Package 'I14Y'

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Type Package

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

Version 0.1.0

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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)

Imports httr2, tibble, readr, cli, curl, rlang

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

Encoding UTF-8

RoxygenNote 7.3.2

Config/testthat/edition 3

NeedsCompilation no

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Repository CRAN

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  i14y_get_codelist   *Export a codelist*

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   *Get Concept view entity by ID*

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

Get all versions of an ID

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_service_registration
                        Get the current registration status of the specified dataservice.

Description

Get the current registration status of the specified dataservice.

Usage

```
i14y_get_data_service_registration(id = NULL)
```

Arguments

id	string. The id of the dcat data service.

Value

a list

Examples

```
i14y_get_data_service_registration(
 id = "0aaed69d-15ff-415a-8a38-4f9f0c3b429e"
)
```

```
i14y_get_data_structure
```
Get the dataStructures

Description

Get the dataStructures

Usage

```
i14y_get_data_structure(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

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

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   *Search for a Concept Summary*

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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