

## T11.1 Plenary Meeting Minutes

**February 16th, 2000  
Huntington Beach, CA**

### 1.0 Opening remarks and introductions

The T11.1 Chairman, Roger Ronald of Power Micro Research, opened this meeting at 5 PM and thanked Skip Jones and QLogic for hosting this meeting.

These minutes are separate from both the HIPPI Working Group minutes and the HIPPI Optical Working Group minutes. Roger volunteered to record and produce these minutes.

Roger lead a round of introductions. The list of attendees is at the end of these minutes.

### 2.0 Review / modify the draft agenda

Draft agendas were distributed via the web site ([www.hippi.org](http://www.hippi.org)) before the meeting.

There were no changes.

These minutes reflect the approved agenda.

### 3.0 Attendance and membership

The membership and voting rules were reviewed. See the web page at <http://www.ncits.org/>, look under Standing Documents, then SD2, for our operating procedures including a detailed explanation of the membership rules.

#### 3.1 Roll call of members in jeopardy

T11.1 started this meeting with 12 member organizations.

No members were in jeopardy of losing membership at this meeting due to lack of attendance.

Tensolite will be in jeopardy at the next meeting.

#### 3.2 Membership changes

DPT lost membership since they have been acquired by Adaptec, already a member. Roger

Cummings becomes the principle, Charles Monia is the alternate.

Tera becomes a member with Sean Rieb as principle and Mark Howard as the alternate.

David Gaskill served as a temporary alternate for Essential/ODS at this meeting.

With one member removed (DPT) and one added (Tera), T11.1 membership remains at 12 companies.

### 4.0 Document distribution

Roger described the HIPPI web page at [www.hippi.org](http://www.hippi.org). Meeting documents will be placed there and people are encouraged to pick up the documents before the meeting as extra documents are generally not available at the meeting.

### 5.0 Review minutes of previous meeting

The minutes of the December 8th, 1999 T11.1 Plenary meeting in Reno, NV, were reviewed.

Jeff Young moved and Sean Rieb seconded, to approve the December, 1999 T11.1 Plenary minutes as written. The motion passed unanimously.

### 6.0 Review action items

The action items from the December 8th meeting were reviewed.

1. Roger Ronald to produce the minutes for this (Dec. 99) meeting. **(done)**
2. Roger Ronald to present the ST Reliable Transfer Profile Project Proposal to T11 for further processing at the December meeting. **(done)**
3. Roger Ronald to present HIPPI-6400-OPT, revision 1.5, to T11 for further processing. **(done)**

4. Roger Ronald to present Scheduled Transfer (ST), revision 3.6, to T11 for further processing. (**done**)
5. Anyone with a proposed change to HIPPI-6400-PH to present a written proposal to T11.1, or its working groups, by the February T11.1 Plenary. (**carryover**)
6. Roger Ronald to present the voting recommendation to T11 for DIS 11518-10 at the December meeting. (**done**)
7. Roger Ronald to post a message to the HIPPI reflector regarding options to remove the IETF references from HIPPI-LE. (**done**)
8. Ed Cady of FCI-Berg to provide the new PCI compatible connector drawings to Don Tolmie. (**done**)

## 7.0 Liaison Reports

### 7.1 T11 LIAISON REPORT- October, 1999

Kumar Malavalli was not present with the T11 liaison report. The report was provided subsequent to the meeting and is included here:

The membership of T11, in Reno, NV, stood at 71 at the end of the meeting: Gain of 1 member and loss of 3 members

#### 7.1.1 T11 Task Group Actions

- Roger Ronald, on behalf of T11.1, requested a letter ballot on ST.
- Roger Ronald, on behalf of T11.1, requested a letter ballot on HIPPI-6400-OPT.
- Roger Ronald, on behalf of T11.1, made a motion to forward the project proposal for ST reliable Transport profile to NCITS for further processing. The motion carried.
- Shelto Van Doorn, on behalf of T11.2, requested a letter ballot on SM-LL-V.
- There was a motion to change the name of the project proposal for FC-PI-2 to 10 GFC. The motion carried. The project proposal will not include anything not related to 10GFC
- A Motion to accept the comment resolution and forward the revised Project proposal 10GFC to NCITS for approval was made. The motion passed.

