

Reconciliation API

Purpose

The Reconciliation API or Reconciliation Endpoint provides the ability to reconcile data in [OpenRefine](#) with that from a VIVO and prepare it for import into VIVO.

OpenRefine describes itself as a “powerful tool for working with messy data: cleaning it; transforming it from one format into another; and extending it with web services and external data”. One use case of OpenRefine is to match tabular data with data in a VIVO, export it as RDF and then import it into a VIVO.

Specification

URL:

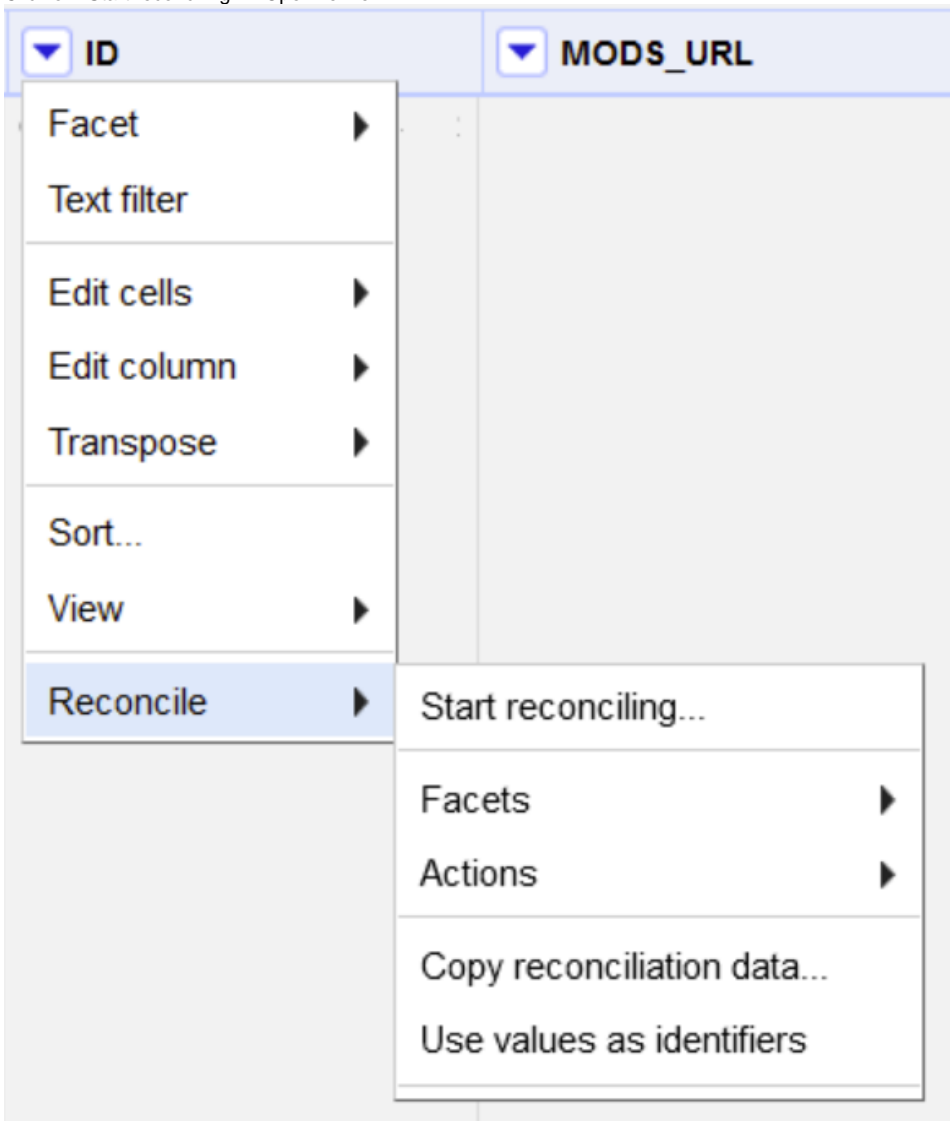
```
[vivo]/reconcile
```

Example:

