



Unser Weg zu einem RiC-basierten OAI

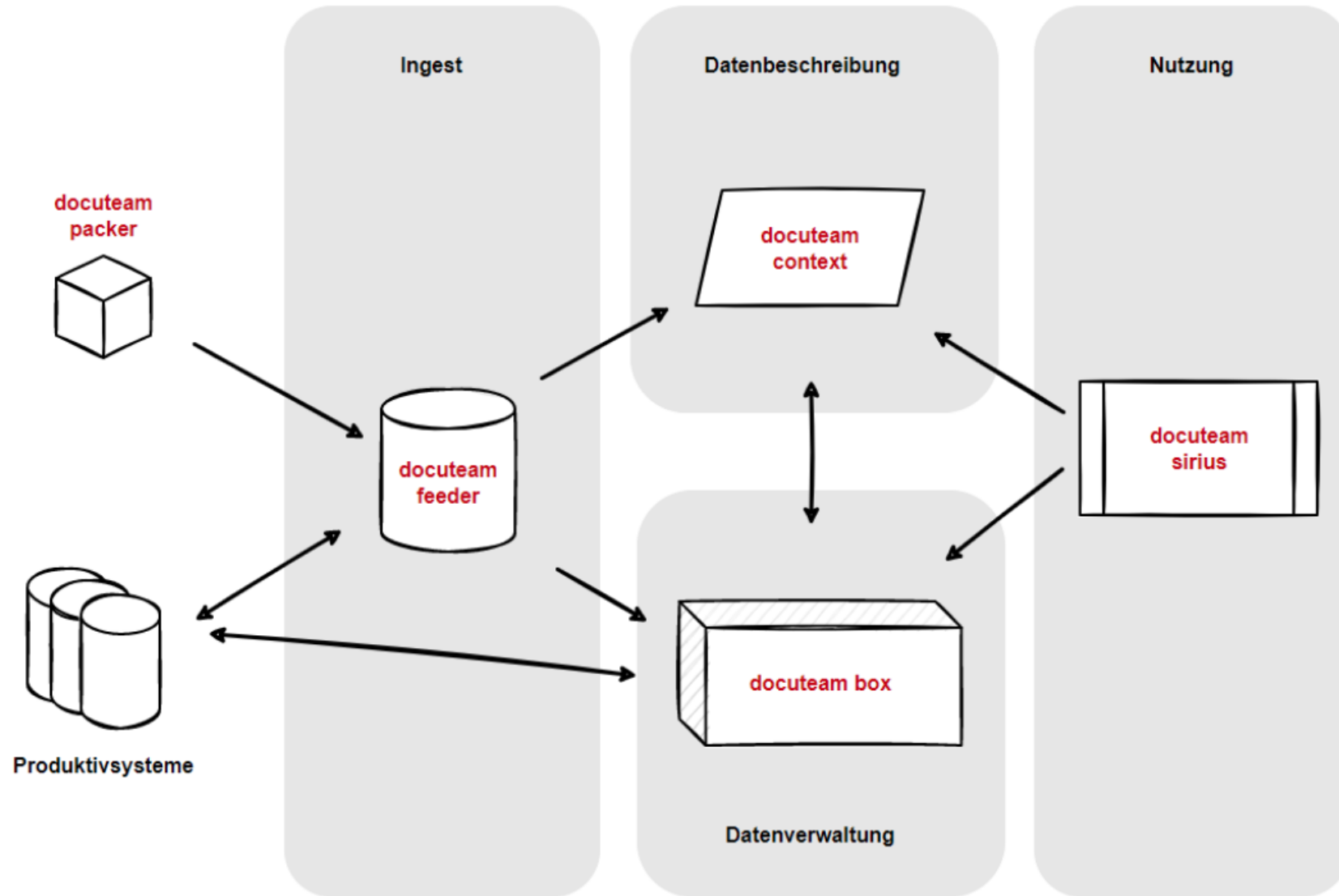
AUdS, 5. März 2024

EXPERT GROUP ON ARCHIVAL DESCRIPTION - EGAD

RELEASE OF THE FIRST THREE PARTS OF THE RECORDS IN CONTEXTS ARCHIVAL DESCRIPTION STANDARD, VERSION 1.0: RIC-FAD, RIC-CM, AND RIC-O