### 7.1.2 T11 actions post December, 1999 T11 meeting:

- Letter Ballot: ST to T11 for further processing. The ballot passed with Y57-N00-A06-DNV08 (0 Yes included comments)
- Letter Ballot: SM-LL-V to T11 for further processing. The ballot passed with Y57-N02-A04-DNV08 (5 Yes included comments)
- Letter Ballot: HIPPI-6400-OPT to T11 for further processing. The ballot passed with Y57-N00-A06-DNV08 (3 Yes included comments)
- Revised project proposal with change of name (10GFC) was submitted to NCITS for approval

### 7.2 HNF

There was no report on HNF activities.

### 7.3 ISO report

There was no ISO news to report.

### 7.4 Other liaison reports

None.

## 8.0 Call for patents

Roger issued a call for disclosure of the existence of patents required to implement the results of any and all HIPPI standards. It is necessary for the patent holders to agree to license those patents in conformance with the ANSI patent policy if the project on which they apply is to proceed. T11 and its Task Groups are not involved in this process at all other than to issue the call and forward paperwork.

The contact at ANSI is the General Counsel, Ms. Amy Marasco - (212) 642-4954 or [amarasco@ansi.org](mailto:amarasco@ansi.org). A patent policy description is at [www.ansi.org/proctbl.html](http://www.ansi.org/proctbl.html), section 1.2.11.

Roger noted that a new patent claim was made at this meeting. SGI indicated that they would be requesting a patent on some changes in the GSN connector configuration.

## 9.0 Review and act on projects in ANSI development phase

### 9.1 HIPPI-LE

HIPPI-LE was updated to Rev 3.6 by removing the ARP text, Introduction, and Alphabetical Index. We have been waiting for the "ARP and IP Broadcast over HIPPI-800" to be assigned an RFC number so that we can reference it in HIPPI-LE. Once complete, HIPPI-LE should be ready to forward for public review and final processing. Rev 3.6 was reviewed at the November 1998 working meeting, and the changes accepted.

Due to the lengthy delays in getting the RFC number, there was a discussion and general consensus during the December, 1999 meeting that HIPPI-LE might need to move forward without a reference to the IETF RFCs. The chair accepted an action item to post a message on the HIPPI reflector to stimulate discussion on this topic.

A message was sent on the reflector and results indicated that the RFC numbers should be removed. Don Tolmie did this and the working group accepted the changes.

The group then decided that the HIPPI-LE, revision 3.8 was ready to be forwarded to T11 for further processing.

Bob Willard moved and Ed Cady seconded a motion to forward HIPPI-LE, revision 3.8 to T11 for further processing. A roll call vote was taken:

Adaptec	y
Compaq Computer Corp.	y
Essential/ODS	y
FCI-Berg	y
Genroco	np
IBM	y
Los Alamos National Lab	np
PMR	y
Raytheon E-Systems	y
SGI	y
Tensolite	np
Tera Computer	y

The votes was 9 for, 0 opposed, 3 Not Present. This vote meets the requirements of the 2/3rds rule. The chair took an action item to present the vote results to T11 at their February 17 meeting.

### 9.2 ST-API

The working group had previously decided that progress on this standard was too slow and that an alternative approach was needed. Since Jim Pinkerton had a SGI specific ST-API document, the group requested that this information be edited and passed on. Jim agreed to this plan and promised a quick turnaround. That document was loaded onto the web site ([www.hippi.org](http://www.hippi.org)) on 12/15/99.

A few comments and revisions to the ST-API document were made during this meeting. Jim agreed to post an updated version including these changes within the next week.

### 9.3 HIPPI-6400-PH - Amendment

HIPPI-6400-PH Rev 2.3 was approved as ANSI standard "ANSI NCITS 323-1998, Information Technology - High-Performance Parallel Interface - 6400 Mbit/s Physical Layer (HIPPI-6400-PH)" on November 20, 1998. It has now also been published and can be purchased from ANSI.

At the September, 1998 working meeting Greg Chesson reported that the pin assignments in HIPPI-6400-PH did not match the SuMAC implementation. At that meeting we agreed to change the document, but to continue processing the present document, albeit incorrect, as an American National Standard before making the changes. The changes to match the SuMAC were reviewed at the November ad hoc meeting and accepted.

