

# Brazilian Proposal for Agent-Based Learning Objects Metadata Standard - OBAA

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**Abstract.** This paper presents the Agent Based Learning Objects - OBAA standard proposal. The main goal of the research was to establish a standardized specification of the technical and functional requirements of interoperable learning objects. In our context, interoperability regards the operation of the content inside Web, Digital TV and mobile environments, supporting accessibility and pedagogical issues. In this proposal it has been explored the convergence among the multi-agent systems, learning object and ubiquitous computing technologies, allowing the authoring, storage and recovery of learning object in varied contexts and through different digital platforms. The result of this research was the definition of the OBAA proposal containing the requirements, specifications and architectures that will compose the Brazilian standard for the management, transmission, storage, search, editing and use of interoperable learning object.

**Keywords:** Learning Objects, Agents, Metadata Standard, OBAA.

## 1 Introduction

The Learning Technology Standards Committee [3] defines a Learning Object as "any entity, digital or non-digital, which can be used, re-used or referenced during technology supported learning". These learning objects require metadata in order to be indexed, retrieved and reused in repositories, the Learning Object Repositories. The learning object metadata consists in a specification describing the educational content in terms of technical and pedagogical aspects. Wiley [11] considers that metadata are formed by a set of information to describe a resource using a standardized structure, making possible the retrieval and access of the learning object, i.e. data about the data.

Several authors use metaphors to explain metadata. Silva [12] for instance, compares it to labels identifying the contents of a learning object, describing how,

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