- RiC-FAD Records in Contexts – Foundations of Archival Description
- RiC-CM Records in Contexts – Conceptual Model
- RiC-O Records in Contexts – Ontology

System



Ausgangslage

Matterhorn METS (XML)

- METS Containerformat
- PREMIS technische und administrative Metadaten
- EAD deskriptive Metadaten

<https://docs.docuteam.ch/introduction/de/matterhorn>

```
<METS:digiprovMD ID="_20230726152832120">
  <METS:mdWrap MDTYPE="PREMIS">
    <METS:xmlData>
      <PREMIS:premis version="2.2">
        <PREMIS:object xsi:type="PREMIS:file">
          <PREMIS:objectIdentifier>
            <PREMIS:objectIdentifierType>Docuteam</PREMIS:objectIdentifierType>
            <PREMIS:objectIdentifierValue>_20220316143540180</PREMIS:objectIdentifierValue>
          </PREMIS:objectIdentifier>
          <PREMIS:objectCharacteristics>
            <PREMIS:compositionLevel>0</PREMIS:compositionLevel>
            <PREMIS:fixity>
              <PREMIS:messageDigestAlgorithm>SHA-512</PREMIS:messageDigestAlgorithm>
              <PREMIS:messageDigest>
                5d56f99a09697bf6fd24b88e8797981535ae319adb595599f976bd77fa7
              </PREMIS:messageDigest>
            </PREMIS:fixity>
            <PREMIS:size>1357478445</PREMIS:size>
            <PREMIS:format>
              <PREMIS:formatDesignation>
                <PREMIS:formatName>Matroska</PREMIS:formatName>
              </PREMIS:formatDesignation>
              <PREMIS:formatRegistry>
                <PREMIS:formatRegistryName>PRONOM</PREMIS:formatRegistryName>
                <PREMIS:formatRegistryKey>fmt/569</PREMIS:formatRegistryKey>
              </PREMIS:formatRegistry>
            </PREMIS:format>
          </PREMIS:objectCharacteristics>
          <PREMIS:originalName xlink:type="simple">TD_55_00008_6.mkv</PREMIS:originalName>
        </PREMIS:object>
        <PREMIS:event>
          <PREMIS:eventIdentifier>
```

Ausgangslage

Matterhorn RDF

- RiC-O strukturelle und deskriptive Metadaten
- PREMIS technische und administrative Metadaten

<https://docs.docuteam.ch/introduction/de/matterhornRDF>

Beispiele: deskriptive Metadaten

[...]

```
<EAD:archdesc level="otherlevel" otherlevel="Undefiniert">
  <EAD:did>
    <EAD:unittitle label="main">Protokolle</EAD:unittitle>
  </EAD:did>
  <EAD:dsc>
    <EAD:c level="otherlevel" otherlevel="Undefiniert">
      <EAD:did>
        <EAD:unittitle label="main">Sitzung 1</EAD:unittitle>
        <EAD:unitid type="refCode">5/2/28/1</EAD:unitid>
      </EAD:did>
      <EAD:c level="otherlevel" otherlevel="Undefiniert">
        <EAD:did>
          <EAD:unittitle label="main">Geschäft 1</EAD:unittitle>
        </EAD:did>
      </EAD:c>
    </EAD:c>
  </EAD:dsc>
</EAD:archdesc>
```

[...]

```
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rico: <https://www.ica.org/standards/RiC/ontology#> .
```

```
<http://example.com/base/rr_123#unittitle>
  a rico>Title ;
  rico:isOrWasTitleOf <http://example.com/base/rr_123> ;
  rico:hasOrHadCategory <http://docuteam.ch/vocab/titlecategory/unittitle>;
  rico:textualValue "Geschäft 1" .
```

```
<http://example.com/base/rr_123>
  a rico:RecordResource ;
  rico:isOrWasIncludedIn <http://example.com/base/rr_456> .
```

```
<http://example.com/base/rr_456>
  a rico:RecordResource ;
```

```
<http://example.com/base/rr_456#unittitle>
  a rico>Title ;
  rico:isOrWasTitleOf <http://example.com/base/rr_456> ;
  rico:hasOrHadCategory <http://docuteam.ch/vocab/titlecategory/unittitle>;
  rico:textualValue "Sitzung 1" .
```

```
<http://example.com/base/rr_456#refcode>
  a rico:Identifier ;
  rico:isOrWasIdentifierOf <http://example.com/base/rr_456> ;
  rico:hasIdentifierType <http://docuteam.ch/vocab/identifiertypes/refcode>;
  rico:normalizedValue "5/2/28/1" .
```

Beispiele: deskriptive Metadaten

Verzeichnungsdatum und Bearbeiter:in

[...]

```
<EAD:processinfo type="date">
  <EAD:p>10.02.2024</EAD:p>
</EAD:processinfo>
<EAD:processinfo type="archivist">
  <EAD:p>Muster, Max</EAD:p>
</EAD:processinfo>
```

[...]

```
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rico: <https://www.ica.org/standards/RiC/ontology#> .

<http://example.com/base/rr_123#processinfo>
  rico:isEventAssociatedWith <http://example.com/base/rr_123> ;
  a rico:Event ;
  rico:hasEventType <https://docuteam.ch/vocab/eventtypes/processinfo> .
<http://example.com/base/rr_123#processinfodate>
  rico:isDateAssociatedWith <http://example.com/base/rr_123#processinfo> ;
  a rico>Date;
  rico:hasOrHadCategory <https://docuteam.ch/vocab/datecategory/processinfodate>;
  rico:normalizedDateValue "10.02.2024"
<http://example.com/base/rr_123#processinfoarchivist>
  rico:eventRelationHasSource <http://example.com/base/rr_123#processinfo> ;
  a rico:EventRelation ;
  rico:hasOrHadCategory <https://docuteam.ch/vocab/agentcategory/processinfoarchivist>.
<http://example.com/base/a_789>
  rico:thingIsTargetOfEventRelation <http://example.com/base/rr_123#processinfoarchivist> ;
  a rico:Agent ;
  rico:name "Muster, Max" .
```

Beispiele: technische Metadaten

```
<PREMIS:event>
  <PREMIS:eventIdentifier>
    <PREMIS:eventIdentifierType>Docuteam</PREMIS:eventIdentifierType>
    <PREMIS:eventIdentifierValue>_12345</PREMIS:eventIdentifierValue>
  </PREMIS:eventIdentifier>
  <PREMIS:eventType>Renaming</PREMIS:eventType>
  <PREMIS:eventDateTime>2023-04-20T17:36:06</PREMIS:eventDateTime>
  <PREMIS:eventDetail>Renamed from 'folder' to 'folder1'. Performed by:
    'Max Muster'</PREMIS:eventDetail>
  <PREMIS:eventOutcomeInformation>
    <PREMIS:eventOutcome>Success</PREMIS:eventOutcome>
  </PREMIS:eventOutcomeInformation>
  <PREMIS:linkingObjectIdentifier xlink:type="simple">
  <PREMIS:linkingObjectIdentifierType>Docuteam</PREMIS:...>
    <PREMIS:linkingObjectIdentifierValue>_98765</PREMIS:...>
  </PREMIS:linkingObjectIdentifier>
</PREMIS:event>
```

```
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rico: <https://www.ica.org/standards/RiC/ontology#> .
@prefix premis: <http://www.loc.gov/premis/rdf/v3/> .

<http://example.com/base/rr_123/i_456#event_12345>
  a premis:Event, rico:Activity ;
  rico:hasActivityType <http://docuteam.ch/vocab/activitytypes/renaming> ;
  rico:eventIsSourceOfEventRelation
    <http://example.com/base/rr_123/i_456#eventsrelation>;
  rico:date "2023-04-20T17:36:06" ;
  premis:outcome <http://docuteam.ch/vocab/eventoutcomes/success> ;
  premis:note "Renamed from 'folder' to 'folder1'. Performed by: 'Max Muster'".
```

