

Minutes of T11.1 Plenary meeting #5  
April 22, 1998  
Palm Springs, CA

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### **1. Opening remarks and introductions**

The T11.1 Chairman, Don Tolmie of Los Alamos National Laboratory, opened this meeting at 6:00 PM and thanked Jeff Stai and Brocade Communications Systems for hosting this meeting. Don lead a round of introductions. The list of attendees is at the end of these minutes.

These minutes are separate from the HIPPI working group, and HIPPI-6400 Optical working meeting, minutes. Don volunteered to produce the minutes.

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### **2. Review / modify the draft agenda**

Draft agendas were distributed via e-mail before the meeting and hard copies were distributed at the meeting. No additions or changes were made at the meeting.

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### **3. Attendance and membership**

The membership and voting rules were reviewed. (See the web page at <http://www.x3.org/>, look under Standing Documents, then SD2, for our operating procedures including a detailed explanation of the membership rules).

Don Woelz or Genroco presented a letter authorizing himself as the Genroco voting member for this meeting only.

The following member organizations were in jeopardy for failure to attend meetings:

Genroco (present, so do not loose membership)

No membership changes were made at this meeting.

Optivision will lose their membership in June if they are not present at the June T11.1 Plenary meeting.

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### **4. Document distribution**

Don described the HIPPI web page at <http://www.cic-5.lanl.gov/~det/>, stating that the appropriate documents would be placed there, and encouraged people to pick up the documents before the meeting as extra documents would not be available at the meeting.

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### **5. Review minutes of previous meeting**

The minutes of the February 11, 1998, T11.1 Plenary in San Diego were reviewed. Jeff Young moved, and Roger Ronald seconded, to approve the February 11, 1998, T11.1 minutes as written. Motion passed unanimously.

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### **6. Review old action items**

1. Don Tolmie to present HIPPI-6400-PH Rev 2.2 to T11 with a request that it be forwarded for OMC compliance review and first public review. (Done, PR closes June 9)
2. Don Tolmie to present HIPPI-6400-SC Rev 1.9 to T11 with a request that it be forwarded for OMC compliance review and first public review. (Done, PR closes June 9)
3. Roger Ronald to provide a clean copy of HIPPI-6400-SC Rev 1.9 for forwarding. (Done)
4. Don Tolmie to request that T11 take the necessary actions to start the ISO Fast Track processing of ANSI X3.222:1997, HIPPI-SC revised. (Done)

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### **7. Liaison reports**

#### **7.1 T11**

Roger Cummings, T11 Chairman, gave a detailed report, parts of which are included here.

T11 met on February 12, 1998 with 103 people in attendance. The T11 Membership is now 82

organizations. The total attendance for the week was 131 people.

Drafts for the Revised HIPPI-FP (NCITS 210:199x) and FC-SW (NCITS 324:199x) projects completed a first Public Review with no comments submitted. Because the closing date for the 5/98 OMC meeting was 4/17, both drafts have been submitted to that meeting for Management Review. If any changes are introduced during the T11 week, there will be a two-week rule exposure at the OMC meeting. A recommendation is needed from T11.1 regarding the final approval of Revised HIPPI-FP.

NCITS Letter Ballots on the requests to form Task Groups T11.3 and T11.4 closed on 3/14 and passed.

At its 2/12/98 Plenary meeting T11 forwarded the following dpANS:

- a) HIPPI-6400-PH for Compliance Review and a first Public Review by a roll call vote of F63-O00-DNV19, meeting the 2/3rds rule. This dpANS passed the Compliance review at the 3/98 OMC meeting, has been assigned NCITS 323:199x, and is in first Public Review closing on 6/9/98.
- b) HIPPI-6400-SC for Compliance Review and a first Public Review by a roll call vote of F63-O00-DNV19, meeting the 2/3rds rule. This dpANS passed the Compliance review at the 3/98 OMC meeting, has been assigned NCITS 324:199x, and is in first Public Review closing on 6/9/98.

The first electronic T11 mailing has been completed and distributed. Good feedback has been received and suggestions for further improvement are most welcome. The mailing is stored in ftp.t11.org/admin/mailings as a 10MegaByte zip file, and can be downloaded. If you have ordered a T11 cd-rom mailing, and not received one, please see me sometime this week.

The Person, Meeting and Vote databases have now been made accessible from the T11 homepage (www.t11.org). It is now possible to change personal details such as address and e-mail address information online. It is also possible to change T11 and T11.2 P's & A's online. For both of these activities an NCITS Invoice Number, or a special password, are required. New member companies are still required to inform both the NCITS Secretariat and the Chair of the Group in writing.

Notices for Ad Hoc meetings and teleconferences can also be created online.

Please submit all documents and drafts for the next mailing to ftp.t11.org/t11/member/incoming using the t11member user id (and obtain a document number from www.t11.org using the "docs" link) before 1159pm PST on May 7.

## **7.2 HNF**

No HNF report was received.

## **7.3 ISO report**

At their February 1998 Plenary, T11 approved submitting ANSI X3.222:1997, HIPPI-SC revised, and X3.210:199x, HIPPI-FP revised (when it becomes an approved ANSI standard), for ISO Fast Track processing meeting. No new information has been received.

The annual ISO/IEC JTC 1/SC 25/WG 4 meeting will be held in Tokyo from Monday 25 May through Wednesday 27 May with a joint meeting of SC 25/WG 4 and SC 26 on Thursday 28 May. Gene Milligan will represent T11 and its Task Groups.

## **7.4 Other liaison reports**

None

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## **8. Patent issues**

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### **8.1 Hewlett-Packard patents against HIPPI-6400-PH and ST**

The HP patent claims against ST are being worked on by Hewlett-Packard and SGI. Don Tolmie noted that the patent issue needs to be resolved before we can forward ST, and Greg Huff felt that this should not be a problem.

### **8.2 Call for other patents**

A call was issued for disclosure of the existence of patents required to implement 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. A patent policy description is at [www.ansi.org/proctbl.html](http://www.ansi.org/proctbl.html), section 1.2.11.

No new patent claims were made at this meeting.

## **9. Review and act on projects in ANSI development phase**

### **9.1 Scheduled Transfer Protocol**

#### **9.1.1 Working Group activity**

Rev 1.7 was reviewed at the April meeting. Changes to correct and refine the document continue. Recent changes include state tables for an informative annex, an optional payload definition, and other annex material.

### **9.2 HIPPI-6400-OPT**

#### **9.2.1 T11.2 (Physical Variant) activity**

Rev 0.4 was reviewed at the April meeting. Presentations were made by W.L. Gore and Associates and Optobahn on techniques for measuring skew in fiber cables, and in optics modules, respectively. The jitter issues were revisited and work on resolution continues. The jitter problem is compounded in that the optical folks use an eye opening specification and copper folks use things like setup and hold times. A first summation of the jitter components revealed that we may be closer to the edge than we thought, and may need to reduce the length of a short-wavelength system to achieve an acceptable margin.

### **9.3 HIPPI-LE proposed changes, or reaffirm without change**

HIPPI-LE became an approved ANSI standard in 1993. With a 5-year sunset on standards, T11.1 needs to either (1) reaffirm the standard without changes, or (2) revise the standard, or (3) withdraw the standard.

Don showed a current list of possible changes to the document. These four changes are editorial in nature and were requested by the ISO editor when HIPPI-LE became an ISO standard. It was felt that

revising the ANSI standard to include just these changes was not worth the effort.

A call was issued for other proposed changes to HIPPI-LE. Unless significant input for changes is received, T11.1 will vote on the course of action (e.g. revise or reaffirm) at the June T11.1 Plenary in St. Petersburg Beach, FL.

