

# Package ‘Rilostat’

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**Type** Package

**Title** ILO Open Data via Ilostat Bulk Download Facility or SDMX Web Service

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**Description** Tools to download data from the ilostat database  
<<https://ilostat.ilo.org>> together with search and  
manipulation utilities.

**License** BSD\_2\_clause + file LICENSE

**Depends** R (>= 3.5.0)

**Imports** plyr, dplyr (>= 1.0.4), stringr (>= 1.4.0), readr (>= 1.4.0),  
tibble (>= 3.0.6), haven, xml2, data.table, RCurl, DT

**Suggests** knitr, rmarkdown, devtools, plotly, ggplot2 (>= 3.3.3),  
shiny, tidyr, curl

**LazyData** true

**URL** <https://ilostat.github.io/Rilostat/>

**BugReports** <https://github.com/ilostat/Rilostat/issues>

**Repository** CRAN

**RoxygenNote** 7.1.1

**NeedsCompilation** no

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|                    |                            |
|--------------------|----------------------------|
| clean_ilstat_cache | <i>Clean Ilostat Cache</i> |
|--------------------|----------------------------|

---

### Description

Deletes all cache files from the your ilostat cache directory. See [get\\_ilstat](#) for more on cache.

### Usage

```
clean_ilstat_cache(
  cache_dir = getOption("ilstat_cache_dir", file.path(tempdir(), "ilstat")),
  cache_update = getOption("ilstat_cache_update", FALSE),
  quiet = getOption("ilstat_quiet", FALSE)
)
```

### Arguments

|              |  |
|--------------|--|
| cache_dir    | A character, path to a cache directory. The directory has to exist. The NULL (default) uses and creates 'ilstat' directory in the temporary directory from <a href="#">tempdir</a> . The directory can also be set with option <code>ilstat_cache_dir</code> , |
| cache_update | a logical whether to delete only out of date cache files. Useful when <code>cache_dir</code> is set as keep only update datasets. Can be set also with <code>options(ilstat_update = TRUE)</code> . Default is FALSE.  |
| quiet        | a logical, if TRUE, don't return message from processing, FALSE (default). Can be set also with <code>options(ilstat_quiet = TRUE)</code> ,  |

### Author(s)

David Bescond <bescond@ilo.org>

### References

See citation("Rilostat") ilostat bulk download facility user guidelines [https://www.ilo.org/ilostat-files/Documents/ILOSTAT\\_BulkDownload\\_Guidelines.pdf](https://www.ilo.org/ilostat-files/Documents/ILOSTAT_BulkDownload_Guidelines.pdf)

**Examples**

```
## Not run:
clean_ilstat_cache()

## End(Not run)
```

---

|            |                          |
|------------|--------------------------|
| get_ilstat | <i>Read Ilostat Data</i> |
|------------|--------------------------|

---

**Description**

Download datasets from ilostat <https://ilostat.ilo.org> via bulk download facility <https://ilostat.ilo.org/data/bulk/>.

**Usage**

```
get_ilstat(
  id,
  segment = getOption("ilostat_segment", "indicator"),
  type = getOption("ilostat_type", "code"),
  lang = getOption("ilostat_lang", "en"),
  time_format = getOption("ilostat_time_format", "raw"),
  filters = getOption("ilostat_filter", "none"),
  fixed = getOption("ilostat_fixed", TRUE),
  detail = getOption("ilostat_detail", "full"),
  cache = getOption("ilostat_cache", TRUE),
  cache_update = getOption("ilostat_cache_update", TRUE),
  cache_dir = getOption("ilostat_cache_dir", NULL),
  cache_format = getOption("ilostat_cache_format", "rds"),
  back = getOption("ilostat_back", TRUE),
  cmd = getOption("ilostat_cmd", "none"),
  quiet = getOption("ilostat_quiet", FALSE)
)
```

