov ion to be after the heading <i>Response Status</i> O	ed.	
Proposed Response	Response Status O			C/ 30 S Anslow, Peter	C 30.9.1.1.2	P 38 Ciena Corpo	L 22 pration	# <u>r04-10</u>
C/ 1 SC 1.4.453	3a P 25 Ciena Corpora	L 4 ation	# r04-7	Comment Type Comment r See:		Comment Status X the revision project D3.1 h	as changed the b	ase text in 30.9.1.1.2.
"(see IEEE 802.3, C "(See IEEE 802.3, C	in 1.4.488 through 1.4.491 has l lause 33)." to: clause 33)." (capital S for See) nsistent with this change	been modified to	change:	quotes).		nged to "enabled". {the "." page 38, line 54) "true." ha		-
SuggestedRemedy				SuggestedRem	nedy			
Change: "(see IEEE 802.3, C						nabled." to: "enabled". ue." to "true". (in strikethro	ugh font)	
	lause 145)." (capital S for See)			Proposed Resp	oonse	Response Status O		
"(See IEEE 802.3, C Proposed Response	Response Status O							
Proposed Response	Response Status 0 P 25	L 40	# r04-8	C/ 30 S Anslow, Peter	C 30.9.1.1.5	P 39 Ciena Corpo	L 38 pration	# <u>r04-11</u>
Proposed Response Cl 1 SC 1.4.x Anslow, Peter Comment Type E	Response Status O	ation		Anslow, Peter <i>Comment Type</i> In the note However, ti	E at the end of his text is part	Ciena Corpo Comment Status X 30.9.1.1.5, "overcurrent" h of the base standard, so	pration has been changed this change shoul	to "over-current". d be done by showing
Proposed Response Cl 1 SC 1.4.x Anslow, Peter Comment Type E In "Remove the defin SuggestedRemedy	Response Status O P 25 Ciena Corpora Comment Status X	ation	uction.	Anslow, Peter Comment Type In the note However, th "overcurrer SuggestedRem	e E at the end of his text is part nt" in strikethro pedy	Ciena Corpo Comment Status X 30.9.1.1.5, "overcurrent" h	bration has been changed this change shoul ht" in underline for	to "over-current". d be done by showing tt.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

CI 33 SC 33.4.3	B P 73	L 1	# r04-12	CI 79	SC 79.	3.2.6c.2	P 94	L 19	# r04-15
Anslow, Peter	Ciena Corpora	ition		Anslow, F	Peter		Ciena Corpor	ration	
Comment Type E	Comment Status X			Comment	туре Е	Com	ment Status X		
"Change the insert	ainst D3.3 was ACCEPT IN PRIN editing instruction to:				cording to i	t's signature co	onfiguration", "it's" sł	nould be "its" (no	apostrophe for
	between the first and second pa agraph" should be "paragraphs".	ragraphs of 33	.4.3."	Suggeste	dRemedy				
SuggestedRemedy				Chan	ge "it's" to "	its".			
Change "paragraph	" to "paragraphs".			Proposed	Response	Respo	onse Status O		
Proposed Response	Response Status 0								
	3.4 <i>P</i> 81	1.25	#	<i>Cl</i> 79 Anslow, F	SC 79. Peter	3.8	P 98 Ciena Corpor	L 16 ration	# r04-16
<i>CI</i> 33 SC 33.8.3 Anslow, Peter	Ciena Corpora	L 25	# <u>r04-13</u>	Comment	Type E	Com	ment Status X		
	Comment Status X					Clause 145 defi	nes two" should l	be "Clause 33 an	d Clause 145 define
21	ion says "Change EL13 through E	=1 15 in 33 8 3	1 as follows:" but the	two					
	e insertion of EL17a and EL17b			Suggeste	,				
SuggestedRemedy				Chan	ge "defines	" to "define".			
in 33.8.3.4 as follow	instruction to "Change EL13 thro vs:" ining from EL17a and EL17b as ti	-		Proposed	Response	Respo	onse Status O		
editing instruction.	Ũ			CI 79	SC 79.	5.3	P105	L 19	# r04-17
Proposed Response	Response Status 0			Anslow, F	eter		Ciena Corpo	ration	
	3.4 P82	L7	# r <u>0</u> 4-14	Comment *PT3		· Comi ne as *PT12	ment Status X		
Anslow, Peter	Ciena Corpora	-	# 104-14	Suggeste	dRemedy				
Comment Type E	Comment Status X						Feature" entry from ' ype 4 PSE or PD"	'Device is a Type	1 or Type 2 PSE or
The other subclaus	e entries in the table in 33.8.3.4 c	lo not have a ".	" at the end.	Proposed	Response	Respo	onse Status O		
SuggestedRemedy									
Remove the "." afte	r "33.4.6" in the rows for EL17a a	and EL17b							
Proposed Response	Response Status 0								

C/ 79 SC 79.5.3			
		L 30 # r04-18	Cl 145 SC 145.3.2 P187 L 44 # r04-21
Anslow, Peter	Ciena Corporation		Anslow, Peter Ciena Corporation
Comment Type E The row for "*AE" in the	Comment Status X e base standard is missing.		Comment Type E Comment Status X "145.3.8.9" on line 44 should be a cross-reference. (The instance of "145.3.8.9" on the next line is already a cross-reference)
SuggestedRemedy Add the row for "*AE" to	o the table.		SuggestedRemedy
Proposed Response	Response Status O		Make "145.3.8.9" a cross-reference. <i>Proposed Response Response Status</i> O
C/ 79 SC 79.5.3 Anslow, Peter	Ciena Corporation	L 36 # r04-19	Cl 145 SC 145.2.8 P 165 L 19 # r04-22 Jones, Chad Cisco Systems, Inc.
