comments

soa

C/ 33	SC 2.8.1	P 25	L 50	# 178
Johnson,	Peter	Sifos Te	chnologies	

Comment Type T Comment Status X

The requirement that "A PSE in the power on state may remove power from the PI when the PI voltage no longer meets the Vport specification" essentially negates the broader purpose of specifying linrush, Tlim, and Ilim elsewhere in the specification. PSE's that enter a current limiting state, as defined by linrush, Ilim, and Tlim will in all likelihood drop below the Minimum Vport level since they are functioning as current sources (400 to 450mA), not voltage sources in this mode. This behavior is time-bounded by Tlim, of course.

Since linrush, Ilim, and Tlim provide robustness within PoE to handle marginally compliant transient overload conditions, it seems unwise to undermine those requirements with this clause. Also, 33.2.8.8 now adds further criteria ("SOA" Type 2 PSE's) for removing power based upon transient overload current designed to protect PSE's and interconnect integrity. The relevance of that criteria would be undermined by this particular clause.

Finally, this clause is simply inconsistent and contradictory with 33.2.8.8 b).

SuggestedRemedy

Revise 33.2.8.1 as follows:

Replace:

"A PSE in the power on state may remove power from the PI when the PI voltage no longer meets the Vport specification"

With:

"The Minimum Vport specification in Table 33-5 shall not apply to PSE's operating in a current limiting condition over the period Tlim as defined in 33.2.8.5 and 33.2.8.8."

Response Status W

Proposed Response

see 137

C/ 33 SC	2.8.1	P 25	L 51	# 137
Stanford, Clay		Linear Techno	ology	
Comment Type	т	Comment Status X		soa

A new statement is added:

"A PSE in the power on state may remove power from the PI when the PI voltage no longer meets the VPort specification."

This is inconsistant with many other entries in the specification, for example Table 33-5, item 11, Short Circuit Time Limit, TLIM, 50ms minimum.

SuggestedRemedy

Remove the statement:

"A PSE in the power on state may remove power from the PI when the PI voltage no longer meets the VPort specification."

Proposed Response Response Status W

see 178

C/ 33	SC 2.8.6	P 27	L11	# 186
Schindler,	Fred	Cisco System	S	
Comment	Type TR	Comment Status X		soa
thresh	holds. This does	ires that a PSE remove power not ensure interoperability or sign requirement.		
Suggeste	dDomody			

SuggestedRemedy

Allow the existing requirement or figure 33-9a SOA requirements to specify what is required for compliance.

