

Minutes of T11.1 HIPPI Optical Ad Hoc Working Group

October 5, 1999
Ft. Lauderdale, FL

1.0 Opening remarks and introductions

The T11.1 Chairman, Roger Ronald of Power Micro Research, opened this meeting at 9 AM and thanked Norm Harris of SanCastle 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 August 3, 1999 HIPPI Optical Working Meeting in Rochester, MN, were reviewed.

Changes were made to correct Horst Truedstedt's employer (ENDL, not IBM) and to correct the spelling of Al Widmer's last name.

Don Tolmie moved and Don Woelz seconded a motion to approve the August 3, 1999 working meeting minutes as amended.

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 August, 1999 meeting. **(done)**
2. Don Tolmie to update HIPPI-6400-OPT Rev 1.2 with the changes agreed to at the August, 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, but reassigned to "anyone". Bob Newhall offered to provide SuMACs for anyone willing to do the testing)**
4. All to continue discussions about Siemen's "MT connector problem presentation" at a future meeting. **(Overcome by lack of events. The group decided that Infineon had waited long enough to provide further data and that the action should be closed.)**
5. Roger Ronald to contact US Conec to see if anything further is known about the resolution of the MT connection problems mentioned in action item 4. **(done)**
6. Mike Dudek to provide some wording for Don Tolmie about the jitter budget. **(done)**
7. Mark Donhowe to provide his presentation about WL Gore's optical modules for posting on the web site. **(done)**
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. **(done)**
9. Roger Ronald to locate the Widmer data pattern and provide it to WL Gore for testing use. **(carryover)**

6.0 Presentations

There were no presentations.

There was a discussion on eye safety where it was noted that the FDA was lagging the IEC. The FDA was eventually expected to follow the IEC's lead on eye safety, but was waiting on the IEC to finish making changes. Thus, the FDA was not expected to act for quite a long while (more than a year or two).

7.0 500 MBaud Optical Alternatives

Nothing new was discussed as the need for dropping back to this option is dependent on the SuMAC characterization at 1 GHz.

There was concern about the lack of progress towards a viable standard and a viable solution for users who need longer distances than copper can provide.

8.0 Jitter Discussions

Roger Ronald still owes Mark Donhowe the widmer pattern information.

Mike Dudek provided a jitter budget that was included into the current Optical document and the information was reviewed for content and format. It was agreed that some additional definitions would be valuable and action items were captured to make sure these were included in a future revision.

9.0 Review HIPPI-6400-OPT Rev 1.3

With the exception of the previously mentioned jitter budget, this months version of the Optical document was essentially unchanged from the previous version.

This change was accepted. The group also spent a bit of time reviewing the open issues flagged in the text and eliminated them since they were covered by recent changes or would be covered by work to be done during the next version.

10.0 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.

11.0 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.

12.0 Future meeting schedule

12.1 December 7th, Reno, NV

The next Optical working group meeting will be held December 7 from 9 AM till 11 AM during the December Plenary week in Reno, Nevada.

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

12.2 Future meeting dates and locations

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

2000

Feb 7-11	Plenary	Huntington Beach, CA	Qlogic
Apr 3-7	Plenary	San Diego, CA	Brocade
Jun 5-9	Plenary	Boise, ID	HP
Aug 7-11	Plenary	Seattle, WA	??
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

13.0 Review action items

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

1. Roger Ronald to produce the minutes for the October, 1999 meeting.
2. Don Tolmie to update HIPPI-6400-OPT Rev 1.3 with the changes agreed to at the October, 1999 meeting.
3. Anyone to perform SuMAC characterization at 1 GHz and report back to the committee with information on its performance. Bob Newhall of SGI has offered to provide SuMACs for anyone willing to do the testing.
4. Mike Dudek to provide a footnote for Don Tolmie about the breakdown between random, deterministic, and total jitter.

5. Mike Dudek to run the Gigabit Ethernet model and provide numbers for the uncertain values now in table 4.
6. Shelto Van Doorn to provide input on the eye mask values for figure 3.
7. Don Tolmie to add definitions from the MJS document for jitter. The document is available on the T11 web site.
8. Roger Ronald to locate the widmer data pattern and provide it to WL Gore for testing use.

14.0 Adjournment

Don Woelz moved and Craig Davidson seconded to adjourn at 10:40 AM on October 5th. There were no objections.

Attendance

Name	Status	Company	Phone	E_mail
Mike Dudek	O	Cielco Communications	303-464-2247	mdudek@cieloinc.com
David Hyer	A	Compaq Computer Corp.	508-467-4550	david.hyer@compaq.com
Brad Allen	P	Essential / ODS	505-344-0408	ballen@esscom.com
Hari Naidu	O	Fujikura	408-988-7420	hari@fujikura.com
Eric Fankhauser	O	Gennum Corp	905-632-2996	eric_f@gennum.com
Bharat Tailor	O	Gennum Corp	905-632-2996	bharat_t@gennum.com
Donald Woelz	P	Genroco, Inc.	414-644-2505	don@genroco.com
Bob Musk	O	Hewlett Packard	1473 465346	bob_musk@hp.com
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Roger Ronald	P	Power Micro Research	972-437-9461	rronald@pmr.com
Craig Davidson	A	Raytheon Systems Co.	972-205-4166	davidson@esy.com
Bob Newhall	O	SGI	650-933-5424	newhall@engr.sgi.com
Jeff Young	A	SGI/Cray Research	651-683-5536	jsy@cray.com
Don Tolmie	O	Tolmie Enterprises	505-662-7110	tolmie@concentric.net
Kevin White	O	US Conec	828-323-8883	kevinwhite@usconec.com