Comment Type E	Comment Status X		Comment Type E Comment Status X
"Change" above. SuggestedRemedy Remove the heading, er Proposed Response	diting instruction and table section	from the foot of page 105.	assigned Class 5 through 8 prior to a fault and then transitions to PRIMARY_SEMI_PWRON or SECONDARY_SEMI_PWRON, it reverts the allocation of power to PClass per the assigned Class with a maximum value of Class 4 and asserts local_system_change to update PSEAllocatedPowerValue." SuggestedRemedy
	Response Status O		two options: one:delete 'and then' - "When the PSE assigned Class 5 through 8 prior to a fault
C/ 79 SC 79.5.8 Anslow, Peter	P 107 Ciena Corporation	L 38 # r04-20	transitions to PRIMARY_SEMI_PWRON or SECONDARY_SEMI_PWRON, it reverts the allocation of power to PClass per the assigned Class with a maximum value of Class 4 an asserts local_system_change to update PSEAllocatedPowerValue."
Comment Type E Incorrect font size for so	Comment Status X ome of the text in the Value/Comm	nent column	two: add 'is' - "When the PSE is assigned Class 5 through 8 prior to a fault and then transitions to PRIMARY_SEMI_PWRON or SECONDARY_SEMI_PWRON, it reverts the allocation of power to PClass per the assigned Class with a maximum value of Class 4 an
SuggestedRemedy			asserts local_system_change to update PSEAllocatedPowerValue."
PVT26 "145.2.4" PVT29 "145.3.6) for Mo PVT31 "145.2.8) for Mo	ode A" ode B"		Proposed Response Response Status O
PVT33 "145.3.6) for Mo PVT35 "145.2.8) for Mo PVT36 "145.3.6)" PVT38 "145.2.8)"	ide B"		

Stewart, Heath	0.5 P176 Analog Device	L 28 es Inc.	# r04-23	C/ 145 SC 145.1 Yseboodt, Lennart	P 113 Philips Ligh	L 9 ting	# r04-25
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
It is unclear how to p Propose to add clarit	arse the sub-bullets. Are they b y.	eing used as an <i>i</i>	AND or an OR?	OOS			
 A total current of IC A minimum current 	ngle-signature PD over 4 pairs, a con, defined in Equation (145-9) of ICon-2P-unb on both the pos count for pair-to-pair unbalance.	, over both pairs v sitive pair and the		over Ethernet (PoE) clause includes the c	the functional and electrical of system. The original PoE sys apability to provide power ov gned in accordance with Clau	tem is defined in Cl er 4 pairs while mai	lause 33This_
uggestedRemedy							
Change:				The highlighted 'this'	could be read to refer to Clau	use 33.	
When powering a single-signature PD over 4 pairs, a PSE supports: - A total current of ICon, defined in Equation (145-9), over both pairs with the same polarity; - A minimum current of ICon-2P-unb on both the positive pair and the negative pair with the highest current to account for pair-to-pair unbalance. To:				SuggestedRemedy			
				Change last sentend "Clause 145 includes compatibility with eq	e to: s the capability to provide pow uipment designed in accordar	ver over 4 pairs whil nce with Clause 33.'	e maintaining
- A total current of lo and,	Dover 4 pairs, a PSE provides a con, defined in Equation (145-9)	, over both pairs		Proposed Response	Response Status O		
current to account fo	p-unb on both the positive pair a r pair-to-pair unbalance. power when either of these cond	-		C/ 145 SC 145.1.3 Yseboodt, Lennart	s P 116 Philips Ligh	L 12 ting	# r04-26
Proposed Response	Response Status O			Comment Type E OOS	Comment Status X		
		L 33	# r04-24		airset DC loop resistance," wl alated to, but not equivalent t		airs in series."
seboodt, Lennart	Philips Lighting Comment Status X	-		out in the cable re		o, the DC loop h	esistance" called
seboodt, Lennart		-			ferences." we have to define RCh becau		
seboodt, Lennart comment Type T OOS	Comment Status X	-	ət and hardware	In the first sentence And move comma o SuggestedRemedy	ferences." we have to define RCh becau ut of quotation mark.		
seboodt, Lennart omment Type T OOS "The PSE shall set th capabilities into acco	Comment Status X	lable power budge	et and hardware	In the first sentence And move comma o SuggestedRemedy Change first sentence	ferences." we have to define RCh becau ut of quotation mark.	ise it is not yet defin	ned.
Seboodt, Lennart Comment Type T OOS "The PSE shall set th capabilities into acco Untestable and not n	Comment Status X ne value of this field taking avail punt."	lable power budge	et and hardware	In the first sentence And move comma o SuggestedRemedy Change first sentence	ferences." we have to define RCh becau ut of quotation mark. e to:	ise it is not yet defin	ned.
<pre>/seboodt, Lennart Comment Type T OOS "The PSE shall set th capabilities into acco Untestable and not n SuggestedRemedy Change to:</pre>	Comment Status X ne value of this field taking avail ount." needed for a field that offers 'adv alue of this field taking available	lable power budge <i>v</i> ice'.		In the first sentence And move comma o SuggestedRemedy Change first sentence "This clause uses "p	ferences." we have to define RCh becau ut of quotation mark. e to: airset DC loop resistance" (R	ise it is not yet defin	ned.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 145 SC 145.2.2 P 118 L 51 # [r04-27] /seboodt, Lennart Philips Lighting	C/ 145 SC 145.2.8 P 164 L 25 # r04-29 Yseboodt, Lennart Philips Lighting
Comment Type T Comment Status X	Comment Type E Comment Status X
OOS	Accepted comment r02-37 against D3.2 was not implemented.
