

PROJECT DEFINITION REPORT

DREL WORKGROUP

APRIL 4, 2003

PROJECT VISION

Proposed Project and Context

In the context of the IEEE-LTSC, an additional workgroup has been created to define a DREL standard. The purpose of project that this workgroup will undertake is to facilitate the creation, management and delivery of learning objects by technology that implements digital rights expression languages.

This project will produce a recommended practice or guide identifying digital rights requirements for learning technologies. These requirements will be aligned with the most widely known standards-based specifications for digital rights expression languages that are being adopted or developed by international, regional, national and private organizations and consortia. The recommended practice or guide will determine what, if any, extensions are needed so that these digital rights expression languages can meet the identified requirements. The working group intends to submit a recommended practice or guide for balloting within one year.

Primary Goals of the Project

Investigate existing standards development efforts for digital rights expression languages (DREL) and digital rights.

Gather DREL requirements germane to the learning, education, and training industries.

Make recommendations as to how to proceed. Possible outcomes included, a priori, recommending the adoption of an existing standard, recommending the creation of an application profile of an existing standard, or creating a new standard from scratch.

Feed requirements into ongoing DREL and digital rights standardization efforts, regardless of whether the LTSC decides to work with these efforts or embark on its own.

CONTEXT

Target Segment Analysis

As with other industries that rely on the digital content, a major obstacle facing eLearning is the vulnerability of intellectual property to improper and undesired use. Motives for ensuring proper use include avoiding adverse legal actions, ensuring payment, ensuring proper attribution, and ensuring the intellectual fidelity of content. For example, recent revisions to U.S. copyright law (known as the TEACH Act) allow accredited educational institutions to transmit copyrighted displays and performances in online learning settings but only if they institute policies and technology that safeguards against unauthorized use or redistribution. The ability to specify and enforce digital rights is crucial to the success of eLearning.

The LTSC-DREL workgroup shall gather requirements from at least

representative from:

- o Higher Education
- o K-12
- o Corporate training
- o IPR
- o Publishing
- o entertainment or multimedia
- o DRM system developer
- o XrML
- o ODRL
- o IMS
- o SC36
- o CEN/ISSS
- o OeBF
- o ALIC

Objectives

Each target segments shall agree that the standard developed by the LTSC-DREL WG responds to the general requirements of all target segments and does not hinder the specific requirements of each.

The WG shall produce a standard that is a Recommended Practice. Recommended practices are documents in which procedures and positions preferred by IEEE are presented and are generally characterized by the use of the verb "should."

Each committee member shall be considered a representative of the target segment they represent and shall be satisfied by the content of the standard. This satisfaction will be expressed by a formal approval of the draft during the final balloting process.

Competitive Assessment

1. MPEG under the sub group MPEG-21. MPEG is a working group formally ISO/IEC JTC1 SC29 WG11 and is part of the International Organization for Standardization (ISO). MPEG-21 is standardizing a number of technologies that will facilitate the interoperability of DRM systems as well as applications built to produce, distribute and present digital content. In particular, MPEG-21 is developing a Digital Rights Expression Language (MPEG REL). The MPEG REL is in process and on schedule to become an International Standard in 2003. A liaison has been established between the LTSC and ISO/IEC JTC1 SC29

2. Open eBook Forum. The mission of the Rights and Rules Working Group (RRWG) is to create an open and commercially viable standard for interoperability of digital rights management (DRM) systems, providing trusted transmission of electronic publications (ePublications) among rights holders, intermediaries, and users. RRWG has selected the XrML-based MPEG REL as a foundation Digital Rights Expression Language for developing detailed material in its Rights Grammar specification. The group will soon begin intensive work on a draft of the specification, which

will be submitted for approval by the organization as a whole.

3- CEN/ISSS formed an open Focus Group, with the objective to prepare a report on the state of the art in standardization of digital rights from different perspectives, and this Group, which has over 100 companies and organizations represented, is now finalizing the first draft of its report.

4- Open Mobile Alliance [OMA] "Digital Rights Management" [DRM] mission is to enable the controlled consumption of digital media objects by allowing content providers to express usage rights. OMA DRM used ODRL to define digital rights specifications for applications that operate over wireless communication networks (Rights Expression Language Version 1.0 [Version 13-September-2002, OMA-Download-DRMREL-v1_0-20020913-a]).

Sponsor Organization: Open Mobile Alliance (was WAP Forum)

Project Date: 2002-2003

Project Title: Digital Rights Management

Other standards bodies will be addressing the issue of DREL and a standard applies to it in the context of the learning technologies. The bodies that shall be considered during the project will be: IMS Global, ADLNet, CEN/ISSS, W3C, MPEG-21, ISO

Timeline

Addendum 1

REQUIREMENTS AND FEATURES

Deliverables

Analysis of existing languages: XrML and ODRL
Drafting of extensions if need be.

Collaborate with Other Standards bodies

SC36
IMS

DREL WG

Role	First Name	Last Name	Organization	Email
Chair	Magda	Mourad	IBM	magdam@us.ibm.com
Vice Chair	Juliette	Adams	Consultant	juliettheadams@september15.net
Technical Editor				
Sub-Committee Member	Fred	Beshears	UC berkeley	fmb@socrates.berkeley.edu
Sub-Committee Member	James	Simon	Sun Microsystems	James.Simon@sun.com
Sub-Committee Member	Kiyoshi	Nakabayashi	NTTX	naka@nttx.co.jp
Sub-Committee Member	Kenji	Hirata	Sanno Institute	hirata_kenji@nj.sanno.ac.jp
Sub-Committee Member	Rachid	Zghibi	Universite Paris VIII	Zghibi@yahoo.fr

Sub-Committee Member	Wilbert	Kraan	CETIS	w.g.kraan@bangor.ac.uk
Sub-Committee Member	Brian	Taliesin	Microsoft	briata@microsoft.com
Sub-Committee Member	Yves	Neuville	Ministere de l'Education Nationale (IGEN)	yn@ifrance.com
Sub-Committee Member	Liping	Shen	CELTSC	lpshen@mail.sitn.edu.cn
Sub-Committee Member	Qiong	Wang	CELTSC	gwang@gse.pku.edu.cn
Sub-Committee Member	Lassi	Nirhamo	University of Turku	lasnir@utu.fi
Sub-Committee Member	Tomi	Jaakkola	University of Turku	toanja@utu.fi
Sub-Committee Member	Harry	Piccariello	ContentGuard	harry.piccariello@contentguard.com
Sub-Committee Member	Jon	Mason	education.au Ltd	jmason@educationau.edu.au
Sub-Committee Member	Robby	Robson	Eduworks	rrobson@eduworks.com
Sub-Committee Member	Dan	Rehak	Carnegie Mellon	rehak@cmu.edu
Sub-Committee Member	Claude	Ostyn	Click2learn, Inc	Claude.Ostyn@Click2Learn.com
Sub-Committee Member	Norm	Friesen	Athabasca University	normf@athabasca.ca
Sub-Committee Member	Xin	Xiang	CELTSC	xiang_xin@263.net
Sub-Committee Member	Chad	Kainz	University of Chicago	cjKainz@uchicago.edu
Sub-Committee Member	Bill	Milton		

PROJECT IMPLEMENTATION AND CONTROLS

Assumptions and Prerequisites

The WG PAR must be approved by IEEE

The WG must include a representative from each of the target segments.

The WG must hold weekly status calls.

The management of the project is the responsibility of the Chair and Vice-Chair.

Constraints

The purpose of this project is not to establish a new standard, but rather give a recommendation on existing RELs and provide extensions if need be. As long as the project remains within these restrictive boundaries, the draft of the standard shall be submitted for ballot at the March 2004 IEEE-LTSC meeting.

Approach

This project will be structure in 5 distinct sections.

1. Requirements: The WG shall gather from all its members the requirements that are specific to the target segment they represent. It will be the responsibility of the Chair and Vice-Chair to seek out representatives for all desired target segments.
2. Research and Analysis: The WG shall establish which existing languages and standards should be considered for analysis. These options will be

matched to the list of requirements gathered during the first phase of the project, assessment for relevancy and complemented by an extension if need be.

3. Drafting: The WG shall draft the paper describing the standard, as it will be submitted to the IEEE. The WG shall use the IEEE template and editorial guidelines.

4. Review and Revise: The WG shall review and revise the draft. The balloting committee shall make decisions on comments from the WG only when the commenter is present or has been thoroughly informed of the decision. Any dismissal of commentary shall be fully explained. The Chair, Vice Chair and Technical Editor shall take full account for the accurate aggregation and integration of all comments.

5. Submission: The WG shall review the final draft of the standard and vote, by ballot before it is submitted to the IEEE for approval.

Administrative Process

WG shall meet (phone or person) once a week for 2 hours.

The Chair shall be responsible for setting up a recurring phone conference.

The Chair and Vice Chair will send an agenda at least 24 hours before any meeting. Call-in information will be included on the agenda.

The Chair and the Vice Chair will alternate taking minutes. The minutes will be posted to the reflector.

The Vice Chair will be responsible for sending a status report on a monthly basis.

The Technical Editor will be responsible for maintaining the issue log.

Each WG member will be responsible for attending the meetings, when possible, reviewing the material submitted to the email list and the reflector, and submitting any issue by filling out an issue description form. The issue description templates will be used by the committee member to submit requirements. Committee Members will be able to provide specific edits to the log or to the draft if the nature of the comment warrants such.

ATTACHMENTS AND RELATED DOCUMENTS

Document	Document Type	Comments
Towards_a_DREL_standard_for_LET_DRAFT.doc	White Paper	This White Paper was written by Magda Mourad, Norman Friessen, and Robby Robson.
1484-4.pdf	PAR	PAR submitted to the IEEE
DREL Mtg Minutes_17Mar03.rtf	Meeting Minutes	Minutes for 2003-03-17 meeting

DOCUMENT HISTORY

Version	File Name	Prepared by	Date	Note
1	ieee_drel_cdr_030317.doc	Juliette Adams	2003-03-17	
1.2	ieee_dreal_cdr_030404	Juliette Adams	2003-04-03	Includes feedback from Magda Mourad

Addendum 1: DREL WG Workplan for 2003

Code	Work Item	Details	Duration	Start	End	Leader	co-Leader
	1 Develop Workplan		2 w	17-Mar-03	31-Mar-03	Magda Mourad	Juliette Adams
	2 Call for participation		2 w	31-Mar-03	11-Apr-03	Magda Mourad	Juliette Adams
2.1		Identify target forums	1 w	31-Mar-03	4-Apr-03		
2.2		Write Call for participation	2 d	7-Apr-03	8-Apr-03		
2.3		Send Call for participation	2 d	9-Apr-03	10-Apr-03		
	3 Recruit Technical Editor(s)		4 w	31-Mar-03	25-Apr-03	Juliette Adams	
3.1		Issue Requirements	1 w	31-Mar-03	4-Apr-03		
3.2		Sort out responses	2 d	23-Apr-03	24-Apr-03		
3.3		Assign task and notify participants	1 d	25-Apr-03	25-Apr-03		
	Develop DR requirements for eLearning technologies		14 w	14-Apr-03	18-Jul-03	Juliette Adams	
4.1		Prepare and send note to participants	1 w	14-Apr-03	18-Apr-03	Juliette Adams	
4.2		Receive information and drafts	6 w	21-Apr-03	30-May-03	Juliette Adams	
4.3		Compile findings	2 w	2-Jun-03	13-Jun-03	Technical Editor	
4.4		Meet to consolidate	3 d	18-Jun-03	20-Jun-03		
4.5		Review and Modify	2 w	23-Jun-03	4-Jul-03	Juliette Adams	Technical Editor
4.6		Consolidate and finalize (email)	2 w	7-Jul-03	18-Jul-03	Technical Editor	
	Survey relevant DREL standards & specifications		14 w	14-Apr-03	18-Jul-03	Magda Mourad	
5.1		Prepare and send note to participants	1 w	14-Apr-03	18-Apr-03	Magda Mourad	
5.2		Receive information and drafts	6 w	21-Apr-03	30-May-03		
5.3		Compile findings	2 w	2-Jun-03	13-Jun-03	Technical Editor	
5.5		Meet to consolidate	3 d	18-Jun-03	20-Jun-03		
5.6		Review and Modify	2 w	23-Jun-03	4-Jul-03	Magda Mourad	Technical Editor
5.7		Consolidate and finalize (email)	2 w	7-Jul-03	18-Jul-03	Technical Editor	
	Align eLearning Requirements to DREL standards		14 w	21-Jul-03	24-Oct-03	Magda Mourad	
6.1		Prepare and send note to participants	1 w	21-Jul-03	25-Jul-03	Magda Mourad	
6.2		Receive information and drafts	6 w	28-Jul-03	5-Sep-03		
6.3		Compile findings	2 w	8-Sep-03	19-Sep-03	Technical Editor	
6.4		Meet to consolidate	3 d	22-Sep-03	23-Sep-03		
6.5		Review and Modify	2 w	29-Sep-03	10-Oct-03	Juliette Adams	Technical Editor
6.6		Consolidate and finalize (email)	2 w	13-Oct-03	24-Oct-03	Technical Editor	
	Determine Extensions to DREL standards & specifications		12 w	20-Oct-03		Magda Mourad	Juliette Adams
7.1		Prepare and send note to participants	1 w	20-Oct-03	24-Oct-03	Magda Mourad	
7.2		Receive information and drafts	4 w	27-Oct-03	21-Nov-03		
7.3		Compile findings	2 w	24-Nov-03	5-Dec-03	Technical Editor	
7.4		Meet to consolidate	3 d	9-Dec-03	11-Dec-03		
7.5		Review and Modify	1 w	15-Dec-03	19-Dec-03	Juliette Adams	Technical Editor
7.6		Consolidate and finalize (email)	3 w	22-Dec-03	9-Jan-04	Technical Editor	
	Produce Draft recommendations		6 w			Technical Editor	
8.1		Form Drafting Committee	4 w	9-Dec-03	31-Dec-04	Magda Mourad	
8.2		Draft Recommendations	3 w	5-Jan-04	30-Jan-04	Technical Editor	
8.3		Open for WG input/suggestions	1 w	2-Feb-04	6-Feb-04		
8.4		Review and Modify for Ballot 1	1 w	9-Feb-04	13-Feb-04	Magda Mourad	Technical Editor
	Ballot 1 (Internal WG)		4 w	16-Feb-04	13-Mar-04	Magda Mourad	Juliette Adams
	10 Review & Modification		2 w	16-Mar-04	27-Mar-04	Magda Mourad	Juliette Adams + TE
10.1		Meet to consolidate	3 d	16-Mar-04	18-Mar-04		
10.2		Produce recommendations for ballot 2	1 w	23-Mar-04	27-Mar-04		
	Ballot 2 (LTSC & external)		4 w	29-Mar-04	23-Apr-04	Magda Mourad	Juliette Adams
	12 Review & Modification		2 w	26-Apr-04	7-May-04	Magda Mourad	Juliette Adams + TE
12.1		Meet to consolidate	3 d	26-Apr-04	28-Apr-04		
12.2		Produce recommendations for ballot 2	1 w	3-May-04	7-May-04		
	13 Final Ballot (LTSC & external)		4 w	10-May-04	4-Jun-04	Magda Mourad	Juliette Adams