

## **Minutes of 802.3an Task Force Meeting, January 10-12, 2006 in Chandler, AZ.**

**Tuesday, January 10, 2006**

The Chairman, Bradley Booth, opened the meeting at 8:45AM. George Eisler was appointed recording secretary.

The Chair next presented the proposed Agenda for the meeting.

Motion to approve the Agenda:

M: M McConnell S: D Dove Approved unanimously by voice

After a round of introductions, the Chair presented the plan of work for the meeting.

The Chair reviewed the Task Force ground rules. At 8:59AM, the Chair read the IEEE-SA Bylaws on Patents in Standards as follows:

### 6. Patents

IEEE standards may include the known use of essential patents and patent applications provided the IEEE receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard [essential patents]. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be a letter that is in the form of either:

a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional portions of the proposed IEEE standard against any person or entity complying with the standard; or

b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.

This assurance shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable during that period.

The Chair next reviewed topics inappropriate for discussion during IEEE meetings, as follows:

Don't discuss licensing terms or conditions

Don't discuss product pricing, territorial restrictions or market share

Don't discuss ongoing litigation or threatened litigation

Don't be silent if inappropriate topics are discussed .... Do formally object

Liaison from TIA TR-42.7 was presented by V Rybinski reviewing the results of their recent meeting.

The Chief Editor, Sanjay Kasturia, outlined the groups of comments to be resolved during the meeting. Comment resolution then commenced.

“Modifications to Transmit Link Burst Timer” from Jeffrey T. Thompson was presented in conjunction with a comment.

Comment resolution continued after morning break.

Motion to reject Comment #39:

M: T Cobb S: R Mei

Y 32 N 8 Passes

Comment resolution resumed at 2PM after lunch break. Presentation “051\_221\_comments\_d2.ppt” was made in conjunction with comment #121. After considerable parliamentary action, as recorded in the comment resolution database, the comment was finally resolved.

Comment resolution resumed after a break. “10GBT\_pwrmgmt\_01.pdf” was presented in conjunction with a comment, followed by extensive discussion.

The meeting recessed at 6PM.

### **Wednesday, January 11, 2006**

The meeting resumed at 8:30AM, with presentation of “877500024-LowPowerSTPMode.ppt” in conjunction with a comment.

“802.3an-Short Reach Test Mode-1-10-06.pdf” was next presented.

Straw Poll: How many modes are needed? (Presently there is one in Draft)

About 50% in favor of 3 modes and 50% against 3 modes.

Practically unanimous for 2 modes.

Comment resolution resumed after a break and continued until lunch recess.

Comment resolution resumed after lunch. Combination of a motion and a presentation (shown below) was offered by D Dove. After debate, and a break, motion was made as follows:

Motion: To address the concerns of the committee expressed in comments #149 (Thompson) #33(Dove), #64 (Barrass), specifically, and low-power concerns generally, the following changes will be made to the draft.

- **#149 Accept in Principle**
  - A consensus of the task force believes that your objectives can be achieved and that it will be possible to distinguish a short-reach solution in the market by providing a short-reach test channel to ensure compliance for PHYs configured in a low-power mode. See #33
- **#64 Accept in Principle**
  - See #33
- **#33 Accept in Principle**
  - Accept Resolution offered in attached slides as the basis for resolution with the following enhancements, and the understanding that the task force will continue to enhance the specific channel requirements on the next review of the draft.

Change “1.131.0” to indicate Short Reach Mode

Page 48 Add “45.2.1.62.3 Short Reach Mode (1.131.0)  
Short Reach Mode of the 10GBASE-T PHY provides a means for operation on a cable plant that has parametric performance equivalent to 30m of Class F and Class E<sub>A</sub> cabling as defined in xxx. If bit 1.131.0 is a one, the PHY is in Short Reach Mode. If bit 1.131.0 is a zero, this is the default state and the PHY is operating in normal mode.”

Communicate the contents of 1.131.0 through an extended next page bit (left to the editor to assign)  
Modifications to proposal as shown in attached slides.

