

Package ‘uisapi’

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Title Access the UNESCO Institute for Statistics API

Version 0.1.0

Description Retrieve data from the UNESCO Institute for Statistics (UIS) API <<https://api.uis.unesco.org/api/public/documentation/>>. UIS provides public access to more than 4,000 indicators focusing on education, science and technology, culture, and communication.

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Depends R (>= 4.1)

Imports cli (>= 3.0.0), httr2 (>= 1.0.0), jsonlite (>= 1.0.0), tibble, dplyr (>= 1.0.0), tidyr (>= 1.0.0), rlang (>= 1.0.0)

Suggests curl, testthat (>= 3.0.0)

URL <https://github.com/tidy-intelligence/r-uisapi>,
<https://tidy-intelligence.github.io/r-uisapi/>

BugReports <https://github.com/tidy-intelligence/r-uisapi/issues>

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.3.2

NeedsCompilation no

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uis_bulk_files	<i>Get files available for download via UIS BDDS</i>
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Description

Retrieves information about files available in the UNESCO Institute for Statistics (UIS) Bulk Data Download Service (BDDS).

Usage

```
uis_bulk_files()
```

Value

A data frame with information about files:

file_name	Character. The name of the data set.
file_url	Character. The URL of the data set.
last_updated_description	Character. Information about last update.

Examples

```
# Download available files for bulk download
uis_bulk_files()
```

uis_get	<i>Get data from the UIS API</i>
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Description

Retrieves data from the UNESCO Institute for Statistics (UIS) API for specified entities, indicators, and time periods.

Usage

```
uis_get(  
  entities = NULL,  
  indicators = NULL,  
  start_year = NULL,  
  end_year = NULL,  
  version = NULL  
)
```

Arguments

entities	Character vector. The entity IDs (ISO 3166-1 alpha-3 codes) to retrieve data for. Must provide either this parameter or indicators or both. See uis_get_entities for a list of supported entities.
indicators	Character vector. The indicator IDs to retrieve data for. Must provide either this parameter or entities or both. See uis_get_indicators for a list of supported indicators.
start_year	Numeric or character. The starting year for the data retrieval period. If NULL, no start year constraint is applied.
end_year	Numeric or character. The ending year for the data retrieval period. If NULL, no end year constraint is applied.
version	Character. The API version to use. If NULL, the default version is used. See uis_get_versions for a list of supported versions.

Value

A data frame with the following columns:

entity_id	Character. The ID of the entity (geoUnit).
indicator_id	Character. The ID of the indicator.
year	Numeric. The year of the observation.
value	Numeric. The value of the indicator for the given entity and year.

Examples

```
# Get all data for a single indicator
uis_get(
  indicators = "CR.1"
)

# Get all data for a single country
uis_get(
  entities = "BRA"
)

# Get data for multiple indicators and countries
uis_get(
  entities = c("BRA", "USA"),
  indicators = c("CR.1", "CR.2")
)

# Get data for multiple indicators and countries and specific time range
uis_get(
  entities = c("BRA", "USA"),
  indicators = c("CR.1", "CR.2"),
  start_year = 2010,
  end_year = 2020
)
```

uis_get_entities	<i>Get geographical entities from UIS API</i>
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Description

Retrieves information about geographical entities (countries, regions, etc.) available in the UN-ESCO Institute for Statistics (UIS) API.

Usage

```
uis_get_entities(version = NULL)
```

Arguments

version	Character. The API version to use. If NULL (default), the API's default version will be used. See uis_get_versions for a list of supported versions.
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Value

A data frame with information about geographical entities:

entity_id	Character. The unique identifier for the entity.
entity_name	Character. The name of the geographical entity.
entity_type	Character. The type of entity (e.g., country, region).
region_group	Character. Information about the region grouping.

Examples

```
# Download entities for default version
uis_get_entities()

# Download entities for a specific version
uis_get_entities("20240910-b5ad4d82")
```

 uis_get_indicators *Get indicator definitions from UIS API*

Description

Retrieves information about indicators available in the UNESCO Institute for Statistics (UIS) API.

Usage

```
uis_get_indicators(
  version = NULL,
  disaggregations = FALSE,
  glossary_terms = FALSE
)
```

Arguments

version	Character. The API version to use. If NULL (default), the API's default version will be used. See uis_get_versions for a list of supported versions.
disaggregations	Logical. If TRUE, includes disaggregation information for indicators. Default is FALSE.
glossary_terms	Logical. If TRUE, includes glossary terms associated with indicators. Default is FALSE.

Value

A data frame with information about indicators:

indicator_id	Character. The unique identifier for the indicator.
indicator_name	Character. The name of the indicator.
theme	Character. The theme of the indicator.
last_data_update	Date. The last update date.
last_data_update_description	Character. A description about the last update date.
data_availability	List column. Contains nested information about data availability, including total record count and timeline min/max years.
entity_types	List column. Contains information about entity types associated with the indicator.

Examples

```
# Download indicators
uis_get_indicators()

# Download indicators with glossary terms and disaggregations
uis_get_indicators(disaggregations = TRUE, glossary_terms = TRUE)
```

uis_get_versions *Get available UIS API versions*

Description

Retrieves information about the available versions of the UNESCO Institute for Statistics (UIS) API.

Usage

```
uis_get_versions(default_only = FALSE)
```

Arguments

`default_only` Logical. Indicates whether only the current default version should be retrieved. Defaults to FALSE.

Value

A data frame with the following columns:

<code>version</code>	Character. The version identifier.
<code>publication_date</code>	Date-time. The date when the version was released.
<code>description</code>	Character. The description of the version.
<code>theme</code>	List column. Each element is a nested data frame containing information about themes available in the version, with columns: <code>theme_id</code> , <code>theme_last_update</code> , <code>theme_description</code>

Examples

```
uis_get_versions()
```

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