

## REST Resources

This API supports a [Representational State Transfer \(REST\)](#) model for accessing a set of resources through a fixed set of operations. The following resources are accessible through the RESTful model:

- [CategoryController](#)
- [MaterialController](#)
- [SchedaController](#)
- [TypeObjectController](#)

The REST resources expose a data model that is supported by a set of client-side libraries that are made available on the [files and libraries](#) page.

There is also a [WADL document](#) describing the REST API.

## Data Model

All endpoints act on a common set of data. The data can be represented with different media (i.e. "MIME") types, depending on the endpoint that consumes and/or produces the data. The data can be described by [XML Schema](#), which definitively describes the XML representation of the data, but is also useful for describing the other formats of the data, such as [JSON](#).

This document will describe the data using terms based on [XML Schema](#). Data can be grouped by namespace, with a schema document describing the elements and types of the namespace. Generally speaking, types define the structure of the data and elements are instances of a type. For example, elements are usually produced by (or consumed by) a REST endpoint, and the structure of each element is described by its type.

## Namespace "ns0"

Namespace URI:	<a href="http://www.idra.info/rest">http://www.idra.info/rest</a>
XSD:	<a href="#">idra.xsd</a>

## Data Elements

- [age](#)
- [artifact](#)
- [dimension](#)
- [inventory](#)
- [item](#)
- [location](#)
- [museum](#)
- [picture](#)

# Data Types

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- [age](#)
- [artifact](#)
- [dimension](#)
- [inventory](#)
- [itemBibliography](#)
- [location](#)
- [museum](#)
- [picture](#)

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## CategoryController

The following resources are part of this group:

- [/category/all](#)

## /category/all

Mount Point: [/category/all](#)

## GET

The method will return the list of object's categories in the local storage.

## Response Body

element:	(custom)
media types:	application/xml application/json

List of category

## MaterialController

The following resources are part of this group:

- [/material/all](#)

## /material/all

Mount Point: [/material/all](#)

## GET

The method will return the list of object's materials in the local storage.

## Response Body

element:	(custom)
media types:	application/xml application/json

List of materials

## SchedaController

The following resources are part of this group:

- [/artifact/all](#)
- [/artifact/{nctn}](#)

## /artifact/all

Mount Point: [/artifact/all](#)

## GET

The method will return the list of artifacts in the local storage.

### Response Body

element:	(custom)
media types:	application/xml application/json

List of artifacts

## /artifact/{nctn}

Mount Point: [/artifact/{nctn}](#)

## GET

The method will return the single artifact in the local storage.

### Parameters

---

name	description	type	default
nctn	number of the object	path	

## Response Body

---

element:	<a href="#">artifact</a>
media types:	application/xml application/json

Artifact single object

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## TypeObjectController

The following resources are part of this group:

- [/type/all](#)

## /type/all

Mount Point: [/type/all](#)

## GET

The method will return the list of object's typologies in the local storage.

