

OAI-Schnittstelle TIB-Portal

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Overview

OAI-PMH([OAI-Protocol for Metadata Harvesting](#)) provides an efficient exchange of Metadata in its own standardized OAI format so called OAI protocol. The data are provided by the internal databases (data providers). The collected records are then processed by service providers and provided for search queries. The OAI harvester is working with simple HTTP GET requests and HTTP POST. The HTTP response provides the record data from the data providers in various formats.

TIB offers a search option to their data via OAI interface.

Each user is qualified to retrieve open access documents via OAI interface from TIB. The fee-based metadata are only accessible to authorized users. The above mentioned metadata are made available by the OAI interface. The metadata is provided by different content and formal criteria so-called "Sets". These Sets can be delivered by previous mentioned procedure using internal database collections. The Sets are divided into two different request methods so called "static Sets" and "dynamic Sets".

Standards of OAI interface

We offer OAI protocol [OAI-PMH Version 2.0](#). This protocol is based on well-known and popular standards.

This documentation will only give you an basic overview of the protocol. Please consult the standard for more information.

OAI request types

There are six different OAI inquiry request types. They should be selected by the values of the URLparameter "verb".

Function	Description
Identify	Display of general information about the repository
ListSets	Delivers all available standing data sets (collections)
ListMetadataFormats	Listing of all data formats available in the repository
ListIdentifiers	List of unique identifiers of records
ListRecords	Records of the archive
GetRecord	To select only one record  The part after "oai:tib.eu:" in the record identifier must be URL encoded the same way as in Direktlink zur Detail-Ansicht eines Dokuments im TIB-Portal .

Example queries:

<https://www.tib.eu/oai/public/repository/open?verb=Identify>

<https://www.tib.eu/oai/public/repository/open?verb=ListSets>

<https://www.tib.eu/oai/public/repository/open?verb=ListMetadataFormats>

https://www.tib.eu/oai/public/repository/open?verb=ListIdentifiers&metadataPrefix=oai_dc

https://www.tib.eu/oai/public/repository/open?verb=ListRecords&metadataPrefix=oai_dc&set=tibkat

ListRecords

As an example we cover the most important request type "ListRecords". It supports the following arguments:

Argument	Description	Request Example
metadataPrefix	a required argument. Specifies the metadata format returned. See section "Format" for the formats provided by TIB.	verb= ListRecords & metadataPrefix =oai_dc
from	an optional argument, which specifies a lower bound for datestamp-based	verb= ListRecords & from =2010-01-01
until	an optional argument, which specifies an upper bound for datestamp-based	verb= ListRecords & until =2016-01-01
set	an optional argument with a setSpec value, which specifies set criteria for selective harvesting	verb= ListRecords & set =tibkat
resumptionToken	An exclusive argument with a value returned by the previous ListRecords, to retrieve the next records of an incomplete list.	An exclusive argument with a value returned by the previous ListRecords, to retrieve the next records of an incomplete list.

Example queries:

https://www.tib.eu/oai/public/repository/open?verb=ListRecords&metadataPrefix=oai_dc&from=2020-01-01&until=2020-08-01&set=tibkat

What data sets does the TIB provide?

Static Sets

The TIB provides its own static sets which correspond to data deliverer. The list of our static sets can be retrieved via the following URL:

<https://www.tib.eu/oai/public/repository/open?verb=ListSets>

Dynamic Sets

The TIB offers a special syntax for Sets we call "Dynamic Sets". By this special syntax it is possible to create more complex queries for the service provider.

The syntax for dynamic Set names can be seen in the following template:

collection~<set>_solr~<search>

The following components of the Set names must be included:

Parameter	Description
set	One normal set name (e.g. "tibkat") or for all records use "all" or "*"
search	Search query. The syntax corresponds to the syntax of the TIB Portal (www.tib.eu).

Example queries:

If you want to search for all records matching the term "laser" the set name would be the following: collection~*_solr~laser

https://www.tib.eu/oai/public/repository/open?verb=ListRecords&metadataPrefix=oai_dc&from=2012-10-09&set=collection~*_solr~laser

General information of the TIB OAI server

Information	Readings
Number of the delivered records per answer	100 records
Time specification	time specified in Coordinated Universal Time UTC
Period for the selective Harvesting	days accuracy (YYYY-MM-DD)
Deleted records	Deleted Record Policy: no

Format	Standard: Dublin Core
Sets	ListSets
Encoding	As mentioned below formats are offered in the UTF-8 coding!

Format

The following formats can be in principal requested from our OAI interface. Only the ones marked with “for all users” are accessible to every user. If you required one the other formats please make an inquiry to our customer service.

