

IEEE P802.3 (IEEE 802.3cj) D3.0 Maintenance #12 (Revision) Initial Sponsor ballot comments

Cl 1 SC 1.4.281 P92 L4 # i-41  
 Nikolich, Paul INDEPENDENT

Comment Type TR Comment Status A

The current definition of 'lane' requires improvement.  
 Current definition: 1.4.281 lane: A bundle of signals that constitutes a logical subset of a point-to-point interconnect. A lane contains enough signals to communicate a quantum of data and/or control information between the two endpoints.

For example "bundle" is defined as a "group of signals", which is duplicated in "bundle of signals" above.  
 Per the definition of "bundle", it should be "A bundle that constitutes..."

Where is "quantum of data" defined? I couldn't find it.

Where is "endpoint" defined?

Unfortunately I don't have a good alternative definition.

SuggestedRemedy

Look through the draft and identify the various ways "lane" is used, then develop an appropriate single definition. If a single definition is not feasible, perhaps more than one definition is needed.

Response Response Status U

ACCEPT IN PRINCIPLE.  
 Replace the definition of "lane" with the following.

"A logical subset of the data and control information transmitted from one sublayer (e.g., PCS, PMA) to an adjacent sublayer across the inter-sublayer interface or from one PHY to another across the transmission medium (e.g. optical fiber, optical wavelength, wire pair). Lanes are transmitted in parallel and combine to deliver the full set of data and control information across the interface."

Cl 8 SC 8.3.2.1 P228 L44 # i-85  
 Maytum, Michael RETIRED

Comment Type ER Comment Status R iec60060

IEC 60060 comes as IEC 60060-1, IEC 60060-2, IEC 60060-3 only part 1 is required

SuggestedRemedy

Change IEC 60060 to IEC 60060-1 (High-voltage test techniques - Part 1: General definitions and test requirements)

Response Response Status W

REJECT.  
 Subclause 1.3 "Normative references" lists IEC 60060 as "IEC 60060 (all parts), High-voltage test techniques." which correctly follows the IEC guidance <<http://www.iec.ch/standardsdev/resources/draftingpublications/directives/principles/referencing.htm>> for an undated reference to all parts of an IEC standard. This therefore includes all parts of IEC 60060 including IEC 60060-1.

Cl 9 SC 9.9.3.1 P278 L36 # i-86  
 Maytum, Michael RETIRED

Comment Type ER Comment Status R iec60060

IEC 60060 comes as IEC 60060-1, IEC 60060-2, IEC 60060-3 only part 1 is required

SuggestedRemedy

Change IEC 60060 to IEC 60060-1 (High-voltage test techniques - Part 1: General definitions and test requirements)

Response Response Status W

REJECT.  
 See the response to comment i-85.

[Editor's note added after comment resolution completed.

The response to comment i-85 is:  
 "Subclause 1.3 "Normative references" lists IEC 60060 as "IEC 60060 (all parts), High-voltage test techniques." which correctly follows the IEC guidance <<http://www.iec.ch/standardsdev/resources/draftingpublications/directives/principles/referencing.htm>> for an undated reference to all parts of an IEC standard. This therefore includes all parts of IEC 60060 including IEC 60060-1."

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CI 12 SC 12.10.1 P368 L46 # i-87  
 Maytum, Michael RETIRED

Comment Type ER Comment Status R iec60060  
 IEC 60060 comes as IEC 60060-1, IEC 60060-2, IEC 60060-3 only part 1 is required

SuggestedRemedy

Change IEC 60060 to IEC 60060-1 (High-voltage test techniques - Part 1: General definitions and test requirements)

Response Response Status W

REJECT.  
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The response to comment i-85 is:

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CI 14 SC 14.3.1.1 P397 L3 # i-88  
 Maytum, Michael RETIRED

Comment Type TR Comment Status R isolation  
 IEC 60950-1:2001 Annex N is going away. IEC 60060-1 is the horizontal IEC standard for 1.2/50 impulses.

SuggestedRemedy

Replace IEC 60950-1:2001 Annex N with IEC 60060-1 as used previously

Response Response Status W

REJECT.  
 There was no consensus to make a change.

There are subclauses titled "Electrical isolation" throughout IEEE Std 802.3 requiring isolation to meet one of the three electrical strength test with references to IEC 60950-1 "Information technology equipment - Safety - Part 1: General requirements". However, IEC 62368-1 "Audio/video, information and communication technology equipment - Part 1: Safety requirements" will soon replace IEC 60950-1, as well as IEC 60065 "Audio, video and similar electronic apparatus - Safety requirements". IEC 62368-1 is not just a merge of these two standards, it is a new standard that has been developed using Hazard-Based Safety Engineering (HBSE), and is more performance oriented.

As a result, the IEEE 802.3 Working Group has an activity that is examining all "Electrical isolation" subclauses throughout IEEE Std 802.3. See <[http://www.ieee802.org/3/ad\\_hoc/isolation/index.html](http://www.ieee802.org/3/ad_hoc/isolation/index.html)>. It is considered appropriate that this activity should be allowed to complete rather than make this change.

CI 15 SC 15.3.4c P447 L30 # i-93  
 Maytum, Michael RETIRED

Comment Type TR Comment Status A bucket  
 Three uses of microm instead of micros

SuggestedRemedy

change microm to micros

Response Response Status W

ACCEPT.

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Cl 15 SC 15.3.4c P447 L 32 # i-95  
 Maytum, Michael RETIRED

Comment Type TR Comment Status R iec60060

IEC 60060 comes as IEC 60060-1, IEC 60060-2, IEC 60060-3 only part 1 is required

*SuggestedRemedy*

Change IEC 60060 to IEC 60060-1 (High-voltage test techniques - Part 1: General definitions and test requirements)

Response Response Status W

REJECT.  
 See the response to comment i-85.

[Editor's note added after comment resolution completed.  
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Cl 33 SC 33.4.1c P13 L # i-97  
 Maytum, Michael RETIRED

Comment Type TR Comment Status R isolation

TC 109 publishes the horizontal standard IEC 60664 series "Insulation coordination for equipment within low-voltage systems" the preferred impulse is 1.2/50 and as a starting point for testing the peak of the AC voltage, the DC voltage and impulse peak voltage should all be about the same.

"c) An impulse test consisting of a 1500 V, 10/700 micros waveform, applied 10 times, with a 60 s interval between pulses." This is technically incorrect for two reasons: The peak voltage is way too low and it is applicable to long distance telephone lines. The 1.5 kV 10/700 was the result of an ITU-T global study on telephone lines. As the lightning surge propagates down the line dispersion increases the front time and time to half value, together with lowering the peak voltage. An Ethernet cable is nothing like a long distance telephone line. Hence the more appropriate waveshape is 1.2/50 with a peak voltage of 2.4 kV.

*SuggestedRemedy*

Replace item "c" of 33.4.1 (1.5 kV, 10/700) with item "c" of 32.6.1 (2.4 kV, 1.2/50)

Response Response Status W

REJECT.  
 See the response to comment i-88.

[Editor's note added after comment resolution completed.

The response to comment i-88 is:  
 "There was no consensus to make a change.

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Cl 25 SC 25.4.6 P 228 L 34 # i-99  
 Maytum, Michael RETIRED

Comment Type TR Comment Status R isolation

IEC 60950-1:2001 Annex N is going away. IEC 60060-1 is the horizontal IEC standard for 1.2/50 impulses.

SuggestedRemedy

Replace IEC 60950-1:2001 Annex N with IEC 60060-1 as used previously

Response Response Status W

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Cl 32 SC 32.6.1 P 567 L 40 # i-101  
 Maytum, Michael RETIRED

Comment Type TR Comment Status R iec60060

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SuggestedRemedy

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Response Response Status W

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 See the response to comment i-85.

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The response to comment i-85 is:  
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Cl 40 SC 40.6.1.1 P240 L44 # i-104  
 Maytum, Michael RETIRED

Comment Type TR Comment Status R isolation

IEC 60950-1:2001 Annex N is going away. IEC 60060-1 is the horizontal IEC standard for 1.2/50 impulses.

SuggestedRemedy

Replace IEC 60950-1:2001 Annex N with IEC 60060-1 as used previously

Response Response Status W

REJECT.  
 See the response to comment i-88.

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Cl 55 SC 55.5.1 P765 L48 # i-106  
 Maytum, Michael RETIRED

Comment Type TR Comment Status R isolation

IEC 60950-1:2001 Annex N is going away. IEC 60060-1 is the horizontal IEC standard for 1.2/50 impulses.

SuggestedRemedy

Replace IEC 60950-1:2001 Annex N with IEC 60060-1 as used previously

Response Response Status W

REJECT.  
 See the response to comment i-88.

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Cl 113 SC 113.5.1 P768 L 52 # i-108  
 Maytum, Michael RETIRED

Comment Type TR Comment Status R isolation

IEC 60950-1:2001 Annex N is going away. IEC 60060-1 is the horizontal IEC standard for 1.2/50 impulses.

SuggestedRemedy

Replace IEC 60950-1:2001 Annex N with IEC 60060-1 as used previously

Response Response Status W

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Cl 126 SC 126.5.1 P97 L 44 # i-110  
 Maytum, Michael RETIRED

Comment Type TR Comment Status R isolation

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SuggestedRemedy

Replace IEC 60950-1:2001 Annex N with IEC 60060-1 as used previously

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