## Response Body

element:	(custom)
media types:	application/xml application/json

List of category

```

<?xml version="1.0" encoding="UTF-8" ?>
- <wadl:application xmlns:wadl="http://wadl.dev.java.net/2009/02" xmlns:xs="http://www.w3.org/2001/XMLSchema" >
  <wadl:doc xmlns:enunciate="http://enunciate.codehaus.org/" enunciate:generatedBy="Enunciate-1.26.1" />
  - <wadl:grammars >
    <wadl:include href="idra.xsd" />
  </wadl:grammars >
  - <wadl:resources base="http://api.idra.info" >
    - <wadl:resource path="/artifact/all" >
      - <wadl:method name="GET" >
        - <wadl:doc >
          - <![CDATA[
            |The method will return the list of artifacts in the local
            |storage.
          ]]>
          </wadl:doc >
        - <wadl:response >
          - <wadl:doc >
            <![CDATA[ List of artifacts ]]>
            </wadl:doc >
            <wadl:representation mediaType="application/xml" />
            <wadl:representation mediaType="application/json" />
          </wadl:response >
        </wadl:method >
      </wadl:resource >
    - <wadl:resource path="/artifact/{nctn}" >
      - <wadl:param name="nctn" style="template" >
        - <wadl:doc >
          <![CDATA[ number of the object ]]>
          </wadl:doc >
        </wadl:param >
      - <wadl:method name="GET" >
        - <wadl:doc >
          - <![CDATA[
            |The method will return the single artifact in the local
            |storage.
          ]]>
          </wadl:doc >
          <wadl:request />
        - <wadl:response >
          - <wadl:doc >
            <![CDATA[ Artifact single object ]]>
            </wadl:doc >
            <wadl:representation mediaType="application/xml" element="idra:artifact"
              xmlns:idra="http://www.idra.info/rest" />
            <wadl:representation mediaType="application/json" />
          </wadl:response >
        </wadl:method >
      </wadl:resource >
    - <wadl:resource path="/category/all" >
      - <wadl:method name="GET" >
        - <wadl:doc >
          - <![CDATA[
            |The method will return the list of object's categories in the local
            |storage.
          ]]>
          </wadl:doc >
        - <wadl:response >
          - <wadl:doc >
            <![CDATA[ List of category ]]>
            </wadl:doc >
            <wadl:representation mediaType="application/xml" />
            <wadl:representation mediaType="application/json" />
          </wadl:response >
        </wadl:method >
      </wadl:resource >
    - <wadl:resource path="/material/all" >
      - <wadl:method name="GET" >
        - <wadl:doc >
          - <![CDATA[
            |The method will return the list of object's materials in the local
            |storage.
          ]]>
          </wadl:doc >
        - <wadl:response >
          - <wadl:doc >
            <![CDATA[ List of materials ]]>
            </wadl:doc >
            <wadl:representation mediaType="application/xml" />
            <wadl:representation mediaType="application/json" />
          </wadl:response >
        </wadl:method >
      </wadl:resource >
  </wadl:resources >
</wadl:application >

```



```
</wadl:resource>
- <wadl:resource path="/type/all">
- <wadl:method name="GET">
  - <wadl:doc>
    - <![CDATA[
      |The method will return the list of object's typologies in the local
      |storage.
    ]]>
  </wadl:doc>
- <wadl:response>
  - <wadl:doc>
    <![CDATA[ List of category ]]>
  </wadl:doc>
  <wadl:representation mediaType="application/xml" />
  <wadl:representation mediaType="application/json" />
</wadl:response>
</wadl:method>
</wadl:resource>
</wadl:resources>
</wadl:application>
```

## Data Model

All endpoints act on a common set of data. The data can be represented with different media (i.e. "MIME") types, depending on the endpoint that consumes and/or produces the data. The data can be described by [XML Schema](#), which definitively describes the XML representation of the data, but is also useful for describing the other formats of the data, such as [JSON](#).

This document will describe the data using terms based on [XML Schema](#). Data can be grouped by namespace, with a schema document describing the elements and types of the namespace. Generally speaking, types define the structure of the data and elements are instances of a type. For example, elements are usually produced by (or consumed by) a REST endpoint, and the structure of each element is described by its type.

## Namespace "ns0"

Namespace URI:	<a href="http://www.idra.info/rest">http://www.idra.info/rest</a>
XSD:	<a href="#">idra.xsd</a>

## Data Elements

- [age](#)
- [artifact](#)
- [dimension](#)
- [inventory](#)
- [item](#)
- [location](#)
- [museum](#)
- [picture](#)

