Using Dublin Core for Repository Software „PubMan"

DCMI Libraries Community Meeting
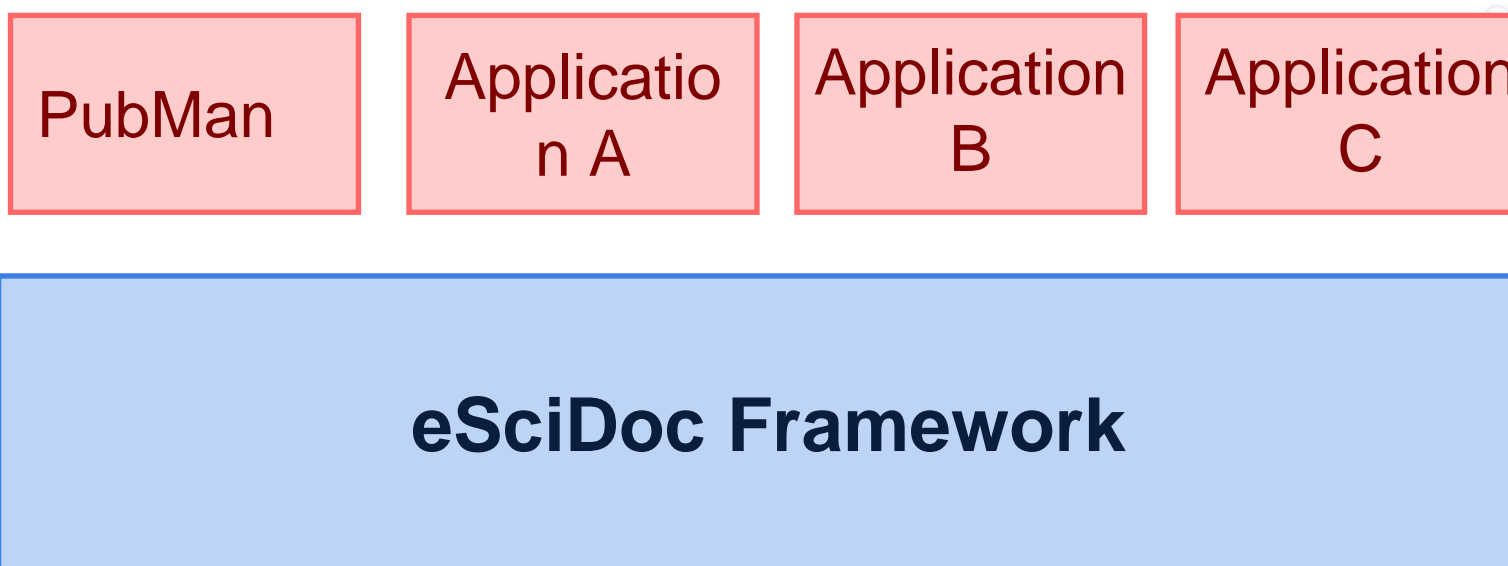September 2013

MAX PLANCK
digital library

Agenda

- Repository Software „PubMan"
- Creating Process of the Application Profile
- eSciDoc Application Profiles
- Representation in XML
- Representation within PubMan
- Mappings
- Conclusion
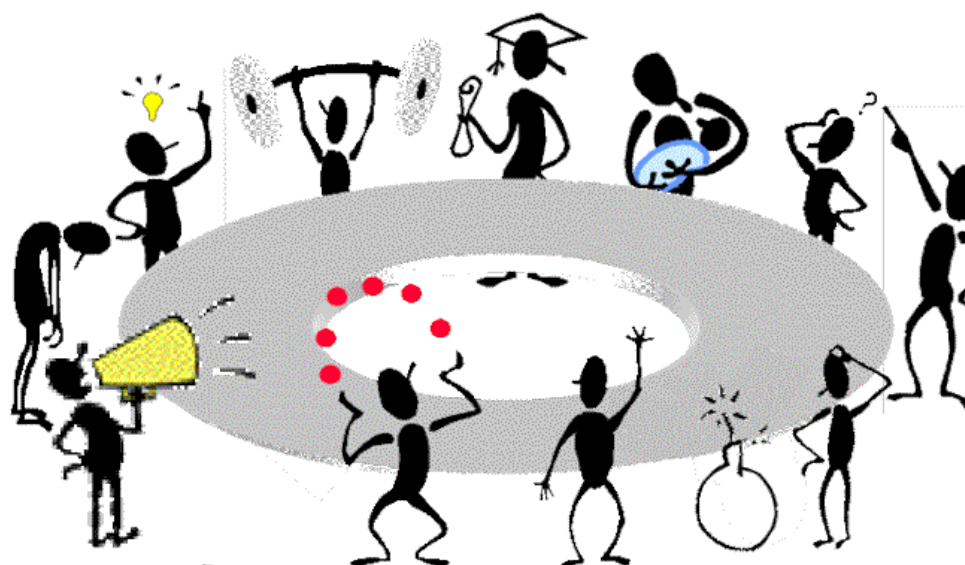
The PubMan Repository

- Repository Software for managing scientific publications.

