

## **2006 Sept 19 IEEE PoEPlus Task Force Minutes**

Start at 09:00.

Agenda:

- Appoint Recording Secretary
- Discussion of order
- Intros
- Background stuff
- Presentations

Meeting Order

- Tue – Thurs 09:00-17:00 P802.3at

Core agendum approved by voice without opposition

Ground Rules – mutual respect and consideration

- No cost, product pitches, etc
- All may speak and vote
- No restrictions on presentations or materials
- No prices in any currency
- 802.3 rules apply

Rules – in general... behave

Rules – web sites presented for bylaws, operating rules, etc presented.

Patent Policy read by Mike McCormack

- Links provided
- Requested any letters to submit – none
- Questions on patent policy requested – none

Electronic information

- Web address – [www.ieee802.org/3/at/index.html](http://www.ieee802.org/3/at/index.html)
- eMail reflector – [stds-802-3-poep@ieee.org](mailto:stds-802-3-poep@ieee.org)
- Next meeting – watch [www.ieee802.org/meeting/index.html](http://www.ieee802.org/meeting/index.html)

Fred proposes that the committee break out into three different sessions based on the 3 Ad-Hoc Meetings - L1 Classification, Transient and L2.

### **Presentations**

- 1) Clay Stanford

IEEE802.3at Classification Ad-Hoc Status Report - stanford

1. Opposition on clause “Advanced power management not allowed in Layer 1”. Agreement on “Advanced power management over Layer 1 is out of scope of the standards”.
2. Opposition regarding discussions on 4-pair. Consensus on moving forward with a standard based on 2-pairs and finally not to preclude 4-pair approach from the standards.

3. Request for a table dealing with the timing requirements of the L1 Classification scheme to be added to the presentation. Presenter to consult with peers and sort out confusions regarding details and add such a table into a later presentation.

Yellow slip passed around for to mark attendance and affiliation of the attendees.

Chair proposes to allow a member who has been incapacitated and is unable to attend the meeting to dial into one of the presentations so as to provide invaluable feedback. Formal motion to be made later.

IEEE 802.3at Classification Ad Hoc Extended Classification using Two Classification Events - stanford

- No definition on the behavior of a PD when the PSE voltage is out of the Classification voltage range.
- Agreement on the fact that the behavior of the PD during the first classification event will be within the bounds of allowed af behavior.

Motion made by J Jetzt:

- The Task Force recognizes that Dan Dove can not attend this meeting due to extraordinary circumstances beyond their control. The Task Force also recognizes that Dan has prepared a presentation that he would have normally joint presented with another member who is present. The task force therefore requests that the TF chair and WG chair allow Dan Dove to attend his presentation via teleconference
- Moved by J Jetzt
  - Seconded by H Barrass
  - Chair rules this is a procedural motion (50%)
  - All – yea: 32; nay: 0; abstain: 0
  - Motion passes

Motion made by Daniel Feldman:

- The power level reported during L1 two finger classification must be the maximum power that the PD will ever need.
- Seconded by B Katzenberg
  - Chair rules this is a technical motion (75%)
  - All – yea: 12; nay: 7; abstain: 9
  - .3 voters – yea: 9; nay: 7; abstain: 7
  - Motion fails

Motion made by Tim Parker

- The endpoint PSE does either L1 two finger classification or L2 classification but not both.
- Unfriendly amendment moved by Wael Diab
  - Change the above wordings with “The endspan PSE does not do L1 two finger classification, only L2 classification. This motion does not change the requirement to boot in an af compliant mode”.
  - Seconded by Fred Schindler
  - Chair rules this is a technical motion (75%)
  - All – yea: 8; nay: 12; abstain: 6
  - .3 voters – yea: ; nay: ; abstain:
  - Motion fails

Friendly amendment for the original motion

- The endspan PSE does either L1 two finger classification or L2 classification but not both. This motion does not change the requirement to boot in an “af” compliant mode.
  - Seconded by B Katzenberg
  - Chair rules this is a technical motion (75%)
  - All – yea: 11; nay: 8; abstain: 9
  - .3 voters – yea: 7; nay: 7; abstain: 6
  - Motion fails

## **2006 Sept 20 IEEE PoEPlus Task Force Minutes**

Start at 09:00.

### **Presentations**

- 1) Anoop Vetteth
- 2) John Jetzt
- 3) Bill
- 4) Yair Darshan
- 5) Fred Schindler
- 6) Clay Stanford

Proposed type II PD Behavior - Anoop

1. No opposition raised or discussions about it thereafter

LLDP/LLDP\_MED Proposal for PoE Plus – John Jetzt,

1. Discussion on whether LLDP packets can be multicast. Jeff confirms that this is disallowed by 802.1 standards.
2. Hugh proposes that modify LLDP-MED to enable a flurry of messages to be allowed rather than enforce strict 1 second rule.
3. Wael raises the issue of whether the committee should rely on 802.1 for modifying LLDP. No major objections raised
4. Discussion on whether to have a new TLV for PoE. Agreement that this is a good idea.
5. Discussion on the timing of LLDP responses. What should be the allowable slowest and fastest response time?

