

Interface Specification

FBS-14789

External integrations for EDM

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Interface Specification

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1 Introduction

This document describes how Cicero interacts with third party sources.

The target groups for this document are customers and users of Cicero using the EDM create authority and create manifestation functionality that uses suggestions from external sources.

2 Integrations

2.1 Fetching and mapping records

In Cicero, it is possible to fetch authority records from Gemeinsame Normdatei (GND). Additionally, authority records for agent can also be fetched from VIAF.

In Cicero, it is possible to fetch manifestation records from Deutsche Nationalbibliothek (DNB), Gemeinsamer Bibliotheksverbund (GBV), Libris, Alma, Det flerspråklige bibliotek, Biblioteksentralen (SRU), Biblioteksentralen (BIBBI), and Library of Congress.

When a user requests suggestions from one of the sources in Cicero, Cicero fetches and parses a list of marc21 records from the selected source. The parsing will take into account any potential mappings between marc fields/subfields and external codes in value sets.

If errors are found in the data from an external authority source, it is possible to send an error report by email to the external authority source owner if the email is present in the configuration.

2.2 Fetch authorities from GND

The service url for GND is:

<https://services.dnb.de/sru/authorities>

To which we add the following parameters:

***{service_url}**?version=1.1&operation=searchRetrieve&recordSchema=MARC21-xml&"{query}"&startRecord={1}&maximumRecords={2}*

The query parameter changes based on the authority type searched for:

AGENT - query=(BBG%3DTp*+OR+BBG%3DTb*+OR+BBG%3DTf*+AND+WOE%3D{search_query})

WORK - query=BBG%3DTu*+AND+WOE%3D{search_query}

SUBJECT -

query=(BBG%3DTS*+OR+BBG%3DTg*+OR+BBG%3DTf*+OR+BBG%3DTb*+OR+BBG%3DTp*+AND+WOE%3D{search_query})

GENRE AND FORM - query=BBG%3DTS*+AND+WOE%3D{search_query}

GND will also be called when fetching by id so that the external source can be displayed in Cicero when opening an authority with an associated external source. It is not possible to search by multiple ids at once.

<https://services.dnb.de/sru/authorities?version=1.1&operation=searchRetrieve&query=nid%3D{id}&recordSchema=MARC21-xml>

2.3 Fetch agent authorities from VIAF

The service url for VIAF is:

[https://viaf.org/processed/search/processed?query=local.personalName all \"{query}\"&recordSchema=info:srw/schema/1/marcxml-v1.1&httpAccept=text/xml&startRecord={1}&maximumRecords={2}](https://viaf.org/processed/search/processed?query=local.personalName all \)

The search query is of the form:

"local.personalName all {query text here}"

VIAF will also be called when fetching by id so that the external source can be displayed in Cicero when opening an agent with an associated external source.

When searching by id, the endpoint looks like:

<https://viaf.org/viaf/{id}>

2.4 Fetch manifestation entities

The service url for DNB is:

<https://services.dnb.de/sru/dnb>

The service url for GBV is:

<https://sru.k10plus.de/opac-de-627>

The service url for Libris is:

<http://api.libris.kb.se/sru/libris>

The service url for Alma is:

https://bidsys.alma.exlibrisgroup.com/view/sru/47BIBSYS_NETWORK

The service url for Det flerspråklige bibliotek is:

<https://dfbbib.bib.no/cgi-bin/sru>

The service url for Biblioteksentralen (SRU) is:

<https://sru.aja.bs.no/mlnb>

The service url for Biblioteksentralen (BIBBI) is:

<https://sru.aja.bs.no/bibbi>

The service url for Library of Congress is:

<http://lx2.loc.gov:210/lcdb>

To all the service urls we add the following parameters:

{service_url}?version=1.1&operation=searchRetrieve&recordSchema=MARC21-xml&**{search_query}**&startRecord={1}&maximumRecords={2}

The external sources will also be called when fetching by id so they can be displayed in Cicero when opening a manifestation with an associated external source.

To fetch by id, the search query will include a parameter (that differs for every source). The search query will end up looking like:

"query=**{index}**=**{id}**"

For DNB, the index is: *idn*

For GBV, the index is: *pica.ppn*

For Libris, the index is: *identifier*

For Alma, the index is: *rec.id*

For Det flerspråklige bibliotek, the index is: *rec.identifier*

For Biblioteksentralen (SRU), the index is: *rec.identifier*

For Biblioteksentralen (BIBBI), the index is: *rec.identifier*

For Library of Congress, the index is: *identifier*

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