

Package ‘I14Y’

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Type Package

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

Version 0.1.4

Maintainer Felix Luginbuhl <felix.luginbuhl@protonmail.ch>

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/>

Depends R (>= 4.0)

Imports httr2, tibble, readr, cli, curl, rlang (>= 1.1.0)

Suggests jsonlite, dplyr, stringr, BFS, testthat (>= 3.0.0)

Encoding UTF-8

RoxygenNote 7.3.2

Config/testthat/edition 3

NeedsCompilation no

Author Felix Luginbuhl [aut, cre, cph] (ORCID:
<<https://orcid.org/0009-0008-6625-2899>>)

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

The function uses the I14Y Console API: <<https://apiconsole.i14y.admin.ch/public/v1/index.html>>.

Usage

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

Arguments

- id string. The Id of the response data.
- format string. The format of the export ("csv" or "json").

Value

a tibble

Examples

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

i14y_get_concept	<i>Get Concept view entity by ID</i>
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Description

Get Concept view entity by ID

Usage

```
i14y_get_concept(id = NULL, language = "de")
```

Arguments

id	string. The Id of the response data.
language	string. The language of the response data.

Value

a list

Examples

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

i14y_get_concept_all_versions	<i>Get all versions of an ID</i>
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Description

Get all versions of an ID

Usage

```
i14y_get_concept_all_versions(id = NULL, language = "de")
```

Arguments

id	string. The Id of the response data.
language	string. The language of the response data.

Value

a list

Examples

```
i14y_get_concept_all_versions(  
  id = "08d94604-e058-62a2-aa25-53f84b974201", # DV_NOGA_DIVISION  
  language = "de"  
)
```

i14y_get_content_information

Get the information of a nomenclature by identifier

Description

Get the information of a nomenclature by identifier

Usage

```
i14y_get_content_information(identifier = NULL)
```

Arguments

identifier string. The identifier of the nomenclature.

Value

a list

Examples

```
i14y_get_content_information(  
  identifier = "HCL_CH_ISCO_19_PROF"  
)
```

i14y_get_dataset_description
Get dataset description by identifier

Description

Get dataset description by identifier

Usage

```
i14y_get_dataset_description(identifier = NULL, language = "de")
```

Arguments

identifier	string. The identifier of the dcat dataset.
language	string. The language of the response data.

Value

a list

Examples

```
i14y_get_dataset_description(identifier = "HCL_NOGA", language = "en")
```

i14y_get_dataset_distributions
Get dataset distributions by identifier

Description

Get dataset distributions by identifier

Usage

```
i14y_get_dataset_distributions(identifier = NULL, language = "de")
```

Arguments

identifier	string. The identifier of the dcat dataset.
language	string. The language of the response data.

Value

a list

Examples

```
i14y_get_dataset_distributions(identifier = "HCL_NOGA", language = "en")
```

```
i14y_get_data_element
```

Get a data element

Description

Get a data element

Usage

```
i14y_get_data_element(id = NULL, language = "de")
```

Arguments

id	string. The id of the sms used variable.
language	string. The language of the response data.

Value

a tibble `i14y_get_data_element( id = "af3b5919-0012-42ac-bbdd-24b591279899", language = "en" )`

```
i14y_get_data_service
```

Get the dcat data service.

Description

Get the dcat data service.

Usage

```
i14y_get_data_service(id = NULL, language = "de")
```

Arguments

id	string. The id of the dcat data service.
language	string. The language of the response data.

Value

a list

Examples

```
i14y_get_data_service(  
  id = "0aaed69d-15ff-415a-8a38-4f9f0c3b429e",  
  language = "en"  
)
```

`i14y_get_data_structure`*Get the dataStructures*

Description

Get the dataStructures

Usage

```
i14y_get_data_structure(identifier = NULL, language = "de")
```

Arguments

<code>identifier</code>	string. The identifier of the dcat dataset.
<code>language</code>	string. The language of the response data.

Value

a list

Examples

```
df <- i14y_get_data_structure(  
  identifier = "SpiGes_Erhebung_Administratives"  
)
```

`i14y_get_nomenclature_level`*Export a level of a nomenclature*

Description

Export a level of a nomenclature

Usage

```
i14y_get_nomenclature_level(  
  identifier = NULL,  
  language = "de",  
  level = 1,  
  format = "csv",  
  annotations = FALSE,  
  filters = NULL  
)
```

Arguments

identifier	string. The identifier of dcat dataset.
language	string. The language of the response data.
level	integer. The level to export. Default 1.
format	string. The format of the export (CSV or XLSX).
annotations	boolean. Include annotations. Default FALSE.
filters	object. The filters

Value

a tibble

i14y_get_nomenclature_level_multiple

Export multiple levels of a nomenclature

Description

Export multiple levels of a nomenclature

Usage

```
i14y_get_nomenclature_level_multiple(  
  identifier = NULL,  
  language = "de",  
  levelFrom = NULL,  
  levelTo = NULL,  
  format = "csv",  
  annotations = NULL,  
  filters = NULL  
)
```

Arguments

identifier	string. The identifier of dcat dataset.
language	string. The language of the response data. Default "de".
levelFrom	integer. The first level to include.
levelTo	integer. The last level to include.
format	string. The format of the export ("csv" or "xlsx"). Default "csv".
annotations	boolean. Include annotations
filters	object. The filters

Value

a tibble

Examples

```
i14y_get_nomenclature_level_multiple(  
  identifier = "HCL_CH_ISCO_19_PROF",  
  format = "csv", # read internally  
  levelFrom = 1,  
  levelTo = 2,  
  language = "fr"  
)
```

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

Search the catalog for datasets, data services and public services.

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	vector of strings. Only results with one of the specified access rights (PUBLIC, NON_PUBLIC, RESTRICTED) are returned
formats	vector of strings. Only results with at least one distribution providing one of the specified formats are returned
publishers	vector of strings. Only results with one of the specified publishers are returned
statuses	vector of strings. Only results with one of the specified registration statuses are returned
themes	vector of strings. Only results corresponding to one of the specified themes are returned
types	vector of strings. Only results with one of the specified types (Dataset, DataService, PublicService) are returned
page	integer. The number of the result page to return
pageSize	integer. The size of each result page

Value

a tibble

Examples

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

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

Search for a Concept Summary

Usage

```
i14y_search_concept(
  search = NULL,
  language = "de",
  page = 1,
  pageSize = 1000,
  publishers = NULL,
  themeCodes = NULL
)
```

Arguments

search	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	vector of strings. Filter with Publishers identifiers.
themeCodes	vector of strings. Filter with theme codes.

Value

a tibble

Examples

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

```
i14y_search_nomenclature
```

Search within a nomenclature

Description

Search within a nomenclature

Usage

```
i14y_search_nomenclature(
  identifier = NULL,
  query = NULL,
  language = "de",
  page = NULL,
  pageSize = NULL,
  filters = NULL
)
```

Arguments

identifier	string. The identifier of dcat dataset.
query	string. The 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
filters	object. The filters

Value

a list

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