

IEEE 802.3at Plenary Meeting Minutes San Francisco 7/16-19/07
Thong Huynh Recording Secretary

7/17/07

- Mike McComack read the rule, There is no objection to move along
- Liaison report by Ms. Rybinski on TR42
 - Discussion by the group
 - Mike stops the discussion and directs the comments to tomorrow session from 5pm to the social
 - Next TIA meeting is in Palm Spring Sept 26th. The agenda will be published in August.
- Classification report by Clay Stanford
- Comment resolution by Chad Jones
- PoEp Magnetics Consideration by Bel – Joseph Berry
- PoE/PoE+ Magnetics comparison - Foxx Conn – Steve
- 100BASE-T normative 350uH Inductance Specification and IEEE P802.3at– David Law/Wael Diab
- Meeting adjourned
- Start Vport Ad-Hoc

7/18/07

- Proposal for Short Circuit Current – Yair Darshan
- Sign in books in the room – Wael Diab
- PoE+ Ilim System Consideration – Thong Huynh
 - (Yair Darshan substitutes as task force secretary during this session)
 - Group supports pulse current loading, the current and time limit values are TBD
 - Issue raised for current peak above 720mA that could affect the LAN magnetics. Waiting for magnetics vendors to provide more data.
 - Current limit based limit current to 820mA max.
 - Energy based limit current to 2A peak.

Yair Notes: for Thong during his presentation -----

Subject: PoE system current limit consideration for input transient and PD load step.

Thong: Yair had valid points and we heard few other views.

Presentation showed topics that we have to consider such available current and how we use the current to get the available power, the need to support current transient, step load at the PD etc.

Table 33-5 with the relevant 802.3at numbers presented.

Presentation suggested that 50ms time duration is also good for supporting PSE dv/dt with current limit set to 770mA.

Thongs suggest to limit the PD load peak current to 790mA and use the extra current 50mA to charge Cpd when constant current limit is used in the PSE hence additional

reason why much higher value than 3msec is required and suggested that the 50msec shown in Yair's presentation may help to achieve this goal.

A picture of a motor load was presented without filtering. Multiple transients of current shown for 8msec duration each for 1msec duration.

Starw poll:

Who would like to support applications that requires some transient current for limited time.

Yes:22

No:0

Should the peak current should be based on peak mA.

Y: 0

Should the peak current based on %.

Y: 12

Discussion if data transformer should support 920mA.

Group say no since PD load is max 820mA per the drawing presented.

Should we support PD load transient current up to 10% above 720Ma for 50msec over 1sec.?

Y: 6

N: 10

Who would like to move those numbers down.

Y: 10

Not to move current down.

Y:7

Move time down:8

Keep 50msec: 5

-----end Yair's note-----

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- Lunch break
- Cable in Conduit – Terry Cobb
- Comment Resolution – Chad Jones
 - Big discussion regarding 2 pairs/4 pairs power. Comment 48 was greatly discussed, straw poll: in: 22, out: 11, abstain: 7. Editor is instructed to backed out the change.
- Meeting adjourned

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- Vport Ad-hoc report – Fred Schindler
 - Passes 3 motions
- Liaison report – Wael Diab
- Regarding the draft – The chairman suggests to charter the editor to issue a new draft. The editor has license to act on truly editorial comments w/o going through resolution with the task force
- Discussion about mandating current limit function in the PD – Motion to mandate current limit in PD fails.
- Comment resolution starts 11:45am
- Anoop Vettech substitute in as Task Force secretary for the remainder of the session

-----Anoop's meeting notes-----

Motion:

IEEE P802.3at Task Force authorizes the editor to incorporate all resolved comments, unresolved editorial comments, and passed motions into D0.9. The draft and the comment database will be circulated for Task Force review and comment at least 30 days prior to the September 2007 interim meeting.

M: M. Landry

S: W. Diab

Technical

All

Y: 31 N: 1 A: 0

802.3

Y: 17 N: 1 A: 0

Motion passes

Motion:

PSE current limit above PD current limit

PD current limit upper threshold is set at the cable maximum current + 15%

M: C. Stanford

S: A. Vettech

All

Y: 15 N: 7 A: 11

802.3

Y: 10 N: 5 A: 3

Motion fails

----- end Anoop's meeting notes-----

Motion # Motion to Implement Change

PD current limit below PSE ILIM mandatory in Type 2 PDs

PD current limit upper threshold is set at the cable maximum current +7.6%

M: Clay Stanford

S: Anoop Vettech

Tech (75%)
All Y: 11 N: 13 A: 10
802.3 Voters Y: 7 N: 8 A: 4
Motion fails 7/19/07 11:46

Motion # Move that the IEEE 802.3at Task Force accept the letter IEEE_802_3_to TIA_0707.pdf to TR42 and request that 802.3 send it as a liaison to TR42

M: Wael Diab
S: A. Flatman
Tech (75%)
All Y: 28 N: 1 A: 2
802.3 Voters Y: 17 N: 1 A: 1
Motion passes 7/19/07 10:38

Motion # Move that a PSE in the power on state may remove MDI power when the MDI voltage is out of specification

M: Fred Schindler
S: Yair Darshan

All Y: 30 N: 0 A: 4
802.3 Voters Y: 19 N: 0 A: 0
Motion passes

Motion # Move that Type 2 PSEs may optionally power Type 1 PDs with Type 2 current limits.

M: Fred Schindler
S: Yair Darshan

All Y: 24 N: 0 A: 3
802.3 Voters Y: 18 N: 0 A: 2
Motion passes

Motion # Move that IEEE P802.3at adhoc to adopt the SOA “shall remove power “ proposal outlined in schindler_1_0719.pdf page 9.

M: Fred Schindler
S: Yair Darshan

All Y: 29 N: 0 A: 3

802.3 Voters Y: 21 N: 0 A: 1

Motion passes

Motion # Motion that the task force adopt a rule that in the event of the editor making undirected change to the draft that has more than 25% objecting, the change will be backed out.

M: Dan Dove

S: Wael diab

All Y: 43 N: 0 A: 1

Motion passes

Motion # Authorize the formation of an adhoc conference call to discuss the approaches available to provide an additional, alternative, conformance requirement to ANSI X3.263 subclause ...

M: Diab

S: Law

802 voters Y: 18 N: 0 A: 1

All Y: 23 N: 0 A: 0

Motion passes