M: D Dove S: C DiMinico Y 44 N 11 A 3

Beginning of text to be inserted

#### **55.5.4.5 Short Reach Mode**

In Short Reach Mode (indicating operation over a short reach channel) while receiving data from a transmitter compliant with specifications in 55.5.3, through both short reach test channels, a receiver shall operate with an Ethernet frame error rate less than  $6.4 \times 10^{-9}$  for 800 octet frames (e.g., operate with a BER less than  $10^{-12}$ )

The PHY short reach register setting 1.131.0 indicates whether the PHY is operating in the short reach mode.

#### **55.5.4.5,1 Short reach test channels**

One short reach test channel specification is consistent with the transmission characteristics of a cabling link of 30 meters consisting of two connectors, 10 meters of cable cord, and a horizontal cable distance of 20 meters, that meets the ISO/IEC 11801 Category 7 component specifications.

One short reach test channel specification is consistent with the transmission characteristics of a cabling link of 30 meters consisting of two connectors, 10 meters of cable cord, and a horizontal cable distance of 20 meters that meets the Category 6A component specifications.

End of text.

Comment resolution continued until 6:15PM, when the meeting was recessed.

### **Thursday, January 12, 2006**

The meeting reconvened at 8:30AM and continued with comment resolution.

“Using ScTP Patch Cords for Mitigating Alien Crosstalk.pdf” was presented in conjunction with a comment. Comment resolution continued, with a fire alarm break in between, until lunch.

The meeting reconvened at 1:30PM with further comment resolution.

- Motion to approve the minutes of the November 2005 meeting (minutes\_1\_1105.pdf).
- M: O. Savi
- S: G. Eisler
- Procedural (>50%)
- TF:                    Y: by voice    N:        A:
- PASS
  
- Move that the Task Force grant editorial license to the P802.3an editors to respond to unresolved editorial comments on D3.0 as they see fit.
  
- M: H. Koeman
- S: G. Zimmerman
- Technical ( $\geq 75\%$ )
- TF:                    Y: by voice    N:        A:
- PASS
  
- Move that Draft 3.0 plus the resolution of comments and motions on Draft 3.0 be used as the basis for the generation of Draft 3.1.
  
- M: G. Zimmerman
- S: A. Flatman
- Technical ( $\geq 75\%$ )
- TF:                    Y: by voice    N:        A:

- PASS
- Move to adjourn.
- M: M. McConnell
- S: S. Kasturia
- Procedural (>50%)
- TF: Y: by voice N: A:
- PASS

The meeting was adjourned at 3:30PM.

### Ballot Review Committee

Last name	First Name
Adriaenssens	Luc
Abaye	Ali
Babanezhad	Joseph N.
Barnette	Jim
Barrass	Hugh
Bennett	Mike
Booth	Brad
Brown	Kevin
Chalupsky	David
Chopra	Rahul
Cobb	Terry
Cohen	Larry
Dabiri	Dariush
Dalmia	Kamal
DiMinico	Chris
Dinh	Thuyen
Dove	Dan
Eddy	Kevin
Eisler	George
Esmailian	Tooraj
Fallahi	Siavash
Flatman	Alan
Frazier	Howard
Fu	Wei
Gandhi	Prashant
Golden	Glenn

Last name	First Name
Grow	Bob
Gupta	Sandeep
Hammond	Bernie
Hassoun	Marwan
Hatab	Ziad
Jones	William
Jover	Juan
Kasturia	Sanjay
Kish	Paul
Koeman	Henriecus
Koenen	David
Kramer	Glen
Langner	Paul
Law	David
Lertniphenphun	Worayot
Lynskey	Eric
McCarthy	Frank
McClellan	Brett
McConnell	Mike
Mei	Richard
Michaud	Sean
Mick	Colin
Moorwood	Andy
Muller	Shimon
Murakami	Ken
Powell	Scott

Last name	First Name
Rao	Sailesh
Rybinski	Valerie
Savi	Olindo
Shariff	Masood
Taich	Dimitry
Tellado	Jose
Thaler	Pat
Thompson	Geoff
Tolley	Bruce
Traverso	Matt
Ungerboeck	Gottfried
Vaden	Sterling
Wang	Chen Xi
Woodruff	Bill
Zimmerman	George