## Data Types

- [age](#)
- [artifact](#)
- [dimension](#)
- [inventory](#)
- [itemBibliography](#)
- [location](#)
- [museum](#)
- [picture](#)



```

<?xml version="1.0" encoding="UTF-8" ?>
- <xs:schema version="1.0" targetNamespace="http://www.idra.info/rest" xmlns:idra="http://www.idra.info/rest"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" >
  <xs:element name="age" type="idra:age" />
  <xs:element name="artifact" type="idra:artifact" />
  <xs:element name="dimension" type="idra:dimension" />
  <xs:element name="inventory" type="idra:inventory" />
  <xs:element name="item" type="idra:itemBibliography" />
  <xs:element name="location" type="idra:location" />
  <xs:element name="museum" type="idra:museum" />
  <xs:element name="picture" type="idra:picture" />
- <xs:complexType name="age">
  - <xs:sequence>
    <xs:element name="from" type="xs:int" minOccurs="0" />
    <xs:element name="to" type="xs:int" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
- <xs:complexType name="artifact">
  - <xs:sequence>
    - <xs:element name="pictures" minOccurs="0">
      - <xs:complexType>
        - <xs:sequence>
          <xs:element name="picture" type="idra:picture" minOccurs="0" maxOccurs="unbounded" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="category" type="xs:string" minOccurs="1" />
    <xs:element name="epoch" type="xs:string" minOccurs="0" />
    <xs:element name="extended-description" type="xs:string" minOccurs="0" />
  - <xs:element name="materials" minOccurs="0">
    - <xs:complexType>
      - <xs:sequence>
        <xs:element name="material" type="xs:string" minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="current-location" type="idra:location" minOccurs="0" />
- <xs:element name="inventories" minOccurs="0">
  - <xs:complexType>
    - <xs:sequence>
      <xs:element name="inventory" type="idra:inventory" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
  </xs:element>
  <xs:element name="age" type="idra:age" minOccurs="0" />
  <xs:element name="finding-location" type="idra:location" minOccurs="0" />
  <xs:element name="nctn" type="xs:string" minOccurs="1" />
  <xs:element name="description" type="xs:string" minOccurs="0" />
- <xs:element name="dimensions" minOccurs="0">
  - <xs:complexType>
    - <xs:sequence>
      <xs:element name="dimension" type="idra:dimension" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
  </xs:element>
- <xs:element name="bibliography" minOccurs="0">
  - <xs:complexType>
    - <xs:sequence>
      <xs:element name="item" type="idra:itemBibliography" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
  </xs:element>
  <xs:element name="museum" type="idra:museum" minOccurs="0" />
</xs:sequence>
</xs:complexType>
- <xs:complexType name="dimension">
  - <xs:sequence>
    <xs:element name="thickness" type="xs:double" minOccurs="0" />
    <xs:element name="weight" type="xs:double" minOccurs="0" />
    <xs:element name="length" type="xs:double" minOccurs="0" />
    <xs:element name="unit" type="xs:string" minOccurs="0" />
    <xs:element name="width" type="xs:double" minOccurs="0" />
    <xs:element name="height" type="xs:double" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
- <xs:complexType name="inventory">
  - <xs:sequence>
    <xs:element name="reference" type="xs:string" minOccurs="0" />
    <xs:element name="number" type="xs:int" minOccurs="0" />
  </xs:sequence>

```

```
</xs:sequence>
</xs:complexType>
- <xs:complexType name="itemBibliography">
- <xs:sequence>
  <xs:element name="book" type="xs:string" minOccurs="0" />
  <xs:element name="author" type="xs:string" minOccurs="0" />
</xs:sequence>
</xs:complexType>
- <xs:complexType name="location">
- <xs:sequence>
  <xs:element name="other" type="xs:string" minOccurs="0" />
  <xs:element name="latitude" type="xs:double" minOccurs="0" />
  <xs:element name="region" type="xs:string" minOccurs="1" />
  <xs:element name="country" type="xs:string" minOccurs="1" />
  <xs:element name="city" type="xs:string" minOccurs="1" />
  <xs:element name="province" type="xs:string" minOccurs="1" />
  <xs:element name="longitude" type="xs:double" minOccurs="0" />
</xs:sequence>
</xs:complexType>
- <xs:complexType name="museum">
- <xs:sequence>
  <xs:element name="name" type="xs:string" minOccurs="0" />
  <xs:element name="code" type="xs:string" minOccurs="0" />
</xs:sequence>
</xs:complexType>
- <xs:complexType name="picture">
- <xs:sequence>
  <xs:element name="number" type="xs:string" minOccurs="0" />
  <xs:element name="year" type="xs:int" minOccurs="0" />
  <xs:element name="url" type="xs:string" minOccurs="0" />
</xs:sequence>
</xs:complexType>
</xs:schema>
```