Format	Availability	Description
oai_dc	for all users	Dublin Core, free format
dcx	on inquiry	Dublin Core Extension
bibtex	on inquiry	BibTex
datacite	on inquiry	Datacite Format
	on inquiry	Linked Open Data (LOD)
marc_xml	for all users	Marc-21-Xml
rdf_xml	for all users	RDF_XML
ris	on inquiry	Research Information System Format
ftx	on inquiry	TIB internal format

Example queries:

https://www.tib.eu/oai/public/repository/open?verb=ListRecords&metadataPrefix=oai_dc

OAI endpoint

The following OAI endpoints are public and can be used by all users:

endpoint	set	content	example: search term 'solid' format=oai_dc
https://www.tib.eu/oai/public/repository/open	collection-* OR collection-all	open access documents in the TIB Portal	https://www.tib.eu/oai/public/repository/open?verb=ListRecords&metadataPrefix=oai_dc&set=collection-*_solr-solid
	collection-tibkat	TIBKAT	https://www.tib.eu/oai/public/repository/open?verb=ListRecords&metadataPrefix=oai_dc&set=collection-tibkat_solr-solid
	collection-olc	Online Contents (exportRestricted_flag:false)	https://www.tib.eu/oai/public/repository/open?verb=ListRecords&metadataPrefix=oai_dc&set=collection-olc_solr-solid
	collection-kmo-av	TIB AV-Portal (exportRestricted_flag:false)	https://www.tib.eu/oai/public/repository/open?verb=ListRecords&metadataPrefix=oai_dc&set=collection-kmo-av_solr-solid

Permitted format for public endpoint 'open': oai_dc, marc_xml, rdf_xml, rdf_n3, rdf_json, rdf_turtle, rdf_jsonld .

Customer specific endpoints

If you are a new customer and you are interested in all TIB data in various data formats as well as OAI desired sets, you need to create a free of charge TIB customer account and get in touch with our customer service.

If our customer service approves your request you will receive an email including your Universally Unique Identifier (UUID).

With your personal UUID you are able to query the open access documents and also the fee-based metadata you are allowed to. For more details, please contact our customer service.

How do I use my private UUID ?

As soon as you receive your UUID you are able to harvest data from the TIB in the format TIB has approved.

Your private UUID is then an integrated part of the base URL. It will resolve the url path element “open” in all previous urls.

Example: https://www.tib.eu/oai/public/repository/XxXxXxXxXxXx?verb=ListRecords&metadataPrefix=oai_dc

Special Set settings

If necessary, special sets can be configured for customers to retrieve the agreed records.

The customer can request up to five different special sets, which will be configured by our customer service. They are normally names "all1" to "all5".

For each special set it is possible to combine and configure different formats and search fields or different criteria like license model, publication date, etc.

Search fields in dynamic sets

In addition to a „free text“ search query it is possible to query some search field individually as shown below: documentType, issued, isbn, issn, ppn, licenseModel, author, mainTitle, Abstract, Dclassification.

Some search fields have specific values which can be used to receive different documents types. Those are explained in the following sections.

Example queries:

https://www.tib.eu/oai/public/repository/open?verb=ListRecords&metadataPrefix=oai_dc&from=2012-10-09&set=collection~*_solr-documentType:B issued:2000 licenseModel:oa

https://www.tib.eu/oai/public/repository/open?verb=ListRecords&metadataPrefix=oai_dc&set=collection~tibkat_solr-issued:2010

DdocumentType

Example queries: DdocumentType:A

Value	Search fields
A	Audiovisual material
B	Book
BC	Essay/chapter(book)
C	Proceedings
CA	Conference
D	Theses
FD	Research data
I	Image
J	Magazin
K	Map
JL	Article (journal)
PP	Preprint
LA	Artikel (Lexikon)
M	3D-Model
P	Patent
PA	Paper
R	Report
S	Technical rule
T	Audio-Material

DlicenseModel

Example queries:DlicenseModel:oa

Value	Search fields
al	Alliance licence
kl	Consortial licence

oa	Open-Access- Document (Free Access)
com	Commercial documents
nl	Documents with National License

Dclassification

Example queries: Dclassification:tec

Value	Search fields
arc	Architecture
che	Chemistry
inf	Computer science
mat	Mathematics
phy	Physics
tec	Technology
bio	Biology
pae	Education
hor	Horticulture
geo	Earth sciences
his	History
lin	Linguistics
lit	Literature
phi	Philosophy
jur	Right
rel	Theology
sow	Social sciences
spo	Sport
oek	Economics

Use and reference conditions

Since July 15, 2016 all catalogue records (oai set "tibkat") are available for free use under "CreativeCommons Zero" conditions (CC0 1.0). For all other oai sets please request license information via the TIB customer service.

The TIB offers no guarantee that the metadata and online interfaces will be uninterrupted, complete, and that they do not violate rights of third parties (eg as publicity or copyrights).

Contact

Customer service: Monday to Friday from 08:00 to 16:30

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