	SuggestedRemedy
802.3bt Draft 3.4 "The requirements of this document shall apply equally to Endpoint and Midspan PSEs unless the requirement contains an explicit statement that it applies to only one implementation." 802.3af-2003 "The requirements of this document shall apply equally to Endpoint and Midspan PSEs unless the requirement contains an explicit statement that it applies to only one implementation."	Change: "The minimum power output a PSE supports when powering a single-signature PD, or supplying power in 2- pair mode, is defined by Equation (145-2)." Change to: "The minimum output power a PSE supports when powering a single-signature PD, or supplying power in 2-pair mode, is defined by Equation (145-2)."
Untestable at the PI and untestable even with access to design specific information due to not being specific. All of our PSE requirements refer to "Type 3 and Type 4 PSEs", which includes both Mid	Proposed Response Response Status O
and End spans.	C/ 145 SC 145.2.8 P164 L 27 # r04-30
	Yseboodt, Lennart Philips Lighting
While this statement is certainly valid, it is redundant and untestable.	Comment Type T Comment Status X
SuggestedRemedy	
	"PSE implementations may use VPSE=VPort_PSE-2Pmin and RChan=RCh when the
Strike sentence and remove corresponding PICS.	assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8
	assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11."
Proposed Response Response Status O C/ 145 SC 145.2.5.7 P158 L 18 # r04-28	assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11." For assigned Class 1 through 4 the calculation uses RChan-2P instead of Rchan.
Proposed Response Response Status O	assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11." For assigned Class 1 through 4 the calculation uses RChan-2P instead of Rchan. SuggestedRemedy
Proposed Response Response Status O Cl 145 SC 145.2.5.7 P158 L 18 # r04-28	assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11." For assigned Class 1 through 4 the calculation uses RChan-2P instead of Rchan. <i>SuggestedRemedy</i> Change to: "PSE implementations may use VPSE=VPort_PSE-2Pmin and RChan-2P=RCh when the
Proposed Response Response Status O Cl 145 SC 145.2.5.7 P 158 L 18 # r04-28 Seboodt, Lennart Philips Lighting Comment Type TR Comment Status X OOS	assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11." For assigned Class 1 through 4 the calculation uses RChan-2P instead of Rchan. <i>SuggestedRemedy</i> Change to: "PSE implementations may use VPSE=VPort_PSE-2Pmin and RChan-2P=RCh when the assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8
Proposed Response Response Status O C/ 145 SC 145.2.5.7 P 158 L 18 # r04-28 C/ seboodt, Lennart Philips Lighting Philips Lighting Comment Type TR Comment Status X OOS The tinrush_timer_sec is not started in POWER_UP_SEC.	assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11." For assigned Class 1 through 4 the calculation uses RChan-2P instead of Rchan. <i>SuggestedRemedy</i> Change to: "PSE implementations may use VPSE=VPort_PSE-2Pmin and RChan-2P=RCh when the assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11."
Proposed Response Response Status O C/ 145 SC 145.2.5.7 P 158 L 18 # r04-28 C/ 145 SC 145.2.5.7 P 158 L 18 # r04-28 Vseboodt, Lennart Philips Lighting Comment Type TR Comment Status X OOS The tinrush_timer_sec is not started in POWER_UP_SEC. SuggestedRemedy	assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11." For assigned Class 1 through 4 the calculation uses RChan-2P instead of Rchan. <i>SuggestedRemedy</i> Change to: "PSE implementations may use VPSE=VPort_PSE-2Pmin and RChan-2P=RCh when the assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11."
Proposed Response Response Status O Cl 145 SC 145.2.5.7 P 158 L 18 # r04-28 Cl 145 SC 145.2.5.7 P hilips Lighting Comment Type TR Comment Status X OOS OOS	assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11." For assigned Class 1 through 4 the calculation uses RChan-2P instead of Rchan. <i>SuggestedRemedy</i> Change to: "PSE implementations may use VPSE=VPort_PSE-2Pmin and RChan-2P=RCh when the assigned Class is 1 through 4, or RChan=RCh/2 when the assigned Class is 5 through 8 arrive at over-margined values as shown in Table 145-11."

X 145 SC 145.2.8 Seboodt, Lennart SC 145.2.8 SC 145.2.8	P 164 Philips Lighting	L 28	# r04-31	C/ 145 SC ⁴ Yseboodt, Lennar	1 45.2.8 t	P 167 Philips Lighting	L 32	# r04-34
omment Type T	Comment Status X			Comment Type	т	Comment Status X		
OOS				"A PSE shall	l return to completes	 DLE corresponding to the detection on a pairset of a dual inset." 		
"P Class may subsequ	ently be adjusted using Data Li	nk Layer class	ification."					
