

Minutes of T11.1 HIPPI Optical Ad Hoc Working Group

August 3, 1999
Rochester, MN

1.0 Opening remarks and introductions

The T11.1 Chairman, Roger Ronald of Power Micro Research, opened this meeting at 9 AM and thanked Horst Truestedt of ENDL for hosting this meeting.

This group is constituted as both the HIPPI Working Group under T11.1, and the High Performance Networking Forum (HNF) - Technical Committee (TC).

The list of attendees is at the end of these minutes.

Roger Ronald lead a round of introductions. Roger will record and produce the final HIPPI-6400 Optical minutes separate from the other HIPPI minutes.

2.0 Review / modify the draft agenda

Draft agendas were distributed via e-mail before the meeting. There were no changes.

These minutes reflect the approved agenda.

3.0 Document distribution

Roger described the HIPPI web page at www.hippi.org. Meeting documents are placed there and people are encouraged to pick up the documents before the meeting as extra documents are generally not available at the meeting.

4.0 Review minutes of previous meeting

The minutes of the June 8, 1999 HIPPI Optical Working Meeting in Minneapolis, MN, were reviewed.

There were no changes.

Michael Griffin moved and Don Tolmie seconded a motion to approve the June 8, 1999 working meeting minutes as written.

The motion passed unanimously.

5.0 Review action items

The action items from the December meeting were reviewed.

1. Roger Ronald to produce the minutes for the June, 1999 meeting. (**done**)
2. Don Tolmie to update HIPPI-6400-OPT Rev 1.1 with the changes agreed to at the June, 1999 meeting. (**done**)
3. Bob Newhall of SGI to perform SuMAC characterization at 1 GHz and report back to the committee with information on its performance. (**carryover**)
4. All to continue discussions about Siemen's "MT connector problem presentation" at a future meeting. (**carryover**)
5. Mark Donhowe to present information about WL Gore's optical modules at the August, 1999 meeting. (**done**)
6. Mark Donhowe to provide his presentation charts (showing testing with a pattern emulating the SuMAC training sequence and the resulting ping edge pattern shift and jitter) from the June meeting for posting on the HIPPI reflector. (**carryover**)

6.0 Presentations

6.1 WL Gore Optical Modules Presentation

WL Gore made a presentation of their fiber optic modules. These parts will operate beyond our require 1 GBaud rate and provide 12 channels per module. They should be available for sampling in Q4 at a price point that looks comparable or better than copper cable solutions.

This presentation will be made available on the web site.

7.0 Jitter Discussions

During the June meeting, Mark Donhowe of WL Gore presented the results of some testing with a pattern emulating the SuMAC training sequence. The results included a graphic that showed the resulting ping edge pattern shift and jitter.

The implications of the pattern shift was discussed, but no one from SGI was available to comment as to whether the SuMAC was able to compensate for the shift.

Mark accepted an action item to email the charts for posting on the reflector.

Mark did not provide the charts for posting since he repeated his experiment and got slightly different (better) results. The ping edge shift was only about 30 ps versus the previously measured 120. However, there was still some uncertainty about the correctness of the pattern.

Roger Ronald noted that testing did not need to be complete to post the material on the web site, so long as there was a note that testing was still in progress. Mark reiterated his commitment to provide the material. He also expressed a desire to use the worst case pattern for testing and Roger accepted an action item to find and send him the "Widmer" pattern.

8.0 Review HIPPI-6400-OPT Rev 1.2

Changes in this version of the document were non-existent for quite a while during the meeting, but there was some discussion about moving section B.4 and table B.1 into the document body.

After a bit, it was agreed that the information about the breakdown of the jitter budget was informative, but that an allocation between receiver and transmitter was required. Don Tolmie will add these parameters to the existing tables in the document body.

9.0 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 paper-work.

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, section 1.2.11.

No new patent claims were made at this meeting.

10.0 Planning for future work

The Optical meetings will continue to be held at 9-11 AM on Tuesdays, rather than at 6-9 PM during future plenary weeks.

