TECHNICAL REPORT

ISO/IEC TR 29163-2

First edition
2009-12-15

Information technology — Sharable Content Object Reference Model (SCORM®) 2004 3rd Edition —

Part 2: Content Aggregation Model Version 1.1

Technologies de l'information — Modèle de référence d'objet de contenu partageable (SCORM®) 2004 3e édition —
Partie 2: Modèle d'agrégation de contenu Version 1.1

Reference number
ISO/IEC TR 29163-2:2009(E)

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Published in Switzerland

Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

In exceptional circumstances, the joint technical committee may propose the publication of a Technical Report of one of the following types:

— type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;

— type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;

— type 3, when the joint technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC TR 29163-2, which is a Technical Report of type 3, was prepared by the Advanced Distributed Learning (ADL) Initiative (as SCORM® 2004 3rd Edition Content Aggregation Model Version 1.1) and was adopted, under a special "fast-track procedure", by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by the national bodies of ISO and IEC.

ISO/IEC TR 29163 consists of the following parts, under the general title *Information technology — Sharable Content Object Reference Model (SCORM®) 2004 3rd Edition*:

— *Part 1: Overview Version 1.1*

— *Part 2: Content Aggregation Model Version 1.1*

— *Part 3: Run-Time Environment Version 1.1*

— *Part 4: Sequencing and Navigation Version 1.1*

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Advanced Distributed Learning (ADL)

SCORM® 2004 3rd Edition Content Aggregation Model (CAM) Version 1.1

For questions and comments visit
Ask The Experts at ADLNet.gov

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Acknowledgements

ADL would like to thank the following organizations and their members for their continued commitment to building interoperable e-learning standards and specifications:

Alliance of Remote Instructional Authoring & Distribution Networks for Europe (ARIADNE) (http://www.ariadne-eu.org/)

Aviation Industry CBT Committee (AICC) (http://www.aicc.org/)

Institute of Electrical and Electronics Engineers (IEEE) Learning Technology Standards Committee (LTSC) (http://ltsc.ieee.org/)

IMS Global Learning Consortium, Inc. (http://www.imsglobal.org/)

ADL would also like to thank the ADL Community for their commitment and contribution to the evolution of SCORM.

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SECTION 1
SCORM® Content Aggregation Model (CAM) Overview

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1.1. Introduction to the SCORM Content Aggregation Model (CAM) Book

The Sharable Content Object Reference Model (SCORM) is often described as a set of books on a bookshelf. The Content Aggregation Model (CAM) book is one of a set of books (refer to Figure 1.1a: *The Content Aggregation Model Book as Part of the SCORM Bookshelf*). More information on the other SCORM books and their relationships to one another can be found in the SCORM 2004 3rd Edition Overview book. The SCORM CAM book describes the components used in a learning experience, how to package those components for exchange from system to system, how to describe those components to enable search and discovery and how to define sequencing information for the components. The SCORM CAM promotes the consistent storage, labeling, packaging, exchange and discovery of learning content.

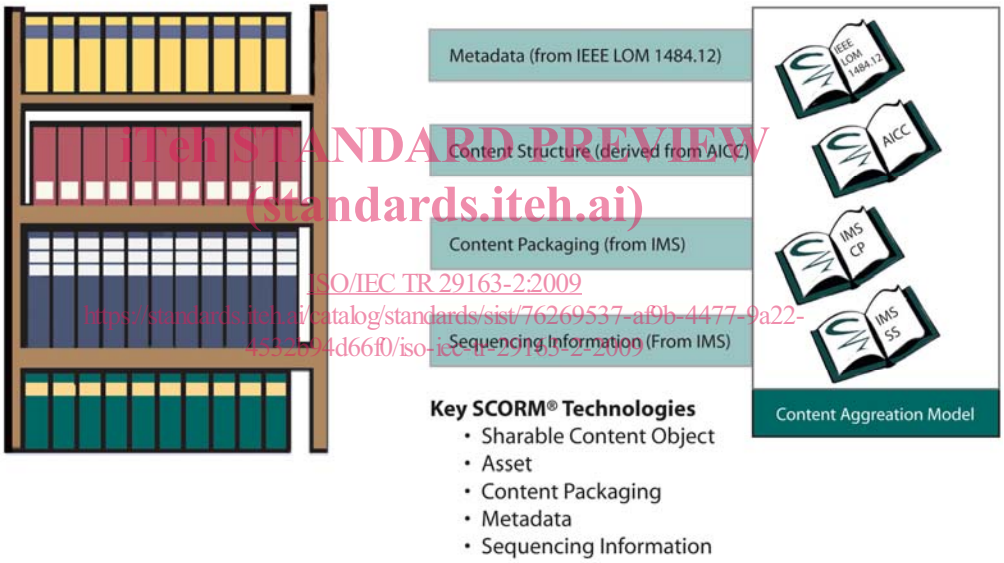

Figure 1.1a: The SCORM Content Aggregation Model Book as Part of the SCORM Bookshelf

1.1.1. What is Covered in the SCORM Content Aggregation Model (CAM) Book?

There are several key concepts that are introduced in the SCORM CAM book. The book describes responsibilities and requirements for building content and content organizations (e.g., course, lessons, modules, etc.). The book contains information on creating content packages, applying metadata to the components in the content package and applying sequencing and navigation details in the context of a content package. SCORM Content Packaging, as described in this book, provides a consistent form for describing content structures, learning content, the metadata that describes the various components of the content structures and sequencing and navigation rules. This consistency facilitates