

# Package ‘wbids’

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**Title** Seamless Access to World Bank International Debt Statistics (IDS)

**Version** 0.1.0

**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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**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Depends** R (>= 4.1)

**Imports** cli, withr, httr2 (>= 1.0.0), dplyr (>= 1.0.0), purrr (>= 1.0.0), tidyr (>= 1.0.0), rlang (>= 1.0.0)

**Suggests** curl, jsonlite, tibble, lintr (>= 3.1.2), quarto, readxl (>= 1.0.0), rmarkdown, testthat (>= 3.0.0), languageserver (>= 0.3.16)

**Config/testthat/edition** 3

**URL** <https://teal-insights.github.io/r-wbids/>,  
<https://github.com/teal-insights/r-wbids/>

**BugReports** <https://github.com/teal-insights/r-wbids/issues>

**VignetteBuilder** quarto

**NeedsCompilation** no

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ids_bulk	<i>Download and Process Bulk Data File for International Debt Statistics</i>
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### 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 <a href="#">ids_bulk_files</a> ).
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.

**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 year.

**Examples**

```
available_files <- ids_bulk_files()
data <- ids_bulk(
  available_files$file_url[1]
)
```

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ids_bulk_files	<i>Retrieve Available Bulk Download Files for International Debt Statistics</i>
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**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.

**Examples**

```
ids_bulk_files()
```

---

ids_bulk_series	<i>Retrieve Bulk Series Metadata for International Debt Statistics</i>
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**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()
```

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ids_get	<i>Fetch Debt Statistics from the World Bank International Debt Statistics API</i>
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**Description**

This function returns a tibble with debt statistics data fetched from the World Bank International Debt Statistics (IDS) API. The data can be filtered by geographies, series, counterparts, and time periods.

**Usage**

```
ids_get(  
  geographies,  
  series,  
  counterparts = "all",  
  start_date = NULL,  
  end_date = NULL,  
  progress = FALSE  
)
```

**Arguments**

geographies	A character vector representing the geographic codes (e.g., "ZMB" for Zambia). This argument is required and cannot contain NA values.
series	A character vector representing the series codes (e.g., "DT.DOD.DPPG.CD"). This argument is required and cannot contain NA values.
counterparts	A character vector representing counterpart areas (e.g., "all", "001"). This argument is required and cannot contain NA values (default: "all").
start_date	An optional numeric value representing the starting year (e.g., 2015). It must be greater than or equal to 1970. If not provided, the entire time range is used.
end_date	An optional numeric value representing the ending year (e.g., 2020). It must be greater than or equal to 1970 and cannot be earlier than start_date. If not provided, the entire available time range is used.
progress	A logical value indicating whether to display a progress message during the request process (default: FALSE). Must be either TRUE or FALSE.

**Value**

A tibble containing debt statistics 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 (e.g., "all").

**year** The year corresponding to the data (e.g., 2020).

**value** The numeric value representing the statistic for the given geography, series, counterpart, and year.

**Examples**

```
# Fetch data for a series without specifying a time range or counterpart
ids_get(
  geographies = "ZMB",
  series = "DT.DOD.DPPG.CD",
)

# Fetch specific debt statistics for Zambia from 2015 to 2020
ids_get(
  geographies = "ZMB",
  series = c("DT.DOD.DPPG.CD", "BM.GSR.TOTL.CD"),
  start_date = 2015,
  end_date = 2020
)

# Fetch data for specific counterparts
ids_get(
  geographies = "ZMB",
  series = "DT.DOD.DPPG.CD",
  counterparts = c("216", "231")
)
```

```
)  
  
# Fetch data for multiple geographies and counterparts  
ids_get(  
  geographies = c("ZMB", "CHN"),  
  series = "DT.DOD.DPPG.CD",  
  counterparts = c("216", "231"),  
  start_date = 2019,  
  end_date = 2020  
)
```

---

ids\_list\_counterparts *List Available Counterparts from the World Bank International Debt Statistics API*

---

### 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").

### Examples

```
ids_list_counterparts()
```

---

ids\_list\_geographies *List Available Geographies from the World Bank International Debt Statistics API*

---

### 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").

### Examples

```
ids_list_geographies()
```

---

ids_list_series	<i>List Available Series from the World Bank International Debt Statistics API</i>
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### 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()
```

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ids_list_series_topics	<i>List Available Series-Topic combinations from the World Bank International Debt Statistics API</i>
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### Description

This function returns a tibble with available series-topic combinations from the World Bank International 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").

**Examples**

```
ids_list_series_topics()
```

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