11.0 Future meeting schedule

11.1 October 5, Ft. Lauderdale, FL

The next Optical working group meeting will be held October 5 from 9-11 AM (during the October Plenary week in Ft. Lauderdale, FL).

The hotel information is available at the www.hippi.org web site.

11.2 Future meeting dates and locations

The Optical working group will meet on Tuesday mornings (9-11 AM) during the T11 Plenary week, before the HIPPI working meetings.

1999

Oct 4-8 Plenary Ft. Lauderdale, FL JNI

Dec 6-10 Plenary Reno, NV Solution

2000

Feb 7-11 Plenary Huntington Beach, CA Qlogic

Apr 3-7 Plenary Palm Springs, CA Brocade

Jun 5-9 Plenary Boise, ID HP

Aug 7-11 Plenary * open * ??

Oct 2-6 Plenary Manchester, NH Hitachi

Dec 4-8 Plenary Austin, TX Crossroads

2001

Feb 5-9 Plenary So. California Qlogic
 Apr 9-13 Plenary Palm Springs, CA Brocade

12.0 Review action items

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

1. Roger Ronald to produce the minutes for the August, 1999 meeting.
2. Don Tolmie to update HIPPI-6400-OPT Rev 1.2 with the changes agreed to at the August, 1999 meeting.
3. Bob Newhall of SGI to perform SuMAC characterization at 1 GHz and report back to the committee with information on its performance.
4. All to continue discussions about Siemen's "MT connector problem presentation" at a future meeting.
5. Roger Ronald to contact US ConneC to see if anything further is known about the resolution of the MT connection problems mentioned in action item 4.

6. Mike Dudek to provide some wording for Don Tolmie about the jitter budget.
7. Mark Donhowe to provide his presentation about WL Gore's optical modules for posting on the web site.
8. Mark Donhowe to provide his presentation charts (showing testing with a pattern emulating the SuMAC training sequence and the resulting ping edge pattern shift and jitter) from the June meeting for posting on the HIPPI reflector.
9. Roger Ronald to locate the Widmer data pattern and provide it to WL Gore for testing use.

13.0 Adjournment

Don Tolmie moved and Bob Willard seconded to adjourn at 11:15 AM on August 3rd. There were no objections.

Attendance

Name	Status	Company	Phone	E_mail
Ronald Bossard	O	3M	512-984-3782	rgbossard@mmm.com
Michael E. Griffin	O	3M Co.	612-733-6004	megriffin@mmsmail.mmmg.com
David Rifkin	O	Amphenol Fiber Optic Product	630-810-5641	rifkin@amphenol-fiberoptics.com
Mike Dudek	O	Cielco Communications	303-464-2247	mdudek@cieloinc.com
Bob Willard	P	Compaq Computer Corp.	978-493-5482	bob.willard@digital.com
Hari Naidu	O	Fujikura	408-988-7420	hari@fujikura.com
Ron Salapatek	O	Genum Corp	905-632-2996	ron_s@genum.com
Kevin Demsky	O	IBM	507-253-5799	kdemsky@us.ibm.com
Clint Schon	O	IBM	507-253-8954	Clints@us.ibm.com
Schelto Van Doorn	O	Infineon	408-725-3436	schelto.van-doorn@infineon.com
Chris Liston	O	Methode Electronics	708-867-9600	liston@methode.com
Ted Washburn	O	Methode Electronics	708-867-9600	tedw@methode.com
Tony Whitlow	O	Molex, Fiber Optics, Inc.	630-512-8553	twhitlow@molex.com
Roger Ronald	P	Power Micro Research	972-437-9461	rronald@pmr.com
James Pinkerton	O	SGI	650-933-4943	jimp@sgi.com
Don Tolmie	O	Tolmie Enterprises	505-662-7110	tolmie@concentric.net
Mark Donhowe	O	W. L. Gore and Associates	302-368-2575	mdonhowe@wlgore.com