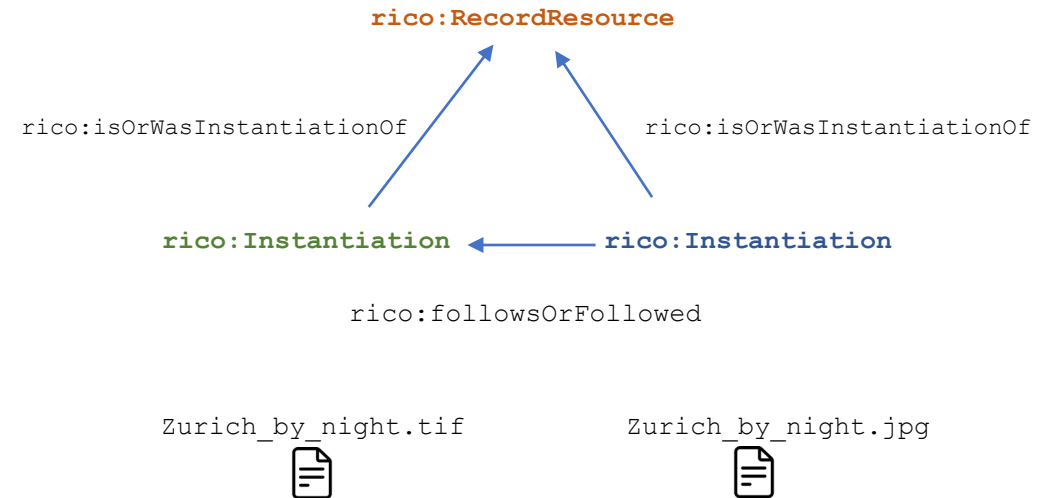

rico:Instantiation / premis:Representation

```
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rico: <https://www.ica.org/standards/RiC/ontology#> .
@prefix premis: <http://www.loc.gov/premis/rdf/v3/> .
```

```
<http://example.com/base/rr_123/i_456>
  a rico:Instantiation, premis:Representation;
  rico:isOrWasInstantiationOf <http://example.com/base/rr_123>;
  rico:name "Zurich_by_night.jpg";
  premis:originalName "Zurich_by_night.tif";
  rico:followsOrFollowed <http://example.com/base/rr_123/i_789>;
  rico:hasOrHadCategory <http://docuteam.ch/vocab/instantiationcategory/file>;
  <https://www.w3.org/ns/prov#wasGeneratedBy>
    <http://example.com/base/rr_123/i_789#event_777> .
```

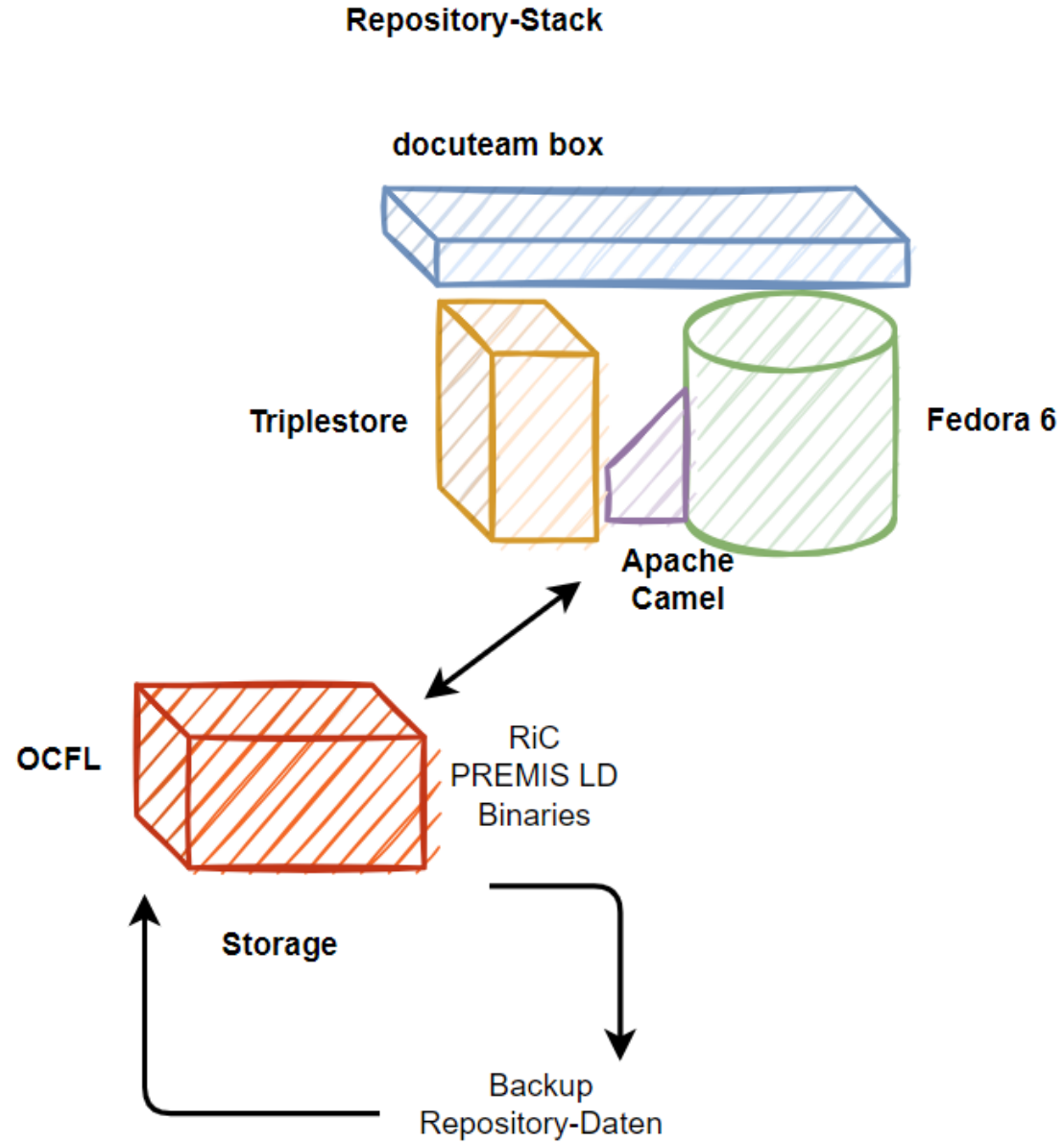
```
<http://example.com/base/rr_123/i_789>
  a rico:Instantiation, premis:Representation;
  rico:isOrWasInstantiationOf <http://example.com/base/rr_123>;
  rico:name "Zurich_by_night.tif";
  premis:originalName "Zurich_by_night.tif";
  rico:hasOrHadCategory <http://docuteam.ch/vocab/instantiationcategory/file>;
```

```
<http://example.com/base/rr_123/i_789#event_777>
  a premis:Event, rico:Activity;
  rico:hasActivityType <http://docuteam.ch/vocab/activitytypes/migration>;
  rico:eventIsSourceOfEventRelation <http://example.com/base/rr_123/i_789#eventsrelation>;
  rico:date "2023-04-20T17:37:48";
  premis:outcome <http://docuteam.ch/vocab/eventoutcomes/success>;
  premis:note "Application:docuteam packer - Source: Zurich_by_night.tif -
    Target: Zurich_by_night.jpg. Performed by: 'Max Muster'" .
```





