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# PROJECT DEFINITION REPORT

## DREL WORKGROUP

APRIL 25, 2003

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### 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 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 IEEE-LTSC-DREL WorkGroup will work toward gathering requirements

from the following target segments:

- k-12: Juliette Adams
- Higher Education: Chad Kainz
- Vocational Training: Jon Mason
- Enterprise Training: George Koch (ADLNet), Vipin Pillai (SCORM)
- Adult and Community: TBD

Each target segments representative shall explore the requirements specific to their target segment, including the industries that may relate to the target segment (publishing, entertainment...), and the standards that may relate to the target segment (CEN-ISSS, IMS, NFF)

#### Objectives

- Identify the requirements for DR for each of the target segments
- Survey relevant DREL standards & specifications
- 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."

#### 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

Requirements from target segments

Analysis of existing languages: MPEG and ODRL

Drafting of extensions if need be.

Collaborate with Other  
Standards bodies

SC36

IMS

CEN-ISSS

**DREL WG**

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<b>Sub-Committee Member</b>	Susana	Guth		
<b>Sub-Committee Member</b>	Vipin	Pilai		

## PROJECT IMPLEMENTATION AND CONTROLS

Assumptions and Prerequisites	<p>The WG PAR must be approved by IEEE</p> <p>The WG must include a representative from each of the target segments.</p> <p>The WG must hold weekly status calls.</p> <p>The management of the project is the responsibility of the Chair and Vice-Chair.</p>
Constraints	<p>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.</p>
Approach	<p>This project will be structure in 5 distinct sections.</p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>4. Review and Revise: The WG shall review and revise the draft. The balloting committee shall make decisions on comments from the WG only.</li> </ol>

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