

Accredited Standards Committee^{*}
INCITS, Information Technology

Doc. Number: 06-495v0
Date: 06/29/06
Project: FC-BaseT
Reply to: Claudio DeSanti

TO: MEMBERSHIP of T11.2 and T11.3
FROM: Claudio DeSanti, Chair
SUBJECT: Draft minutes from FC-BaseT WG call

AGENDA

- | | | |
|-----|--|-------------------|
| 1. | Opening remarks and introductions | DeSanti (Cisco) |
| 2. | Meeting Policies | DeSanti (Cisco) |
| 3. | Administrivia | |
| 4. | Review of old FC-BaseT action items | DeSanti (Cisco) |
| 5. | Scheduled FC-BaseT business | |
| 5.1 | Reduction of Transmit Power for Short Reach FC-BaseT Links
06-489v0 | Powell (Broadcom) |
| 6. | Unscheduled FC-BaseT business | |
| 7. | Review of FC-BaseT action items | DeSanti (Cisco) |
| 8. | Next meeting schedule | DeSanti (Cisco) |
| 9. | Adjournment | |

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RESULTS OF MEETING

1. Opening remarks and introductions

Chairperson Claudio DeSanti led the conference call. He started the meeting at 10:35 AM. He led a round of introductions.

3. Meeting Policies

3.1 Attendance and Membership

Claudio DeSanti stated that all persons present are considered members of this meeting and may vote on questions, limited to one vote per company present. Attendance at this meeting does not count toward attendance at the plenaries of T11 and its task groups (i.e., being here will not get you out or keep you out of membership jeopardy).

3.2 Patents

Claudio DeSanti indicated that among the rules and policies under which this working group operates are the INCITS patent policies. He requested persons wishing to make statements or ask questions relevant to this policy not to do so at this work group meeting, but instead to do so at the T11.3 or T11 plenary meeting. The INCITS patent policies are specified in subclause 8.4 of RD-1, "Policies and Guidelines", available at http://www.incits.org/sd9_rev1c.htm#p8-4

3.3 Antitrust

Claudio DeSanti indicated that among the rules and policies under which this working group operates are the INCITS Antitrust Guidelines. Any member of the meeting is responsible for objecting if he believes discussion in the meeting violates those guidelines. If such discussion is not immediately terminated, it is the chairperson's responsibility to terminate the meeting. The INCITS Antitrust Guidelines are available at <http://www.incits.org/inatrust.htm>

3. Administrivia

No formal agenda was posted. A presentation was reviewed.

4. Review of old FC-BaseT action items

AI-19: Claudio DeSanti to address copyright approval from IEEE-SA. (carryover)

AI-20: Scott Powell to prepare PBO data related to shorter (less than 50m) links.
(closed by 06-489v0)

5. Scheduled FC-BaseT business

5.1 Reduction of Transmit Power for Short Reach FC-BaseT Links, 06-489v0, Scott Powell

Scott presented a proposal to reduce transmit power for short reach FC-BaseT links. The goal of power backoff for DSL and other technologies is to improve the far-end and near-end margins, but here the main goal is simplifying the PHY, trading excess SNR margin on short links with reduced transmit power. The lower transmit power allows to reduce the worst case voltage swing at the MDI from 4 V_{pp} to 3.2 V_{pp}. It also helps to reduce the worst case alien crosstalk, between short links and long links, allowing increased cable reach.

A Power Backoff (PBO) schedule for the three FC speeds was presented. Being the PBO schedule based on the cable length, a question came out on how to estimate such a length. Scott said that current 1000Base-T PHYs already have the capability of estimate the cable length, but how this is performed is not standardized.

FC-BaseT needs to perform cable length estimation before auto-negotiation in order to decide which FC speeds to advertise. If two PHYs use different methods, they could interfere with the auto-negotiation process and come out with different length estimates. Carl Murray proposed to perform an accurate cable length estimation using a pulse scheme similar to the one used by modems. This could also interfere with the auto-negotiation process.

Claudio proposed to estimate the length of the cable on pairs C and D, and only when that is done perform auto-negotiation on pairs A and B, ignoring auto-negotiation signals on pairs A and B until cable length estimation is completed. This allows an accurate estimation of the cable length using the approach proposed by Carl, while keeping full compatibility with auto-negotiation and 1000Base-T devices.

The group accepted to include the PBO schedule proposed by Scott in the next FC-BaseT draft, and to continue the investigation on the approach proposed by Claudio for the cable length estimation.
Action: Carl Murray to prepare a proposal on how to perform cable length estimation.

6. Unscheduled FC-BaseT business

None.

7. Review of FC-BaseT action items

AI-19: Claudio DeSanti to address copyright approval from IEEE-SA.

AI-21: Carl Murray to prepare a proposal on how to perform cable length estimation.

8. Next meeting schedule

Next meeting is on August 7th, 9am to 12pm, during the T11 Plenary in Calgary, AB.

9. Motion to adjourn

Adjourned at 11:33 AM.

10. Attendance

The following 7 people attended this meeting:

Company	Name
AGERE	Carl Murray
BROADCOM	Scott Powell
BROADCOM	Ali Ghiasi
BROCADE COMMUNICATIONS	Robert Snively
CISCO SYSTEMS	Claudio DeSanti
EMULEX	Hossein Hashemi
MCDATA	Scott Kipp