

IEEE P1800 SystemVerilog Working Group
APPROVED MINUTES
9 August 2004
9:00 a.m. – 5:00 p.m. PDT
Mountain View, CA USA

MEMBERS PRESENT	MEMBERS ABSENT	GUEST	STAFF
Johny Srouji	Neil Korpusik	Karen Pieper	
Dennis Brophy	Steve Mills	Kevin Cameron	
Vassilios Gerousis	Yaron Wolfsthal	James Markevitch	
Shrenik Mehta		Eugene Zhang	
Michael McNamara		Charles Dawson	
Cliff Cummings		Stu Sutherland	
Wolfgang Ecker		Alec Stanculescu	
Victor Berman		Mehdi Mohtashemi	
Rishiyur Nikhil		Stephen Sharp	
Lori Kate Smith		Ron Goodstein	
Oz Levia		Francoise Martinolle	

1 CALL TO ORDER

Chair Srouji called the meeting to order 9:10am

Introductions and DR/DRA status, affiliations and guest status was determined.

Name	Membership Status	Affiliation
Johny Srouji	DR	Intel
Dennis Brophy	DR	Mentor Graphics
Vassilios Gerousis	DR	Accellera
Shrenik Mehta	DR	Sun Microsystems
Michael McNamara	DR	Verisity
Cliff Cummings	DR	Sunburst Design
Wolfgang Ecker	DR	Infineon
Victor Berman	DR	Cadence Design Systems
Rishiyur Nikhil	DR	Blue Spec
Lori Kate Smith	DRA	Verisity
Oz Levia	DR	Synopsys
Karen Pieper	DRA	Synopsys
Kevin Cameron	Guest	Altera
James Markevitch	Guest	Evergreen Technology Group
Eugene Zhang	Guest	Jeda Technologies
Charles Dawson	Guest	Cadence Design Systems
Stu Sutherland	Guest	Sutherland HDL, Inc.
Alec Stanculescu	Guest	Fintronic USA
Mehdi Mohtashemi	Guest	Synopsys
Stephen Sharp	Guest	Cadence Design Systems
Ron Goodstein	Guest	Consultant
Francoise Martinolle	Guest	Cadence Design Systems

2 APPROVE AGENDA

A motion (Vassilios Gerousis, Oz Levia) was made to approve the agenda. The motion was unanimously.

3 CALL FOR PATENTS

IEEE Patent slides were read and presented to the team by Secretary Brophy. (See <http://standards.ieee.org/board/pat/pat-slideset.ppt>)

4 REVIEW AND APPROVAL OF OUR JULY 1ST F2F MEETING MINUTES

The meeting minutes from the 1 July 2004 meeting were reviewed. The meeting minutes are located at <http://www.eda.org/sv-ieee1800/Meetings/2004/July/7-1-04MeetingMinutesApproved.pdf>.

A motion (Victor Berman, Michael McNamara) was made to approve the 1 July 2004 meeting minutes. The motion was unanimously.

The meeting minutes from the 21 July 2004 meeting were reviewed. The meeting minutes are located at <http://www.eda.org/sv-ieee1800/Meetings/2004/July/7-21-04MeetingMinutesApproved.pdf>.

A motion (Victor Berman, Oz Levia) was made to approve the 21 July 2004 meeting minutes. The motion was approved. [Vote: Yes=8; No=0; Abstain=2 (Michael McNamara, Shrenik Mehta)]

5 REVIEW AND FOLLOW-UP OF ACTION ITEMS

A list of action items and updated status from discussion can be found at: <http://www.eda.org/sv-ieee1800/Meetings/2004/August/P1800-WG-Action-Items-08-08-04.pdf>.

AI: No patent germane to the project was submitted, closed.

AI: The Synopsys patent info from Victor/Cadence DR was reviewed. Letter of Assurance from Synopsys was submitted to the IEEE. Victor indicates this does not comply with IEEE patent policy 6.1 a) and appears to part b) instead.

Action Request: [Johny Srouji] Contact PatCom for advice and review of this issue for seek a format of an assurance letter that we should use. A status report will be provided at our next meeting.

Action Request: [All] Issue Letters of Assurance in keeping with prescribe patent policy at next meeting.

AI: Steve Mills – How are ties broken has been placed into the updated P1800 P&Ps. Done.

AI: Johny Srouji – Make changes from face-to-face meeting in the body of the P&Ps. This was done and the sponsors approved. Done.

AI: Dennis Brophy – Supply a copy of Accellera assignment. Done.

AI: Dennis Brophy – Supply a copy of the unapproved CAG minutes. It was sent to Chair Srouji. Done.

AI: Dennis Brophy – Supply of IEEE-SA SAB minutes. Done.