A Project Proposal for an amendment to NCITS 323-1998 was drafted and approved at the February 1999 meeting, both by this group and by T11.

The pinout change is the reason for the amendment, but other changes were needed to support passing the RFI/EMI testing required for commercial products and to make sure that the cabling system is compatible with PCI form factors.

These changes seemed almost complete, but new information presented during the working group session made it clear that additional effort is still required. A new connector arrangement has been proposed by SGI to allow passing FCC tests in shippable configurations and the group agreed to add this revised configuration. A different configuration is also needed for PCI and it will be some period of time before this new connector is specified and tested.

#### 9.4 SCSI on ST

Although Don Woelz was absent, Steph Bailey (formerly of Genroco) was present to discuss a new version of the SCSI on ST document.

This document is in very good shape. Although Steph indicated a desire to improve documentation by adding some additional figures, there was consensus that the document might be ready for forwarding by June or August.

#### 9.5 ST Reliable Transport Profile

The project proposal for ST-RTP was approved by T11.1 in October and by T11 on December 9. A project number has not yet been received from NCITS.

The third version of this document was reviewed.

### 10.0 Review projects in approval phase

#### 10.1 HIPPI-6400-SC Public Review status

HIPPI-6400-SC Rev 2.5 has been approved as an ANSI standard

The ANSI editor has contacted Roger Ronald (the document technical editor) and the document editing is complete. However, due to a change in NCITS/ANSI policy, the editing is supposed to occur prior to balloting. Since this did not happen NCITS is insisting that the final version should incur another expedited round of balloting.

The management of T11 determined that a T11.1 ballot was not required and moved directly to a T11 letter ballot which occurred during the period between the August and October meetings. The ballot closed on 9/19/99 and passed with a vote of 71 yes, 0 no, and 4 not voting.

NCITS reports that the final paperwork for re-approval is being sent to ANSI on Monday, November 29, 1999.

#### 10.2 Scheduled Transfer Protocol

Revision 3.6 was forwarded to T11 for further processing at the December T11.1 Plenary. A letter ballot completed on 1/21/00. The ballot passed (57 - Y, 0 - N, 6 Ab, 8 NV) with no comments.

The chair took an action item to notify T11 that the document should be sent to NCITS for further processing.

#### 10.3 HIPPI-6400-OPT (T11.2 - Physical Variant) activity

Revision 1.5 was forwarded to T11 for further processing at the December T11.1 Plenary. A letter ballot completed on 1/21/00. The ballot passed (57 - Y, 0 - N, 6 Ab, 8 NV) with comments by three companies.

During the working group session, revision 1.6 was reviewed. Revision 1.6 included the response actions to most of the received comments. A few additional changes were made during the meeting.

Bob Willard moved and Jeff Young seconded a motion to accept the comment resolutions included in revision 1.6 along the changes made during the meeting (creating a new revision 1.7) and to forward HIPPI-6400-OPT, revision 1.7 to T11 for further processing. A roll call vote was taken:

Adaptec	y
Compaq Computer Corp.	y
Essential/ODS	y
FCI-Berg	y
Genroco	np
IBM	y
Los Alamos National Lab	np
PMR	y
Raytheon E-Systems	y
SGI	y
Tensolite	np
Tera Computer	y

The votes was 9 for, 0 opposed, 3 Not Present. This vote meets the requirements of the 2/3rds rule. The chair took an action item to present the vote results to T11 at their February 17 meeting.

Both CERN and PMR are moving forward to do optical testing per the draft standard.

### 11.0 Review other HIPPI-related items

#### 11.1 Bridging to HIPPI-800

At the December, 1999 meeting, Brad Allen lead a review of the text that had been provided by Nicolas Droux.

There was no new version of the document at this meeting.

It was reported that implementation is proceeding and that this real-world experience should help in producing a viable high-quality standard.

### 11.2 ARP over IP Broadcast over HIPPI-800

We are still waiting on an RFC number. We hope to get one in the next few months.

The chair was directed to give Jean-Michael Pettit an action item to provide details and status about his dealings with the IETF. There was a response, but it is still not clear when the process will complete.

