

Microprocessor Standards Committee

Minutes

January 12, 2004 at 6:30PM PDT

Meeting held At Chef Chu's – Nine Dragon Room www.chefchu.com
1067 North San Antonio Road Los Altos, CA 94022

I Call to Order 6:30 PM PST

Attendance David Gustavson, Bob Stewart, Peter Johansson, Dick Karpinski, Lenord Tsai, Dan Zuras, Bob Ferguson, Bruce Nordman, Mike Smolin, Amit Thakar, Bob Davis.

II Introductions – Made around the table.

III Dinner – Good Food

IV Approval of Agenda – agenda modified by Peter Johansson to move XI.3 to beginning of New Business. Added item XII.2 on balloting by email for MSC

V Approval of Minutes – Dave James – Deferred as Dave James was in Vancouver BC

VI Call for Patents – Patent slides read by Bob Davis

VII Officers reports

VII.1 Chair - Bob Davis

New Vote Counting Rules – For working groups and most groups below the Board of Governors, when counting ballots, the abstains count only in the 75% ballot return percentage and not in the 75% YES vote The Yes percentage is $((\text{YES})/(\text{Yes} + \text{NO})) > .75$ for passage. Abstains are no longer counted as NO votes.

Proposed New Rules on Amendments – There is a proposal to limit the maximum number of amendments to two before the standard is revised or reaffirmed. This would impact P1394c as the Revision of 1394 has not be completed by its committee. This changed is currently tabled at the Standards Board while a solution is sought. Among the issues, correctly raised by the publications group, is that the published standard is out of touch with the current state of the amendments. In some standards, primarily in 802 land, several outstanding amendments are conflicting and can not be editorially reconciled by the editorial staff. Staff would like to require more revision action to bring the published standard up to date. Geoff and I are looking for mechanisms to accomplish the Editor's needs and the ability to continue with the fast paced 802 and 1394 style activities.

New Stabilized Class of Standard. The stabilized standard is now included in the life line of a standard from Developing, Active, Stabilized, and Withdrawn. This is the result of the work Geoff Thompson and I have been doing for the past year at the ProCom and Standards Board. Some of the details still need to be worked out for the progression and requirements. That will, hopefully happen this year.

Reappointment to Standards Board – I have been reappointed to the IEEE SA Standards Board for 2004.

(Update) I have also been reappointed to RevCom and ProCom also.

(Update) P1620 Approved 1/16/04.

VII.2 Vice-Chair Dave Gustavson

Nothing to report.

VII.3 Treasurer - Bob Ferguson

Bob reported the current balance in the account as \$6056.40. The cost of dinner is \$25 each.

VII.4 Secretary - Dave James

Dave James is at a 802 meeting in Vancouver BC.

IX Liaison Reports

IX.1 Standards Board – Davis - See Chairman's comments

IX.2 IEEE RAC - Dave Gustavson/Dave James

Dave G. Reported on RAC issues. (Dave – do you have some words for here, I did not make notes ☹).

X Old Business

XI New Business

XI.3 Use of MSC OUI for MSC Projects – Johansson /Teener

This discussion on the allocation of the MSC's OUI (00-A0-3F) for software identifier for the various standards within the authority of the MSC.

Motion – Johansson Sec – Ferguson – that the MSC establish procedures to administer the grant of software protocol IDs to MSC-sponsored working groups. The general principles of such procedures are outlined in a January 8, 2004 EMail from Peter Johansson to the MSC reflector; an ad hoc group shall be convened to draft formal procedures for ratification by the MSC.

Motion passed 8:1(Tsai). The make up of the group is Johansson, Gustavson, James, Karpinski, Tsai, Davis.

Motion – Johansson Sec – Zuras - that the MSC grant the IEEE 1394 working groups a contiguous block of 256 48-bit software protocol IDs for use in IEEE standards developed by the working groups. Motion passed 7:3

(Update) Per the request, while the AdHoc does its work, the chair is assigning 1394 working group the 48 bit allocation of 00-A0-3F-00-02-00(HEX) through 00-A0-3F-00-02-FF following the guidelines of the RAC. This is the 256 addresses requested. I assumed that the 00A03F0000 block will never be assigned and the 00A03F0001 block will be used for cross standard applications within the MSC domain.

XI.1 JTC1/SC25/WG4 TAG Chair request

The imposition of a \$750 yearly fee, by the IEEE Standards Association, for participation in the IEEE Microprocessor TAG resulted in a 100% resignation of the membership.

(UPDATE) In a email from Bob Pritchard, the \$750 fee imposed by the Standards Association has been waived for 2004. The result is the rejoining of the participants including – Bob Davis, Mike Smolin, Dave James, Dave Gustavson, Leonard Tsai, Peter Johansson, and Dan Zuras. A chair is being sought. Currently it is anticipated that any meetings of this group would be co-located with an MSC meeting.

XI.2 Expiring PARS in 2004. No panic yet but a heads up!