Proposed Response Response Status **0**

C/ 33 SC 2.8.6 Page 1 of 3 9/18/2007 4:29:02

CI 33 SC 2.8.8 P27 L 33 # 185	1	C/ 33	SC 2.8.	8		P 27	L 43	# 78	
Schindler, Fred Cisco Systems		Dove, Dan	niel			ProCurve Net	working		
Comment Type TR Comment Status X	soa	Comment	Туре ТІ	R	Comment S	status X			soa
This section needs to be modified in order to permit PSE to reach current levels jus the SOA described in figure 33-9a.	st below	PI curr	rent exceed	ding the li	mit makes r	ne concerned	about the respo	ower immediately onse to a large tra and blowing things	nsient
SuggestedRemedy	-0				be a challe		0	0 0	•
If a PSE provides current that meets system safe operating (SOA) requirements, IE 60950, and PD minimum power needs, then safety and interoperability are met with		Suggested	dRemedy						
design requirements imposed. Within the region between PD current needs and S	OA	Chang	ge the term	"immedia	ately" to son	nething more	specific.		
current limits, a PSE system selects the design (current limit, current cut-off, and due that meets its markets needs. See Vport ad hoc current limit presentations for the		Proposed	Response	ŀ	Response S	tatus W			
proposed system current vs time limits.		see 96	6						
Suggested remedy:		CI 33	SC 2.8.	8		P 27	L 43	# 28	•
Type-1 PSE can power as described in this section.		LANDRY,	MATTHEW	/		SILICON LAE	BORATO		
Add, Type-2 PSEs		Comment	Туре ТІ	R	Comment S	status X			soa
Remove the requirement to remove power within TLIM, and require that the PSE m SOA limits. Remove the sentence "Measurement to be taken after 1 ms to ignore initial transien Proposed Response Response Status O		Is there any reason not to make SOA curve applicable to Type 1 PSEs as well as Type 2 PSEs? All safety and existing peformance studies obviously made use of Type 1 equipment. Further, the SOA curve is well outside of the ILIM max defined for Type 1, therefore it should be impossible for a compliant Type 1 device to violate this new SOA							
				u be inibu	ossible for a				
roposed Response Response Status U		require		u pe impo	ossible for a	compliant Ty			
			ement.	u be impo	ossible for a	compliant Ty			
C/ 33 SC 2.8.8 P27 L43 # 96		require S <i>uggeste</i> a	ement.	u be impo	describle for a	compliant Ty			
		require S <i>uggeste</i> a	ement. <i>dRemedy</i> "Type 2"		Sesible for a				
Cl 33 SC 2.8.8 P27 L43 # 96 Darshan, Yair Microsemi Corporation Comment Type T Comment Status X	soa	require <i>Suggested</i> Strike	ement. <i>dRemedy</i> "Type 2"						
Cl 33 SC 2.8.8 P27 L43 # 96 Darshan, Yair Microsemi Corporation Comment Type T Comment Status X Power can not tremoved "immidiatly" this term is not well defined.	soa	require <i>Suggested</i> Strike	ement. <i>dRemedy</i> "Type 2"	ļ			L 49	# 122	
CI 33 SC 2.8.8 P27 L43 # 96 Darshan, Yair Microsemi Corporation Comment Type T Comment Status X Power can not tremoved "immidiatly" this term is not well defined. SuggestedRemedy	soa	require Suggestea Strike Proposed	ement. dRemedy "Type 2" Response SC 2.8.	I	Response S	tatus W	L 49		
CI 33 SC 2.8.8 P27 L43 # 96 Darshan, Yair Microsemi Corporation Comment Type T Comment Status X Power can not tremoved "immidiatly" this term is not well defined. SuggestedRemedy Change to "Power shall be removed within 1msec from the PI of Type 2 PSE"	soa	require Suggested Strike Proposed I Cl 33	ement. dRemedy "Type 2" Response SC 2.8. Yair	8	Response S	tatus W P 27 Microsemi Co	L 49		soa
CI 33 SC 2.8.8 P27 L43 # 96 Darshan, Yair Microsemi Corporation Microsemi Corporation Comment Type T Comment Status X Power can not tremoved "immidiatly" this term is not well defined. SuggestedRemedy	soa	require Suggested Strike Proposed I Cl 33 Darshan, Y Comment Chang See "F	ement. dRemedy "Type 2" Response SC 2.8. Yair Type TI ge the Fusir	8 R ng equati	Response S Comment S on in a way	tatus W P27 Microsemi Co Status X that refect all	<i>L</i> 49 prporation its parameters.		soa
Cl 33 SC 2.8.8 P27 L43 # 96 Darshan, Yair Microsemi Corporation Comment Type T Comment Status X Power can not tremoved "immidiatly" this term is not well defined. SuggestedRemedy Change to "Power shall be removed within 1msec from the PI of Type 2 PSE" Proposed Response Response Status W	soa	require Suggested Strike Proposed I Cl 33 Darshan, Y Comment Chang See "F	ement. <i>dRemedy</i> "Type 2" <i>Response</i> <i>SC</i> 2.8. Yair <i>Type</i> TI ge the Fusir Fusing equa details.	8 R ng equati	Response S Comment S on in a way	tatus W P27 Microsemi Co Status X that refect all	<i>L</i> 49 prporation its parameters.	# 122	soa
Cl 33 SC 2.8.8 P27 L43 # 96 Darshan, Yair Microsemi Corporation Comment Type T Comment Status X Power can not tremoved "immidiatly" this term is not well defined. SuggestedRemedy Change to "Power shall be removed within 1msec from the PI of Type 2 PSE" Proposed Response Response Status W	soa	require Suggested Strike Proposed A Cl 33 Darshan, N Comment Chang See "F more of Suggested Chang To: Ipo Where Iport is t is the	ement. dRemedy "Type 2" Response SC 2.8. Yair Type TI ge the Fusir Fusing equa details. dRemedy ge from I=(C ort=(K/t)^0.9 s the currer e duration t 25mJoul en tion.	8 R ng equation ation: how 0.025/t)^0 5 nt at the F that the F	Response S Comment S on in a way v it was deriv .5 21 Sources Ip	tatus W P27 Microsemi Co Status X that refect all ved in 802.3a	<i>L</i> 49 orporation its parameters. " presentation f	# 122	soa 17 for

comments

C/ 33 SC 2.8.8	P 28	L32	# 23	C/ 33	SC 2.8.9	P 28	L39	# 11
ANDRY, MATTHEW	SILICON LABO		# 23		MATTHEW	SILICON LA		# [1]
Comment Type T Figure 33-9a title does applies only to Type 2 SuggestedRemedy	Comment Status X s not specify which PSE Type to PSEs.	which is applies	soa s, but the SOA curve	The c	n violating the	Comment Status X SOA curve in Figure 33-9a, TL ive text in this section should a nt limiting.		
Replace title with:					<i>dRemedy</i> ge text to read	l:		
'Type 2 PSE PI Safe (Operating Area'							
Proposed Response see 28	Response Status W	-l (l 0)		curre	nt limitation, p	idition is detected by a Type 1 ower removal from the PI shall n Table 33-5. See Figure 33C.4	begin within TLIN	A and be complete by
	ented that it could apply to type 1	()		Proposed	l Response	Response Status O		
C/ 33 SC 2.8.9 Darshan, Yair	P 28 Microsemi Corp	L 39 oration	# 111					
operating range howe	Comment Status X r the case that system (PSE and ver it is not clear from the text. 33C.4 and 33C.6 which are locat	,	0					
Replace 33.2.8.9 text	from:							
	ition is detected, power removal Off, as specified in Table 33-5. §							
to:								
a short circuit conditio be complete by TOff, a	PI normal operating voltage ran n is detected, power removal fro as specified in Table 33-5. jure 33C.6. and Figure 33C.6.1"							
For PL voltages below	or above Vport normal operating	range as defin	ed by table 33-5 item					

For PI voltages below or above Vport normal operating range as defined by table 33-5 item 1, If a short circuit condition is detected, power removal from the PI may begin at any time of t<TLIM and be complete by TOff, as specified in Table 33-5. See Figure 33C.4, Figure 33C.6. and Figure 33C.6.1"

Proposed Response Response Status W

see 50, 121

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: Clause, Subclause, page, line

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