Repository



SPARQL-Suche bearbeiten

Name

Alle Objekte zu einem Root-PID

SPARQL-Abfrage

```
1 PREFIX rico: <https://www.ica.org/standards/RiC/ontology#>
2
3 SELECT ?parent_rr ?parent_pid_value ?child_rr ?child_pid_value
4 WHERE {
5
6   ?root_pid rico:isOrWasIdentifierOf ?root_i ;
7           rico:hasIdentifierType <http://docuteam.ch/vocab/identifiertypes/pid> ;
8           rico:normalizedValue "mandantGei:99" .
9   ?root_i rico:isInstantiationOf ?root_rr .
10
11  ?child_rr rico:isOrWasIncludedIn+ ?root_rr .
12
13  ?child_pid rico:isOrWasIdentifierOf ?child_i ;
14           rico:hasIdentifierType <http://docuteam.ch/vocab/identifiertypes/pid> ;
15           rico:normalizedValue ?child_pid_value .
16  ?child_i rico:isInstantiationOf ?child_rr .
```


Format

TSV

Zurück

Abfrage ausführen

Abfrage aktualisieren



```
?parent_rr ?parent_pid_value ?child_rr ?child_pid_value
<https://repository2-onsitedemo.docuteam.ch/fcrepo/rest/mandantGei/rr_20231103171031598> "mandantGei:99" <https://repository2-ons
<https://repository2-onsitedemo.docuteam.ch/fcrepo/rest/mandantGei/rr_20231103171031598> "mandantGei:99" <https://repository2-ons
<https://repository2-onsitedemo.docuteam.ch/fcrepo/rest/mandantGei/rr_20231103171031598> "mandantGei:99" <https://repository2-ons
```

docuteam box / Fedora

Einfache Suche

PID	<input type="text"/>	Dateiformate	<input type="text"/>
Parent PID	<input type="text"/>	Resourcen-Typen	<input type="text"/>
Titel	<input type="text"/>	Ablieferungsvereinbarungen	<input type="text"/>
Erstellt nach	<input type="text" value="TT.MM.JJJJ"/>	Präfixe	<input type="text"/>
Erstellt vor	<input type="text" value="TT.MM.JJJJ"/>		

Suchen

Parent PID	PID	Titel ^	PUID	Resourcen-Typ	Erstellungsdatum
mandantGei:156	mandantGei:157	{2965A3BB-C42D-480F-9BA7-548331FB0A2C}.pdf	fmt/354	File	14.12.2023 16:24
mandantGei:217	mandantGei:218	{2965A3BB-C42D-480F-9BA7-548331FB0A2C}.pdf	fmt/354	File	19.12.2023 15:15
mandantGei:145	mandantGei:146	{3AD4D0BA-933C-48E5-A897-41A79638DF8}.pdf	fmt/354	File	14.12.2023 16:24
mandantGei:206	mandantGei:207	{3AD4D0BA-933C-48E5-A897-41A79638DF8}.pdf	fmt/354	File	19.12.2023 15:15

https://repository2-onsitedemo.docuteam.ch/fcrepo/rest/mandantGei/rr_20231214172154471/i_20231214172154487

Home / mandantGei / rr_20231214172154471 / i_20231214172154487

Created at
2023-12-14T16:24:10.5160055Z by fedoraAdmin
Last Modified at
2023-12-14T16:24:10.5160055Z by fedoraAdmin
Children 0

