

Package: I14Y (via r-universe)

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Type Package

Title Search and Get Data from the I14Y Interoperability Platform of Switzerland

Version 0.2.0

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Description Search and download Swiss data and metadata from the I14Y interoperability platform of Switzerland using its public APIs
<<https://www.i14y.admin.ch/api/index.html>>.

License GPL (>= 3)

BugReports <https://github.com/lgnbhl/I14Y/issues>

URL <https://felixluginbuhl.com/I14Y/>

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i14y_export_codelist_search

Export search results from a codelist concept

Description

Calls the I14Y public API endpoint /concepts/{conceptId}/codelist-entries/search/exports/{dataFormat}.

Usage

```
i14y_export_codelist_search(  
  id = NULL,  
  query = NULL,  
  language = "de",  
  filters = NULL,  
  format = "csv",  
  withAnnotations = FALSE  
)
```

Arguments

id	string. The UUID of the codelist concept.
query	string. The search query. If 'NULL', all entries are returned (subject to 'filters', 'page' and 'pageSize').
language	string. The language of the response data ("de", "fr", "en", "it", "rm"). Default "de".
filters	character vector. Optional filter expressions, passed through to the API as the 'filters' array parameter.
format	string. The export format ("csv" or "json").
withAnnotations	logical. If 'TRUE', annotations are included.

Value

A tibble for "csv", a list for "json". 'NULL' when offline.

i14y_get_catalog	<i>Get a catalog by ID</i>
------------------	----------------------------

Description

Calls the I14Y public API endpoint `/catalogs/{catalogId}`.

Usage

```
i14y_get_catalog(id = NULL)
```

Arguments

id	string. The catalog identifier.
----	---------------------------------

Value

A list of catalog metadata. 'NULL' when offline.

i14y_get_catalog_dcat *Export the DCAT representation of a catalog*

Description

Calls the I14Y public API endpoint /catalogs/{catalogId}/dcat/exports/{dataFormat}.

Usage

```
i14y_get_catalog_dcat(id = NULL, format = "RDF")
```

Arguments

id	string. The catalog identifier.
format	string. One of "RDF" (default), "TTL".

Value

A character string with the raw RDF/TTL document. 'NULL' when offline.

i14y_get_catalog_record
 Get a single record of a catalog

Description

Calls the I14Y public API endpoint /catalogs/{catalogId}/records/{recordId}.

Usage

```
i14y_get_catalog_record(id = NULL, recordId = NULL)
```

Arguments

id	string. The catalog identifier.
recordId	string. The record identifier.

Value

A list with the record metadata. 'NULL' when offline.

i14y_get_catalog_records	<i>List records of a catalog</i>
--------------------------	----------------------------------

Description

Calls the I14Y public API endpoint `/catalogs/{catalogId}/records`.

Usage

```
i14y_get_catalog_records(id = NULL)
```

Arguments

id	string. The catalog identifier.
----	---------------------------------

Value

A tibble of catalog records. 'NULL' when offline.

i14y_get_codelist	<i>Export a codelist</i>
-------------------	--------------------------

Description

Calls the I14Y public API endpoint `/concepts/{conceptId}/codelist-entries/exports/{dataFormat}`.

Usage

```
i14y_get_codelist(id = NULL, format = "csv", withAnnotations = FALSE)
```

Arguments

id	string. The Id of the response data.
format	string. The format of the export ("csv" or "json").
withAnnotations	logical. If 'TRUE', annotations are included in the export. Default 'FALSE'.

Value

A tibble for 'format = "csv"'. For 'format = "json"', a list when 'withAnnotations = TRUE' (preserves the nested structure) or a tibble otherwise. 'NULL' when offline.

Examples

```
i14y_get_codelist(  
  id = "08d94604-e058-62a2-aa25-53f84b974201" # for DV_NOGA_DIVISION  
)
```

i14y_get_concept	<i>Get a concept by ID</i>
------------------	----------------------------

Description

Calls the I14Y public API endpoint `/concepts/{conceptId}` and returns the concept metadata. Multilingual fields (`'name'`, `'description'`, ...) are returned with one entry per language (de, en, fr, it, rm).

Usage

```
i14y_get_concept(id = NULL, includeCodeListEntries = FALSE)
```

Arguments

<code>id</code>	string. The UUID of the concept.
<code>includeCodeListEntries</code>	logical. If <code>'TRUE'</code> , the response includes the codelist entries for code-list concepts. Default <code>'FALSE'</code> .

Value

A list with the concept metadata. `'NULL'` when offline.

