## Package: wbids (via r-universe)

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```
Title Seamless Access to World Bank International Debt Statistics
     (IDS)
Version 1.0.0
Description Access and analyze the World Bank's International Debt
     Statistics (IDS)
     <https://datacatalog.worldbank.org/search/dataset/0038015>. IDS
     provides creditor-debtor relationships between countries,
     regions, and institutions. 'wbids' enables users to download,
     process and work with IDS series across multiple geographies,
     counterparts, and time periods.
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ids\_bulk

Download and Process Bulk Data File for International Debt Statistics

## Description

This function downloads a data file from the World Bank International Debt Statistics (IDS), reads and processes the data into a tidy format.

## Usage

```
ids_bulk(
  file_url,
  file_path = tempfile(fileext = ".xlsx"),
  quiet = FALSE,
  timeout = getOption("timeout", 60),
  warn_size = TRUE
)
```

## Arguments

file_url	A character string specifying the URL of the Excel file to download. This parameter is required (see ids_bulk_files).
file_path	An optional character string specifying the file path where the downloaded file will be saved. Defaults to a temporary file with .xlsx extension. The file will automatically be deleted after processing.
quiet	A logical parameter indicating whether messages should be printed to the console.
timeout	An integer specifying the timeout in seconds for downloading the file. Defaults to the current R timeout setting.
warn_size	A logical parameter indicating whether to warn about large downloads. Defaults to TRUE.

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#### Value

A tibble containing processed debt statistics data with the following columns:

```
geography_id The unique identifier for the geography (e.g., "ZMB").
series_id The unique identifier for the series (e.g., "DT.DOD.DPPG.CD").
counterpart_id The unique identifier for the counterpart series.
year The year corresponding to the data (as an integer).
value The numeric value representing the statistic for the given geography, series, counterpart, and
```

#### **Examples**

year.

```
## Not run:
available_files <- ids_bulk_files()
data <- ids_bulk(
   available_files$file_url[1]
)
## End(Not run)</pre>
```

ids\_bulk\_files

Retrieve Available Bulk Download Files for International Debt Statistics

#### **Description**

This function returns a tibble with metadata for files available for bulk download via the World Bank International Debt Statistics (IDS). It includes information such as file names, URLs, and the last update dates for each file in Excel (xlsx) format.

#### Usage

```
ids_bulk_files()
```

#### Value

A tibble containing the available files and their metadata:

```
file_name The name of the file available for download.file_url The URL to download the file in Excel format.last_updated_date The date when the file was last updated.
```

```
ids_bulk_files()
```

ids\_get

ids\_bulk\_series

Retrieve Bulk Series Metadata for International Debt Statistics

#### **Description**

This function retrieves a tibble with metadata for series available via bulk download of the World Bank International Debt Statistics (IDS).

#### Usage

```
ids_bulk_series()
```

#### Value

A tibble containing the available series and their metadata:

```
series_id The unique identifier for the series (e.g., "BN.CAB.XOKA.CD").
```

series\_name The name of the series (e.g., "Current account balance (current US\$)").

**source\_id** The ID of the data source providing the indicator.

**source\_name** The name or description of the source of the indicator data.

**source\_note** Additional notes or descriptions about the data source.

source\_organization The organization responsible for the data source.

#### **Examples**

```
ids_bulk_series()
```

ids\_get

Fetch Data from the World Bank International Debt Statistics (IDS) API

#### Description

Retrieves standardized debt statistics from the World Bank's International Debt Statistics (IDS) database, which provides comprehensive data on the external debt of low and middle-income countries. The function handles country identification, data validation, and unit standardization, making it easier to conduct cross-country debt analysis and monitoring.

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#### Usage

```
ids_get(
  geographies,
  series,
  counterparts = "WLD",
  start_year = 2000,
  end_year = NULL,
  progress = FALSE
)
```

#### **Arguments**

geographies

A character vector of geography identifiers representing debtor countries and aggregates. Must use geography\_id from ids\_list\_geographies:

- For individual countries, use ISO3C codes (e.g., "GHA" for Ghana)
- For aggregates, use World Bank codes (e.g., "LIC" for low income countries) The IDS database covers low and middle-income countries and related aggregates only. Cannot contain NA values.

series

A character vector of debt statistics series identifiers that must match the series\_id column from ids\_list\_series. Each series represents a specific debt statistic (e.g., "DT.DOD.DECT.CD" for total external debt stocks, "DT.TDS.DECT.CD" for debt service payments). Cannot contain NA values.

counterparts

A character vector of creditor identifiers that must match the counterpart\_id column from ids\_list\_counterparts. The default "WLD" returns aggregated global totals across all creditors. Common options:

- "WLD" World total (aggregated across all creditors)
- "all" Retrieve data broken down by all creditors
- All identifiers are strings, but some are string-formatted numbers (e.g., "730" for China, "907" for IMF), while others are alphabetic codes (e.g., "BND" for bondholders) Cannot contain NA values.

start\_year

A numeric value representing the starting year (default: 2000). This default is intended to reduce data volume. For historical analysis, explicitly set to 1970 (the earliest year of data available).

end\_year

A numeric value representing the ending year (default: NULL). Must be >= 1970 and cannot be earlier than start\_year. If NULL, returns data through the most recent available year. Some debt service-related series include projections of debt service. For the 2024 data release, debt service projections are available through 2031.

progress

A logical value indicating whether to display progress messages during data retrieval (default: FALSE).

