

IEEE P802.3at MOTIONS PASSED

Last Updated May 2007

January 2006

Define a static and transient Vport for PSE and guidance for the PD.

M: F. Schindler S: G. Thompson

Define MIB objects covering extended management functions for PSE and PD

M: H. Barrass S: D. Law

The IEEE 802.3at Task Force affirms a 2-Pair Power solution at the PSE and PD contingent on meeting the project objectives.

M: W. Diab S: D. Law

The IEEE 802.3at Task Force requests the chair of 802.3at to form a classification ad-hoc. The ad-hoc will meet between February and the March 802 plenary and report back to the 802.3at Task Force in March.

M: W. Diab S: C. Stanford

March 2006

The IEEE 802.3at Task Force affirms that a PD requiring more than 12.95W will support a Layer-1 Classification extension and a Layer-2 Classification mechanism. Endpoint PSEs must support Layer-2 classification or Layer-1 classification extension for PDs requiring more than 12.95W.

M: W. Diab S: F. Schindler

Motion to charter the ad-hoc to make a proposal for the number of classifications.

M: M. Patoka S: W. Diab

May 2006

The IEEE 802.3at Task Force determines 2W as the lowest PD Layer 1 class level

M: D. Feldman S: F. Lari

The IEEE 802.3at Task Force determines that PDs should be classified in up to 10 Layer 1 classes, including the IEEE 802.3af classes, for operation over 2-pairs

M: D. Feldman S: W. Diab

Move that the IEEE 802.3at Task Force adopts 50V as the minimum Vport (see IEEE 802.3af-2003, Table 33-5, item 1) for PoE Plus.

M: F. Schindler S: W. Diab

July 2006

Move that the 802.3at Task Force adopt the schedule captured in the agenda slide “Timeline” as recorded in agenda_0706.pdf.

M: W. Diab S: S. Carlson

PDs and PSEs that are compliant only to Std 802.3-2005 will have the working label “Type-1”, PDs and PSEs that have the additional functionality to comply with the work of the P802.3at amendment will have the working label “Type-2.”

M: G. Thompson S: Y. Darshan

P802.3at Task Force will add no new mandatory requirements that will cause devices compliant with IEEE Std 802.3-2005 and IEEE Std 802.3-2005/Cor1-2006 to be non-compliant.

M: H. Barrass S: Y. Darshan

The P802.3at Task Force will add at least one L1 class between the existing 7W and 15.4W classes.

M: C. Stanford S: Y. Darshan

The P802.3at Task Force defined L1 classification power levels will not exceed the maximum power level as determined by the 802.3at committee.

M: C. Stanford S: Y. Darshan

The P802.3at Task Force will use the 2-event L1 classification mechanism as shown on p.6 stanford_1_0706.pdf.

M: C. Stanford S: Y. Darshan

P802.3at Task Force will define two pair PI.

M: M. Landry S: W. Diab

September 2006

IEEE P802.3at intends to use LLDP for L2 classification. IEEE P802.3at uses LLDP-MED as a starting point.

M: W. Diab S: D. Law

PDs implementing Type II classification shall repeat its second finger class current for any subsequent classification fingers within a single detection/classification cycle.

M: M. Landry S: D. Feldman

November 2006

Relevant page from diab_schindler_1106_1.pdf:

Simple Classification Baseline

PSE

- AT L2: Detects and classifies class 4. Communicates with PD in L2. Mutual ID achieved.
- AT L1: Detects and classifies class 4. Repeats classification (“dumb ping-pong”). Mutual ID achieved.
- AT PSEs shall choose the classification extension used.
- Legacy PSEs: Unchanged

PD

- AT PD: Use class 4 for all 802.3at PDs. After 1st classification, either
 - L2 communication which identifies 802.3at endspan
 - Second classification (“dumb ping-pong”). Identifies 802.3at midspan
 - Power-on after one classification cycle. Identifies legacy PSE
- Legacy PDs: Unchanged

Power Limits after classifying a Class 4 PD

- AT L2 PSEs enforce legacy limit until L2 is up
 - AT L1 PSEs enforce maximum power limit per 802.3at objective
 - AT PDs operate under class 0 limits until either L2 is up or second class and power-on
 - Legacy PDs and PSEs Unchanged
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The IEEE 802.3at Task Force adopts diab_schindler_1106_1.pdf as the baseline for 802.3at classification as modified.