Examples

```
i14y_get_concept(  
  id = "08d94604-e058-62a2-aa25-53f84b974201" # DV_NOGA_DIVISION  
)
```

`i14y_get_concept_export`*Get the JSON export of a concept*

Description

Calls the I14Y public API endpoint `/concepts/{conceptId}/exports/json`.

Usage

```
i14y_get_concept_export(id = NULL)
```

Arguments

`id` string. The UUID of the concept.

Value

A list with the JSON export of the concept. 'NULL' when offline.

`i14y_get_dataservice` *Get a data service by ID*

Description

Calls the I14Y public API endpoint `/dataservices/{dataServiceId}`.

Usage

```
i14y_get_dataservice(id = NULL)
```

Arguments

`id` string. The UUID of the data service.

Value

A list with the data service metadata. 'NULL' when offline.

i14y_get_dataset	<i>Get dataset metadata by ID</i>
------------------	-----------------------------------

Description

Calls the I14Y public API endpoint `/datasets/{datasetId}` and returns the dataset metadata: publication level, registration status, distributions, contact points, themes, etc.

Usage

```
i14y_get_dataset(id = NULL)
```

Arguments

id	string. The UUID of the dataset.
----	----------------------------------

Value

A list with the dataset metadata. 'NULL' when offline.

Examples

```
i14y_get_dataset(  
  id = "b902add5-9538-47ed-b663-f9fbfac92381" # SpiGes_Administratives  
)
```

i14y_get_dataset_structure	<i>Export the data structure of a dataset</i>
----------------------------	---

Description

Calls the I14Y public API endpoint `/datasets/{datasetId}/structures/exports/{dataFormat}`. The endpoint returns a SHACL/RDF graph in one of the supported linked-data formats. Note that many datasets do not have a published structure and will return an empty result.

Usage

```
i14y_get_dataset_structure(id = NULL, format = "JsonLd")
```

Arguments

id	string. The UUID of the dataset.
format	string. The export format. One of "JsonLd" (default), "Ttl" or "Rdf".

Value

For 'format = "JsonLd"', the parsed JSON-LD graph as a list. For other formats, the raw response body as a character string. 'NULL' when offline.

Examples

```
i14y_get_dataset_structure(  
  id = "b902add5-9538-47ed-b663-f9fbfac92381" # SpiGes_Administratives  
)
```

i14y_get_mappingtable *Get a mapping table by ID*

Description

Calls the I14Y public API endpoint /mappingtables/{mappingTableId}.

Usage

```
i14y_get_mappingtable(id = NULL)
```

Arguments

id string. The UUID of the mapping table.

Value

A list with the mapping table metadata. 'NULL' when offline.

i14y_get_mappingtable_relations
Export the relations of a mapping table

Description

Calls the I14Y public API endpoint /mappingtables/{mappingTableId}/relations/exports/{dataFormat}.

Usage

```
i14y_get_mappingtable_relations(id = NULL, format = "Json")
```

Arguments

id string. The UUID of the mapping table.
format string. One of "Json" (default), "Csv".

Value

For ‘format = "Json"’, a tibble of relations (one row per source/target/relationType triple). For ‘format = "Csv"’, the raw CSV response body as a character string. ‘NULL’ when offline.

i14y_get_publicservice	<i>Get a public service by ID</i>
------------------------	-----------------------------------

Description

Calls the I14Y public API endpoint /publicservices/{publicServiceId}.

Usage

```
i14y_get_publicservice(id = NULL)
```

Arguments

id string. The UUID of the public service.

Value

A list with the public service metadata. ‘NULL’ when offline.

i14y_list_catalogs	<i>List catalogs</i>
--------------------	----------------------

Description

Calls the I14Y public API endpoint /catalogs.

Usage

```
i14y_list_catalogs(page = NULL, pageSize = NULL)
```

Arguments

page integer. The result page to return.
pageSize integer. The size of each result page.

Value

A tibble of catalog summaries. ‘NULL’ when offline.

i14y_list_concepts	<i>List concepts</i>
--------------------	----------------------

Description

Calls the I14Y public API endpoint /concepts.

Usage

```
i14y_list_concepts(  
  conceptIdentifier = NULL,  
  publisherIdentifier = NULL,  
  version = NULL,  
  publicationLevel = NULL,  
  registrationStatus = NULL,  
  page = NULL,  
  pageSize = NULL  
)
```

Arguments

conceptIdentifier	string. Filter by concept identifier.
publisherIdentifier	string. Filter by publisher identifier.
version	string. Filter by version.
publicationLevel	string. One of "Internal", "Public".
registrationStatus	string. A registration status value.
page	integer. The result page to return.
pageSize	integer. The size of each result page.

Value

A tibble of concept summaries. 'NULL' when offline.

`i14y_list_dataservices`*List data services*

Description

Calls the I14Y public API endpoint /dataservices.

Usage

```
i14y_list_dataservices(  
  accessRights = NULL,  
  dataServiceIdentifier = NULL,  
  publisherIdentifier = NULL,  
  publicationLevel = NULL,  
  registrationStatus = NULL,  
  page = NULL,  
  pageSize = NULL  
)
```

Arguments

<code>accessRights</code>	string. Filter by access rights.
<code>dataServiceIdentifier</code>	string. Filter by data service identifier.
<code>publisherIdentifier</code>	string. Filter by publisher identifier.
<code>publicationLevel</code>	string. One of "Internal", "Public".
<code>registrationStatus</code>	string. A registration status value.
<code>page</code>	integer. The result page to return.
<code>pageSize</code>	integer. The size of each result page.

Value

A tibble of data service summaries. 'NULL' when offline.

i14y_list_datasets	<i>List datasets</i>
--------------------	----------------------

Description

Calls the I14Y public API endpoint /datasets.

Usage

```
i14y_list_datasets(  
  accessRights = NULL,  
  datasetIdentifier = NULL,  
  publisherIdentifier = NULL,  
  publicationLevel = NULL,  
  registrationStatus = NULL,  
  page = NULL,  
  pageSize = NULL  
)
```

Arguments

accessRights	string. Filter by access rights.
datasetIdentifier	string. Filter by dataset identifier.
publisherIdentifier	string. Filter by publisher identifier.
publicationLevel	string. One of "Internal", "Public".
registrationStatus	string. A registration status value.
page	integer. The result page to return.
pageSize	integer. The size of each result page.

Value

A tibble of dataset summaries. 'NULL' when offline.

`i14y_list_mappingtables`*List mapping tables*

Description

Calls the I14Y public API endpoint /mappingtables.

Usage

```
i14y_list_mappingtables(  
  mappingTableIdentifier = NULL,  
  publisherIdentifier = NULL,  
  version = NULL,  
  codeSystemUri = NULL,  
  publicationLevel = NULL,  
  registrationStatus = NULL,  
  page = NULL,  
  pageSize = NULL  
)
```

Arguments

<code>mappingTableIdentifier</code>	string. Filter by mapping table identifier.
<code>publisherIdentifier</code>	string. Filter by publisher identifier.
<code>version</code>	string. Filter by version.
<code>codeSystemUri</code>	string. Filter by code system URI.
<code>publicationLevel</code>	string. One of "Internal", "Public".
<code>registrationStatus</code>	string. A registration status value.
<code>page</code>	integer. The result page to return.
<code>pageSize</code>	integer. The size of each result page.

Value

A tibble of mapping table summaries. 'NULL' when offline.

i14y_list_publicservices	<i>List public services</i>
--------------------------	-----------------------------

Description

Calls the I14Y public API endpoint /publicservices.

Usage

```
i14y_list_publicservices(  
  publicServiceIdentifier = NULL,  
  publisherIdentifier = NULL,  
  publicationLevel = NULL,  
  registrationStatus = NULL,  
  page = NULL,  
  pageSize = NULL  
)
```

Arguments

publicServiceIdentifier	string. Filter by public service identifier.
publisherIdentifier	string. Filter by publisher identifier.
publicationLevel	string. One of "Internal", "Public".
registrationStatus	string. A registration status value.
page	integer. The result page to return.
pageSize	integer. The size of each result page.

Value

A tibble of public service summaries. 'NULL' when offline.

i14y_search	<i>Search the I14Y catalog</i>
-------------	--------------------------------

Description

Calls the I14Y public API endpoint /search. This is the faceted search over all resource types (datasets, data services, public services, concepts, mapping tables) and replaces the previous private 'input-backend' host that powered 'i14y_search_catalog()' and 'i14y_search_concept()' in earlier releases.

Usage

```

i14y_search(
  query = NULL,
  language = "de",
  types = NULL,
  accessRights = NULL,
  businessEvents = NULL,
  conceptValueTypes = NULL,
  formats = NULL,
  publicationLevels = NULL,
  publicationLevelProposals = NULL,
  lifeEvents = NULL,
  publishers = NULL,
  registrationStatuses = NULL,
  registrationStatusProposals = NULL,
  structure = NULL,
  themes = NULL,
  page = NULL,
  pageSize = NULL
)

```

Arguments

query	string. The search query.
language	string. The language to use for the search ("de", "en", "fr", "it", "rm"). Default "de".
types	character vector. Filter by resource types. One or more of "Dataset", "DataService", "PublicService", "Concept", "MappingTable".
accessRights	character vector. Filter by access rights.
businessEvents	character vector. Filter by business events.
conceptValueTypes	character vector. Filter by concept value type. One or more of "CodeList", "Date", "Numeric", "String".
formats	character vector. Filter by distribution formats.
publicationLevels	character vector. Filter by publication level ("Internal", "Public").
publicationLevelProposals	character vector. Filter by proposed publication level ("Internal", "Public").
lifeEvents	character vector. Filter by life events.
publishers	character vector. Filter by publisher identifiers.
registrationStatuses	character vector. Filter by registration status.
registrationStatusProposals	character vector. Filter by proposed registration status.
structure	string. One of "WithStructure", "WithoutStructure".

themes	character vector. Filter by theme codes.
page	integer. The number of the result page to return.
pageSize	integer. The size of each result page.

Value

A tibble of search results. 'NULL' when offline.

Examples

```
i14y_search(query = "noga", language = "en")
```

i14y_search_catalog	<i>Search the catalog for datasets, data services and public services.</i>
---------------------	--

Description

Thin wrapper around [i14y_search()] that restricts the result to the catalog resource types ("Dataset", "DataService", "PublicService").

Usage

```
i14y_search_catalog(
  query = NULL,
  language = "de",
  accessRights = NULL,
  formats = NULL,
  publishers = NULL,
  statuses = NULL,
  themes = NULL,
  types = NULL,
  page = NULL,
  pageSize = NULL
)
```

Arguments

query	string. The search query.
language	string. The language to use for the search.
accessRights	character vector. Filter by access rights.
formats	character vector. Filter by distribution formats.
publishers	character vector. Filter by publisher identifiers.
statuses	character vector. Filter by registration status. Forwarded to the 'registrationStatuses' parameter of [i14y_search()].

themes	character vector. Filter by theme codes.
types	character vector. Restrict to a subset of catalog types. One or more of "Dataset", "DataService", "PublicService". Defaults to all three.
page	integer. The number of the result page to return.
pageSize	integer. The size of each result page.

Value

A tibble of catalog search results. 'NULL' when offline.

Examples

```
i14y_search_catalog(query = "noga")
```

i14y_search_codelist *Search entries within a codelist concept*

Description

Calls the I14Y public API endpoint `/concepts/{conceptId}/codelist-entries/search`. This replaces the former `'i14y_search_nomenclature()'`: in the new I14Y data model, what used to be a single multi-level nomenclature is now a set of separate codelist concepts (e.g. `'NOGA_SECTION'`, `'NOGA_DIVISION'`, `'NOGA_GROUP'`, `'NOGA_CLASS'`).

Usage

```
i14y_search_codelist(
  id = NULL,
  query = NULL,
  language = "de",
  filters = NULL,
  page = NULL,
  pageSize = NULL
)
```

Arguments

id	string. The UUID of the codelist concept.
query	string. The search query. If 'NULL', all entries are returned (subject to 'filters', 'page' and 'pageSize').
language	string. The language of the response data ("de", "fr", "en", "it", "rm"). Default "de".
filters	character vector. Optional filter expressions, passed through to the API as the 'filters' array parameter.
page	integer. The number of the result page to return.
pageSize	integer. The size of each result page.

Value

A tibble of codelist entry summaries. 'NULL' when offline.

Examples

```
i14y_search_codelist(
  id = "08d94604-e058-62a2-aa25-53f84b974201", # NOGA_DIVISION
  query = "agriculture",
  language = "fr"
)
```

i14y_search_concept	<i>Search for a Concept Summary</i>
---------------------	-------------------------------------

Description

Thin wrapper around [i14y_search()] that restricts the result to the "Concept" resource type.

Usage

```
i14y_search_concept(
  query = NULL,
  language = "de",
  page = 1,
  pageSize = 1000,
  publishers = NULL,
  themes = NULL,
  conceptValueTypes = NULL,
  registrationStatuses = NULL
)
```

Arguments

query	string. Search query.
language	string. The language of the response data.
page	integer. The number of the result page to return.
pageSize	integer. The size of each result page.
publishers	character vector. Filter by publisher identifiers.
themes	character vector. Filter by theme codes.
conceptValueTypes	character vector. One or more concept value types to filter by ("CodeList", "Date", "Numeric", "String").
registrationStatuses	character vector. One or more registration statuses to filter by.

Value

A tibble of concept search results. 'NULL' when offline.

Examples

```
i14y_search_concept(query = "noga", language = "en")
```

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