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22 March 2007

Victor Berman
victorb@improvsys.com

Re: P1699 - Standard for the Rosetta Systems Level Design Language Definition

Dear Victor:

I am pleased to inform you that on 22 March 2007 the IEEE-SA Standards Board approved the above referenced project until 31 December 2011. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1699.pdf>.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

For your convenience, an Excel spreadsheet for your use has been posted on our website at <http://standards.ieee.org/guides/par/roster.xls>. Please forward this list to me via e-mail at s.hampton@ieee.org no later than 20 June 2007.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any further questions, please contact me at +1 732 562 6003 or by email at s.hampton@ieee.org.

Sincerely,

Sherry Hampton
Administrator, Governance

Standards Activities

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PAR Request Date: 09 February 2007**PAR Approval Date:** 22 March 2007**PAR Signature Page on File:** Yes**Type of PAR:** New IEEE Standard**Status:** PAR for a New IEEE Standard**Root Project:****1.1 Project No.:** 1699**1.2 Type of Document:** Standard**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

Standard for the Rosetta Systems Level Design Language Definition

3.1 Working Group Name [Rosetta Systems Level Design Language Working Group](#)**Working Group Chair**
[Alexander, W. Perry](#)
Phone: 785-864-7741
Email: perry.alexander@ieee.org**Working Group Vice Chair****3.2 Sponsor** [IEEE Computer Society Design Automation \(C/DA\)](#)**Sponsor Chair**
[Berman, Victor](#)
Phone: 978-927-0555
Email: victorb@improvsys.com**Name of Standards Liaison Representative (if applicable)****3.3 Joint Sponsor****4.1 Type of Ballot:** Individual**4.2 Expected Date of Submission for Initial Sponsor Ballot:** June 2008**4.3 Projected Completion Date for Submittal to RevCom:** January 2009**5.1 Approximate number of people expected to work on this project:** 15**5.2 Scope:** This standard presents the Rosetta specification language and its base collection of domains. The language definition specifies concrete and abstract syntax, denotational semantics for language constructs, and required libraries for AST definition and reflection. The domain definition specifies a collection of base modeling domains required of all Rosetta implementations. The document includes both formal definitions and descriptive text.**5.3 Is the completion of this document contingent upon the completion of another document?** No**5.4 Purpose:** As electronic system complexity continues to grow, so does the need to integrate design information from multiple, heterogeneous design domains, each with their own vocabulary and semantics. The primary purpose of the Rosetta Standard is to define language and semantic support for designing such system. Specifically, this standard defines a language for developing, composing and analyzing specification models from multiple, concurrent domains.

5.5 Need for the Project: In the late 1990's, the Semiconductor Industry Council identified requirements for a system-level design language motivating Rosetta language development. Rosetta allows systems architects to assess design trade-offs at the system level, mix specifications from multiple domains, and predict emergent interactions between subsystems. It allows system engineers and IP providers to define design constraints as first-class models. Finally, it provides a precise, formal semantics for tool vendors supporting formal and semi-formal analysis and integration of analysis results. Rosetta stakeholders recognize the importance of standards in mitigating risk making ad hoc or proprietary languages unacceptable. Thus, a standard is required for wider adoption in industry and academia.

5.6 Stakeholders for the Standard: Electronic system architects, systems engineers, electronic design automation tool vendors, design engineers and intellectual property (IP) providers are the stakeholders.

6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes Presented Date: 2006-11-15

If no, please explain:

6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? Yes

If yes, please explain: Copyright for the current draft standard is held by Ashenden Designs, LTD PTY. They have agreed to assign the copyright to IEEE should this project be approved. Documentation of this agreement has already been obtained.

6.1.c. Is the Sponsor aware of possible registration activity related to this project? No

If yes, please explain:

7.1 Are there other standards or projects with a similar scope? No

If yes, please explain:

Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

7.2 Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization? ? Do not know at this time

Technical Committee Name and Number:

Contact person:

Contact person Phone Number:

Contact person Email Address:

7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety? No

7.4 Additional Explanatory Notes:

8.1 Sponsor Information:

Is the Scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

If no, please explain: