

# Package ‘I14Y’

April 24, 2025

**Type** Package

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

**Version** 0.1.3

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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/>

**Depends** R (>= 4.0)

**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

**Date/Publication** 2025-04-24 12:40:07 UTC

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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      *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**

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