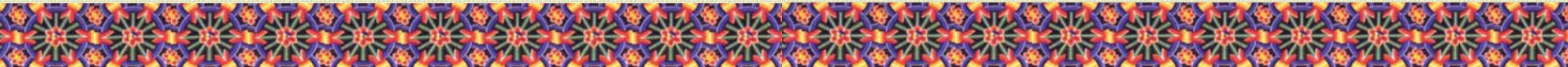# Standardization Activities for e-Learning in Korea

2004. 12. 16

Korea Report, KIEC
(By Han Tae In, Ilinkschool Inc.)

Contents

1. IT Standardization

1.1 For International Standards

1.2 For National Standards

1.1 For International Standards

1) ISO/IEC JTC1

 KATS (MoCIE) & KISI

– Korea Agency of Technology and Standards

– Agency : KISI
   Korean Industrial Standards Institute

1.1 For International Standards

2) For ITU-T

 MoIC & TTA

– MoIC
  Ministry of Information & Communication

– Agency : TTA
  Telecommunication Technology
  Association

1.2 For National Standards

- Agency : KISI
  Korean Industrial Standards Institute

- Agency : TTA
  Telecommunication Technology
  Association

2. e-Learning Standardization

2.1 For International Standards

2.2 For National Standards

2.3 Related Organization

2.4 Related Laws

2.1 For International Standards

ISO/IEC JTC1

KATS (MoCIE) & SC36 of Korea

– Korea Agency of Technology and Standards

– Agency : KSC36
   under KATS

2.2 For National Standards

1) KRIVET : MoL
   Korea Research Institute for
   Vocational Education and Training

2) KIEC : MoCIE
   Korean Institute for Electronic Commerce

3) TTA : MoIC
   Telecommunication Technology Association

2.3 Related Organization

	Research	Standardization
MOCIE	KIEC	KATS, KIEC
MOIC	ETRI	TTA
MOE(HRD)	KERIS	KERIS
MOL	KRIVET	KRIVET

2.4 Related Laws

1) On-line Digital Contents Act :

　　MoIC(Information & Communication)

2) e-Learning Industry Development Act :

　　MoCIE(Commerce, Industry, Energy)

3) Life-long Education Act & Employment

　　Insurance Act : MoL(Labor)

3. e-Learning Standards Activities

3.1 Vocabulary

3.2 Collaborative Learning

3.3 SCORM

3.4 Quality Assurance

3.1 Vocabulary

1) First year research : pre-research

   - How and for Whom, about What
   - Studied by KNOU Prof. KWAG
   - Supported by KIEC
   - until Jan. of 2005

3.1 Vocabulary

2) Next Research

- – with Korean & IT Society
- – with Education Engineering Society
- – Studied by Prof. KWAG
- – Supported by KIEC
- – will be finished until end of 2005

3.2 Collaborative Learning

1) First year research

- – Workplace reference model
- – Participants monitoring Agent
- – Studied by Univ.ies, company,
  and research institute
- – until Feb. of 2005
- – supported by MoIC & ETRI

3.2 Collaborative Learning

2) Next research

- A2A communication research
- Participants behavior tracking agent
- under Multi-platform environment
- Studied by Univ.ies, company,
  and research institute
- until Feb. of 2007
- supported by MoIC & ETRI

3.3 SCORM

1) Domestic Standard

- Research by KERIS

  Korea Education & Research Information Service

- Standard Name : KEM 2.0

  Korea Educational Metadata 2.0 (SCORM)

- Applying Sector

  School Education under High Education

  K12 : 6-3-3(12 years)

- When : Sep. of 2003

- Applied for 370,000 Learning Object until now

3.3 SCORM

2) International Cooperation with ADL

- Promoted by KIEC
- When contracted : Nov. of 2004
- Major Issues : among 7 articles
  (1)Joint or cooperative programs and projects
  (2)Conduct SCORM certification tests, adapt
     registration, coordinate Plugfest events
  (3)Establish and manage Korean ADL Co-Lab
     mirror site;

3.4 QA Research

3.4.1 QA Environment Research

3.4.2 QA research for Solution(LMS)

3.4.3 QA research for

      Guideline and Technical Report

3.4.4 QA for Service Operation

3.4.1 QA Environment Research

1) 1st Year Research

    – 2003-03-01 ~ 2003-12-31

    – Researcher : MOKWON Univ.

                  Prof. CHO EUN SOON

2) 2nd Year Research

    – 2004-08-01 ~ 2004-12-31

    – Researcher : MOKWON Univ.

                  Prof. CHO EUN SOON

3.4.2 QA Research for Solution(LMS)

1) 1st Year Research

   – 2004–08–01 ~ 2004–12–31

   – Researcher : SOOK MYUNG Univ.

              Prof. YOO PYUNG JOON

3.4.3 QA Guideline and Technical Report

1) 1st Year Research
  - 2004-08-01 ~ 2005-07-31
  - Researcher : Ilinkschool Inc.
    Dr. Kim Young Rock & Dr. Han Tae In
  - Building the Research Committee
  - Analysis and Integrate the Models
  - Contribution to QA Metrics

3.4.3 QA for Service Operation

1) Duration :

    2003-01-01 ~ 2003-12-31

2) Organization: KRIVET(MoL)

    Korea Research Institute for Vocational

    Education & Training

3) Topic: Guideline for e-Learning Service

    Operation Standard

3.4.3 QA for Service Operation

4) Research Contents :
   - General Specification
   - Guideline for Service Operating
   - Guideline for Tutoring
   - Guideline for Service Management

     System

4. Other Activities

4.1 Overall National e-Learning Survey

4.2 Next Generation LMS Project

4.1 Overall National e-Learning Survey

1) Survey Economic scale for e-Learning
2) Promoted by KIEC under MOCIE
3) Supply sector
   - Fact-finding survey for population
   - Provider : Educational Organization
                 Service Provider
                 Contents Producer/Provider
                 Solution Vender/Product company
                 SI company
   - about 20,000 companies/organization

3) Demand sector

- Interview survey for sampling
- Domain : Educational Organization(300)
  Government(200)
  Company(300)
  Household(1,000)

4.1 Overall National e-Learning Survey

4) Period

- Survey : Oct. of 2004 – Dec. of 2004
- Applied period

  Sales & Employ : 2003(Jan.– Dec.)

  2004(Jan. – Aug.)

  Others : by current status

4. Other Activities

4.2 Next Generation LMS Project

1) Intelligent & Integrate function for LMS

2) Object oriented data management model

3) Promoted by KIEC

4) Consortium by 5 companies and KELIA

5) Period : 3 years(from 2004)

6) Budget : about USD 5 Mil.

Thank You

KIEC, Korea