AI: Dennis Brophy – Provide Accellera SystemVerilog 3.1a LRM in IEEE copyright format. Done.

AI: Dennis Brophy – Meeting logistics from Oz. Done.

AI: Dennis Brophy – Meeting logistics from Wolfgang. Pending.

AI: Dennis Brophy – Meeting logistics for 11 October 2004 meeting from Victor. Pending.

AI: Dennis Brophy – Seek JEITA SV-TC Chair support for a SV WG Meeting in Japan. Meeting date was left pending until contact is made with Hamaguchi-san.

AI: Johnny Srouji – Send Dennis the propose contract. Done. It is IEEE Confidential. How should it be shared?

Action Request: [Dennis Brophy] Determine how we keep their IEEE-SA confidential information for the record.

AI: Johnny/Vassilios – Present IEEE Funding to Accellera to be agent for money collections. Pending outcome of funding model being discussed.

AI: All – Get errata entered in to SV Webpage by 15 July. Done. Vassilios will present the details of this.

AI: Johnny Srouji – Initiate election of the errata technical sub-working group chair. Nominations open for two weeks and vote for two weeks. Done.

6 REVIEW AND APPROVE THE MODIFIED VERSION OF THE WG PROCESURES & POLICIES

A copy of the approved P&Ps was sent to the SV WG prior to the meeting with the changes approved at the 1 July 2004 meeting and some changes required by IEEE-SA.

(See: <http://www.eda.org/sv-ieee1800/Meetings/2004/August/P1800WG-P&P-2004-08-04.pdf>.)

7 REVIEW IEEE FUNDED SERVICES PROPOSAL FROM ED RASHBA AND FINALIZE A DECISION

The SV WG reviewed the funded services offered by the IEEE to Oz and Victor. What was negotiated was subordinate to approval of the working group. The sense from the working group was a more manageable amount was needed. Roles were refined and in summary, the achievement is a total fee of \$115K. The terms for payment was upfront and at signing. There is a payment schedule now to be done in four parts. It should span a couple fiscal years to accommodate non-budget expenditure. To hold the IEEE accountable, it is best not to pay for all services in advance. The IEEE must submit a work plan and a report twice a month on their status. Whoever manages it should be cognizant that the expenditures fit the plan. We need to review those reports to ensure they fit our budget. Since this is time and materials, we need to ensure we pay the IEEE for things that they do.

Should competitive bids be sought as well? This is being sole sourced with the IEEE since they have the inside track on internal operations. By working directly with the IEEE, they bring focus within the IEEE that any other bidders cannot offer.

On T&M we should get an estimate of the hours that this includes in the cost for each the items to determine how fast each of the categories is being depleted and used.

Action Request: [Oz Levia, Victor Berman] Work with IEEE-SA to include information in the agreement that allows us to track time/cost usage and reports on a monthly basis.

[The agreement is not part of the meeting minutes being labeled IEEE Confidential. Contact Chair Srouji for a copy if needed.]

A motion (Vassilios Gerousis, Michael McNamara) was made to accept this proposal with the additions of the actions Oz/Victor have to negotiate with the IEEE. The motion was unanimously approved.

A motion (Vassilios Gerousis, Michael McNamara) was made to appoint Oz and Victors as monitors to oversee the IEEE progress against plan in this contract. The motion was unanimously approved.

8 DISCUSS FUNDING ALTERNATIVE AND RESOURCES FOR THE OPERATION OF P1800 SYSTEMVERILOG WG

Accellera, as sponsor, should take a lead on funding this project. Standard sponsors play a key role and their interest in the success of the IEEE process would suggest appropriate financial support in addition to IEEE WG self-funding. It is suggested that level Accellera funding level should be \$60K, which is about 50% of the IEEE Funded Services program cost. The balance should come from an annual fee of the SV WG members with payments due in late 2004 and early 2005.

A motion (Oz Levia, Michael McNamara) was made to request Accellera to administer, collect and dispense the funds on behalf of the working group and as the sponsoring entity and contribute \$60K towards the IEEE Funded Services program. The motion was unanimously approved.

Action Request: [Vassilios Gerousis] Request \$60K to cover partial cost of IEEE Funded Services program and have Accellera act as administrator for the collection of all other fees.

A motion (Oz Levia, Dennis Brophy) was made to assess the present and future members of the working group, a special 2-year annual participation fee based on the following Pricing Scale to cover the IEEE Funded Services program with the first payment due on or before December 1, 2004 and the second payment due on or before February 1, 2005. A company will owe the participation fee for the year in which they join and will be due within 30-days of joining. Failure to pay the participation fee will result in suspension of voting privileges. The motion was approved. [Vote: Yes=9; No=1 (Wolfgang Ecker); Abstain=0]

Pricing Scale	
Revenue	Fee
Under \$10M	\$0
\$10M – \$100M	\$1,000
\$100M – \$1B	\$3,000
Over \$1B	\$5,000

With this Pricing Scale, we would have 5 \$5K, 1 \$3K and 1 \$1K payments.