Motion made by Wael Diab:

- IEEE P802.3at intends to use LLDP for L2 classification. IEEE P802.at uses LLDP-MED as a starting point.
- Seconded by D Law
- Chair rules this is a technical motion (75%)
- All – yea: 29; nay: 0; abstain: 1
- .3 voters – yea: 25; nay: 0; abstain: 1
- Motion passes

Cable Current Measurements – Cat6a – Bill

- Presented the data for Cat6a cables.
- Proposed what needs to be done moving forward
- Voice Vote – Have a point of contact to speak to and push the cable group for the requested data
- Voice Vote - Terry Cobb and Ron Nordin to be our point of contact

Simplifying 802.3at specifications – Yair

- Proposal to use the startup parameters mentioned in 802.3af specification for 802.3at PSEs and PD.
- General agreement within the group to use the same startup parameters.

Vport ad hoc discussion – Fred Schindler

- Presented the transient behavior of some of PDs and DC-DCs.

IEEE802.3at Classification Ad-Hoc Status Report – Stanford (Continuation from 9/20)

- Request by Fred to swap the timing between Class Event 1 and Class Event 2
- Max total time to be changed from ~56ms to 400ms
- Additional work on defining the state diagram for the PSE

Mat Landry proposes that if the PSE encounters a reserved type II class, it resets the PD classification state machine and turns it on.

Motion made by D.M. Landry:

- PD's implementing Type II classification shall repeat its second finger class current for any subsequent classification fingers within a single detection/classification cycle.
- Seconded by D. Feldman
  - Chair rules this is a technical motion (75%)
  - All – yea: 24; nay: 0; abstain: 0
  - .3 voters – yea: 20; nay: 0; abstain: 0
  - Motion passes

## **2006 Sept 21 IEEE PoEPlus Task Force Minutes**

Start at 09:00.

### **Presentations**

- 1) Mike McCormack
- 2) Daniel Feldman

Will future Type 1 PD be allowed to use L2 to legally go to 13W or more? – Mike McCormack

Motion made by Steve Robbins

- Motion to reconsider the motion stating “The power level reported during L1 two finger classification must be the maximum power that the PD will ever need” that failed on 9/19/06
- Seconded by Boris
- Chair rules this is a procedural motion (50%)
- All – yea: 21; nay: 1; abstain: 4
- Motion passes

Motion made by D Feldman

- Any PD that requires more than 12.95W shall support Type 2 Layer 1 classification and shall report its maximum power.
- Seconded by S Robbins
- Chair rules this is a technical motion (75%)
- All – yea: ; nay: ; abstain:
- .3 voters – yea: ; nay: ; abstain:

Motion to table the above motion by D Feldman

- Seconded by S Robbins
- Motion passes without opposition by voice

Motion made by B. Katzenberg

- All type-2 PDs may request any power level on either type-1 or type-2 Layer 1 and attempt to negotiate in Layer 2. A PD shall be allowed to request more or less power through L2 than requested in L1. In the absence of Layer 2, the PD shall subsequently advertise maximum power on Layer 1.
- Unfriendly amendment by D Feldman
  - All type-2 PDs may request any power level on either type-1 or type-2 Layer 1 and attempt to negotiate in Layer 2. A PD shall be allowed to request more or less power through L2 than requested in L1. In the absence of Layer 2, the PD shall subsequently advertise maximum power on Layer 1 classification extension.
  - Seconded by Y Darshan
  - Chair rules this is a technical motion (75%)
  - All – yea: ; nay: ; abstain:

- .3 voters – yea: ; nay: ; abstain:
- Motion withdrawn
- Seconded by W Diab
- Chair rules this is a technical motion (75%)
- All – yea: 15; nay: 10; abstain: 4
- .3 voters – yea: 14; nay: 8; abstain: 2
- Motion fails

IEEE802.3at\_Classification\_Table – Daniel Feldman

- Presented a table differentiating af and at classes

Motion made by Steve Robbins

- Approve the minutes of the July 2006 meeting as circulated in the file 2006\_July\_IEEE PoEP
- Seconded by Boris
- Chair rules this is a procedural motion (50%)
- All – yea: 21; nay: 1; abstain: 4
- Motion passes by voice

Motion made by Mike McCormack to Adjourn the proceedings of the Task Force – Passed without opposition

Adjourned at 2:20PM

Respectfully Submitted

Anoop Vetteth