

Metadata Schema and Crosswalk Registry

SYMPOSIUM “CROSS-CUTTING RESEARCH SUPPORT SERVICES”

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Metadata Schema and Crosswalk Registry

- Allows for registration of existing schemas and crosswalks in multiple formats
- Provides a harmonized view to schemas expressed in different formats
- Includes a tool for creating crosswalks between registered schemas
- Facilitates the operationalization of crosswalks
- Handles versioning and assigns handles

MSCR glossary

Schema

Structural definition of data (cf. Ontology and complex data types). Should be owned or maintained by someone or something. Consists of properties

Vocabulary schema

List of things. Can be hierarchical or flat.

Property

Data typed. Can be simple or complex. Has cardinality.

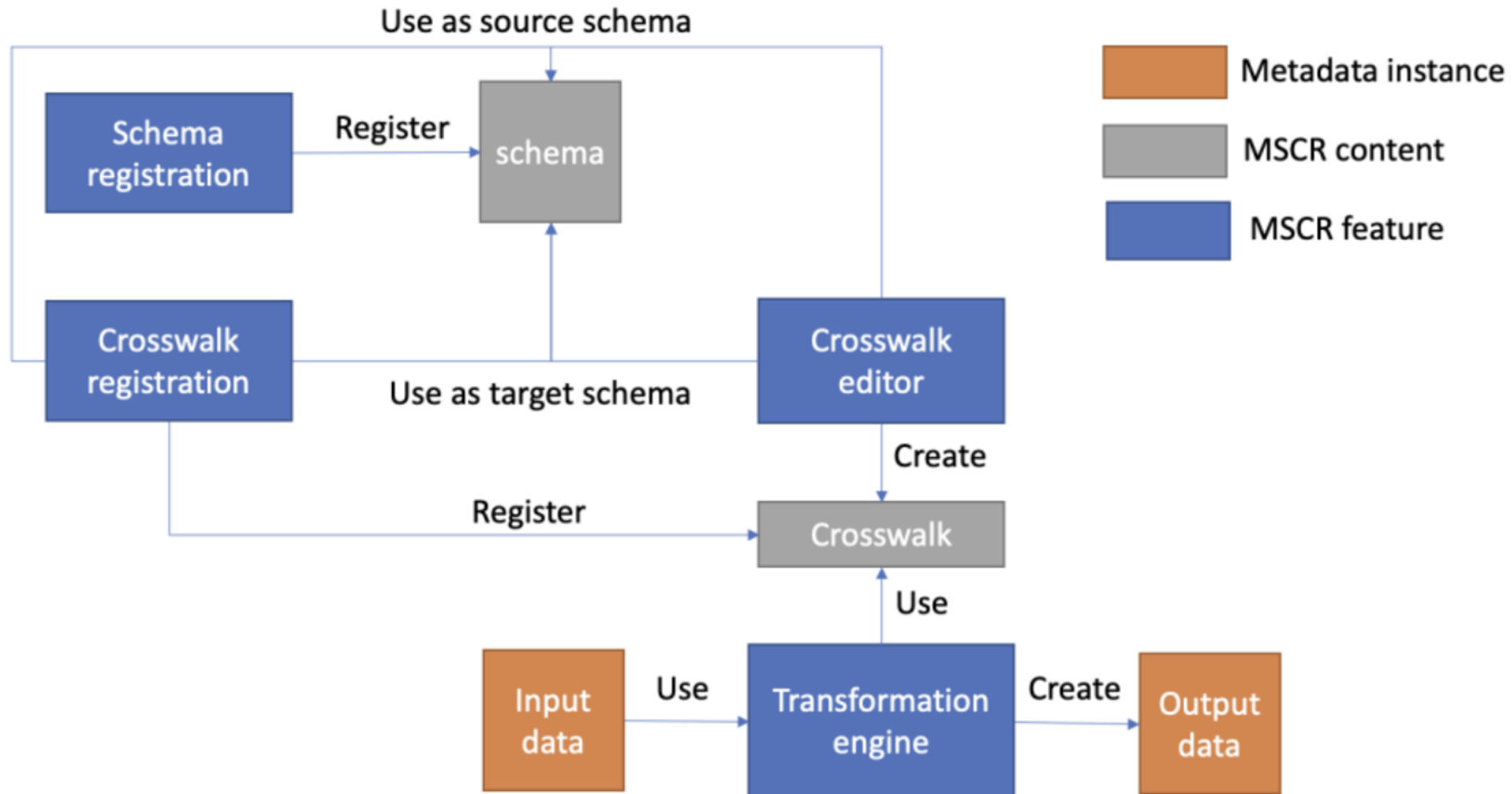
Mapping

Description of a link between two property sets. Mainly manually curated (cf. automated mapping)


Crosswalk

Set of mappings. Binds together two registered schemas

Main features



Mapping editor - The vision

 Type mismatch between source and target

<p>Source: AffiliationIdentifier</p> <p>Source type: String</p> <p>Description: Example value: xx-yy-xx-yyxx</p> <p>Source filter</p> <p><i>Target</i> ▼</p> <p>filter { <i>Operator</i> ▼ } <i>Value</i></p> <p>Source operation</p> <p>StringToInt ▼</p>	<p>Mapping operation</p> <p>FormatDate ▼</p> <p><i>pattern</i></p> <p><i>inputFormat</i></p> <p>Mapping type</p> <p>Exact match ▼</p>	<p>Target: dcterms:indentifier</p> <p>Target type: Int</p> <p>Description: Example value: xyxyxyxyxy</p> <p>Target operation</p> <p>addStringPrefix ▼</p> <p><i>Prefix</i></p>
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Save **Cancel**

Source document

```
<resource>
  <identifier identifierType="DOI">10.5072/example-full</identifier>
  <creators>
    <creator>
      <givenName>Elizabeth</givenName>
      <familyName>Miller</familyName>
    </creator>
  </creators>
  <titles>
    <title>Full DataCite XML Example</title>
  </titles>
  <resourceType resourceTypeGeneral="Software">
    XML
  </resourceType>
  <rightsList>
    <rights
rightsURI="http://creativecommons.org/publicdomain/zero/1.0/">
      CC0 1.0 Universal
    </rights>
  </rightsList>
</resource>
```



Target document

```
<oai_dc:dc>
  <dc:identifier>
    https://doi.org/10.5072/example-full
  </dc:identifier>
  <dc:creator>Miller, Elizabeth</dc:creator>
  <dc:title>
    Full DataCite XML Example
  </dc:title>
  <dc:type>Software</dc:type>
  <dc:rights>
    http://creativecommons.org/publicdomain/zero/1.0/
  </dc:rights>
  <dc:rights>
    CC0 1.0 Universal
  </dc:rights>
</oai_dc:dc>
```

Demo



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