DC-2007: Application Profiles: Theory and Practice, Singapore





 Report of work done by Julie Allinson (UKOLN/University of York)



#### Background to the Eprints DCAP

- Eprints AP development funded by JISC, Summer 2006
- Co-ordinated by Julie Allinson & Andy Powell (Edusery) Foundation)
- Specification for using DC metadata for eprints that overcomes limitations of "Simple DC"
  - especially relationships between "versions"
  - "what is being described?"
- "eprint":
  - a "scientific or scholarly research text" (Budapest Open Access Initiative)
  - e.g. peer-reviewed journal article, preprint, working paper, thesis, book chapter, report, etc.

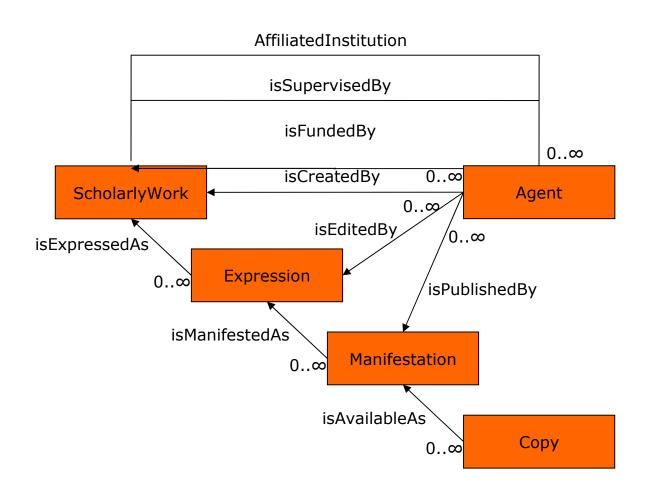
# eduserv

#### Components

- Functional requirements specification
- Domain model
  - Based on subset of FRBR
- The "eprints DCAP"
  - a "Description Set Profile"
  - plus human-readable commentary, usage guidelines
- New vocabularies of metadata terms
  - With URIs like http://purl.org/eprint/terms/xyz
- Eprints DC-XML XML format
  - Based on DC-XML-Full, Version 2006-09-18

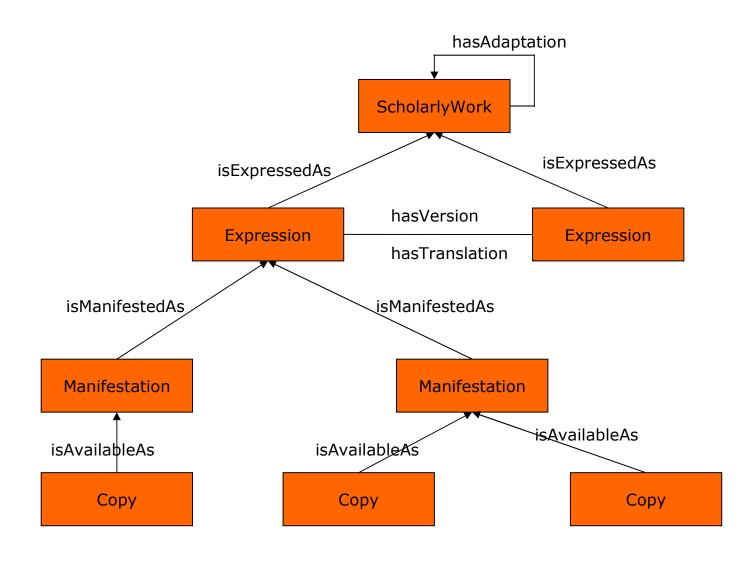
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#### The eprints DCAP Domain Model



#### The eprints DCAP Domain Model







#### The eprints DCAP as DSP

- Developed initially using "traditional" "tabular" DCAP presentation
- Document divided into five sections/tables, one for description of each entity type
  - > DSP Description Template
- Each section/table divided into rows, one for each statement type within description
  - > DSP Statement Template
- For statement referencing Literal Value
  - -> DSP Literal Value Constraint
- For statement referencing Non-Literal Value
  - -> DSP Non-Literal Value Constraint

```
http://www.ukoln.ac.uk/repositories/digirep

/index/EPrints_Application_Profile

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```

#### Description of ScholarlyWork

```
DT=(
   ID="ScholarlyWork"
   min="1" max="1"
   standalone="yes"
   RC=[http://purl.org/eprint/entityType/ScholarlyWork/]
)
```

#### Description of Expression of ScholarlyWork

```
DT=(
   ID="Expression"
   standalone="no"
   RC=[http://purl.org/eprint/entityType/Expression/]
)
```

 And so on for Descriptions of Manifestation, Copy, Agent

#### Description of ScholarlyWork

```
DT=(
   ID="ScholarlyWork"
   min="1" max="1"
   standalone="yes"
   RC=[http://purl.org/eprint/entityType/ScholarlyWork/]
)
```

#### - Title