- P754 Binary Floating-Point Arithmetic
- P1355 Standard for Heterogeneous Interconnect (HIC)
- P1575 Standard for Advanced Microcomputer Power Distribution System
- P1355.2 Standard for SpaceWire - Links, Nodes, Routers and Networks Optimized for Space Craft
- P1363.1 Standard Specification for Public-Key Cryptographic Techniques Based on Hard Problems over Lattices
- P1363.2 Standard Specification for Password-Based Public-Key Cryptographic Techniques
- P1579 Standard for Parallel 10 Gb/s Signaling (LiteLink)
- P1394.1 Standard for High Performance Serial Bus Bridges
- P1363a Standard Specifications for Public-Key Cryptography: Additional Techniques

XI.4 Resilient Packet Ring Backplane Proposal – Dave James

Dave James has requested, via email, a Study Group be formed to work on an implementation of the Resilient Packet Ring (P802.17) for backplane implementation. The consensus of the meeting was to start this group. So I authorize a Study Group for the consideration of the “Resilient Packet Ring Backplane Proposal” with Dave James as its Chair. This study group is authorized for a period of 6 months.

XI.5 Large Memory Channel and storage Study Group request – Bob Davis

Bob Davis requested a study group be formed to study a protocol for a new large memory channel and storage system. The consensus of the meeting was that this was a good idea. I authorize this study group for a period of 6 months. Davis will be sending out, shortly, to the MSC a presentation on this topic.

XII Working Group Reports

Bruce Nordman reported on the progress of P1621 “Standard for User Interface Elements in Power Control of Electronic Devices Employed in Office/Consumer Environments”. He has had several teleconference meetings and is driving forward. A problem still exists in connection with the changes that he desires in IEC definitions of symbols in the power control area. The report is that the IEEE does not have a presence in the graphical definition that his committee would like to change. We need to find that interface. Bruce has asked that a balloting committee be formed for an expected ballot in 2Q04.

Dan Zuras reported on the progress of the 754R committee, he is driving for balloting in December of this year. He also is receiving significant help on developing test vectors for the proposed implementation from IBM and other committee members. Dan concluded that he is not likely to make the December expiration of the PAR even meeting the current 2 days per month, rate and will most likely need an extension to the PAR. This action will be undertaken at the October MSC meeting.

From Michael Teener, for P1394C, to Bob Grow: As chair of the p1394c WG, I'd like to formally request that 802.3 allocate a selector field for use by the IEEE 1394 family of interconnects. There are already systems being deployed using IEEE Std 1394b-2002 that use cat-5 wiring, and these have no capability of recognizing that a device using an alternate protocol is on the other end of the wire. Naturally, this can cause usability problems for the user (particularly since the old 1394b startup protocol may ... Or may not ... Cause confusion on the part of an 802.3 device). We'd like to rectify this potential problem, and allow for future enhancements that will **not** create additional difficulties for 802.3 devices. After talking to a number of people in both the 802.3 and 1394 communities we believe that using a new selector field would be safest. Since, as you noted, there are only a total of 32 selector fields and 3 are already allocated, we intend to ensure that the new selector field could be used by **any** organization that has an OUI, removing the need for further registration authorities.

The p1394c WG would like to proceed on this in a cooperative way, but with all reasonable speed. Can you put this on the agenda for the next 802.3 plenary and advise Kevin Brown (as our designated contact to 802.3) of any requests you may have for additional information?

We would also like to suggest a 90 minute “1394 Summary” (including the proposed p1394c) tutorial sometime shortly before the selector field discussion comes up. Perhaps Tuesday or Wednesday evening?

Mike also has requested that a balloting committee be formed for P1394C.

Peter Johansson reported that P1394.1 is in a recirculation ballot at this time and will probably make the time line before the end of the year.

XII.1 P1639 DMIDI Issues. Phil Kerr

Phil has run into difficulties in continuing to chair the P1639 “Standard for transmission of Musical Instrument Digital Interface (MIDI) data within Local Area Networks: Distributed MIDI – DMIDI” and had asked to resign that position. Since that time the situation has improved in his work and funding and he has been able to continue with his work and rescind the resignation. Thank you Phil!

Phil hopes to complete the testing of the protocols and is expecting to be able to ballot shortly. This is a request for a balloting body for P1639 be formed for balloting in the 2Q04.

XII.2 Balloting by Email for MSC.

Bob Davis reported this movement is being actively worked by the Standards Board. The current issue is definition of the number of members in the vote to determine the denominator for the percentage required to pass the vote. Current issue before the ProCom and Standards Board is between “Voting Members” and “Members Voting”. The former definition – voting members, would include all the working chairs and other appointed positions of the larger group, many of whom do not respond to email questions. If this position prevails, a new smaller executive group would need to be constituted to be able to conduct business. If the - members voting – method prevails, the members of the list that choose to participate become the balloting body. I believe that this will be settled in the next 3 to 6 months and we can move to electronic email ballots then.

XIII Study Group Reports

Two new groups formed.

XIV For the Good Of The Society

Discussion on the cost to volunteers in the TAG consumed much discussion time.

XV Next Meetings

April 12, 2004 - Current plans are for Chef Chu's again. The noise level was high and a different location may need to be located.

July 12, 2004

October 11, 2004

XVI Adjournment