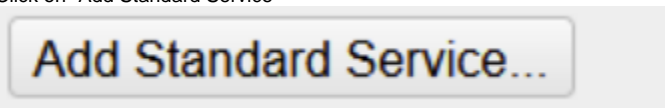
```
https://openvivo.org/reconcile
```

Usage with OpenRefine

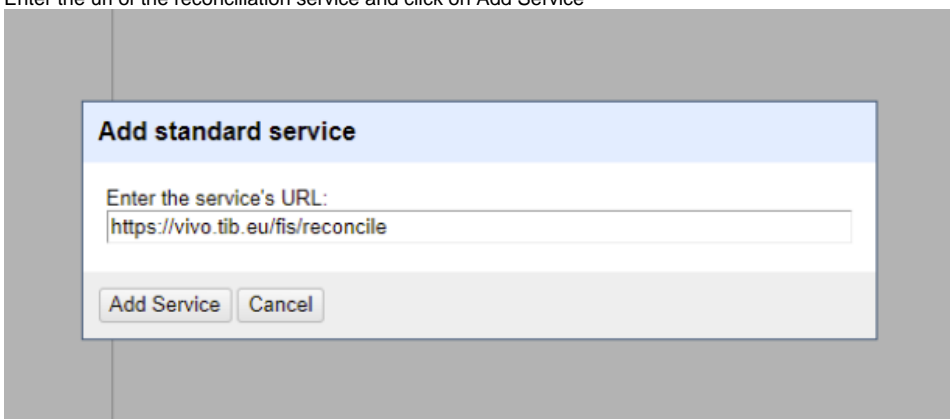
1. Click on "Start reconciling" in OpenRefine



2. Click on "Add Standard Service"



3. Enter the url of the reconciliation service and click on Add Service



4. The VIVO Reconciliation Service should now show up in OpenRefine.

Reconcile column "AutorInnen 1"

The image shows the OpenRefine reconciliation interface. On the left, a list of VIVO ontologies is shown, with 'Person' selected. On the right, a table lists columns and their corresponding VIVO properties. Below these are options for reconciliation type and confidence. At the bottom are buttons for 'Add Standard Service...', 'Start Reconciling...', and 'Cancel'.

Access Service API

Reconcile each cell to an entity of one of these types:

☐ Article
<http://purl.org/ontology/bibo/Article>

☐ AcademicArticle
<http://purl.org/ontology/bibo/AcademicArticle>

☐ Agent
<http://xmlns.com/foaf/0.1/Agent>

☐ BFO_0000004
http://purl.obolibrary.org/obo/BFO_0000004

☐ tib-vivo:Local
<https://vivo.tib.eu/fis/ontology/tib-vivo#Local>

☒ Person
<http://xmlns.com/foaf/0.1/Person>

☐ tib-vivo:TIBMitarbeiter
<https://vivo.tib.eu/fis/ontology/tib-vivo#TIBMitarbeiter>

☐ BookSection
<http://purl.org/ontology/bibo/BookSection>

☐ Chapter

Also use relevant details from other columns:

Column	Include? As Property
URI der Publikation in VIVO	<input type="checkbox"/>
Titel	<input type="checkbox"/>
Typ	<input type="checkbox"/>
Übergeordnete Publikation	<input type="checkbox"/>
Jahr	<input type="checkbox"/>
Volume	<input type="checkbox"/>
Issue	<input type="checkbox"/>
DOI	<input type="checkbox"/>
Startseite	<input type="checkbox"/>
Endseite	<input type="checkbox"/>

☐ Reconcile against type:

☐ Reconcile against no particular type

☒ Auto-match candidates with high confidence

Maximum number of candidates to return

Add Standard Service... Start Reconciling... Cancel

In the menu you can choose the type in VIVO, against which you want to reconcile your data. Click on the button "Start reconciling" to process the matching.

For further information please consult the OpenRefine documentation: <https://docs.openrefine.org/manual/reconciling>

Configuration of the VIVO Reconciliation API

A list of types that are delivered via the API can be configured in the runtime properties. For instance, the property `Vitro.reconcile.defaultTypeList` can be configured as follows:

```
http://vivoweb.org/ontology/core#Role, core:Role; http://vivoweb.org/ontology/core#AcademicDegree, core:Academic Degree; http://purl.org/NET/c4dm/event.owl#Event, event:Event; http://vivoweb.org/ontology/core#Location, core:Location; http://xmlns.com/foaf/0.1/Organization, foaf:Organization; http://xmlns.com/foaf/0.1/Person, foaf:Person; http://purl.obolibrary.org/obo/IAO_0000030, obo:IAO_0000030
```

A documentation of the technical implementation can be found here: [Extending Google Refine for VIVO](#). Please note that this documentation has not been updated in a long time.