### 11.3 IP and ARP over HIPPI-6400

Previously, Jean-Michel Pittet had convinced the group to wait for implementation of the HARP server and bridging devices before making any further changes in this protocol.

However, during this meeting, Jeff Young proposed a packet format change and the group generally concurred that this would be a good idea. Jeff also agreed to take over editing duties on the RFC.

### 11.4 HIPPI-MIBs

T11.1 decided that the only MIB that currently held interest for more than a single organization was a HIPPI-6400 switch MIB. All other MIB work will be removed from future agendas unless a champion comes forward. There is an open action item in the working group to attempt coordination in switch MIBs among the GSN vendors. PMR and Essential have started to cooperate on this topic.

### 11.5 IEEE Tutorial for HIPPI-6400 ULA usage

This item was completed by Roger Ronald and is now closed.

## 12.0 New business and new technical items

None.

## 13.0 Administrative matters

### 13.1 Interim meeting authorizations

The T11.1 Chairman, Roger Ronald authorized the following T11.1 interim working meetings for all topics and will chair these meetings.

- April 4-5 San Diego, CA

Note that the SCSI on ST work is authorized by T10 instead of T11, thus the SCSI on ST topic will be covered at a specific time (9 AM on April 5th to allow T10 members the chance to easily attend at a fixed scheduled moment in time.

## 14.0 Future meeting schedule

### 14.1 April 4-5, 2000, San Diego, CA

The next T11.1 plenary meeting will be held April 5th from 5-8 PM (during the Plenary week in San Diego, CA). The hotel information is posted at the [www.hippi.org](http://www.hippi.org) web site.

### 14.2 Future meeting dates and locations

The Optical working group will continue to meet on Tuesday morning during the T11 Plenary week, prior to the HIPPI working meetings.

#### 2000

Apr 3-7	San Diego, CA	Brocade
Jun 5-9	Boise, ID	HP
Aug 7-11	Seattle, WA	Vixel
Oct 2-6	Manchester, NH	Hitachi
Dec 4-8	Austin, TX	Crossroads

#### 2001

Feb 5-9	Huntington Beach, CA	Qlogic
Apr 5-9	San Diego, CA	Brocade
Jun 4-8	Chicago, IL	Ancor
Aug 6-10	Honolulu, HI	Solution Tech
Oct 8-12	San Diego, CA	JNI
Dec 3-7	Austin, TX	Crossroads

## 15.0 Review action items

The following action items were carryovers or were added at this meeting.

1. Roger Ronald to produce the minutes for this (February, 2000) meeting.
2. Anyone with a proposed change to HIPPI-6400-PH to present a written proposal to T11.1, or its working groups, by the April T11.1 Plenary.
3. Roger Ronald to notify T11 to forward Scheduled Transfer, revision 3.6, to NCITS for further processing.

4. Roger Ronald to forward HIPPI-6400-OPT, revision 1.7 (along with the letter ballot comment responses), to T11 for further processing.
5. Roger Ronald to forward HIPPI-LE, revision 3.8, to T11 for further processing.
6. Roger Ronald to issue a warning notice to Tensolite regarding their attendance.

## 16.0 Adjournment

Jeff Young moved and Sean Rieb seconded to adjourn at 5:23 PM on February 16th. There were no objections.

## Attendance

Name	Status	Company	Phone	E_mail
Roger Cummings	P	Adaptec	407-830-5322 x348	cummings_roger@dpt.com
Bob Willard	P	Compaq Computer Corp.	508-467-5875	bob.willard@compaq.com
David Gaskill	O	Essential / ODS	505-344-0080 x340	dgaskill@esscom.com
Ed Cady	P	FCI-Berg	503-359-4556	edcady@aol.com
Tan Truong	P	IBM	512-838-7813	truongtm@us.ibm.com
Roger Ronald	P	Power Micro Research	972-437-9461	rronald@pmr.com
Craig Davidson	A	Raytheon Systems Co.	972-205-4166	davidson@esy.com
Jeff Young	A	SGI	651-683-5536	jsy@cray.com
Sean M Rieb	P	Tera Computer Co.	206-701-2164	srieb@tera.com