Properties

fedora: **created**
2023-12-14T16:24:10.516005500Z
fedora: **createdBy**
fedoraAdmin
fedora: **lastModified**
2023-12-14T16:24:10.516005500Z
fedora: **lastModifiedBy**
fedoraAdmin
http://www.loc.gov/premis/rdflv3/ **originalName**
SIP_20070923_eCH1.1G_RIS_vorgang
https://www.ica.org/standards/RIC/ontology# **hasOrHadCategory**
http://docuteam.ch/vocab/instantiationcategory/folder
.../ontology# **isInstantiationOf**
https://repository2-onsitedemo.docuteam.ch/fcrepo/rest/mandantGei/rr_20231214172154471
.../ontology# **name**
SIP_20070923_eCH1.1G_RIS_vorgang
rdf: **type**
http://fedora.info/definitions/v4/repository#Container
http://fedora.info/definitions/v4/repository#Resource
http://www.loc.gov/premis/rdflv3/Representation
http://www.w3.org/ns/ldp#BasicContainer
http://www.w3.org/ns/ldp#Container
http://www.w3.org/ns/ldp#RDFSource
http://www.w3.org/ns/ldp#Resource
https://www.ica.org/standards/RIC/ontology#Instantiation

Other Resources

https://repository2-onsitedemo.docuteam.ch/fcrepo/rest/mandantGei/rr_20231214172154471/i_20231214172154487#event_20231214172154502 +

https://repository2-onsitedemo.docuteam.ch/fcrepo/rest/mandantGei/rr_20231214172154471/i_20231214172154487#eventsrelation +

https://repository2-onsitedemo.docuteam.ch/fcrepo/rest/mandantGei/rr_20231214172154471/

Create New Child Resource

Type

Identifier

RDF (turtle)

```
<> a <http://purl.org/dc/dcmitype/Collection>
```

Add

Update Properties

```
PREFIX premis: <http://www.loc.gov/premis/rdflv1#>  
PREFIX test: <info:fedora/test/>  
PREFIX memento: <http://memento.web.org/ns#>  
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>  
PREFIX webac: <http://fedora.info/definitions/v4/webac#>  
PREFIX act: <http://www.w3.org/ns/auth/ac#>
```

Update

Versioning

Archiv 111 🌐 🌙 📄

Records

Standorte

Normdaten ▾

- Akteure
- Orte
- Konzepte

Administration ▾

- Regeln
- Listen
- Felder
- Formulare

Suche

Suchbegriff (min. 3 Zeichen)

- ▼ Gemeindearchiv Muster (2000)
 - ▼ Altes Archiv (Akten ausserhalb des Registraturplans) (2002-01-01 - 2002-10-12)
 - 1 Bauen, Umwelt, Verkehr
 - Finanzen, Steuern, Versicherungen (2000 - 2010)
 - 2 Bildung, Kirche, Kultur
 - 4 Gemeindeorganisation
 - 5 Öffentliche Sicherheit
 - 6 Soziales Netz
 - 7 Versorgung, Werke
 - 8 Volkswirtschaft
 - 0 Verschiedenes
 - ▶ Neues Archiv (2023-12-12 - 2025-12-31)
 - ▶ B1 ds
 - ▶ 22 Hallihallo (2006 - 2012)
 - ▶ B3 Beispiel Gemeinde Muster mit CPF-Einträg
 - ▶ B4 Bestand mit Schutzfrist
 - ▶ B4 Kopie von Bestand mit Schutzfrist
 - Demo test (2000-01-01 - 2002-01-09)
 - Demo 07112023 (2000-01-01)
 - Copy of Demo 07112023 (2000-01-01)

d1e114

refCodeAdmin

Altes Archiv (Akten ausserhalb des Registraturplans)

unitTitle *

2002.01.01

from

2002.10.12

to

Geschützte Personendaten ✕ ▾

Beginn der Schutzfrist: 2002. Dauer: 50 Jahre. Ende: 2052.

accessRestrictionClassification

2052

accessRestrictionClosureYear

Instanzen

+ Neue Instanz hinzufügen

Instanz 08-11-2023 10:31:16 ▾

Archiv 111

Records

Standorte

Normdaten

Akteure

Orte

Konzepte

Administration

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Listen

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Suchbegriff (min. 3 Zeichen)

