E-Learning Standard Promotion in Japan

- Conformance Program and Platform development -

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Advanced Learning Infrastructure Consortium/

e-Learning Consortium Japan/

NTT-X

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Conformance Program in Japan







ALIC (Advanced Learning Infrastructure Consortium) Interoperability Committee

eLC (e-Learning Consortium Japan)
Conformance Committee

- Certification of 14 platforms last year
 (April 2002~March 2003)
- ◆This year's (April 2003 ~March 2004) main activities will revolve around **contents certification**



Platform Certification

- Certification of 14 platforms last year (April 2002~March 2003)
 - One from US and one form Korea are included

 ADL Test Suite Multilingual Certificating Tool is planned to be adopted for the next (3rd) certificating test

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	Date of Practice	Number of Application	Number of Certification	Test Tool	
The 1 st Certification	Dec. 3rd, 2002	10	9	·Tool developed by eLC	
The 2 nd Certification	Mar. 25th, 2003	4	5	·Tool developed by eLC ·ADL Test Suite 1.2.3	
The 3 rd Certification	Feb 24th, 2004	2		·Tool developed by eLC ·ADL Test Suite 1.2.5 Multilingualized version	
Total		16	14		



Issues from Implementation Experience

- Questionnaire Survey by eLC Conformance Committee
 - Results of the questionnaire regarding interoperability problems (14 out of 17 companies)
 - Within SCORM specification; mandatory elements: 8 cases
 - Within SCORM specification; optional elements: 4 cases
 - Outside SCORM specification; 6 cases
- Lack of Information about LMS Specification
 - Implementation detail
 - Usage of optional elements
- Gap of Knowledge and Skills between
 LMS Engineers and Contents Engineers

Issues from Implementation Experience

Research result of Interoperability Problems

No.	Problem Category	Component/Reason	Numer of Questionnaire Returned	Percentage (%)	Solution
SCORM	SCOPM Standard Violation	LMS	1	9	Product revising (*2)
1	SCORM Standard Violation (mandatory element)	Content	2		
	(mandatory element)	Authoring tool	1		
2 SCORM Standard	SCOPM Standard Violation	LMS	0	7	
	(optional element)	Content	3		
	(optional element)	Authoring tool	0		
		Ambiguity of the specification	4	22	Preparation of additional instruction for SCORM (*3)
3	Issues caused by SCORM specification	Misleading description, shortage of explanation	6		
4	Problem out of the scope of SCORM		16		Preparation ofadditional standard for SCORM
5	Other requirements		12	26	Publication of the information etc.
Total			45	100	

(*1) All survey target is eLC member company

Number of all target: 112

Number of responding target: 60 Number of target with problems: 30

(*2) Training for skilled SCORM engineer by eLC SCORM assessor SCORM tutorial publication

(*3) Need cooperation with ADL and other orbganization 2004/01/30



Examples of the Problems

- Problems of Specification
 - Issues related to MasteryScore
 - Shall passing threshold be set in manifest or SCO?
 - MasteryScore is mandatory or optional?
- Problems out of scope of the Specification
 - Capital letter / small letter
 - Sometimes it is ambiguous in the spec., and it matters on Unix or Java platform, resulting trouble
 - Navigation GUI design
 - LMS side policy is required since content cannot control it



eLC SCORM Assessor Program

- Launch of the eLC SCORM Assessor Program
- System whereby an assessor is placed within the vendor and examines the contents of his/her company
- 3-day seminar held by eLC (tentative)
 - Engineers from the contents vendors participate
 - How to create contents that comply with SCORM
 - How to solve interoperability problems
 - Those who pass the tests become assessors
- The assessor tests the contents by following given procedures
- Examined contents are applied to eLC
- eLC approves the contents as being compliant with SCORM
- Chance to participate in the assessor community hosted by eLC
- The assessor deals with interoperability related problems



eLC SCORM Assessor Program

- Divergence in Interpretations of the SCORM Specification
- Problems outside the SCORM Specification
- Lack of LMS Information
- Gap in knowledge and technology between LMS engineers and contents engineers



eLC SCORM Assessor Program is the Answer to these Problems

Launch of the Assessor System scheduled for March 2004



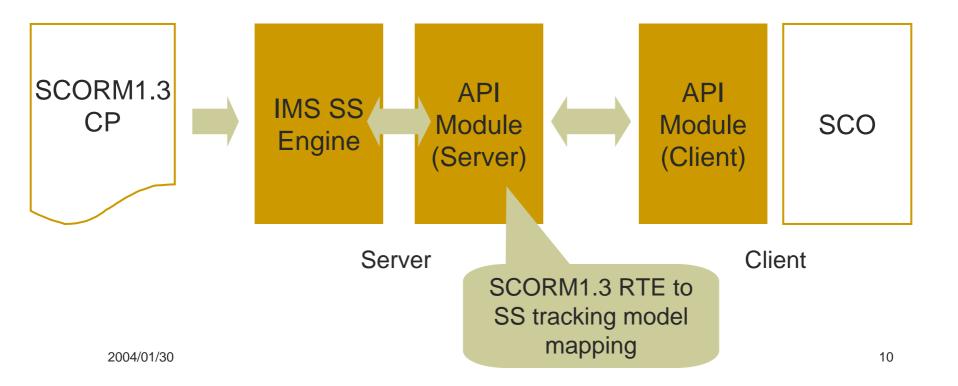
Platform Development

- e-Learning Standard-based Component and System
- Examples:
 - Year 2000-2001
 - SCORM1.2 based component
 - Year 2002-2003
 - SCORM1.3 based component
 - QTI based component



SCORM1.3 based Component

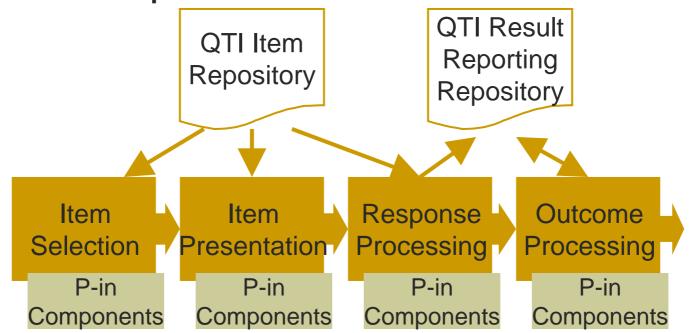
Sequencing Engine + RTE module





QTI based Component

 Module for processing stage and plugin component





Future Activities

- Conformance
 - Collaboration with other activities
 - MOU with ADL
 - AEN conformance WG
- Platform
 - Open source software



About eLC

http://www.elc.or.jp/