```
ST=(
   type="literal"
   min="1"
   PC={http://purl.org/dc/elements/1.1/title}
)
```

#### Subject

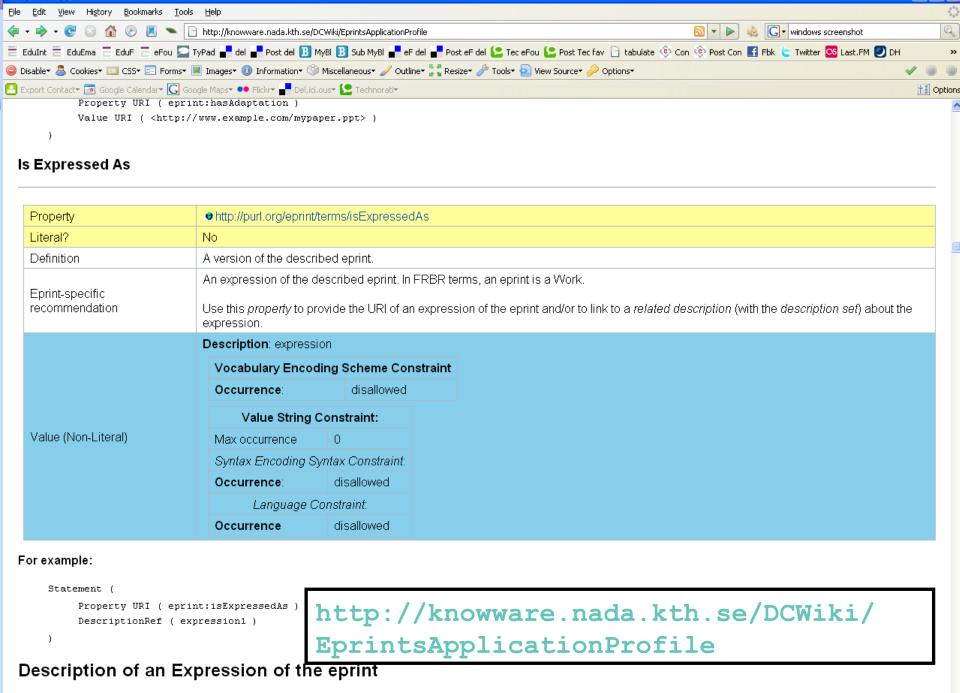
```
ST=(
  type="nonliteral"
  PC={http://purl.org/dc/elements/1.1/subject}
NLC=(
  VURIConstraint=( occurrence="optional")
  VESConstraint=( occurrence="optional")
  VStringConstraint=(max="1"
    LangC=(occurrence="optional")
    SESConstraint=(occurrence="disallowed")
```

#### Is Expressed As

```
ST=(
  type="nonliteral"
  PC={http://purl.org/eprint/terms/isExpressedAs}
NLC=(
  description="expression"
  [http://purl.org/eprint/entityType/Expression]
  VURIConstraint=( occurrence="mandatory")
  VESConstraint=( occurrence="disallowed")
  VStringConstraint=(max="0")
```

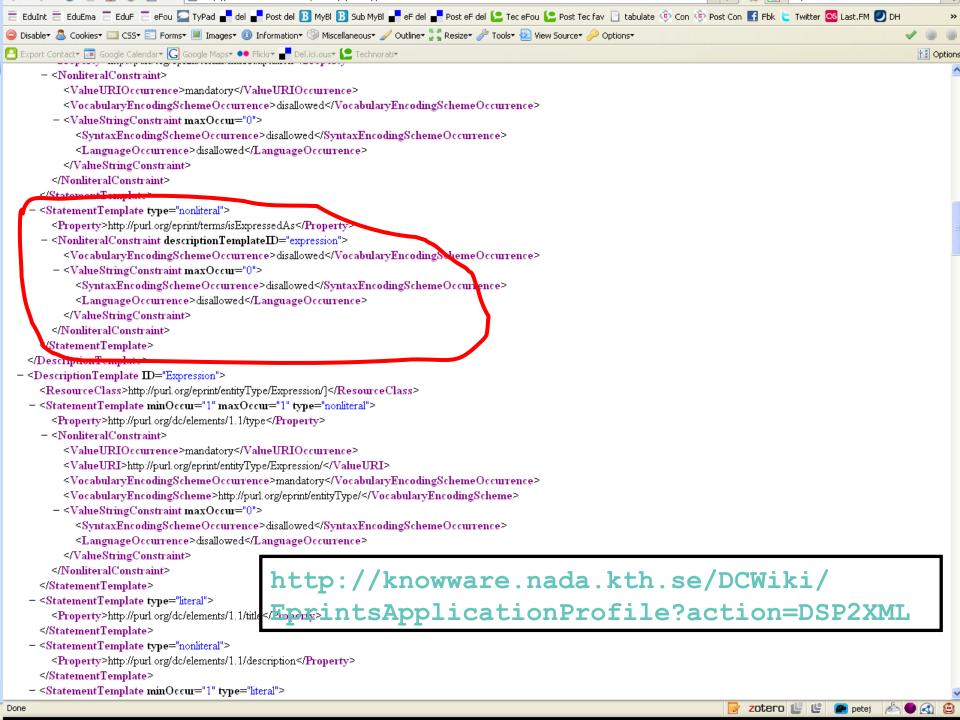
And so on for Statements referencing other properties

```
http://knowware.nada.kth.se/DCWiki/
EprintsApplicationProfile?action=raw
```



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Entity type



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#### Issues arising

- Formal model based on description model of DCAM 2007-06-04
  - e.g. literal v non-literal values
- Constraint matching limitations e.g.
- DT may contain max of one ST referencing a single property
- ST must contain either a NLC or a LC
- So
  - can't specify the use of a statement referencing property P with either a literal value or a non-literal value
    - e.g. dcterms:abstract (abstract as literal or as document)
  - can't specify the use of a statement referencing property P with two different NI Cs
    - e.g. dcterms:subject (subject as keyword/no VES or subject as member of specified VES)



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