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 - 5 Öffentliche Sicherheit
 - 6 Soziales Netz
 - 7 Versorgung, Werke
 - 8 Volkswirtschaft
 - 0 Verschiedenes
 - Neues Archiv (2023-12-12 - 2025-12-31)
 - B1 ds
 - 22 Hallihallo (2006 - 2012)
 - B3 Beispiel Gemeinde Muster mit CPF-Eintrag
 - B4 Bestand mit Schutzfrist
 - B4 Kopie von Bestand mit Schutzfrist
 - Demo test (2000-01-01 - 2002-01-09)
 - Demo 07112023 (2000-01-01)
 - Copy of Demo 07112023 (2000-01-01)
 - Demo (2000 - 2002)
 - Record ohne Titel
 - Record ohne Titel
 - CMA CMA
 - République de la Mémoire Oubliée (1830-04-14)
 - ICA Workshop - Ushuaia City Archives
 - Record ohne Titel
 - I Andreas Tests

+ Neuer Eintrag + Neuer Untereintrag

Export RiC (Turtle)

Was: Diesen Record

Diesem Record

Diesem Record und seine direkten Nachfahren

Diesem Record und alle Nachfahren

```
@prefix schema: <https://schema.org/>.
@prefix skos: <http://www.w3.org/2004/02/skos/core#>.
@prefix crm: <https://www.cidoc-crm.org/cidoc-crm/>.

<https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9> a rico:RecordResource.
<https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#accessrestrict> rico:ruleRelationHasTarget <https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#accessrestrictionclassification_1>
a rico:RuleRelation.
<https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#accessrestrictionclassification_1> rico:ruleIsSource
a rico:Rule;
rico:name "protectedPersonalData";
rico:hasOrHadRuleType "https://docuteam.ch/vocab/ruletypes/accessrestrictionclassification";
schema:position 1.
<https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#accessrestrictionclosureyear_1> rico:isDateAssociated
a rico:Date;
rico:normalizedDateValue "2052";
rico:hasOrHadRuleType "https://docuteam.ch/vocab/datecategory/accessrestrictionclosureyear";
schema:position 1.
<https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#accessrestrictionperiod_1> rico:ruleIsSourceOfRule
a rico:Rule;
rico:name "50";
rico:hasOrHadRuleType "https://docuteam.ch/vocab/ruletypes/accessrestrictionperiod";
schema:position 1.
<https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#accessrestrictionperiodbaseyear_1> rico:ruleIsSource
a rico:Rule;
rico:date "to";
rico:hasOrHadRuleType "https://docuteam.ch/vocab/ruletypes/accessrestrictionperiodbaseyear";
schema:position 1.
<https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#appraisal> rico:isEventAssociatedWith <https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#appraisal_1>
rico:hasEventType "https://docuteam.ch/vocab/eventtypes/appraisal".
<https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#appraisalisonhold_1> rico:regulatesOrRegulated
a rico:Rule;
rico:name "false";
rico:hasOrHadRuleType "https://docuteam.ch/vocab/ruletypes/appraisalisonhold";
schema:position 1.
<https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#from_1> rico:isBeginningDateOf <https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#to_1>
a rico:Date;
rico:normalizedDateValue "20020101";
rico:hasOrHadCategory "https://docuteam.ch/vocab/datecategory/from";
schema:position 1.
<https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#to_1> rico:isEndDateOf <https://context.docuteam.cloud/111/rr_c2f748ac-5ab0-4a92-a5b9-7fe549d1fdb9#from_1>
a rico:Date;
```

Kopieren Herunterladen

- Matterhorn RDF als neues Daten-/Metadatenmodell für archivierte Informationspakete
 - Umsetzung von Records in Context
 - dadurch "native" Unterstützung von Instantiations
 - filigrane Datenmodellierung, mächtige Recherchemöglichkeiten
- XML/RDF-"Reibungen":
 - Reihenfolge (`rico:isOrWasIncludedIn/rico:followsOrFollowed` vs. XML-Verschachtelung)
 - wiederholbare Felder
- Herausforderungen:
 - Performanz Indizierung und Recherche
 - Versionierung des Datenmodells, Evolution von RiC

Kontakt

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