#### Value

A tibble containing debt statistics with the following columns:

**geography\_id** The identifier for the debtor geography (e.g., "GHA" for Ghana, "LIC" for low income countries)

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**series\_id** The identifier for the debt statistic series (e.g., "DT.DOD.DECT.CD" for total external debt stocks)

counterpart\_id The identifier for the creditor (e.g., "WLD" for world total, "730" for China)

year The year of the observation

**value** The numeric value of the debt statistic, standardized to the units specified in the series definition (typically current US dollars)

#### **Data Coverage and Validation**

The IDS database provides detailed debt statistics for low and middle-income countries, including:

- · Debt stocks and flows
- Debt service and interest payments
- Creditor composition
- · Terms and conditions of new commitments

To ensure valid queries:

- Use ids\_list\_geographies to find valid debtor geography codes
- Use ids\_list\_series to explore available debt statistics
- Use ids\_list\_counterparts to see available creditor codes

#### See Also

- ids\_list\_geographies() for available debtor geography codes
- ids\_list\_series() for available debt statistics series codes
- ids\_list\_counterparts() for available creditor codes

```
# Get total external debt stocks for a single country from 2000 onward
ghana_debt <- ids_get(
    geographies = "GHA",
    series = "DT.DOD.DECT.CD" # External debt stocks, total
)

# Compare debt service metrics across income groups
income_groups <- ids_get(
    geographies = c("LIC", "LMC", "UMC"), # Income group aggregates
    series = "DT.TDS.DECT.CD", # Total debt service
    start_year = 2010
)

# Analyze debt composition by major creditors
creditor_analysis <- ids_get(
    geographies = c("KEN", "ETH"), # Kenya and Ethiopia
    series = c(
    "DT.DOD.DECT.CD", # Total external debt
    "DT.TDS.DECT.CD" # Total debt service</pre>
```

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```
),
counterparts = c(
    "WLD", # World total
    "730", # China
    "907", # IMF
    "BND" # Bondholders
),
start_year = 2015
)
```

#### **Description**

This function returns a tibble with available counterparts from the World Bank International Debt Statistics (IDS) API. Each row provides details on counterparts, including their unique identifiers, names, and types.

#### Usage

```
ids_list_counterparts()
```

#### Value

A tibble containing the available counterparts and their attributes:

```
counterpart_id The unique identifier for the counterpart (e.g., "730").
counterpart_name The standardized name of the counterpart (e.g., "China").
counterpart_iso2code ISO 3166-1 alpha-2 code of the counterpart (e.g., "CN").
counterpart_iso3code ISO 3166-1 alpha-3 code of the counterpart (e.g., "CHN").
counterpart_type The type of counterpart (e.g., "Country", "Institution", "Region").
```

```
ids_list_counterparts()
```

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#### **Description**

This function returns a tibble with available geographies from the World Bank International Debt Statistics (IDS) API. Each row provides details on geographies, including their unique identifiers, names, and types.

#### Usage

```
ids_list_geographies()
```

#### Value

```
A tibble containing the available geographies and their attributes:
geography_id ISO 3166-1 alpha-3 code of the geography (e.g., "ZMB").
geography_name The standardized name of the geography (e.g., "Zambia").
geography_iso2code ISO 3166-1 alpha-2 code of the geography (e.g., "ZM").
geography type The type of geography (e.g., "Country", "Region").
capital_city The capital city of the geography (e.g., "Lusaka").
region_id The unique identifier for the region (e.g., "SSF").
region_iso2code ISO 3166-1 alpha-2 code of the region (e.g., "ZG").
region_name The name of the region (e.g., "Sub-Saharan Africa").
admin_region_id The unique identifier for the administrative region (e.g., "SSA").
admin_region_iso2code The ISO 3166-1 alpha-2 code for the administrative region (e.g., "ZF").
admin_region_name The name of the administrative region (e.g., "Sub-Saharan Africa (excluding
     high income)").
lending_type_id The unique identifier for the lending type (e.g., "IDX").
lending_type_iso2code ISO code for the lending type (e.g., "XI").
lending_type_name The name of the lending type (e.g., "IDA").
```

```
ids_list_geographies()
```

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ids_list_series	List Available Series from the World Bank International Debt Statistics API
-----------------	--

#### **Description**

This function returns a tibble with available series from the World Bank International Debt Statistics (IDS) API. Each series provides data on various debt-related indicators.

#### Usage

```
ids_list_series()
```

#### Value

A tibble containing the available series and their metadata:

```
series_id The unique identifier for the series (e.g., "BN.CAB.XOKA.CD").
series_name The name of the series (e.g., "Current account balance (current US$)").
source_id The ID of the data source providing the indicator.
source_name The name or description of the source of the indicator data.
source_note Additional notes or descriptions about the data source.
```

**source\_organization** The organization responsible for the data source.

#### **Examples**

```
ids_list_series()
```

```
{\tt ids\_list\_series\_topics}
```

List Available Series-Topic combinations from the World Bank International Debt Statistics API

#### **Description**

This function returns a tibble with available series-topic combinations from the World BankInternational Debt Statistics (IDS) API. Each row provides a mapping from series to topic, with the possibility of multiple topic per series.

#### Usage

```
ids_list_series_topics()
```

## Value

```
A tibble containing the available series and their topics:

series_id The unique identifier for the series (e.g., "BM.GSR.TOTL.CD").

topic_id The unique identifier for the topic (e.g., 3).

topic_name The name of the topic (e.g., "External Debt").
```

```
ids_list_series_topics()
```

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