				For dual signa	ature the s	tatediagram returns to IDLE_I	PRI or IDLE_S	EC.
or Autoclass				SuggestedRemed	'y			
SuggestedRemedy				Change to:				
"P Class may subsequ	ently be adjusted using Data Li	nk Layer class	ification or Autoclass."			DIDLE_PRI or IDLE_SEC co sfully completes detection on a		
Proposed Response	Response Status O					cation on that pairset."	a pairset of a d	lual-signature PD but
				Proposed Respon	se	Response Status 0		
7 145 SC 145.2.8	P 164	L 50	# r04-32					
seboodt, Lennart	Philips Lighting			C/ 145 SC	145.2.8.1	P167	L 42	# r04-35
Comment Type T	Comment Status X			Yseboodt, Lennar		Philips Lighting		# 104 33
at over-margined value	s may use VPSE = VPort_PSE as as shown in Table 145-11." dual-sig) Rchan-2P is used and		Chan = RCh to arrive	Comment Type OOS	E	Comment Status X		
SuggestedRemedy								
	s may use VPSE = VPort_PSE d values as shown in Table 145		Chan-2P = RCh to	"Classification in Table 145-1	<i>,</i> ,	dc, TLCE, TCEV, TME1, TM	E2, TClass, an	d TReset are specified
Proposed Response	Response Status O			Tpdc no longe	er exists.			
				SuggestedRemed				
SC 145 SC 145.2.8 rseboodt, Lennart Score	P 167 Philips Lighting	L 6	# <u>r04-33</u>	Remove timin	g Tpdc fro times, TL	m list. .CE, TCEV, TME1, TME2, TC	lass, and TRe	set are specified in
Comment Type T	Comment Status X			Proposed Respon	se	Response Status O		
	5-12 is written "Assigned Class so should be Alt and not Mode.	on Mode X".						
SuggestedRemedy								
Change Header of Tat	le 145-12 to "Assigned Class o	n Alternative >	<					

C/ 145 SC 145.2.8.1 Seboodt, Lennart	I P169 L4 # r04 Philips Lighting	C/ 145 SC 145.2.10 P 171 L 39 # r04-37 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type T	Comment Status X	Comment Type T Comment Status X
class events."	on for PSEs in DO_CLASS_PROBE may be reduced to TC tes not allowed to reduce to TCEV?	all OOS
SuggestedRemedy		"V Port_PSE_diff , as defined in Table 145-16, is the maximum voltage difference between
Change to:	on for PSEs in a DO_CLASS_PROBE state may be reduce nts."	pairs with the same polarity, at no load condition, when operating over 4 pairs, in a power on state."
Proposed Response	Response Status O	V Port_PSE_diff is maximum 10mV.
		This requirement only holds at a no load condition and was introduced to control current unbalance. However, at no load, there is no unbalance issue. And we have a pretty tight test for current unbalance. I would assert that if a PSE can meet the PSE unbalance test, VPort_PSE_diff does not do anything.
		It's a meaningless parameter that is tricky to measure.
		SuggestedRemedy
		 Remove item 2 (VPort_PSE_diff) from Table 145-16 Remove subclause 145.2.10.2 Strike sentence on page 178 line 4: "Effective resistances of R PSE_min and R PSE_max include the effects of V Port_PSE_diff as defined in Table 145-16 and the PSE PI resistive elements." Change on page 218, line 28: "R source_min and R source_max represent the V source source common mode effective resistance that consists of the PSE PI components (R PSE_min and R PSE_max as defined in 145.2.10.5.1, V Port_PSE_diff as defined in Table 145-16, the link section resistance, and influence of R PD_min and R PD_max as function of system end-to-end unbalance)." to read (note the parens have moves also): "R source_min and R source_max represent the V source source common mode effective resistance that consists of the PSE PI components (R PSE_min and R PSE_max as defined in 145.2.10.5.1, v Port_PSE_diff as defined in Table 145-16, the link section resistance, and influence of R PD_min and R PD_max as function of system end-to-end unbalance)." to read (note the parens have moves also): "R source_min and R source_max represent the V source source common mode effective resistance that consists of the PSE PI components (R PSE_min and R PSE_max as defined in 145.2.10.5.1), the link section resistance, and influence of R PD_min and R PD_max as function of system end-to-end unbalance)."
		Proposed Response Response Status O

Cl 145 SC 145.2.10 P 174 L 20 # r04-38 Yseboodt, Lennart Philips Lighting Philips L	C/ 145 SC 145.2.10.1 P 175 L 3 # r04-39 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting				
Comment Type TR Comment Status X OOS	Comment Type TR Comment Status X OOS				
Item 23 in Table 145-16 (Cout) is defined as "Output capacitance during detection state over a pairset". This is untestable as there is no deterministic way to know when the PSE is IN the detection state. Furthermore any kind of measurement would be frustrated by the changing detection voltages.	"The specification for V Port_PSE-2P in Table 145-16 shall be met with a load step of (I Hold max x V Port_PSE-2P min) to the maximum power per the PSE's assigned Class at a rate of change of at least 15 mA/ms."				
Will someone think of the test engineers for once!? Also, p161.5 says "Output capacitance shall be as defined in Table 145-16." Which would force the output capacitance to be limited in ALL states.	We seem to have a difficult relation with minimums and maximums. Per this requirement, VPort_PSE-2P needs to be met at any change greater than 15mA/ut up to instanteneous current changes. Anything changing slower is excluded from this shall ? But is picked up by the VPort_PSE-2P item in Table 145-16 ?				
Why is Cout even in Table 145-16 if it only applies during detection ? SuggestedRemedy	Assumption: this 802.3at era text probably wanted to have the shall no longer apply at rate of change faster than 15mA/us Remedy written under this assumption.				
- Delete Cout from Table 145-16 - Add new item to Table 145-7: Item 6, 'Pairset output capacitance', Cout, nF, min, max 520	SuggestedRemedy "The specification for V Port_PSE-2P in Table 145-16 shall be met with a load step of (I Hold max x V Port_PSE-2P min) to the maximum power per the PSE's assigned Class at a rate of change of up to 15 mA/ms."				
