

# Package ‘bbk’

June 12, 2024

**Title** Client for the Bundesbank API

**Version** 0.3.0

**Description** Download data and metadata from the 'Bundesbank SDMX Web Service API' found at  
<<https://www.bundesbank.de/en/statistics/time-series-databases/help-for-sdmx-web-service/web-service-interface-data>>.

**License** MIT + file LICENSE

**URL** <https://m-muecke.github.io/bbk/>, <https://github.com/m-muecke/bbk>

**BugReports** <https://github.com/m-muecke/bbk/issues>

**Depends** R (>= 4.1.0)

**Imports** htr2, stats, utils, xml2

**Suggests** ggplot2, scales, testthat (>= 3.0.0), tibble

**Config/testthat/edition** 3

**Encoding** UTF-8

**RoxygenNote** 7.3.1

**NeedsCompilation** no

**Author** Maximilian Muecke [aut, cre] (<<https://orcid.org/0009-0000-9432-9795>>)

**Maintainer** Maximilian Muecke <muecke.maximilian@gmail.com>

**Repository** CRAN

**Date/Publication** 2024-06-12 15:30:02 UTC

## Contents

bbk_data . . . . .	2
bbk_metadata . . . . .	3
bbk_series . . . . .	4
<b>Index</b>	<b>6</b>

---

bbk_data	<i>Returns data for a given flow and key</i>
----------	--

---

### Description

Returns data for a given flow and key

### Usage

```
bbk_data(
  flow,
  key = NULL,
  start_period = NULL,
  end_period = NULL,
  first_n = NULL,
  last_n = NULL
)
```

### Arguments

flow	character(1) flow to query, 5-8 characters. See <a href="#">bbk_metadata()</a> for available dataflows.
key	character(1) key to query.
start_period	character(1) start date of the data. Supported formats: <ul style="list-style-type: none"> <li>• YYYY for annual data (e.g., "2019")</li> <li>• YYYY-S[1-2] for semi-annual data (e.g., "2019-S1")</li> <li>• YYYY-Q[1-4] for quarterly data (e.g., "2019-Q1")</li> <li>• YYYY-MM for monthly data (e.g., "2019-01")</li> <li>• YYYY-W[01-53] for weekly data (e.g., "2019-W01")</li> <li>• YYYY-MM-DD for daily and business data (e.g., "2019-01-01") If NULL, no start date restriction is applied (data retrieved from the earliest available date). Default NULL.</li> </ul>
end_period	character(1) end date of the data, in the same format as start_period. If NULL, no end date restriction is applied (data retrieved up to the most recent available date). Default NULL.
first_n	numeric(1) number of observations to retrieve from the start of the series. If NULL, no restriction is applied. Default NULL.
last_n	numeric(1) number of observations to retrieve from the end of the series. If NULL, no restriction is applied. Default NULL.

### Value

A `data.frame()` with the requested data.

**Source**

<https://www.bundesbank.de/en/statistics/time-series-databases/help-for-sdmx-web-service/web-service-interface-data>

**See Also**

Other data: [bbk\\_series\(\)](#)

**Examples**

```
# fetch all data for a given flow and key
bbk_data("BBSIS", "D.I.ZAR.ZI.EUR.S1311.B.A604.R10XX.R.A.A._Z._Z.A")
# fetch data for multiple keys
bbk_data("BBK01", c("TTA032", "TTA010"))
# specified period (start date-end date) for daily data
bbk_data(
  "BBSIS", "D.I.ZAR.ZI.EUR.S1311.B.A604.R10XX.R.A.A._Z._Z.A",
  start_period = "2020-01-01",
  end_period = "2020-08-01"
)
# or only specify the start date
bbk_data(
  "BBSIS", "D.I.ZAR.ZI.EUR.S1311.B.A604.R10XX.R.A.A._Z._Z.A",
  start_period = "2024-04-01"
)
```

---

bbk\_metadata

*Returns the available metadata*


---

**Description**

Retrieval of the metadata stored in the Bundesbank's time series database. Access via the SDMX Web Service API of the Bundesbank.

**Usage**

```
bbk_metadata(type, id = NULL, lang = c("en", "de"))
```

**Arguments**

type	character(1) the type of metadata to query. One of: "datastructure", "dataflow", "codelist", or "concept".
id	character(1) id to query. Default NULL.
lang	character(1) language to query, either "en" or "de". Default "en".

**Value**

A `data.frame()` with the queried metadata. The columns are:

<code>id</code>	The id of the metadata
<code>name</code>	The name of the metadata

**Source**

<https://www.bundesbank.de/en/statistics/time-series-databases/help-for-sdmx-web-service/web-service-interface-metadata>

**Examples**

```
bbk_metadata("datastructure")
bbk_metadata("dataflow", "BBSIS")
bbk_metadata("odelist", "CL_BBK_ACIP_ASSET_LIABILITY")
bbk_metadata("concept", "CS_BBK_BSPL")
```

---

<code>bbk_series</code>	<i>Returns the time serie that is found with the specified time series key</i>
-------------------------	--

---

**Description**

Returns the time serie that is found with the specified time series key

**Usage**

```
bbk_series(key)
```

**Arguments**

<code>key</code>	character(1) key to query.
------------------	----------------------------

**Value**

A `data.frame()` with the requested data.

**Source**

<https://www.bundesbank.de/en/statistics/time-series-databases/help-for-sdmx-web-service/web-service-interface-data>

**See Also**

Other data: [bbk\\_data\(\)](#)

**Examples**

```
bbk_series("BBEX3.M.DKK.EUR.BB.AC.A01")  
bbk_series("BBAF3.Q.F41.S121.DE.S1.W0.LE.N._X.B")  
bbk_series("BBBK11.D.TTA000")
```

# Index

\* **data**

bbk\_data, [2](#)

bbk\_series, [4](#)

\* **metadata**

bbk\_metadata, [3](#)

bbk\_data, [2](#), [4](#)

bbk\_metadata, [3](#)

bbk\_metadata(), [2](#)

bbk\_series, [3](#), [4](#)