

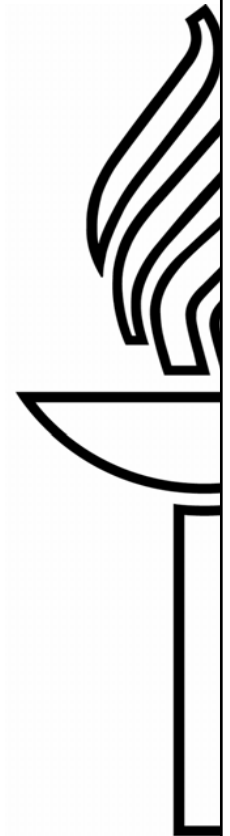


# **THE REQUIREMENTS FOR ELECTRONIC COPYRIGHT MANAGEMENT SYSTEMS**

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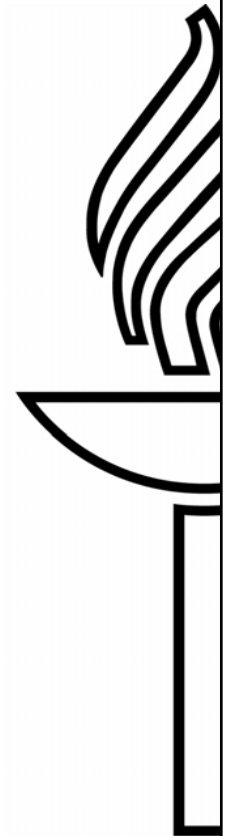
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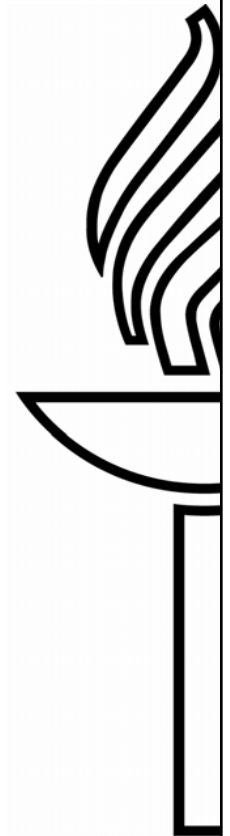
## **This presentation..**

- ◆ **..focuses on the requirements of Electronic Copyright Management Systems (ECMS).**
- ◆ **.. aim is to define what information ECMS should manage and how the information should be managed.**
- ◆ **..uses Everden (1996) information management framework as baseline for conceptual–analytical examination.**
- ◆ **..provides results that are of value for the practitioners, and are subject to further elaboration.**



## Introduction

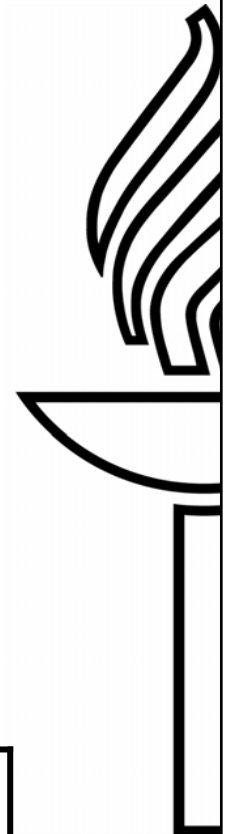
- ◆ *ECMS* are computerized systems for management of copyright information, i.e. copyright contracts
- ◆ *ECMS* are deployed upstream of the value chain
- ◆ Current R&D focuses on content-protecting DRM.
- ◆ Publishers and universities handle masses of content  
→ high volume of copyright information.
- ◆ Recent study in the Nordic countries revealed that only few universities have *ECMS* to help management.  
→ **What's the status in your university?**



## Key point 1 – elaborated ECMS requirements

- ◆ Everden's framework suggests that information management consists of data, functions and workflows viewpoints.
  - Data: Information entities, properties and relationships
  - Functions and workflows: Dynamic aspects of business processes

Everden's viewpoint	ECMS requirement
Data viewpoint (Static)	<ol style="list-style-type: none"><li>1. Requirement to describe contracts</li><li>2. Requirements to manage documents</li></ol>
Function and workflow viewpoints (Dynamic)	<ol style="list-style-type: none"><li>2. Requirement to manage documents</li><li>3. Requirement to manage workflows</li></ol>



## **Key point 1 continued..**

### **How to manage natural and formal language contracts?**

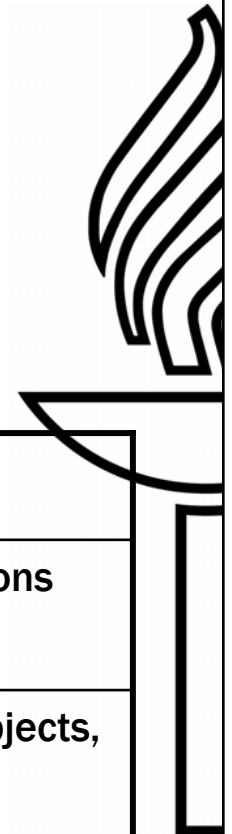
- Document management functionalities is needed
- Repository consisting of both document objects and digital rights expressions is needed
- Mechanism to associate document objects (or parts) and digital rights expressions is needed

### **How ECMS may support copyright contract related workflows?**

- Use of contract templates is emphasized
- Negotiation workflows vary, generic workflow engine is needed



## Key point 2 – ECMS implementation properties



<b>ECMS requirement</b>	<b>Implementation property</b>
Requirement to describe contracts	Central repository for digital rights expressions
Requirements to manage documents	Central repository for contract document objects, document management functionalities
Requirement to manage workflows	Document management functionalities, generic and configurable workflow engine

## Further work

- ◆ Multicase study on the implemented ECMS  
→ Test framework, divide requirement further

### Suggestions for cases to study?

- ◆ ODRL initiative would benefit from Copyright Contract profile targetting universities
  - for automating contract management procedures in administrative and publishing systems
  - in transferring information contained in the contract to other computer systems (e.g. payment systems)
  - in presenting rights and obligations in condensed manner (cf. CC human readable summary) for a user of the work.