Change quoted sentence to read: "Output capacitance shall be as defined in Table 145-16, when VPSE is in the range of 0V to Vvalid max."	Proposed Response Response Status O				
Proposed Response Response Status O					

C/ 145 SC 145.2.10.6 P 180 L 31 # r04-40 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	C/ 145 SC 145.2.10.6 P 180 L 35 # [r04-41] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type T Comment Status X OOS	Comment Type TR Comment Status X OOS
"A PSE that provides current on both pairsets during POWER_UP shall complete power up within T Inrush max, starting when the first pairset exceeds a voltage of 30 V."	"PSEs that have assigned Class 5 or Class 6 to a single-signature PD transition to 4-pair mode by T Inrush ."
I don't think this applies when connected to a dual-signature PD. SuggestedRemedy	The intent here is to say that they need to have completed inrush, and operate in 4-pair, in POWER_ON, within Tinrush of the first pairset switching to INRUSH.
"A PSE, connected to a single-signature PD, that provides current on both pairsets during POWER_UP shall complete power up within T Inrush max, starting when the first pairset exceeds a voltage of 30 V."	We already have: - "A PSE that has assigned Class 5 to 8 to a single-signature PD shall apply power to both
Proposed Response Response Status O	pairsets while in POWER_ON." (p175.11) - "A PSE that provides current on both pairsets during POWER_UP shall complete power up within T Inrush max, starting when the first pairset exceeds a voltage of 30 V." (p180.31)
	Do we need the quoted requirement ? I think it is covered by the other two.
	SuggestedRemedy
	Strike: "PSEs that have assigned Class 5 or Class 6 to a single-signature PD transition to 4-pair mode by T Inrush ."
	Proposed Response Response Status O

C/ 145 SC 145.2.1	0.8 P183	L 26	# r04-42	C/ 145	SC 145.3.4	P 202	L 27	# r04-44
seboodt, Lennart	Philips Ligh	iting		Yseboodt, L	ennart	Philips Light	ing	
Comment Type TR	Comment Status X			Comment T	ype TR	Comment Status X		
	remove power from the PI i template" in Figure 145-23			OOS				
p183.26 "The PSE s	nall limit the pairset current t	o I LIM-2P for a du	iration of at least T LIM."	The sta		s that a PD must show a vali wever, forces the PD into IDI =either.		
	cuit condition is detected on IM as defined in Table 145-		emoval from that pairset			ne range 2.7 to 2.81 volt. ap exists in Clause 33.		
01945 "A DSE in a r	oower on state may remove	ower from that na	ireat without regard to T	SuggestedF	Remedy			
	voltage no longer meets the					e off 100mV of the PSEs detection of the the state diagram.	ection range, and	change the PD
These statements ar SuggestedRemedy Adopt yseboodt_02_ Proposed Response		d in precise wordi	ng.	- page 2 - page 2	203, Figure 14 203, line 24, cl	5-21, change Conditions "2.7 5-28, change 2.7 into 2.81 hange "3.7V" into "3.81V" 5-7, change VValid range to b		,
Proposea Response	Response Status O			Proposed R	esponse	Response Status 0		
C/ 145 SC 145.3.3 Yseboodt, Lennart	.4.2 P 196 Philips Ligh	L 51 Iting	# r04-43					
Comment Type TR OOS	Comment Status X							
be set separate for b show a valid detection	tate diagram makes use of r oth Modes. This would, for in n signature when powered c er of other requirements, but	nstance, allow a du ver 2-pair.	al-signature PD to not					
SuggestedRemedy		. , , , , ,	5					
- Change the variable	e mdi_power_required_mode di_power_required r_required_mode(X) by mdi_		C					
Proposed Response	Response Status O							

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 145 SC 145.3.6 P 203 L 47 # r04-45 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	C/ 145 SC 145.3.6.1 P 205 L 15 # r04-46 Yseboodt, Lennart Philips Lighting P
Comment Type TR Comment Status X OOS	Comment Type T Comment Status X OOS
"The PD shall draw no more power across all input voltages than defined for the requested Class in Table 145-26 and Table 145-27."	"A single-signature PD shall identify the PSEs assigned Class, as defined in Table 145-11."
This is a needlessly hard to meet requirement. PDs that operate close to PClass_PD, but are exposed to voltage lower than VPort_PD-2P MIN, and behave as a constant-power device, would need to guard power consumption between Voff_PD and VPort_PD-2P MIN.	This seems like an early attempt at stating that the PD must honor power demotion. This "requirement" is redundant both to the state diagram, and this one: "The PD shall conform to the assigned Class, regardless of its requested Class."
This requirement should only apply when the PD is exposed to a valid powering voltage.	Finally, as stated, it completely untestable and meaningless.
SuggestedRemedy	SuggestedRemedy
"The PD shall draw no more power across any voltage in the range of VPort_PD-2P than defined for the requested Class in Table 145-26 and Table 145-27."	Strike sentence.
Proposed Response Response Status O	Also strike "A dual-signature PD shall identify the PSEs assigned Class, as defined in Table 145-11." On line 19.
	Proposed Response Response Status O
	C/ 145 SC 145.3.8.8 P216 L37 # r04-47
	Yseboodt, Lennart Philips Lighting
	Comment Type TR Comment Status X
	"When any voltage in the range of 0 V to V Port_PD-2P max is applied across the PI at either polarity specified on the conductors of either Mode A or Mode B according to Table 145-20, the voltage measured across the PI for the other Mode with a 100 kOhm load resistor connected across that other Mode shall not exceed V bfd as defined in Table 145- 29."
	We need to clarify the backfeed spec.