9 REVIEW ERRATA TECHNICAL COMMITTEE STATUS REPORT OF “ERRATA” THAT HAS BEEN SUBMITTED AND CAPTURED

Vassilios Gerousis created a presentation after the 6 August 2004 Errata Technical Subcommittee meeting. (See: <http://www.eda.org/sv-ieee1800/Meetings/2004/August/SV-1800-Errata-August2004.pdf>) Karen Pieper presented it to the SV WG. Most of the errata submitted to date appear to be simple issues that can be easily corrected.

As set of developers will offer proposals as solutions to the errata that have been entered into the system. These solutions will be presented to the SV WG for approval.

The recommendation is that the SV WG picks a date to drive the errata group to close on the open issues.

Action Request: [Errata Technical Sub-Working Group] Define the process to get errata moved, addressed and approved by the SV WG. A method for those who do not have access to the database needs to also be put into place.

10 ERRATA TECHNICAL COMMITTEE ELECTION RESULTS

Karen Pieper has been elected to be the chair of the Errata Technical Sub-Working Group. The election closed 9 August 2004, but all votes were in before the close of the vote.

11 DISCUSS OPTIONS OF ALIGNING ERRATA DATA CAPTURES IN 1364 AND IN THE RELEVANT SYSTEMVERILOG COMMITTEES

Johny has put in front of the SV WG some slides to trigger discussion to present the SV WG objectives. The presentation can be found at <http://www.eda.org/sv-ieee1800/Meetings/2004/August/P1800-Proposed-Structure-08-01-04.pdf>.

All errata submitted after 13 September 2004 may be considered for inclusion in the standard, but it is not guaranteed.

Action Request: [All] Errata to be considered for inclusion in the standard must be submitted to the SVDB (<http://www.eda.org/svdb/>) by 1 September 2004.

Action Request: [Karen Pieper] To produce a cataloged and prioritized list of errata and report this to the SV WG at its next meeting.

A motion (Vassilios Gerousis, Oz Levia) was made to accept the dates for errata to be considered for inclusion in the standard and for the cataloged and prioritized list to be presented to the SV WG. The motion was unanimously approved.

A motion (Victor Berman, Cliff Cummings) was made that any inconsistency that is discovered between Verilog-2001 and SystemVerilog reference manual should be considered an erratum and addressed. The motion was unanimously approved.

Action Request: [Johnny Srouji] Identify people that could perform the role of the LRM Manager and DR tracker. Those people will be contacted to see if they would accept the role.

The role of SV WG Webmaster was discussed and Chair Srouji asked if Dennis would accept the role. Dennis accepted the role of SV Webmaster.

12 DISCUSS P1800 SYSTEMVERILOG WG STRUCTURE AND OPERATION WITH RESECT TO 1364 TECHNICAL GROUPS (PENDING NESCOM APPROVAL OF REVISED PAR)

Chair Srouji continued the presentations of his slides that included discussion of what should be done with the 1364 group integration within SV WG.

A motion (Cliff, Victor) was made that subgroup members and observers may vote following the same attendance requirements as the WG as individuals on questions within all subgroups. Any resolution of a subgroup shall be subject to confirmation by the WG. The motion was unanimously approved.

Action Request: [Johnny Srouji] Identify a small ad-hoc group that would report back to the SV WG on the future alignment of 1364 with SystemVerilog. Victor will lead and Cliff, Alec and Karen along with the BTF and PTF chair and co-chairs will participate to create the report. The report will be presented to the SV WG at the October meeting. Data types issues should be filed to ensure they are addressed.

13 FINALIZE A HIGH LEVEL SCHEDULE OF OUR WORK AND MAJOR MILESTONES

Chair Srouji shared a spreadsheet with milestones and dates. The timeline can be found at <http://www.eda.org/sv-ieee1800/Meetings/2004/August/timeline.pdf>.

To get to the 1 October 2004 Initial Draft Standard, we need to address (1) the IEEE FrameMaker template and (2) the IEEE language style issues. The contracts should be in place by the beginning of September to meet these dates.

The 2nd draft can be completed by 1 February 2005, which allows about 8 meetings to be held every two weeks. Karen Pieper confirmed that this is possible to do.

14 NEW BUSINESS

None.

15 NEXT MEETING

The next meeting date is 14 September 2004 in Frankfurt, Germany. If Cliff's class does not cancel, we move it back to 13 September 2004.

16 ADJOURNMENT

A motion (Oz Levia, Shrenik Mehta) was made to adjourn the meeting. The meeting was adjourned at 3:35 p.m. PDT.