

Package ‘oenb’

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Title Tools for the OeNB Data Web Service

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Description Tools to access data from the data web service of the Oesterreichische Nationalbank (OeNB), <<https://www.oenb.at/en/Statistics/User-Defined-Tables/webservice.html>>.

License GPL (>= 2)

Depends R (>= 4.1.0)

Imports dplyr, utils, XML

Encoding UTF-8

URL <https://github.com/franzmohr/oenb>

BugReports <https://github.com/franzmohr/oenb/issues>

Suggests curl, knitr, rmarkdown, testthat (>= 3.2.0)

VignetteBuilder knitr

Config/testthat/edition 3

Config/roxygen2/version 8.1.0

NeedsCompilation no

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oenb_attributes	<i>Get Attributes</i>
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Description

Get potential attributes of individual series from the OeNB's data web service.

Usage

```
oenb_attributes(id, pos, lang = "EN")
```

Arguments

id	character specifying the ID of the dataset of interest. See oenb_toc to obtain the required ID.
pos	character specifying the position ID of the indicator of interest. See oenb_dataset to obtain the required ID.
lang	Preferred language of the output. Possible values are "DE" for German and "EN" for English (default).

Value

A data frame containing potential attributes of a series. NULL is returned if the web service is not available.

Examples

```
series_attr <- oenb_attributes(id = "11", pos = "VDBFKBSC217000")
series_attr
```

oenb_data	<i>Download OeNB Data</i>
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Description

Download data sets from the OeNB's data web service <https://www.oenb.at/en/Statistics/User-Defined-Tables/webservice.html>.

Usage

```
oenb_data(
  id,
  pos,
  freq = NULL,
  attr = NULL,
  starttime = NULL,
  endtime = NULL,
  lang = "EN"
)
```

Arguments

id	character specifying the ID of the dataset of interest. See oenb_toc to obtain the required ID.
pos	character vector specifying the position IDs of the indicators of interest. See oenb_dataset to obtain the required ID.
freq	Frequency of the data. Where available, possible values are "D", "M", "Q", "H", "A" for daily, monthly, quarterly, semi-annual and annual data. See oenb_frequency to obtain possible choices.
attr	A named vector of further attributes. See oenb_attributes to obtain possible choices.
starttime	character specifying the start of the series. See 'Details'.
endtime	character specifying the end of the series. See 'Details'.
lang	Preferred language of the output. Possible values are "DE" for German and "EN" for English (default).

Details

The arguments 'starttime' and 'endtime' can have the format 'YYYY-MM-DD' or 'YYYYMMDD' for daily data, 'YYYY-MM' or 'YYYYMM' for monthly data, and 'YYYY' for annual data. For semiannual data 'YYYY-06' refers to the first half of year 'YYYY' and 'YYYY-12' to the second. Similarly, for quarterly data 'YYYY-03', 'YYYY-06', 'YYYY-09' and 'YYYY-12' refer to the first, second, third and forth quarter of year 'YYYY', respectively.

Value

A data frame. NULL is returned if the query does not return any data or if the web service is not available.

Examples

```
series <- oenb_data(id = "11", pos = "VDBFKBSC217000", freq = "M", attr = c("dval1" = "AT"),
  starttime = "2019-11", endtime = "2019-12")
series
```

`oenb_dataset`*Content of OeNB Data Sets*

Description

Downloads a description of the contents of a specific dataset from the OeNB's data web service.

Usage

```
oenb_dataset(id, lang = "EN")
```

Arguments

<code>id</code>	character specifying the ID of the dataset of interest. See oenb_toc to obtain the required ID.
<code>lang</code>	Preferred language of the output. Possible values are "DE" for German and "EN" for English (default).

Value

A data frame containing the IDs and names of available indicators within a dataset. NULL is returned if the web service is not available.

Examples

```
content <- oenb_dataset(id = "11")
content
```

`oenb_frequency`*Get Frequency*

Description

Get available frequencies and periods of individual series from the OeNB's data web service.

Usage

```
oenb_frequency(id, pos, lang = "EN")
```

Arguments

id	character specifying the ID of the dataset of interest. See oenb_toc to obtain the required ID.
pos	character specifying the position ID of the indicator of interest. See oenb_dataset to obtain the required ID.
lang	Preferred language of the output. Possible values are "DE" for German and "EN" for English (default).

Value

A data frame containing available frequencies and periods of a series. NULL is returned if the web service is not available.

Examples

```
series_freq <- oenb_frequency(id = "11", pos = "VDBFKBSC217000")
series_freq
```

oenb_metadata	<i>Get Metadata</i>
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Description

Get metadata on individual series from the OeNB's data web service.

Usage

```
oenb_metadata(id, pos, lang = "EN")
```

Arguments

id	character specifying the ID of the dataset of interest. See oenb_toc to obtain the required ID.
pos	character specifying the position ID of the indicator of interest. See oenb_dataset to obtain the required ID.
lang	Preferred language of the output. Possible values are "DE" for German and "EN" for English (default).

Value

A data frame containing metadata on an indicator. NULL is returned if the web service is not available.

Examples

```
meta <- oenb_metadata(id = "11", pos = "VDBFKBSC217000")
meta
```

oenb_toc

Table of Contents

Description

Downloads the table of contents of the OeNB's statistical data web service.

Usage

```
oenb_toc(lang = "EN")
```

Arguments

lang	Preferred language of the output. Possible values are "DE" for German and "EN" for English (default).
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Value

A data frame containing the IDs and titles of available datasets. NULL is returned if the web service is not available.

Examples

```
toc <- oenb_toc()
toc
```

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