	SuggestedRemedy
	SuggestedRemedy Adopt yseboodt_01_0518_backfeed.pdf

145 SC 145.5.1 P 234 L 26 # [104-50] aboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting			
nment Type TR Comment Status X OOS			
"Implementations that support Data Link Layer classification shall comply with all mandatory parts of IEEE Std 802.1AB-2016; shall support the Power via MDI Type, Length, Value (TLV) defined in 79.3.2 and may support the Power via MDI Measurements TLV defined in 79.3.8; and shall support the control state diagrams defined in 145.5.3."			
The final shall is redundant and wrong. Depending on the kind of device (PSE, SSPD, or DSPS), different state diagrams must supported. The correct shall statements are in 145.5.3. ggestedRemedy			
Replace by: "Implementations that support Data Link Layer classification shall comply with all mandatory parts of IEEE Std 802.1AB-2016; shall support the Power via MDI Type, Lengt Value (TLV) defined in 79.3.2 and may support the Power via MDI Measurements TLV defined in 79.3.8."			
posed Response Response Status O			

C/ 145 SC 145.5.3.3 Yseboodt, Lennart	3.1 P245 Philips Lightin	L 42 a	# r04-51	-	SC 145.5.3.4. nart		L 21	# r04-52
Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status X There are mistakes in the "valid values" for the DLL variable lists. SuggestedRemedy Change as follows: // (PSE section) - p236.12 MirroredPDRequestedPowerValue: 0 through 999, and 0xACAC - p236.33 PDRequestedPowerValueEcho: 0 through 999, and 0xACAC - p236.33 PDRequestedPowerValueEcho: 0 through 999, and 0xACAC - p236.45 PSEAllocatedPowerValueEcho: 0 through 999, and 0xACAC - p236.45 PSEAllocatedPowerValue: 0 through 999, and 0xACAC - p236.45 PSEAllocatedPowerValue: 0 through 999, and 0xACAC - p245.5 MirroredPDRequestedPowerValueEcho: 1 though 999, and 0xACAC - p245.42 PDRequestedPowerValue: 1 through pd_dllmax_value, and 0xACAC - p245.49 PDRequestedPowerValueEcho: 1 through 999, and 0xACAC - p245.49 PDRequestedPowerValueEcho: 1 through 999, and 0xACAC - p245.49 PDRequestedPowerValueEcho: 1 through 999, and 0xACAC - p246.39 PSEAllocatedPowerValueEcho: 1 through 999, and 0xACAC - p246.39 PSEAllocatedPowerValueEcho: 1 through 999, and 0xACAC - p246.44 PSEAllocatedPowerValueEcho: 0 through 999 - p251.30 DELETTE PDMaxPowerValue - p251.39 PDMaxPowerValue_mode(X): 1 through 499 - p251.45 PDRequestedPowerValue: 0 through pd_dllmax_value_mode(Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status X OOS The last line of the arc from RUNNING to PD_POWER_REALLOCATION2 in Figure 145-45 is: " * (PDMaxPowerValue < PDRequestedPowerValue)"				
				C/ 145 S Yseboodt, Len <i>Comment Typ</i> OOS		P 259 Philips Lighting Comment Status X	L 52	# <u>r04-53</u>
				"Per Table 145-42 this is the requested power for the active Mode." What is active mode? This is not defined. SuggestedRemedy Change to: "Per Table 145-42 this is the requested power for the powered Mode." Proposed Response Response Status 0				

C/ 145 SC 145.6.5 P 262 L 9 # r04-54	C/ 145 SC 145.2.6.2 P161 L40 # r04-56				
Seboodt, Lennart Philips Lighting	Peker, Arkadiy Microsemi Corporation				
Comment Type T Comment Status X	Comment Type TR Comment Status X				
oos	A requirements related to current need to be met at the negative pairs as we did in D3.3 other parameters. Equation 145-1 is using currents to calculate the resistance during detection. I1 and I2 need to be the currents on the negative pairs.				
"The PD and PSE powered cabling link shall comply with applicable local and national codes for the limitation of electromagnetic interference."	SuggestedRemedy In the where list change from: "I1 and I2 are the first and second current measurements made of the pairset current,				
This requirement applies to the CABLE connecting the PSE and the PD and links to 'applicable codes' that are not in our purview.	respectively" To: "I1 and I2 are the first and second current measurements made of the pairset current, respectively. I1 and I2 are measured on the negative pair."				
Out of scope for our document and provides no value.	Proposed Response Response Status O				
SuggestedRemedy	·				
Delete 145.6.5.					
Proposed Response Response Status O	C/ 145 SC 145.3.3.3.5 P 195 L 28 # r04-57 Lemahieu, Joris ON Semiconductor				
	Comment Type T Comment Status X				
V 145 SC 145.3.8.9 P219 L 46 # r04-55	When the PSE has allocated the PD Class 7 or Class 8 power, it should not be an issue				
tover, David Analog Devices Inc.	the PD would already draw Class 4 power in the POWER_DELAY state.				
Comment Type T Comment Status X	The PD can actually use Class 3 power (13W) over each 2-pair, hence Class 4 power (25.5W) in total should be possible.				
"A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance in the range of RChan max between the PD PI and the source." RChan max is not a range.	Nothing needs to be changed in the dual-signature state machine.				