M: W. Diab S: F. Schindler

Move that the P802.3at task force charter the editor to incorporate approved motions and maintenance items into draft 0.1.

M: C. Jones S: D. Feldman

Move that the P802.3at chairmain appoint a liaison to 802.1AB revision track.

M: T. Locke S: Y. Darshan

Move that technical feasibility for 1000BASE-T PoE midspans has been demonstrated and they are therefore in scope of the specification as long as the Class D 2002 channel transmission performance is met.

M: D. Feldman S: J. Dupuis

January 2007

Propose to accept the 360mA per conductor as a basis for the maximum current at this point in time.

M: Y. Darshan S: C. Stanford

Move that the Task Force adopts barrass_1_0107.pdf as the baseline for the L2 management mechanism for 802.3at (not including the TLV definitions). Baseline limited to slides: 7, 8, 9, 10, 11, & 15 (as modified in version 2).

M: H. Barrass S: D. Dove

The P802.3at Task Force accepts slides 8-11 of presentation “Stanford1 1-17-07” titled *PoE Plus IEEE 802.3at Classification Ad Hoc Extended Classification Using Two Classification Events* to augment the baseline proposal “Diab_Schindler_1106_1” classification mechanism, changing timing per table.

TIMING SPECIFICATIONS		
EVENT	MIN (ms)	MAX (ms)
1 st Class	6	30
1 st Mark	2	4
2 nd Class	6	30
2 nd Mark	2	4
TOTAL (for reference only)	16	68

M: C. Stanford S: Y. Darshan

March 2007

Move that the Task Force accept the proposal to reference ANSI/TIA-1057 PoE TLV (barrass_1_0307.pdf) as the minimal mandatory requirement for PD support for Layer 2 management as a baseline.

M: H. Barrass S: D. Law

The IEEE 802.3at Task Force adopt presentation schindler_1_03_07.pdf slides 5 and 9 to be incorporated in P802.3at draft D0.2.

M: F. Schindler S: T. Huynh

The P802.3at Task Force modifies the mark time of the 2-Event Classification from 2-4ms to 6-12ms.

M: T. Huynh S: Y. Darshan

The P802.3at Task Force adopts stanford_2_0307.pdf as the updated PD state diagram.

M: W. Diab S: C. Stanford

Move that the 802.3at task force eliminate the requirement for midspans to be only alternative B powering and to become alternate A or B the same as endspans for 1000BASE-T.

M: R. Frosch S: C. Jones

Accept the resolution of maintenance item 1164.

M: Y. Darshan S: F. Schindler

Replace strikethrough with underlined text “If a PSE performing detection using Alternative A detects an invalid signature, ~~it should initiate a second detection attempt within 1 second~~ it should complete a second detection attempt within 2 sec after the beginning of the first detection attempt” as resolution of maintenance item 1163.

M: Y. Darshan S: T. Parker

Move that: The IEEE 802.3at Task Force accept and send the communication letter IEEE_802_3_to_TIA_0307.doc to TR42.7 as an informal communication. Also, requests 802.3 send it as a formal liaison to TR42.

M: W. Diab S: F. Schindler

Move that: The IEEE 802.3at Task Force accept the letter IEEE_802_3_to_ISO_0307.doc and request that 802.3 send it as a liaison to ISO/IEC SC25/WG3.

M: W. Diab S: Y. Darshan

May 2007

Move that the IEEE 802.3at Task Force adopt presentation schindler_5_28_07.pdf slides 4 to be incorporated in the next P802.3at draft.

M: F. Schindler S: Y. Darshan

The IEEE P802.3at TF authorizes the editor to generate and release D0.8 for a TF review and comment period at least 30 days prior to the July 2007 plenary.

M: M. Landry S: F. Schindler

Move that there be a maximum current limit for Type 2 PDs with the exception of current drawn by an input capacitor of maximum $0.12\mu\text{F}$.

M: S:

Move to adopt the timeline as shown in agenda_0507.pdf as the task force schedule.

M: S:

Move to strike Objective 11.

M: M. Landry S: W. Diab