- Based on eScience Infrastructure eSciDoc.

- Developed by MPDL since 2007.

- Several installations all over the world, installation „PuRe" for Max Planck Society.

- Functionalities: Simple and Advanced Search, Browsing, Submission, Import of several Formats, Fetch, Export , several Interfaces and APIs: Sword Interface, Rest Interface and UnAPI Interface, OAI-PMH.

- CoNE Service for controlled vocabulary.
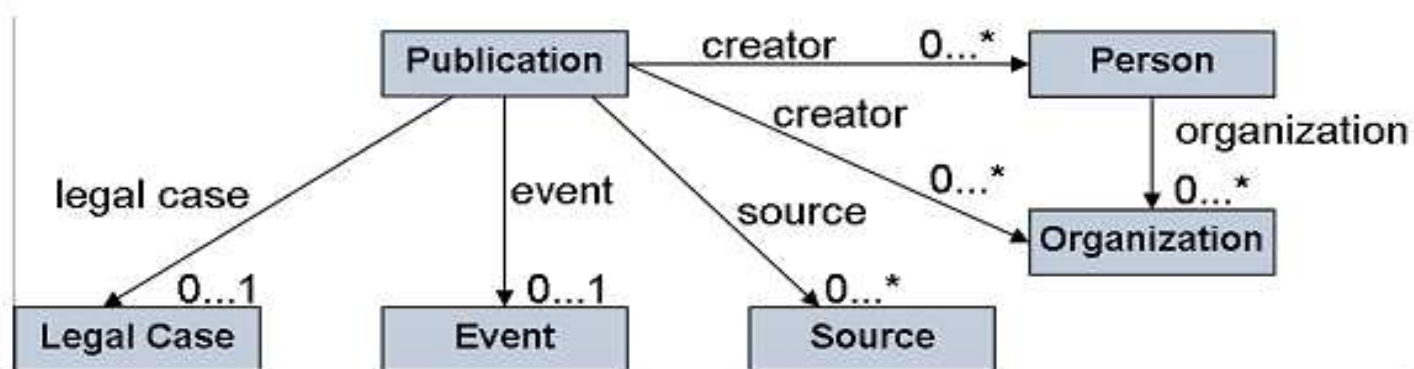
Creating Process of the Application Profile

- Long-lasting process: from July 2006 until August 2009.

- It happend parallel with the software conception of „PubMan".

- Mixed team: software developers, metadata experts, repository managers, librarians.

eSciDoc Application Profiles

- Not ONE Application Profile, but own Application profile for each item type: Publication, Source, Person, Organization, Legal Case, File and Event.
- Based on the Dublin Core Application Profile Guidelines.
- Documented in MPDL's Wiki „Colab".
- Open to the public.
- New terms are added when necessary.

Domain Model

Term usage for a Application Profile

Publication

Term URI	http://purl.org/escidoc/metadata/profiles/0.1/publication
Label	publication
DC Definition	A book, article, or other documentary resource.
DC Comment	-
eSciDoc Definition	A publication, e.g. book, article, inproceedings.
eSciDoc Comment	-
Type of term	Class
NarrowerThan	http://purl.org/dc/terms/BibliographicResource
Best practice	-
Remarks	-

Term Usages for the Elements

Title

Term URI	http://purl.org/dc/elements/1.1/title
Label	Title
Term Name	title
DC Definition	A name given to the resource.
DC Comment	-
eSciDoc Definition	Title of the described resource.
eSciDoc Comment	-
Type of term	Property

Domain	Publication
Range	Literal
Language Constraint	yes
Obligation	Mandatory
Occurrence	Min: 1; Max: 1
Best practice	-
Remarks	-

List of Terms of Application Profile „Publication"