SuggestedRemedy	SuggestedRemedy				
Change "in the range of RChan max" to "in the range of 0 ohm to RChan max"	Replace				
Proposed Response Response Status O	pd_max_power <= min(3, pd_req_class) with IF (pse_power_level = 8) THEN pd_max_power <= min(4, pd_req_class) ELSE pd_max_power <= min(3, pd_req_class) END				
	Proposed Response Response Status O				

emahieu, Joris ON Semiconductor Comment Type G Comment Status X Single reference to Tdelay-2P. UggestedRemedy Replace Tdelay-2P by Tinrush_PD mor by Tinrush_PD max If Tinrush_PD max is chosen, then it seems like there is no longer a configurable Tinrush_PD only Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 nogae 209 could be replaced by 50 for clarity. Proposed Response Response Status O If 145 SC 145.3.3.5 P195 L 38 # r04-59 Market L 45-59 Market L 45-		
Single reference to Tdelay-2P. uggestedRemedy Replace Tdelay-2P. by Timush_PD or by Timush_PD max If Timush_PD max is chosen, then it seems like there is no longer a configurable Timush_PD max If Timush_PD max is used. Then the emdash for Timush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. <i>troposed Response</i> Response Status 0 Nemonet Type T Comment Type T Comment Type APD can trick a PSE that implements a minimum linush below 400mA (only 60 mA required) when VPSE is between 10 V and 30 V. If the PD requests Class 8 power and them makes the Vpse voltage collapse boliw the Ymark threshold (with the lower than a00mA current limit at Vmark), according to the state machine it is allowed to use Class 8 powers an 400mA current limit at Vmark), according to the state machine it is allowed to use Class 8 powers an 400mA current Imit at Vmark), according to the state machine it is allowed to use Class 8 powers an exponse Status O uggestedRemedy Norment Type Response Status O Replace Comment Type Comment Type Comment Type Comment Type APD can trick a PSE that implements so at threshold (with the lower than anuliport system, the implementer should maintai		
uggestedRemedy Replace Tdelay-2P by Tinrush_PD or by Tinrush_PD max If Innush_PD max is chosen, then it seems like there is no longer a configurable Tinrush_PD. Only Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. <i>troposed Response</i> Response Status O v1 145 SC 145.3.3.3.5 P 195 L 38 # [r04-59] v1 145 SC 145.3.3.3.5 P 195 L 38 # [r04-59] vomment Type T Comment Status X As a result of darshan_01_0518.pdf which shows that higher backfeed voltage may increase cross pairs/port leakage currents. * womment Type T Comment Status X As po can trick a PSE that implements a minimum linnush below 400mA (only 60 mA required) when VPSE is between 10 V and 30 V. If the PD requests Class 8 power and then makes the Vpse voltage collapse below the Wmark threshold (with the lower than 400mA current limit at Vmark), according to the state machine it is allowed to use Class 8 power. SuggestedRemedy uggestedRemedy Change from: "In a multiport system, the implementer should maintain DC isolation through the termination circuitry to eliminate cross-port leakage currents." womment Type T Comment Status X Na multiport system, the imp		In the text "VOff_PD_min The minimum PD off voltage VOff_PD min (see Table 145-25)",
Repards Tdelay-2P by Tinrush_PD or by Tinrush_PD max If Tinrush_PD max If Tinrush_PD max is chosen, then it seems like there is no longer a configurable Tinrush_PD. Only Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 200 could be replaced by 50 for clarity. <i>troposed Response Response Status</i> 0 V145 SC 145.3.3.5 P 195 0N Semiconductor tomment Type T Comment Status X A PD can trick a PSE that implements a minimum linrush below 400mA (only 60 mA required) when VPSE is between 10 V and 30 V. If the PD requests Class 8 power and then makes the Vpse voltage collapse below the Vmark threshold (with the lower than 400mA current limit at Vmark), according to the state machine it is allowed to use Class 8 power. uggestedRemedy Remove the NOPOWER_INRUSH state.	SuggestedRemedy	
Thrush_PD or by or by Thrush_PD max If Thrush_PD. Only Thrush_PD max is chosen, then it seems like there is no longer a configurable Thrush_PD. Only Thrush_PD max is used. Then the emdash for Thrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. Image: Comment Status		
If Tinrush_PD max is chosen, then it seems like there is no longer a configurable Tinrush_PD. Only Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. If Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. If Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. If Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. If Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. If Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. If Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. If Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. If Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. If Tinrush_PD Max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. If Tinrush_PD Max is used. Then the emdash for Tinrush_PD Max is used. If Tinrush_PD Max is used. The for Tinrush_PD Max is used. If	TInrush_PD or by	Proposed Response Response Status O
If Tinrush_PD max is chosen, then it seems like there is no longer a configurable Tinrush_PD. Only Tinrush_PD max is used. Then the emdash for Tinrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. Throposed Response Response Status O Table 145 SC 145.3.3.5 P195 L38 # r04-59 emahieu, Joris ON Semiconductor tomment Type T Comment Status X A PD can trick a PSE that implements a minimum linrush below 400mA (only 60 mA required) when VPSE is between 10 V and 30 V. If the PD requests Class 8 power and then makes the Vpse voltage collapse below the Vmark threshold (with the lower than 400mA current limit at Vmark), according to the state machine it is allowed to use Class 8 power. uggestedRemedy Remove the NOPOWER_INRUSH state.	Tinrusn_PD max	C/ 145 SC 145 4 1 P221 / 37 # r04-61
