

IEEE P802.3bt Unsatisfied Comments 4-Pair PoE 2nd Sponsor recirculation ballot comments

Cl 145 SC 145.2.8.7 P162 L # i-21
 Waters, Keith Schneider Electric

Comment Type TR Comment Status R Certification

I have concerns that PSE section 145.2.8.7 does not show any testing or certification listing requirements. This is a potential product and fire safety issue and needs to be addressed.

SuggestedRemedy

...at least 1 second width. Testing and a third party certification listing shall be required to confirm overload current protection will operate correctly.

Response Response Status W

REJECT.

This comment is out of scope.

The purpose of IEEE P802.3bt is to define interoperability, it is not to define product requirements. In respect to safety subclause 145.6.1 'General safety' of IEEE P802.3bt states 'All equipment subject to this clause shall conform to IEC 60950-1 or IEC 62368-1. In particular, the PSE shall be classified as a Limited Power Source in accordance with IEC 60950-1 or IEC 62368-1 Annex Q. Equipment shall comply with all applicable local and national codes related to safety.'. It is these referenced local and national codes that define the requirements, not IEEE P802.3bt. The need for certification is determined by the marketplace or regulation, and may vary by geography.

Cl 145 SC 145.2.8.8 P162 L # i-22
 Waters, Keith Schneider Electric

Comment Type TR Comment Status R Certification

I have concerns that PSE section 145.2.8.8 does not show any testing or certification listing requirements. This is a potential product and fire safety issue and needs to be addressed.

SuggestedRemedy

Add: Testing and a third party certification listing shall be required to verify the PSE operates per the requirements in this section.

Response Response Status W

REJECT.

This comment is out of scope.

The purpose of IEEE P802.3bt is to define interoperability, it is not to define product requirements. In respect to safety subclause 145.6.1 'General safety' of IEEE P802.3bt states 'All equipment subject to this clause shall conform to IEC 60950-1 or IEC 62368-1. In particular, the PSE shall be classified as a Limited Power Source in accordance with IEC 60950-1 or IEC 62368-1 Annex Q. Equipment shall comply with all applicable local and national codes related to safety.'. It is these referenced local and national codes that define the requirements, not IEEE P802.3bt. The need for certification is determined by the marketplace or regulation, and may vary by geography.

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Cl 145 SC 145.4.2 P200 L # i-23
 Waters, Keith Schneider Electric

Comment Type TR Comment Status R Certification

I have concerns that section 145.4.2 does not show any testing or certification listing requirements in regard to fault tolerance. This is a potential product and fire safety issue and needs to be addressed.

SuggestedRemedy

Add to standard: Testing and a third party certification listing shall be required.

Response Response Status W

REJECT.

This comment is out of scope.

The purpose of IEEE P802.3bt is to define interoperability, it is not to define product requirements. In respect to safety subclause 145.6.1 'General safety' of IEEE P802.3bt states 'All equipment subject to this clause shall conform to IEC 60950-1 or IEC 62368-1. In particular, the PSE shall be classified as a Limited Power Source in accordance with IEC 60950-1 or IEC 62368-1 Annex Q. Equipment shall comply with all applicable local and national codes related to safety.'. It is these referenced local and national codes that define the requirements, not IEEE P802.3bt. The need for certification is determined by the marketplace or regulation, and may vary by geography.

Cl Patents SC Patents P3 L 46 # i-316
 Crayford, Ian Network Generation L

Comment Type GR Comment Status R IP

*** Comment submitted with the file 9418000003-802.3bt - Crayford Ballot Comments.xls attached ***

This is a general comment regarding Intellectual Property. The use of PoE has been the subject of multiple litigations from NPEs (Non Practicing Entities), otherwise known as "Patent Trolls". Two in particular, Chrimar Systems and Network 1, have litigated against a significant group of companies in the Ethernet industry who ship products that implement PoE. Since 802.3bt increases the available power, this will no doubt attract new companies to utilize PoE in many new applications. What assurances have been made by companies who believe they have intellectual property that relates to 802.3bt (by at least Chrimar Systems and Network 1), such that licensing under RAND terms can be secured?

SuggestedRemedy

Issue a much stronger warning indicating the use of 802,3bt may result in alleged infringement of Intellectual Property,

Response Response Status W

REJECT.

The process for requesting an LOA for the IEEE P802.3bt project has been followed in respect to the two holders of potentially essential patent claims named in this comment, as well as for all other holders of potentially essential patent claims identified during this project.

The IEEE is not responsible for: (a) identifying Essential Patent Claims for which a license may be required; (b) determining the validity, essentiality, or interpretation of Patent Claims; or (c) determining whether any licensing terms or conditions provided in connection with submission of a Letter of Assurance, if any, or in any licensing agreements are reasonable or non-discriminatory; or (d) determining whether an implementation is a Compliant Implementation. See subclause 6.2 'Policy' of the IEEE-SA Standards Board Bylaws <<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6.2>>.

Discussion or other communications regarding: (a) the status or substance of ongoing or threatened litigation; and (b) the essentiality, interpretation, or validity of Patent Claims; is prohibited during IEEE-SA standards-development meetings or other duly authorized IEEE-SA standards-development technical activities. See subclause 6.2 'Policy' of the IEEE-SA Standards Board Bylaws <<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6.2>> and subclause 5.3.10.2 'Discussion of litigation, patents, and licensing' of the IEEE-SA Standards Board Operations Manual <<https://standards.ieee.org/develop/policies/opman/sect5.html#5.3.10.2>>.

The text contained in the 'Notice and Disclaimer of Liability Concerning the Use of IEEE Standards Documents' in respect to patents is mandated by subclause 6.3.1 'Public notice'

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of the IEEE-SA Standards Board Operations Manual
<<https://standards.ieee.org/develop/policies/opman/sect6.html#6.3.1>> and as such
suggestions for change to this text should be directed to the IEEE-SA Standards Board
Patent Committee Administrator at <patcom@ieee.org>.

<i>Cl</i> 145	<i>SC</i> 145.2.8	<i>P</i> 163	<i>L</i> 11	# r03-40
Yseboodt, Lennart		Philips Lighting		
<i>Comment Type</i>	TR	<i>Comment Status</i>	A	<i>PSE Power</i>
OOS				

There is no guidance on what to do in case when a fault occurs that causes the PSE to flip to two-pair (*_SEMI_PWRON state).
Would suggest to revert back to PClass in this case.

This provides guidance both for a case where power is managed through DLL or through Autoclass.
This is only required for Class 5-8.

SuggestedRemedy

Insert new sentence on line 12:
"When the PSE assigned Class 5 through 8 prior to a fault and then transitions to PRIMARY_SEMI_PWRON or SECONDARY_SEMI_PWRON, it shall revert the allocation of power to PClass per the assigned Class."

Response *Response Status* **U**
ACCEPT IN PRINCIPLE.

Insert new paragraph on line 12:
"When the PSE 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."