## age element

Type:	<a href="#">age</a>
Namespace:	<a href="http://www.idra.info/rest">http://www.idra.info/rest</a>
XML Schema:	<a href="#">idra.xsd</a>

## Example XML

```
<?xml version="1.0" encoding="UTF-8"?><age xmlns="http://www.idra.info/rest"> <from  
xmlns="">...</from> <to xmlns="">...</to></age>
```

## Example JSON

```
{ "from" : ..., "to" : ...}
```

## artifact element

Type:	<a href="#">artifact</a>
Namespace:	<a href="http://www.idra.info/rest">http://www.idra.info/rest</a>
XML Schema:	<a href="#">idra.xsd</a>

## Example XML

```
<?xml version="1.0" encoding="UTF-8"?><artifact xmlns="http://www.idra.info/rest">
<pictures xmlns=""> <picture> <number>...</number> <year>...</year>
<url>...</url> </picture> <picture> <!--...--> </picture> <!--...more "picture"
elements...--> </pictures> <category xmlns="">...</category> <epoch
xmlns="">...</epoch> <extended-description xmlns="">...</extended-description>
<materials xmlns=""> <material>...</material> <material>...</material> <!--...more
"material" elements...--> </materials> <current-location xmlns=""> <other>...</other>
<latitude>...</latitude> <region>...</region> <country>...</country> <city>...</city>
<province>...</province> <longitude>...</longitude> </current-location> <inventories
xmlns=""> <inventory> <reference>...</reference> <number>...</number>
</inventory> <inventory> <!--...--> </inventory> <!--...more "inventory"
elements...--> </inventories> <age xmlns=""> <from>...</from> <to>...</to> </age>
<finding-location xmlns=""> <other>...</other> <latitude>...</latitude>
<region>...</region> <country>...</country> <city>...</city> <province>...</province>
<longitude>...</longitude> </finding-location> <nctn xmlns="">...</nctn> <description
xmlns="">...</description> <dimensions xmlns=""> <dimension>
```

## Example JSON

```
{ "pictures" : [ { "number" : "...", "year" : ..., "url" : "...", ... }, ... ], "category" : "...", "epoch" :
 "...", "extended-description" : "...", "materials" : [ "...", ... ], "current-location" : { "other" : "...",
 "latitude" : ..., "region" : "...", "country" : "...", "city" : "...", "province" : "...", "longitude" :
 ... }, "inventories" : [ { "reference" : "...", "number" : ... }, ... ], "age" : { "from" : ..., "to" :
 ... }, "finding-location" : { "other" : "...", "latitude" : ..., "region" : "...", "country" : "...",
 "city" : "...", "province" : "...", "longitude" : ... }, "nctn" : "...", "description" : "...",
 "dimensions" : [ { "thickness" : ..., "weight" : ..., "length" : ..., "unit" : "...", "width" : ...,
 "height" : ... }, ... ], "bibliography" : [ { "book" : "...", "author" : "...", ... }, ... ], "museum" : {
 "name" : "...", "code" : "..."} }
```

## dimension element

Type:	<a href="#">dimension</a>
Namespace:	http://www.idra.info/rest
XML Schema:	<a href="#">idra.xsd</a>

## Example XML

```
<?xml version="1.0" encoding="UTF-8"?><dimension xmlns="http://www.idra.info/rest">  
<thickness xmlns="">...</thickness> <weight xmlns="">...</weight> <lenght  
xmlns="">...</lenght> <unit xmlns="">...</unit> <width xmlns="">...</width> <height  
xmlns="">...</height></dimension>
```

## Example JSON

```
{ "thickness" : ..., "weight" : ..., "lenght" : ..., "unit" : "...", "width" : ..., "height" : ...}
```



## inventory element

Type:	<a href="#">inventory</a>
Namespace:	<a href="http://www.idra.info/rest">http://www.idra.info/rest</a>
XML Schema:	<a href="#">idra.xsd</a>

## Example XML

```
<?xml version="1.0" encoding="UTF-8"?><inventory xmlns="http://www.idra.info/rest">  
<reference xmlns="">...</reference> <number xmlns="">...</number> </inventory>
```

## Example JSON

```
{ "reference" : "...", "number" : ... }
```