

Accredited Standards Committee
INCITS, Information Technology

Doc. Number: 06-800v0
Date: 11/10/06
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 Ad Hoc Interim meeting

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 | Asymmetric Coding
06-796v0 | Murray (Agere) |
| 5.2 | PHY Control
06-797v0 | Murray (Agere) |
| 5.3 | FC-BaseT alternative startup
06-786v0 | Hashemi (Emulex) |
| 5.4 | FC-BaseT and SFPs
06-799v0 | DeSanti (Cisco) |
| 5.5 | Agere Action Items
06-798v0 | Murray (Agere) |
| 5.6 | FC-BaseT and I2C/MDIO
06-794v0 | DeSanti (Cisco) |
| 5.7 | Updated FC-BaseT Startup Procedure
06-793v0 | DeSanti (Cisco) |
| 5.8 | FC-BaseT Letter ballot comments
06-680v1 | DeSanti (Cisco) |
| 6. | Unscheduled FC-BaseT business | |
| 7. | Review of FC-BaseT action items | DeSanti (Cisco) |
| 8. | Next meeting schedule | DeSanti (Cisco) |
| 9. | Adjournment | |

* Operating under the procedures of the American National Standards Institute. INCITS SECRETARIAT, Information Technology Industry Council (ITI), 1250 Eye street NW, Suite 200, Washington DC, 20005-3922, Email: incits@itic.org Telephone 202-737-8888, FAX 202-638-4922

RESULTS OF MEETING

1. Opening remarks and introductions

Chairperson Claudio DeSanti led the meeting. He started the meeting at 9:20am, thanked Hitachi GST for hosting the meeting and lead a round of introductions.

2. Meeting Policies

2.1 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).

2.2 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 T11.2, 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

2.3 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 charperson's responsibility to terminate the meeting. The INCITS Antitrust Guidelines are available at <http://www.incits.org/inatrust.htm>

3. Administrivia

The agenda was updated and approved. Approval of minutes was deferred to the meeting during the T11 plenary.

4. Review of old FC-BaseT action items

None.

5. Scheduled FC-BaseT business

5.1 Asymmetric Coding, 06-796v0, Carl Murray

Carl presented a different way to use the coding options specified in FC-BaseT. The current draft specifies two coding options, Schläfli lattice coding and Trellis coding, and requires all implementations to support Schläfli lattice as coding option for interoperability. The coding option to use on a link is negotiated during Auto-Negotiation. Carl observed that while the two options are very similar and easy to implement on the transmitter side, they can result in very different implementations on the receiver side. Rather than requiring all receiver implementations to support the Schläfli lattice coding, it may be better to require all implementations to support both codings in transmission, and have each receiver telling during Auto-Negotiation to the link partner which coding to use on the link. This allows PHY vendors to build receivers optimized for a specific coding, and therefore allows more implementation freedom. The group agreed that this approach makes sense and to update the draft accordingly. This closed one letter ballot comment.

5.2 PHY Control, 06-797v0, Carl Murray

Carl presented a proposal to complete and make more robust the PHY Control state machine. The group agreed that several of the proposed changes make sense, but also that some additional work is needed.

5.3 FC-BaseT alternative startup, 06-786v0, Hossein Hashemi

Although in a previous conference call the group agreed to have only transparent operations in a FC-BaseT PHY, Hossein expressed concerns that this might not work in all cases, especially when an FC-BaseT PHY is embedded in an SFP. He presented a proposal to reintroduce a simplified form of non-transparent operation. Given the previous discussion on the PHY Control state machine, the group agreed that it should be possible to support this option quite easily, however additional work is needed.

5.4 FC-BaseT and SFPs, 06-799v0, Claudio DeSanti

Claudio presented some considerations about the usage of FC-BaseT on SFPs. The result is that, although possible, using FC-BaseT in SFPs does not achieve the economies that are desired for FC-BaseT products.

5.5 Agere Action Items, 06-798v0, Carl Murray

Carl presented the result of several actions he had to complete. This closed some comments, as recorded in the comments database document, 06-680v2. Port management requires some additional work.

5.6 FC-BaseT and I2C/MDIO, 06-794v0, Claudio DeSanti

Claudio presented the result of an investigation aimed at verifying if FC-BaseT needs some code-points from IEEE 802.3 in order to use the MDIO management interface, or some from the SFF committee in order to use the I2C interface. The investigation showed that we need none of them.

5.7 Updated FC-BaseT Startup Procedure, 06-793v0, Claudio DeSanti

Claudio presented an updated FC-BaseT startup procedure based on the agreements of the conference call. Additional work is needed to accommodate today's discussion on the startup.

5.8 FC-BaseT Letter ballot comments, 06-680v1, Claudio DeSanti

Several late comments were added and resolved; 34 comments are still open. The related actions are recorded in the updated comments database document, 06-680v2.

6. Unscheduled FC-BaseT business

None.

7. Review of FC-BaseT action items

None.

8. Next meeting schedule

The next meeting will be at the next T11 plenary, in the first week of December in Indian Wells, CA.

9. Adjournement

The group adjourned at 5:10pm.

10. Attendance

The following 5 people attended this meeting:

Company	Name
AGERE	Carl Murray
BROADCOM	Scott Powell
CISCO SYSTEMS	Claudio DeSanti
EMULEX	Hossein Hashemi
HITACHI GST	Dan Colegrove