E-Learning Standards

This page describes some of the technical standards relevant to E-Learning and potentially relevant to users of SAP LSO / Enterprise Learning or others working in the e-learning space. There a lot of standards and draft standards out there, and this page covers the ones that are most significant and potentially useful.

**AICC HACP**

The AICC are an Aviation industry body who have made standards to help the commercial training world, inspired by the need of aviation manufacturers to have training that will last a long time and be usable throughout the life of an aircraft or aircraft component. Its main use is to deliver content within a Learning Management System. If you create content that can be run by AICC HACP, then it can be run by most learning management systems.

AICC HACP is particularly strong for content that is delivered off another server, and is generally considered more secure than SCORM.

See AICC and AICC Compliance for other pages on this wiki about AICC.

**AICC PENS**

The Package Exchange Notification Services standard from AICC is a newer and much less widely used standard from the AICC, than AICC HACP.

It lets you easily upload a learning content package from an authoring system to a learning management system and so makes it easier to link a learning management system to content.

**HR-XML**

HR-XML is an independent consortium who provide XML for use in an HR context.

It includes functions for requesting assessments and reporting on the results of an assessment. It's more used by recruiting companies than learning companies, but is getting increasing traction and use internationally.

SAP are members of the HR-XML consortium.

**IEEE LOM**

The IEEE LOM (IEEE 1484.12.1) is a metadata standard that describes how metadata for learning objects should be described.

See http://en.wikipedia.org/wiki/Learning_object_metadata for more on IEEE LOM.

**IMS Content Packaging**

IMS Content Packaging is used to describe learning content with an XML manifest and package it in a zip file format. It's used within SCORM and is widely adopted as a way of indexing content.

**IMS QTI XML**

IMS Question and Test Interoperability format is an XML format for describing questions and tests to allow them to be exported from one system and imported into another system. Since it takes a great deal of time to write good questions, it's important that they are interoperable and can be moved from one system to another.

Version 1.2 of IMS QTI is widely adopted and used. IMS are in the process of introducing version 2, which may in time take over.

**SCORM**

SCORM is a standard introduced by the ADL, funded by the US Government. Its main use is to deliver content within a Learning Management System. If you create content that is SCORM compliant, you can deliver it in a SCORM compliant Learning Management System. So you create once and can use in many places.

SCORM is particularly strong for standalone content (e.g. HTML or Flash) but can also be used to deliver server to server content.

There are two versions of SCORM commonly used - SCORM 1.2 and SCORM 2004. Both are supported by SAP.

See Overview of SCORM 1.2 and SCORM 2004 and SCORM for other pages on this wiki about SCORM.