3.1 Literal Statement Templates (Properties)

3.1.1 Title

3.1.2 Alternative Title

3.1.3 Identifier

3.1.4 Publisher

3.1.5 Place

3.1.6 Edition

3.1.7 Created

3.1.8 Modified

3.1.9 Date Submitted

3.1.10 Date Accepted

3.1.11 Published Online

3.1.12 Published in Print

3.1.13 Total number of pages

3.1.18 Table Of Contents

3.1.19 Location (Element not in use)

3.2 Non-Literal Statement Templates (Properties)

3.2.1 Genre

3.2.2 Event

3.2.3 Source

3.2.4 Creator

3.2.5 Language

3.2.6 Publishing Info

3.2.7 Review Method

3.2.8 Legal Case

Encoding Schemes

Publication Types

Term URI	http://purl.org/escidoc/metadata/ves/publication-types/
Label	Publication Types
Term Name	publication-types
eSciDoc Definition	Genre type of a publication.
eSciDoc Comment	-
See	ESciDoc_PublicationType_Encoding_Scheme
Type of term	http://purl.org/dc/dcam/VocabularyEncodingScheme
Version	0.1
Best practice	-
Remarks	-

Encoding Schemes

Article

URI	http://purl.org/escidoc/metadata/ves/publication-types/article
Label	Article
Definition	
Comment	-
Type of term	Class
Member Of	http://purl.org/escidoc/metadata/ves/publication-types/

Let's have a closer look…

http://colab.mpdl.mpg.de/mediawiki/ESciDoc_Application_Profiles

XML-Representation – XML Schema

```xml
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns="http://purl.org/escidoc/metadata/profiles/0.1/publication"
xmlns:xs="http://www.w3.org/2001/XMLSchema"

xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:dcterms="http://purl.org/dc/terms/"
xmlns:eterms="http://purl.org/escidoc/metadata/terms/0.1/" xmlns:eves="http://purl.org/escidoc/metadata/ves/0.1/"
xmlns:source="http://purl.org/escidoc/metadata/profiles/0.1/source"
xmlns:event="http://purl.org/escidoc/metadata/profiles/0.1/event"
targetNamespace="http://purl.org/escidoc/metadata/profiles/0.1/publication" elementFormDefault="qualified" attributeFormDefault="unqualified">
        <xs:annotation>
                <xs:documentation xml:lang="en">

eSciDoc metadata profile, publication

</xs:documentation>
        </xs:annotation>
        <xs:import namespace="http://www.w3.org/XML/1998/namespace" schemaLocation="http://www.w3.org/2001/03/xml.xsd"/>
        <xs:import namespace="http://purl.org/dc/elements/1.1/" schemaLocation="http://dublincore.org/schemas/xmls/qdc/2008/02/11/dc.xsd"/>
        <xs:import namespace="http://purl.org/dc/terms/" schemaLocation="http://dublincore.org/schemas/xmls/qdc/2008/02/11/dcterms.xsd"/>
        <xs:import namespace="http://purl.org/escidoc/metadata/terms/0.1/" schemaLocation="http://metadata.mpdl.mpg.de/escidoc/metadata/schemas/0.1/escidoctypes.xsd"/>
        <xs:import namespace="http://purl.org/escidoc/metadata/profiles/0.1/source" schemaLocation="http://metadata.mpdl.mpg.de/escidoc/metadata/schemas/0.1/escidoc_source_profile.xsd"/>
        <xs:import namespace="http://purl.org/escidoc/metadata/profiles/0.1/event" schemaLocation="http://metadata.mpdl.mpg.de/escidoc/metadata/schemas/0.1/escidoc_event_profile.xsd"/>
        <xs:import namespace="http://purl.org/escidoc/metadata/ves/0.1/" schemaLocation="http://metadata.mpdl.mpg.de/escidoc/metadata/schemas/0.1/escidocenumtypes.xsd"/>
        <xs:element name="publication" type="PublicationType"/>
        <!--*******************************
PublicationType
*********************************-->
        <xs:complexType name="PublicationType">
                <xs:sequence>
                        <xs:element ref="eterms:creator" maxOccurs="unbounded"/>
                        <xs:element ref="dc:title"/>
                        <xs:element ref="dc:language" minOccurs="0" maxOccurs="unbounded"/>
                        <xs:element ref="dcterms:alternative" minOccurs="0" maxOccurs="unbounded"/>
                        <xs:element ref="dc:identifier" minOccurs="0" maxOccurs="unbounded"/>
                        <xs:element ref="eterms:publishing-info" minOccurs="0"/>
                        <xs:group ref="PublicationDatesGroup" minOccurs="0"/>
```

XML-Represenation - eSciDoc XML

```xml
<publication:publication xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:dcterms="http://purl.org/dc/terms/" xmlns:eterms="http://purl.org/escidoc
  <eterms:creator role="http://www.loc.gov/loc.terms/relators/AUT">
    <person:person>
      <eterms:family-name>Enfield</eterms:family-name>
      <eterms:given-name>N. J.</eterms:given-name>
      <organization:organization>
        <dc:title>Human Sociality and Systems of Language Use, MPI for Psycholinguistics, Max Planck Society</dc:title>
        <eterms:address/>
        <dc:identifier>escidoc:808546</dc:identifier>
      </organization:organization>
      <organization:organization>
        <dc:title>Language and Cognition Department, MPI for Psycholinguistics, Max Planck Society</dc:title>
        <eterms:address>Nijmegen, NL</eterms:address>
        <dc:identifier>escidoc:792548</dc:identifier>
      </organization:organization>
      <organization:organization>
        <dc:title>Donders Institute for Brain, Cognition and Behaviour, External Organizations</dc:title>
        <eterms:address/>
        <dc:identifier>escidoc:55236</dc:identifier>
      </organization:organization>
      <dc:identifier xsi:type="eterms:CONE">http://pubman.mpdl.mpg.de/cone/persons/resource/persons51</dc:identifier>
    </person:person>
  </eterms:creator>
  <dc:title>Language, culture, and mind: Trends and standards in the latest pendulum swing </dc:title>
  <dc:language xsi:type="dcterms:ISO639-3">eng</dc:language>
  <dc:identifier xsi:type="eterms:DOI">10.1111/1467-9655.12008</dc:identifier>
  <dcterms:dateAccepted xsi:type="dcterms:W3CDTF">2012</dcterms:dateAccepted>
  <dcterms:issued xsi:type="dcterms:W3CDTF">2013</dcterms:issued>
  <eterms:review-method>http://purl.org/eprint/status/PeerReviewed</eterms:review-method>
  <source:source type="http://purl.org/escidoc/metadata/ves/publication-types/journal">
    <dc:title>Journal of the Royal Anthropological Institute</dc:title>
```

XML – Representation – eSciDoc XML


```
        <eterms:total-number-of-pages/>
        <eterms:publishing-info>
         <dc:publisher>Royal Anthropological Institute</dc:publisher>
         <eterms:place>London</eterms:place>
        </eterms:publishing-info>
        <dc:identifier xsi:type="eterms:ISSN">1359-0987</dc:identifier>
        <dc:identifier xsi:type="eterms:CONE">http://pubman.mpdl.mpg.de/cone/journa
      </source:source>
      <eterms:total-number-of-pages/>
      <dcterms:abstract xml:lang="eng">The study of language in relation to anthro
ulum swing that is incipient in the study of language today, a swing away from for
culture is foregrounded in all of this work. To that extent, Everett's book is rep
f special interest to socio-cultural anthropologists. </dcterms:abstract>
        <dcterms:subject></dcterms:subject>
        <dcterms:tableOfContents></dcterms:tableOfContents>
      </publication:publication>
```

Representation in PubMan

Representation in PubMan

Details	⊟ hide		
	Language(s)	eng - English	
	Dates	Accepted: 2012	Published in Print: 2013
	Pages	-	
	Publishing info	-	
	Table of Contents	-	
	Rev. Method	Peer	
	Identifiers	DOI: 10.1111/1467-9655.12008	
	Degree	-	
Event	⊞ show		
Legal Case	⊞ show		
Source 1	⊟ hide		
	Title	Journal of the Royal Anthropological Institute	
	Other	J. R. Anthropol. Inst.	
	Source Genre	Journal	
	Creator(s)	-	
	Affiliations	-	
	Publ. Info	London : Royal Anthropological Institute	

Mappings

- Several Mappings: EndNote, BioMed Central, Web of Science, BIbTex, ArXive, MARC21, eDoc

%A	Author	CreatorRole=Author.Person.CompleteName (Author.Person.FamilyName, Author.Person.GivenName)	for EndNote Reference Types Generic, Book, Book Section, Conference Paper, Conference Proceedings, Electronic Article, Electronic Book, Journal Article, Magazine Article, Manuscript, Report, Thesis;
%A	Editor	CreatorRole=Editor.Person.CompleteName (Editor.Person.FamilyName, Editor.Person.GivenName)	for EndNote Reference Type Edited Book
%A	Reporter	CreatorRole=Author.Person.CompleteName (Author.Person.FamilyName, Author.Person.GivenName)	for EndNote Reference Type Newspaper Article
%A	Inventor	not mapped	for EndNote Reference Type Patent; new CreatorRole=Inventor needed?, mapping see other %A
%B	Secondary Title	Item.AlternativeTitle	for EndNote Reference Type Generic, Electronic Book
%B	Series Title	Source.Title	for EndNote Reference Types Book, Edited Book , **Report**;

Conclusion