

DD8723

thesaurus exchange format

and its relationship to SKOS

References

- SKOS
 - SKOS reference (9 June 2008)
 - <http://www.w3.org/2004/02/skos/>
- DD8723-5
 - <http://schemas.bs8723.org>

Format

SKOS	DD8723-5
RDF format	XML format

Concepts & Terms

in SKOS

ex:C001 rdf:type skos:Concept .

ex:C001 skos:prefLabel "animals" .

ex:C001 skos:altLabel "fauna" .

ex:C001 skos:hiddenLabel "aminals" .

ex:C003 rdf:type skos:Concept .

ex:C003 skos:prefLabel "birds" .

ex:C001 skos:narrower ex:C003 .

Concepts & Terms

in DD8723-5

```
<ThesaurusConcept dc:identifier="C001">
  <PreferredTerm dc:identifier="1">
    <LexicalValue>animals</LexicalValue>
    <UF>2</UF>      <UF>3</UF>
  </PreferredTerm>
  <NonPreferredTerm dc:identifier="2">
    <LexicalValue>fauna</LexicalValue>
    <USE>1</USE>
  </NonPreferredTerm>
  <NonPreferredTerm dc:identifier="3">
    <LexicalValue>aminals</LexicalValue>
    <USE>1</USE>
  </NonPreferredTerm>
  <HasHierRelConcept Role="NT">C003</HasHierRelConcept>
</ThesaurusConcept>
<ThesaurusConcept dc:identifier="C003">
  <PreferredTerm dc:identifier="3">
    <LexicalValue>birds</LexicalValue>
  </PreferredTerm>
  <HasHierRelConcept Role="BT">C001</HasHierRelConcept>
</ThesaurusConcept>
```

Concepts & Terms

in DD8723-5

C001 a ThesaurusConcept

C001 PreferredTerm "animals"

C001 NonPreferredTerm "fauna"

C001 NonPreferredTerm "aminals"

C003 a ThesaurusConcept

C003 PreferredTerm "birds"

C001 NT C003

Term relations

in SKOS

`ex:acronym` `rdfs:subPropertyOf` `xl:labelRelation` .

`ex:Label11` `rdf:type` `xl:Label` .

`ex:Label11` `xl:literalForm` "USA" .

`ex:Label15` `rdf:type` `xl:Label` .

`ex:Label15` `xl:literalForm` "United States of America" .

`ex:Label15` `ex:acronym` `ex:Label11` .

Term relations

in DD8723-5

```
<PreferredTerm dc:identifier="11">  
  <LexicalValue>United States of America</LexicalValue>  
  <UF Role="UF/AB">15</UF>  
</PreferredTerm>  
<NonPreferredTerm dc:identifier="15">  
  <LexicalValue>USA</LexicalValue>  
  <USE Role="USE/FT">11</USE>  
</NonPreferredTerm>
```

Node labels

agricultural industries

- . < people >
- . . dairy personnel
- . . farm managers
- . . shepherds

Node labels

in SKOS

`ex:AgriculturalIndustries rdf:type skos:Concept .`

`ex:AgriculturalIndustries skos:prefLabel "agricultural industries" .`

`ex:foo rdf:type skos:Collection .`

`ex:foo rdfs:label "people" .`

`ex:foo skos:member ex:DairyPersonnel .`

`ex:foo skos:member ex:FarmManagers .`

`ex:foo skos:member ex:Shepherds .`

Node labels

in DD8723-5

AgriculturalIndustries a ThesaurusConcept

AgriculturalIndustries PreferredTerm "agricultural industries"

foo a ThesaurusArray

foo HasSuperOrdinate AgriculturalIndustries

foo IsLabelledBy "people"

foo HasMember DairyPersonnel

foo HasMember FarmManagers

foo HasMember Shepherds

Mapping

in SKOS

- Support for
 - broad match
 - narrow match
 - related match
 - exact match

Mapping

in DD8723-5

Although mapping principles are
discussed in BS8723-3

a format for data exchange is not
provided in DD8723-5

Compound non-preferred terms

"coal mining"

USE "coal"

+ "mining"

"coal"

UF+ "coal mining"

"mining"

UF+ "coal mining"

Compound non-preferred terms

in DD8723-5

```
<CompoundNonPreferredTerm dc:identifier="4">  
  <LexicalValue>coal mining</LexicalValue>  
  <USE Role="USE +">1</USE>  
  <USE Role="USE +">2</USE>  
</CompoundNonPreferredTerm>
```

```
<PreferredTerm dc:identifier="1">  
  <LexicalValue>coal</LexicalValue>  
  <UF Role="UF +">4</UF>  
</PreferredTerm>  
<PreferredTerm dc:identifier="2">  
  <LexicalValue>mining</LexicalValue>  
  <UF Role="UF +">4</UF>  
</PreferredTerm>
```

Compound
non-preferred terms

in SKOS

Not part of the standard