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15 September 2006

Chuck Adams  
IBM  
North Castle Drive  
Armonk, NY 10504  
wcadams@us.ibm.com

Re: P1685 - IP-XACT, Standard Structure for Packaging, Integrating and Re-using IP within Tool-flows

Dear Chuck:

I am pleased to inform you that on 15 September 2006 the IEEE-SA Standards Board approved the above referenced project until 31 December 2009. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1685.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](mailto:s.hampton@ieee.org) no later than 14 December 2006.

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. Specifically for entity projects, please be aware that baseline entity sponsor procedures (<http://standards.ieee.org/corpforum/cag/sponsor.html>) and entity working group procedures (<http://standards.ieee.org/corpforum/cag/wgproc.html>) are available for your use. Guides to the policies and procedures of entity standardization can be found at <http://standards.ieee.org/corpforum/participation/corpstdspandp.html>.

You should also be aware that anyone who wishes to earn and maintain voting rights in an entity working group must pay an annual entity project participation fee. An initial roster of contacts who have

indicated an interest in becoming a voting member of the working group and who therefore should be invoiced for this fee shall be submitted to Lauren Wright – Administrator, Business Development via email at [l.wright@ieee.org](mailto:l.wright@ieee.org) no later than two weeks from the date of this letter.

If you have any questions about the rules of entity project development, please contact Mary Lynne Nielsen at [m.nielsen@ieee.org](mailto:m.nielsen@ieee.org).

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](mailto:s.hampton@ieee.org).

Sincerely,

Sherry Hampton  
Administrator, Governance  
Standards Activities  
Phone +1 732 562 6003  
FAX +1 732 875 0695  
Email: [s.hampton@ieee.org](mailto:s.hampton@ieee.org)

CC: [vberman@cadence.com](mailto:vberman@cadence.com), [vberman@cadence.com](mailto:vberman@cadence.com)

**PAR Request Date:** 28 June 2006**PAR Approval Date:** 15 September 2006**PAR Signature Page on File:** Yes**Type of PAR:** Modification to Approved PAR**Status:** Modification to a Previously Approved PAR P1685, 11 August 2005**Root Project:** New Project**1.1 Project No.:** **P1685****1.2 Type of Document:** Standard**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

IP-XACT, Standard Structure for Packaging, Integrating and Re-using IP within Tool-flows

**Old Title**

Standard Structure for Packaging, Integrating and Re-using IP within Tool-flows, (SPIRIT).

**2.1 Amendment/Corrigenda Title****3.1 Working Group Name**[SPIRIT Standardization Working Group](#)**Working Group Chair**[Berman, Victor](#)

Phone: 978-262-6560

Email: vberman@cadence.com

**Working Group Vice Chair****3.2 Sponsor**[IEEE-SA Board of Governors Corporate Advisory Group \(BOG/CAG\)](#)**Sponsor Chair**[Adams, Chuck](#)

Phone: 914-765-4382

Email: wcadams@us.ibm.com

**Name of Standards Liaison Representative (if applicable)****3.3 Joint Sponsor**[IEEE Computer Society Design Automation \(C/DA\)](#)[Berman, Victor](#)

Phone: 978-262-6560

Email: vberman@cadence.com

**4.1 Type of Ballot:** Entity**4.2 Expected Date of Submission for Initial Sponsor Ballot:** June 2007**4.3 Projected Completion Date for Submittal to RevCom:** December 2007**5.1 Approximate number of people expected to work on this project:** 15

**5.2 Scope:** This standard describes an XML Schema for meta-data documenting Intellectual Property (IP) used in the development, implementation and verification of electronic systems and an Application Programming Interface (API) to provide tool access to the meta-data. This schema provides a standard method to document IP that is compatible with automated integration techniques. The API provides a standard method for linking tools into a System Development framework, enabling a more flexible, optimized development environment. Tools compliant with this standard will be able to interpret, configure, integrate and manipulate IP blocks that comply with the proposed IP meta-data description. The proposed standard is based on version 1.4 IP-XACT of The SPIRIT Consortium. The standard is independent of any specific design processes. It does not cover those behavioral characteristics of the IP that are not relevant to integration.

**Old Scope:** This standard describes a meta-data schema for the description of Intellectual Property (IP) and an Application Programming Interface (API) to provide tool access to this schema. This schema provides a standard method to describe IP that is compatible with automated integration techniques. The API provides a standard method for linking tools into an IP framework, enabling a more flexible, optimized development environment. Tools compliant with this standard will be able to interpret, configure, integrate and manipulate IP blocks that comply with the proposed IP meta-data description. The proposed project will create an IEEE standard based on version 1.5 of the SPIRIT schema and API. The IEEE will refine the schema and API and clarify how they are used in the context of hardware design languages such as IEEE 1364 Verilog, IEEE 1666 SystemC, and IEEE 1076 VHDL.

**5.3 Is the completion of this document contingent upon the completion of another document?** No

**5.4 Purpose:** This standard enables the creation and exchange of IP in a highly automated design environment

**Old Purpose:** The purpose of this project is to provide a well-defined meta-data schema to define the characteristics of Intellectual Property (IP) required for the automation of the configuration and integration of IP blocks; and to define an Application Programming Interface (API) to make this meta-data directly accessible to automation tools.

**5.5 Need for the Project:** As designs get larger and more complex, the electronics industry is using increasing numbers of IP blocks in those designs. The lack of a standard description of those blocks makes their use difficult and error. This lack of a standard imposes a substantial financial burden on the electronics industry. This standard will help to solve this problem.

**5.6 Stakeholders for the Standard:** Stakeholders for this standard include EDA vendors, IP vendors, electronic systems builders and IC manufacturers.

**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:** 2005-06-03

If no, please explain:

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

If yes, please explain: The standard will be based on material owned by The SPIRIT Consortium. They have agreed to transfer the copyright of this material to the IEEE for use in this proposed standard.

**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?** ? Yes

**Technical Committee Name and Number:** IEC TC93 WG2

**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: