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10 June 2005

Robby Robson
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Corvallis, OR 97330-1746
rrobson@eduworks.com

Re: P1484.11.4 - Standard for Learning Technology - Reference Model for Resource Aggregation for Learning, Education and Training

Dear Robby:

I am pleased to inform you that on 09 June 2005 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/1484-11-4.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 j.haasz@ieee.org no later than 07 September 2005.

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 732-562-6367 or by email at j.haasz@ieee.org.

Sincerely,

Jodi Haasz
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Standards Activities
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CC: kblinco@powerup.com.au

PAR FORM

PAR Status: New PAR

PAR Approval Date: 2005-06-09

PAR Signature Page on File: Yes

1. Assigned Project Number: P1484.11.4

2. Sponsor Date of Request: 2005-04-27

3. Type of Document: Standard for

4. Title of Document:

Draft: Standard for Learning Technology - Reference Model for Resource Aggregation for Learning, Education and Training

5. Life Cycle: Full-Use

6. Type of Project:

6a. Is this an update to an existing PAR? No

6b. The Project is a: New Standard

7. Working Group Information:

Name of Working Group: Computer Managed Instruction (1484.11)

Approximate Number of Expected Working Group Members:25

8. Contact information for Working Group Chair:

Name of Working Group Chair: Kerry Blinco

Telephone: +61 419 787 922 **FAX:**

Email: kblinco@powerup.com.au

9. Contact information for Co-Chair/Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair:

Name of Co-Chair/Official Reporter, Project Editor or Document Custodian:

Telephone: **FAX:**

Email:

10. Contact information for Sponsoring Society or Standards Coordinating Committee:

Name of Sponsoring Society and Committee: Computer Society Learning Technology Standards Committee

Name of Sponsoring Committee Chair: Robby Robson

Telephone: +1-541-754-1215 **FAX:** +1-541-754-7718

Email: rrobson@eduworks.com

Name of Liaison Rep. (if different from the Sponsor Chair):

Telephone: **FAX:**

Email:

Name of Co-Sponsoring Society and Committee:**Name of Co-Sponsoring Committee Chair:****Telephone: FAX:****Email:****Name of Liaison Rep. (if different from the Sponsor Chair):****Telephone: FAX:****Email:****11. The Type of ballot is:** Individual Sponsor Ballot**Expected Date of Submission for Initial Sponsor Ballot:** April 2006**12. Projected Completion Date for Submittal to RevCom:** April 2007**Target Extension Request Information for a Modified PAR whose completion date is being extended past the original four-year life of the PAR:****13. Scope of Proposed Project:**

This Standard defines a reference model that includes a nomenclature and a conceptual model for digital aggregates of resources for learning, education, and training applications. This Standard facilitates interoperability by enabling the interpretation of externalized representations of resource aggregates and their properties. Particular internal compositions and behaviors of resources are not specified nor are any particular means or methods for processing resource aggregates.

Is the completion of this document contingent upon the completion of another document?

No

14. Purpose of Proposed Project:

Currently, resource aggregates used in learning, education, and training applications are represented in a variety of formats and are defined in a variety of specifications. Examining the commonalities and differences among different representations of resource aggregates reveals that these formats and specifications sometimes lack a documented nomenclature and underlying conceptual model. Without a common nomenclature and conceptual model to inform the interpretation of these formats and specifications, it is difficult to create applications that can interoperate. This Standard facilitates interoperability by providing a nomenclature and conceptual model that can be used to represent a variety of resource aggregation formats and specifications. Interoperability may be achieved by facilitating the creation of crosswalks among the various aggregation formats and specifications and by enabling the development and evolution of standards and specifications.

15. Reason for the Proposed Project:

Resource aggregation is the process of aggregating resources so that the resulting resource aggregate can be used in one or more applications, such as delivery to users, transmission, and storage.

A physical analogy for resource aggregate is a music CD. The CD can be viewed as a container

for resources (the digital files that encode the songs) and metadata (titles of the songs, length of the songs, artists etc.) The combination of the medium, resources and metadata is an example of a resource aggregate. In the digital world, resources are generally shipped around with XML wrappers and often contain more than just resources and descriptive metadata. The resources may just be references to resources and the aggregate may contain processing instructions, rights management information, information about the relation among resources etc. Different communities, such as the multimedia community, library community, technical documentation community, and the learning technology community have created their own specifications and standards for resource aggregates and wish to interchange resource aggregates between the communities and systems.

The LTSC CMI Working Group is undertaking a project to produce an IEEE standard that will define a reference model that includes a nomenclature and a conceptual model for digital aggregates of resources for learning, education, and training applications. The standard will facilitate interoperability by enabling the interpretation of externalized representations of resource aggregates and their properties. Particular internal compositions and behaviors of resources will not be specified nor will be particular means or methods for processing resource aggregates.

The stakeholders for the project are:

Designers, Developers, and Vendors of Learning Management Systems

Designers, Developers and Vendors of Content Management Systems and Content Repositories

Content Developers, Publishers and Aggregators

Bodies specifying resource aggregation standards

Content consumers

16. Intellectual Property:

- a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-04-21
- b. Is the sponsor aware of copyright permissions needed for this project?** No
- c. Is the sponsor aware of trademarks that apply to this project?** No
- d. Is the sponsor aware of possible registration activity related to this project?** No

17. Are there other documents or projects with a similar scope? No

Similar Scope Project Information:

18. Is there potential for this document (in part or in whole) to be adopted by another national, regional or international organization? Yes

If yes, the following questions must be answered:

Organization Name? ISO/IEC JTC1 SC36

**Technical
Committee**

International Bruce E Peoples
Contact Raytheon Technical Services Company
Information? 12160 Sunrise Valley Drive
Bldg 602, Office332
Reston, VA 20191
Bruce_E_peoples@raytheon.com

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

If yes, please explain:

20. Sponsor Information

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

If no, please explain:

b. The Sponsor's procedures have been accepted by the IEEE-SA Standards Board Audit Committee? Yes

21. Additional Explanatory Notes: (Item Number and Explanation)