## **10. Review projects in approval phase**

### **10.1 HIPPI-6400-PH**

HIPPI-6400-PH Rev 2.2 was forwarded by T11.1, and T11 at the February meeting. It passed its OMC compliance review, and is now out for Public Review, extending from April 10 to June 9. The document was assigned BSR number NCITS 323:199x. Any comments should be directed to NCITS Secretariat, Attn: Deborah J. Donovan, 1250 Eye Street, NW, Suite 200, Washington, DC 20005, E-mail: [ddonovan@itic.nw.dc.us](mailto:ddonovan@itic.nw.dc.us). Send a copy to: ANSI, Attn: BSR Center, 11 West 42nd St., New York, NY 10036 ([wluk@ansi.org](mailto:wluk@ansi.org)).

Don noted that he had received a marked up copy from Harvey Rosenfeld with the ANSI editor's comments. Don has incorporated these editorial changes into the document and forwarded a source file to ANSI and NCITS. When the document passes Public Review, its NCITS Letter Ballot, and BSR Review, its formal title will be ANSI NCITS 323-199x where the x is replaced by the last digit of the year.

### **10.2 HIPPI-6400-SC**

HIPPI-6400-SC Rev 1.9 was also forwarded by T11.1 and T11 at the February meeting. It is also in Public Review as document NCITS 324:199x with the same dates as HIPPI-6400-PH. Some people felt that there may be a flaw in the HIPPI-6400-SC document requiring a document change (and a public review comment). It is planned to resolve this issue at the May HIPPI working meeting.

### **10.3 HIPPI-FP Revision**

The public review for HIPPI-FP Rev 4.7 closed March 17, 1998, with no comments. Don received pre-edit comments from the ANSI Editor (Janice Sewall), and these comments have been incorporated into Rev 4.8a, dated April 16, 1998. A

copy of Rev 4.8a was forwarded to Deborah Donovan of NCITS for further processing, i.e., NCITS letter ballot, BSR review and ANSI final edit. It had been agreed at the February meeting that forwarding for ISO processing should wait for the ANSI standard to be completed and we could use the ISO Fast Track procedures.

## **11. Review other HIPPI-related items**

### **11.1 ARP over HIPPI-800**

Jean-Michel Pittet of SGI submitted his "ARP and IP Broadcast" draft to the IETF, and it is now an Internet Draft (ID) with a lifetime of six months. Comments were received from John Renwick, the author of the previous IP and ARP over HIPPI. John's comments have been resolved, resulting in some changes in the document. The plan is to revise this ID until we feel that it is stable, then advance it to Request for Comment (RFC) status in the IETF processing chain.

Jean-Michel is establishing an IETF Working Group for our HIPPI work. The work includes RFCs for (1) ARP and IP Broadcast over HIPPI-800, (2) ARP and IP over HIPPI-6400, and (3) HIPPI end point and switch MIBs. The IETF work will be done over e-mail and at the HIPPI Ad Hoc working meetings. Jean-Michel Pittet of SGI will chair this IETF Working Group.

The ARP and IP over HIPPI-800 ID document was reviewed up through section 5.2.

### **11.2 Others**

There were no actions required by T11.1, or any action taken, on any of the following activities:

- HIPPI end-point MIB
- HIPPI switch MIB
- HIPPI-6400 MIB
- HIPPI-6400 ARP and IP RFC
- IEEE Tutorial for HIPPI-6400 ULA usage

## **12. New business and new technical items**

None

## **13. Administrative matters**

Don noted that he is planning to retire in December 1998. Roger Ronald, T11.1 Vice Chairman will probably take over as Chairman at that time. The Los Alamos National Laboratory is conducting a nation-wide search for someone to take over Don's position at Los Alamos. Anyone with interest is encouraged to check out job ad #983452 on the Los Alamos web page at [www.lanl.gov](http://www.lanl.gov), under Info by subject/Job openings/Jobs open to external (non-Lab/UC) applicants.

## **14. Future meeting schedule**

### **14.1 Interim meeting, May 12-13, 1998**

The next interim working meeting will be hosted by Greg Chesson and SGI in Mountain View, CA. The meeting will be held at the SGI facility. No meeting hotel was identified, but participants were urged to make hotel reservations early as rooms are scarce in Silicon Valley. (See the meeting announcement on the web page at <http://www.cic-5.lanl.gov/~det/> for further details.)

Tuesday - May 12 : 1 PM - 9 PM

Wednesday - May 13 : 8 AM - 9 PM

### **14.2 Plenary week, June 9-10, St. Petersburg Beach, FL**

The next Plenary meeting will be on Wednesday, June 10, from 6 PM to 8 PM. The location is the Trade Winds Hotel, 5500 Gulf Boulevard, St. Petersburg Beach, FL 33706, phone 813-367-6461, Fax 813-562-1214. Chuck Brill and AMP are the host. The group name for reservations is "Accredited Standards Committee ASC-T11/AMP", and the group room rate is \$119-149 per night plus tax. The reservation cutoff date is May 11, 1998. (See the meeting announcement on the web page at <http://www.cic-5.lanl.gov/~det/> for further details.)

Moving the plenary week meeting time to track the new T11 meeting time was discussed. People who attend both the HIPPI meetings and T11 now have Thursday morning empty. The proposed times were:

Tuesday 6 PM - 9 PM : HIPPI-6400-OPT  
 Wednesday 9 PM - 6 PM : HIPPI ad hoc  
 Wednesday 6 PM - 8 PM : T11.1 Plenary  
 Thursday 9 AM - 12 PM: HIPPI ad hoc

It was noted that the proposed times cut down our work time somewhat. It was also noted that a change may run into conflicts with other T11 sub-groups. Greg Huff moved, and Roger Ronald seconded, to change the plenary week meeting times as stated above. The motion failed: 2 for, 5 opposed, and 0 abstentions.

**14.3 Interim meeting, July 14-15, Boston (tentative)**

An interim working meeting had been tentatively scheduled for July 14-15, in the Boston area with Bob Willard and DEC as the hosts. Based on our present work overload it was agreed that this meeting will be held.

Greg Chesson asked whether we could hold a meeting at the University of New Mexico (UNM) to take advantage of Barney Maccabe's class using Scheduled Transfer as the study topic. It would be nice if we could hold it before the semester ends, but that seems to be impractical due to the short time until the May meeting and people already holding reservations to Mountain View. Don Tolmie noted that he is investigating providing travel funds so that Barney Maccabe could attend the May meeting. Greg Chesson took an action item to talk to Bob Willard and Barney Maccabe about holding the meeting at UNM in July.

**14.4 Plenary week, August 11-12, Portsmouth, UK**

Since foreign travel often requires additional approvals, the August meeting information is being provided early.

The August Plenary week meetings will be on Wednesday, August 11, from 6 PM to 8 PM. The location is the Forte Posthouse, Pembroke Road, Portsmouth, Hampshire, UK P01 2TA, phone 01705 827651, Fax 01705 756715. Paul Levin and Xyratex are the hosts. The group name for reservations is "American National Standards Institute", and the group room rate is 95£ (Sterling) single or double occupancy. The reservation cutoff date is June 30. (See the meeting announcement on the web page at <http://www.cic-5.lanl.gov/~det/> for further details.)

**14.5 Future meeting dates and locations**

The T11.1 ( i.e., HIPPI), Plenary meeting will be on Wednesday evening of the T11 Plenary week, following the HIPPI working meetings.

The 1998 schedule is firm. Note that T11 schedules the plenary meetings. Hopefully HIPPI-6400 will be far enough along that we will not continue to need interim working meetings after May. Recent additions and changes are underlined and bold.

**1998** -

May 12-13	Interim	Mt. View, CA	SGI
Jun 9-10	Plenary	St. Petersburg Beach, FL	AMP
Jul 14-15	Interim	<b><u>Boston (?)</u></b>	<b><u>DEC (?)</u></b>
Aug 11-12	Plenary	Portsmouth, UK	Xyratex
Oct 6-7	Plenary	Ft. Lauderdale, FL	Adaptex
Dec 14-18	Plenary	Tucson	FSI

The 1999 and 2000 schedules just include the Plenary weeks; no interim working meetings are scheduled yet. Meeting locations and hosts marked with (?) are tentative at this time. The meetings in bold underline without a (?) have been firmed up. Note that the HIPPI and T11.1 meeting days are not specified; they will be somewhere within the Plenary week.

**1999** -

Feb 8-12	Plenary	<b><u>Huntington Beach, CA</u></b>	Qlogic
Apr 5-9	Plenary	Palm Springs, CA	Brocade
Jun 7-11	Plenary	<b><u>Minneapolis, MN</u></b>	Ancor
Aug 2-6	Plenary	Minneapolis, MN	ENDL
Oct 4-8	Plenary	Ft. Lauderdale, FL	Adaptex
Dec 6-10	Plenary	Reno, NV	Solution

**2000 (dates approved, locations and hosts open) -**

Feb 7-11	Plenary	San Diego, CA (?)	QLogic
Apr 3-7	Plenary	Palm Springs, CA (?)	Brocade
Jun 5-9	Plenary	(?)	(?)
Aug 7-11	Plenary	<b><u>Hawaii (?)</u></b>	<b><u>Solution (?)</u></b>
Oct 2-6	Plenary	San Diego, CA (?)	QLogic
Dec 4-8	Plenary	(?)	(?)

**15. Review action items**

1. Don Tolmie to present T11.1's recommendation that T11 further the processing of the X3.210, HIPPI-FP.
2. Greg Chesson to check on the July meeting location with Bob Willard and Barney Maccabe.

**16. Adjournment**

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Jeff Young moved, and Greg Huff seconded to adjourn. The meeting adjourned at 7:10 PM.

**Notes from April T11 Plenary**

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The T11 Plenary met the next day, i.e., April 23. HIPPI related items are reported here for your convenience, the definitive record is the T11 minutes.

T11 voted that the US Delegation to ISO vote yes on the FC-FP document (HIPPI-FP over Fibre Channel). Gene Milligan, the T11 International Representative, questioned who was going to take over as Technical Editor of the HIPPI documents when Don Tolmie

retires in December. Don agreed to talk to Roger Ronald about this.

T11 voted 56 for, 0 opposed, and 24 not voting, to confirm that HIPPI-FP revised should continue in the processing track.

T11.3 has 46 members, Rich Taborek Chair and Jeff Stai Vice-Chair. The main topic is FC-AL-2 (clean up, make concise, and get it out the door).

T11.4 has 43 members, Ed Lee Chair and Kumar Malavalli Vice-Chair. Projects are FC-AV, FC-AE, FC-BB, GS-2, and VIA over FC. T11.4 voted 33 for, 2 opposed, and 8 not voting to forward the VIA over FC revised SD-3 Project Proposal. T11 voted to forward the Project Proposal by a vote 50 for, 0 opposed, and 30 not voting.

**Attendance**

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Ed Cady	P	Berg	503-359-4556	edcady@aol.com
Jeff Young	A	Cray Research Inc.	612-683-5536	jsy@cray.com
Roger Cummings	P	DPT	407-830-5322 x348	cummings_roger@dpt.com
Donald Woelz	O	Genroco, Inc.	414-644-2505	don@genroco.com
Greg Huff	P	Hewlett-Packard	972-497-4530	huff@convex.hp.com
Craig Warner	O	Hewlett-Packard	972-497-4341	warner@rsn.hp.com
Don Tolmie	P	Los Alamos National Lab	505-667-5502	det@lanl.gov
Roger Ronald	P	Raytheon Systems Co.	972-205-8043	rronald@esy.com
Greg Chesson	P	Silicon Graphics	650-933-3496	greg@sgi.com
Albert F. Kelley	P	Tensolite Co.	904-829-5600 x281	akelley@tensolite.com
Bill Kuypers	A	Tensolite Co.	904-829-5600	bkuypers@tensolite.com

P = Principal, A = Alternate, O = Observer