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23 August 2007

Paul R Croll
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Re: P1723 - Standard for SOA (Service-Oriented Architecture) Solution Reference Architecture

Dear Paul:

I am pleased to inform you that on 22 August 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/1723.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 November 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
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Standards Activities
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PAR Request Date: 04 June 2007**PAR Approval Date:** 22 August 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.:** 1723**1.2 Type of Document:** Standard**1.3 Life Cycle:** Trial-Use**1.4 Is this document in ballot now?** No**2.1 Title**

Standard for SOA (Service-Oriented Architecture) Solution Reference Architecture

3.1 Working Group Name[SOA and Web Services](#)**Working Group Chair**[Zhang, Liang-Jie \(LJ\)](#)

Phone: +1 914 784 6132

Email: zhanglj@us.ibm.com

Working Group Vice Chair**3.2 Sponsor**[IEEE Computer Society Software & Systems Engineering Standards Committee \(C/S2ESC\)](#)**Sponsor Chair**[Croll, Paul R](#)

Phone: 540-644-6224

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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:** September 2007**4.3 Projected Completion Date for Submittal to RevCom:** March 2008**5.1 Approximate number of people expected to work on this project:** 10

5.2 Scope: This document provides a standard protocol for creating service-oriented solution architecture. This protocol is independent of the underlying implementation and products used to realize the service-oriented architecture (SOA) based solutions. This protocol is usable in all classes of solution scenarios. This standard is limited to design and modeling of service-oriented solution architecture and does not include design or modeling of service-oriented implementation and supporting infrastructures.

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

5.4 Purpose: There is currently no defined, independent standard for designing and modeling service-oriented solutions based on service-oriented architecture (SOA). Each vendor builds some design and architectures into the underlying programming language or business process flows. Without an independent, openly defined protocol, applications and other solutions cannot automatically determine the type of solution being communicated and integrated. This protocol provides a minimum implementation subset that allows automatic identification and configuration of service-oriented solutions and vendor extensibility, which will provide for growth and product differentiation.

5.5 Need for the Project: There are significant challenges in creating an SOA solution. For example, from a technical perspective, the architect needs to answer the question “How do we produce an SOA solution using a well-defined notation?” Or, “ How can an SOA solution be organized as an architectural framework with inter-connected architectures and transformation capabilities? How can an SOA solution be designed in a manor that maximizes asset reuse? How can automated tools take the guess work out of architecture validation and artifact generation?” In order to address these issues, this standard presents an SOA Solution Reference Architecture that includes a layered architectural stack and construction protocols for designing and modeling an SOA based solution. It provides a high level abstraction of an SOA factored into layers, each of which addresses specific value propositions within SOA. Underlying this layered architecture is a meta-model consisting of layers, architectural building blocks (ABB), relations between ABB’s and between layers, interactions patterns, options and architectural decisions. These will guide the architect in the creation of the architecture. An architectural building block represents a basic element of reusable functionality that can be realized by one or more components or products; examples include: a service definition, a messaging mediation etc.

5.6 Stakeholders for the Standard: This standard may be used by all industries as long as they are moving to SOA for creating flexible, extensible, and configurable solutions. This includes all practitioners including end users and designers.

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: 2006-06-30

If no, please explain:

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

If yes, please explain: June 4, 2007: Highlighted on IEEE Computer Society site: www.computer.org S3: A Service-Oriented Reference Architecture (pdf) The Service-Oriented Solution Stack provides an architectural framework based on a range of industry best practices. From IT Professional Magazine Paper Link: http://www.computer.org/portal/cms_docs_itpro/itpro/homepage/2007/may_june/f3010.pdf The proposed standard is built on top of this paper's contribution and inputs from other IEEE SA members.

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:

We would like to build "TCP/IP" like protocols for building SOA solutions.

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: