IEEE P802.3at D4.0 PoEplus comments

C/ 33 SC 33.2.9.6	P 62	L 42	# 26	C/ 33			P 64	L 48	# 58
			# 20			33.2.9.8	•••		# 38
addressing the condition Tinrush minimum is 50 0.45A) is kept at any pull fimplementer uses ite PSE is allowed to supp 10V<=Vport<=30V as in not permitted. Example: If the PD input capacito from 30V to 57V, We g 30V)/0.4)=85ms>75ms It became worse with th So the question is: Wh	Microsemi Co <i>Comment Status</i> R anditions required to meet the ms for meeting Tinrush as we msec which was originally cal ort voltage from zero to Vport ms (d) and (e) for Foldback c ly linrush=60mA minimum (a Tinrush may result with much or is 150uF and PSE uses linr et Tinrush=150uF*(30V/0.06/ ec.(After 75msec, port must t igher capacitors value which at are the conditions in which e same conditions as linrush	specifications fo II. Iculated as long urrent limit imple nd not 0.4 to 0.4 higher time dura tush=60mA from A + (57V- urn OFF). also supported Tinrush should	as linrush (0.4A to ementation in which 15A) as long as ation >75msec which is n 0V to 30V and 0.4A by this specifications. be tested.	802.3 unned Suggeste Chan A^2s. Response REJE Vote t Y: 4 N fails	Type A^2s as af currer cessarily dRemed ge the va Recalcu CT. to accep I: 5 A:4	nt levels, v limiting to ly alue of K f ulate the ir t the comr	Silicon Labor Comment Status R y limitation constant is depry which are exceeded even at enforce the same empiricat rom (0.5A * 0.5A * 100ms) thercepts with the 50A and Response Status U ment	recated. It was on DC in Type 2 sy al constant. to [(600mA*450/3 1.75A segments	stems. It seems 350)^2 * 75ms] = 0.045
	nrush and Tinrush from 30V to		•	CI 33 Schindler, Comment	Frederic	33.6.5 ck ER	P 100 Cisco Syster Comment Status R	L 26 ns, Inc.	# 160
Suggested Remedy: Replace the text of line "The specification for II With: "The specification for Ii of at least 30V and und 	nrush in Table 33-11 shall be nrush and Tinrush in Table 3: ler the following conditions:" he implementation being use	3-11 shall be me d it can also be	et at initial port voltage	p100, Suggeste	26. Nori dRemed ice "A Ty "	mally PSE ly	shall send" with "Under r Response Status U		, a Type 2 PSE shall
Response REJECT.	is is not the minimum requirer Response Status U not reach consensus, rejected						ne past. For Type 2 devices uirements over all condition		was that there was no

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CI 33	SC 33.4.1	P 82	L 34	# 177	C/ 00	SC O	Р	L	# 178
Maytum, N	lichael	Bourns, Inc.			Maytum, N	/lichael	Bourns, Inc.		

Cor

Comment Type TR Comment Status R

Subclause 5.2.2 of IEC 60950-1 specifies an insulation test voltage of a)1500 V rms or a DC voltage at least equal to the peak AC voltage e.g. b)2250 V dc. Impulse test of c)1500 V, 10/700 completely fails to reach the 2250 V peak stress voltage of tests a) and b). The TNV-1 CIRCUIT or a TNV-3 CIRCUIT voltage level of 1.5 kV is based on ITU-T K.21 Resistibility of telecommunication equipment installed in customer premises to overvoltages and overcurrents. In K.21 the assumed primary protector let-through voltage of 1.5 kV sets the 1.5 kV test level of K.21 test 2.1.1.b (basic). In the case of Ethernet circuits primary protectors are not installed, which will increase the inherent impulse voltage level. Conversely most Ethernet wiring is internal, which will decrease the impulse voltage level. For unprotected TNV-1 interfaces ITU-T K.21 specifies a higher level 6 kV (enhanced). A US telecommunication supplier has found it necessary to increase internal port withstand test level from 1.5 kV to 6 kV for their fibre to the home installations to reduce failures.

SuggestedRemedy

Change the option c) 1500 V 10/700 test level to 2250 V 10/700

Response

Response Status U

REJECT.

These are well established parameters set forth by the IEEE as minimum functional requirements and are not replacements for safety (or other) requirements that may need to be met by a specific product in a specific jurisdiction. IEC 60950-1 is only referenced for the methodologies.

See 178, which is the identical comment without a remedy.

iytum, Michael		Bourns, Inc.	
mment Type	GR	Comment Status R	

The impulse value of 1.5 kV 10/700 is too low for the above reasons. Compliance only to the lower 1.5 kV 10/700 condition allows manufacturers to reduce insulation withstand voltage and potentially expose users to greater hazards.

SuggestedRemedy

Response Status U

REJECT.

Response

Comment makes reference to another comment and offers no solution. Contexually, this is a duplicate of comment 177 (the referred to comment) and therefore this comment is unneccessary.

4/3/09: commentor replied that the two comments are actually one comment and that this should prepend the other comment (177). This is an artifact of a problem with the web based comment entry tool.

C/ 33	SC 33.3.1	P 69	L 42	# 247
Patoka, Mar	tin	Texas Instrum	ents	

Comment Type TR Comment Status R

Information in the note is critical to maintain interoperability with the PSE devices specified.

SuggestedRemedy

Remove the text "Note-" making it clear this is a requirement. Although the text is clear in this, the "Note" might be confusing.

Response Response Status U

REJECT.

Discussed and could not come to consensus. Default action is to reject.

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C/ 00	SC ()	Р		L	# 333
McCormac	ck, Micha	ael	Texas	s Ins	struments	
Comment	Туре	GR	Comment Status	R		mgi
manaq by a T	ged devi	ces and I	x this, but, it appears have triggered suppo , I believe, and unint	rt fo	r management for	all clauses implemented
Suggested	Remedy	/				
Not su	ire how t	o fix.				
Response			Response Status	U		
REJE	CT.					
discus	sed but	no conce	ensus, rejected by de	faul	t	
Some	snips fro	om offline	e discussions:			
			0			oc or IEEE P802.3bc to

match IEEE 802.3at next week. If we decide to go with LLDP being a separate containment tree as IEEE P802.3bc is at the moment we have solved the above problem - if we don't we need to change the packages in IEEE P802.3at to allow LLDP to be separate from the other attributes."

"Since we voted to make 802.3at contingent on 802.3bc, I think we should change 802.3at to match 802.3bc. Otherwise we will have a mismatch. Also the attributes corresponding to the legacy Power TLV presently follow the containment in 802.3bc. So it makes sense to put all the attributes related to PoE within the same containment."