Thrush_PD. Only Thrush_PD max is used. Then the emdash for Thrush_PD Min in Table 145-29 on page 209 could be replaced by 50 for clarity. <i>traposed Response Response Status Response Status</i> O <i>t</i> 145 SC 145.3.3.3.5 <i>P</i> 195 <i>L</i> 38 <i>t</i> 104-59 <i>t</i> 145 SC 145.3.3.3.5 <i>P</i> 195 <i>L</i> 38 <i>t</i> 104-59 emahieu, Joris ON Semiconductor Somment Type T <i>Comment Status</i> X A PD can trick a PSE that implements a minimum Ilnrush below 400mA (only 60 mA required) when VPSE is between 10 V and 30 V. If the PD requests Class 8 power and 400mA current limit at Vmark), according to the state machine it is allowed to use Class 8 power. <i>SequestedRemedy</i> uggestedRemedy Remove the NOPOWER_INRUSH state. <i>Proposed Response Response Status</i> O		
In the Description of the problem o		
<i>Comment Type</i> T <i>Comment Status</i> X A PD can trick a PSE that implements a minimum IInrush below 400mA (only 60 mA required) when VPSE is between 10 V and 30 V. If the PD requests Class 8 power and then makes the Vpse voltage collapse below the Vmark threshold (with the lower than 400mA current limit at Vmark), according to the state machine it is allowed to use Class 8 power. <i>PuggestedRemedy</i> Remove the NOPOWER_INRUSH state.	Proposed Response Response Status O	increase cross pairs/port leakage current and increase PSE susceptibility to detection pollution, it is recommended to add link to the backfeed requirement in the text: "In a multiport system, the implementer should maintain DC isolation through the termination
A PD can trick a PSE that implements a minimum IInrush below 400mA (only 60 mA required) when VPSE is between 10 V and 30 V. If the PD requests Class 8 power and then makes the Vpse voltage collapse below the Vmark threshold (with the lower than 400mA current limit at Vmark), according to the state machine it is allowed to use Class 8 power. uggestedRemedy Remove the NOPOWER_INRUSH state.	Lemahieu, Joris ON Semiconductor	SuggestedRemedy
400mA current limit at Vmark), according to the state machine it is allowed to use Class 8 Proposed Response Response Status O power. uggestedRemedy Remove the NOPOWER_INRUSH state.	A PD can trick a PSE that implements a minimum IInrush below 400mA (only 60 mA required) when VPSE is between 10 V and 30 V. If the PD requests Class 8 power and	To: "In a multiport system, the implementer should maintain DC isolation through the
Remove the NOPOWER_INRUSH state.	400mA current limit at Vmark), according to the state machine it is allowed to use Class 8	Proposed Response Response Status O
roposed Response Response Status O	SuggestedRemedy Remove the NOPOWER_INRUSH state.	
	Proposed Response Response Status O	

Cl 145 SC 145.2.6 .2 Darshan, Yair	2 <i>P</i> 161	L 40	# <u>r04-62</u>	C/ 145 Darshan, Ya	SC 145.3.8.8	P 216	L 40	# r04-64
done at the negative p it for the detection. Eq detection. I1 and I2 ne <i>SuggestedRemedy</i> In the where list chang "I1 and I2 are the first respectively" To: "I1 and I2 are the first	Comment Status X ver we need to meet requirement airs as we did in D3.3 for Iclas uation 145-1 is using currents ed to be the currents on the ne ge from: and second current measurement and second current measurement are measured on the negative	s, linrush and to calculate the egative pairs as nents made of th nents made of th	Iport. We missed to do resistance during well. ne pairset current,	PD equi correctly unpower based bi The abo a) Claus b) Claus for 2-pai	e is: o meet Backfee opped with a spe in a 3-pair mod ed PSE alterna idges that do n ve behavior is a e 145.3.2 Page e 145.3.8.8 Page r, 3-pair and 4-p	Comment Status X d voltage in D3.4 when 4-pa cific implementation of idea de which result in maximum tive. This ideal diode bridge of have this problem. violation of two important p 188 Line 3: "The PD shall r ge 216 Lines 35-40: The bac pair modes.	I-diode bridge the PD input voltage doesn't behave principles we hav not source power ckfeed requireme	at doesn't work e backfeed to the as expected from diode re so far: r on its PI." ent currently required
Proposed Response	Response Status O	L 37	# r04-63	meeting (3-pair) a The safe	backfeed OR v and 4-pair mode and worry free	perability issues to PSEs if we can keep the current text as per Table 145-20 in the P thing to do I believe, is to in need to be discussed that	that in my opinic D to meet backf nclude 3-pair mo	on cover all valid 2-pair eed requirements. de however, there is
The current text requir signature PDs (and it backfeed in any opera signature on the unpo higher offset voltage. SuggestedRemedy 1. Add after line 40 de will be reserved for sir "When any voltage in either polarity specifie 145-20 for any valid 3	Comment Status X ed BACKFEED-DUAL. ng to meet backfeed should co looks like that it does) howeve tion modes; 2-pair, 3-pair or 4- wered mode and/or PSE will fa dicated backfeed requirement gle-signature PD 3-pair discus the range of 0 V to VPort_PD- d on the conductors of either M 2-pair or 4-pair configuration, th 100 kohm load resistor connect d in Table 145-29."	er dual-signature pair otherwise t il to detect valic for dual-signatu sion if it is going 2P max is applie lode A or Mode ne voltage meas	e PD must meet he PD will show invalid- l signature due to rre (the first paragraph g to be changed): ed across the PI at B according to Table sured across the PI for	See dars PSE/PD SuggestedR Option 1 Keep the signature Option 2 If and or modify th include a marked See dars	vendors. emedy e current backfe e PDs. ly if we are all of the current text a ull 2-pair and 4- BACKFEED-DU shan_01_0518. nns and discuss	odf for updated comment ar	d both single-sig issues to exclude e and add the te). This text is pro	nature and dual- e 3-pair mode, to xt for dual-signature to posed in my comment
Proposed Response	Response Status O							