

Accredited Standards Committee*
INCITS, Information Technology

Doc. Number: T11/05-301v0
Date: 2/1/05
Project: FC0 FC-MSQS ad hoc
Reply to: Bill Ham
Allen Kramer

TO: MEMBERSHIP of T11.2
FROM: Bill Ham Chair MSQS
Allen Kramer Vice-chair MSQS
Dean Wallace Secretary MSQS
Subject: Approved minutes of MSQS working group 2/1/05

AGENDA

1. Opening remarks and introductions
2. Attendance and membership
3. Approve agenda
4. Document Distribution
5. Review minutes of previous meeting
6. Review old action items
7. Call for patents
8. New business/presentations
 - 8.1.1 Simulations of the transmitter model (Dean Vermeersch, Tyco)
 - 8.1.2 MathCAD simulation of transmitter model (Vince Cavanna, Agilent)
9. Old business/presentations
10. New business
11. Review action items
12. Next meeting schedule
13. Adjourn

RESULTS OF MEETING

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1. Opening remarks and introductions*

Dean Wallace led the meeting. He opened the meeting at 9am and thanked the host Skip Jones of Qlogic for hosting the meeting. He then led a round of introductions. Dean Wallace took these minutes.

2. Attendance and Membership

Attendance at plenary meetings does count toward minimum attendance requirements for T11.2 membership. Working group meetings are open to any person or organization directly and materially affected by T11.2's scope of work but do not count toward minimum attendance for T11.2 membership.

The following people attended this meeting:

| NAME | COMPANY | TELEPHONE NUMBER |
|------------------|------------------------|------------------|
| Adam Healey | Agere | 978-691-3067 |
| Vince Cavanna | Agilent | 916-788-5797 |
| Frank Yuam | Brocade | 408-333-6072 |
| Greg McSorley | EMC | 508-382-5928 |
| Frank Barber | eSilicon | 610-439-6850 |
| Dan Colegrove | Hitachi GST | 702-614-6119 |
| David Stauffer | IBM | 802-769-6914 |
| Bill Bissonette | Intel | 978-553-6140 |
| Schelto VanDoorn | Intel | 408-398-2441 |
| Mark Marlett | LSI Logic | 408-954-3760 |
| Mike Jenkins | LSI Logic | 408-433-7901 |
| Jan Filip | Maxim | 49 5139 959867 |
| Mark Owen | Qlogic | 952-908-2326 |
| Dean Wallace | Qlogic | 949-389-6480 |
| Rajeev Jain | TI | 214-480-2778 |
| Richard Wolcott | Toshiba | 408-526-2400 |
| Mike Fogg | Tyco | 717-986-5802 |
| Andrew Nowak | Tyco/MADISON | 508-752-2884 |
| Vit Novak | Sun Microsystems, Inc. | 510-936-3284 |
| Dean Vermeersch | Tyco | 717-986-3143 |
| Tom Palkert | Xilinx | 952-401-7997 |

3. Approval of Agenda*

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There were no objections to the agenda.

4. Document distribution

This section describes the availability of draft documents that are intended to be published as a result of work by the electrical working group.

Document distribution is now being done over the web. Documents relating to the electrical working group work can be found on the T11 website (www.t11.org) by going to “documents” and searching on the key word electrical.

A summary of the presently active policy to document distribution is included for reference.

All presentations are posted electronically at the approved ftp within two weeks after the meeting. Format must be an approved electronic file format.

Presentations are defined as material shown publicly in the plenary or authorized working group meetings.

Submission of documents for T11 document numbers: A online system is now available to provide document numbers and accept the submission of documents. The system is accessed via the T11 web page at <http://www.t11.org>. Follow the “docs” link in the left hand frame, or at the bottom, and fill in a form giving details of the document. In order to complete the form, it will be necessary to enter a password. The password is given out at T11 meetings, or can be obtained from the T11 chair. Instructions will then be given about uploading the file to the ftp site.

We now use all electronic document distribution.

A T11.2 reflector is operational over the T11 site.

The committee forms it’s agenda by the following:

1. A call (reminder) for presentations by the chair three weeks in advance.
2. Those wanting to be on the agenda submit request including; title, presenter, time required, abstract.
3. Chair creates an agenda and posts two weeks before the meeting.
4. At the meeting it is the chair’s discretion to allow additional presentations.

5. Review minutes of previous meeting*

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Motion to approve minutes was made by Greg McSorley and seconded by Dean Wallace.

6. Review old action items

Old action items were not reviewed.

7. Call for patents

The chair noted that the formal call for patents is issued at the T11.2 and T11 plenary meetings. Companies with patents that may bear on the subject of this ad hoc are advised to consider this call for patents. There was no response for this call for patents.

8. New discussions/presentations

8.1.1 Simulations of the transmitter model (Dean Vermeersch, Tyco)

Dean reviewed his simulation results of the transmitter device model. The simulations were run on the single ended model. There was discussion about the Oculus tool and whether the tool can do an impulse response or not. The Oculus tool is a frequency domain simulator. There was discussion about how generic TX pre-emphasis should be in the model. There was also a discussion about what else should be added into the link model. It was also asked if Monte Carlo simulations are going to be run.

8.1.2 Simulation of the transmitter model using MathCAD (Vince Cavanna, Agilent)

Vince presented his simulation results of the TX single ended model. He used numbers from the diagram. Vince also pointed out that a lot of the blocks from his simulation came from Howard Johnson. The results of Vince's simulation were compared to Dean's simulation.

9. Old business/presentations

There was no old business reviewed.

10. New business*

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There was no new business

11. Review action items

Mike Fogg (Tyco) will run simulations of the existing TX model using HSPICE and ADS. He will use the new SCA-2 connector.

Tom Palkert (Xilinx) will run a simulation using StatEye.

Mike Fogg (Tyco) will present eye patterns through different channel models.

Vince Cavanna (Agilent) will provide recommended transmission line values for FR4-6 and FR4-13.

Mike Fogg (Tyco) will bring in information of FR-4 losses.

Mark Marlett (LSI Logic) will speak with a presenter that presented at DesignCon to see if the same presentation can be made at this meeting about measuring Tj.

12. Next meeting schedule

The next meeting will be Tuesday April 5 in San Diego from 9am to 3:00pm.

13. Motion to adjourn

Motion to adjourn Greg McSorley (EMC) seconded by Mike Marlett (LSI Logic).