**Arguments**

|         |   |
|---------|---|
| id      | A code name for the dataset of interest. See <a href="#">get_ilstat_toc</a> or details for how to get code.                           |
| segment | A character, way to get datasets by: "indicator" (default) or "ref_area". Can be set also with options(ilostat_segment = 'ref_area'), |
| type    | a character, type of variables, "code" (default), "label" or "both". Can be set also with options(ilostat_type = 'both'),             |
| lang    | a character, code for language. Available are "en" (default), "fr" and "es". Can be set also with options(ilostat_lang = 'fr'),       |

|              |  |
|--------------|--|
| time_format  | a string giving a type of the conversion of the time column from the ilostat format. "raw" (default) does not do conversion and return time as character (ie. '2017', '2017Q1', '2017M01'). A "date" converted to a <code>Date</code> with a first date of the period. A "date_last" converted to a <code>Date</code> with a last date of the period and "num" converted to a numeric. Can be set also with <code>options(ilstat_time_format = 'date')</code> ,  |
| filters      | a list; "none" (default) to get a whole dataset or a named list of filters to get just part of the table. Names of list objects are ilostat variable codes and values are vectors of observation codes. filters detect on variables, so could be partial, ie. <code>list(sex = 'T')</code> is enough but equivalent to <code>list(sex = 'SEX_T')</code> . Additional options: <ul style="list-style-type: none"> <li>• <code>timefrom</code> : starting year of the return dataset,</li> <li>• <code>timeto</code> : ending year of the return dataset.</li> </ul> |
| fixed        | a logical, if TRUE (default), filters arguments pattern is a string to be matched as is, Change to FALSE if more complex regex matching is needed.   |
| detail       | a character, 'full' (default), whether 'serieskeyonly', return only key, no data, no notes or <code>dataonly</code> return key and data, no notes or 'bestsourceonly' return best source only at the series key levels, see details. Can be set also with <code>options(ilstat_detail = 'serieskeyonly')</code> ,  |
| cache        | a logical whether to do caching. Default is TRUE. Affects only queries from the ilostat bulk download facility. Can be set also with <code>options(ilstat_cache = FALSE)</code> ,  |
| cache_update | a logical whether to update cache. Check cache update with <code>last.update</code> attribute store on the cache file name and the one from the table of contents. Can be set also with <code>options(ilstat_cache_update = FALSE)</code> . Default is TRUE,   |
| cache_dir    | a path to a cache directory. The directory has to exist. The NULL (default) uses and creates 'ilstat' directory in the temporary directory from <code>tempdir</code> . The directory can also be set with <code>option ilstat_cache_dir</code> ,   |
| cache_format | a character, format to store on the cache "rds" (default), but also "csv", "dta", "sav", "sas7bdat". useful for getting ilostat dataset directly on the <code>cache_dir</code> without R. Can be set also with <code>options(ilstat_cache_format = 'dta')</code> ,   |
| back         | a logical, TRUE return dataframe on R or not FALSE, useful for just saving file in specific <code>cache_format</code> ,  |
| cmd          | a character, R expression use for manipulate internal data frame <code>dat</code> object applied to each datasets retrieved If use, cache is set to FALSE. see examples.   |
| quiet        | a logical, if TRUE , don't return message from processing, FALSE (default). Can be set also with <code>options(ilstat_quiet = TRUE)</code> ,   |

### Value

a tibble. One column for each dimension in the data and the values column for numerical values, as well as the metadata columns. The time column for a time dimension.

## others

Data sets are downloaded from the iloostat bulk download facility. If only the table id is given, the whole table is downloaded from the bulk download facility.

The bulk download facility is the fastest method to download whole datasets. It is also often the only way as the sdmx API has limitation of maximum 300 000 records at the same time and whole datasets usually exceeds that.

By default datasets from the bulk download facility are cached as they are often rather large.

Cache files are stored in a temporary directory by default or in a named directory if `cache_dir` or option `iloostat_cache_dir` is defined. The cache can be emptied with [clean\\_iloostat\\_cache](#).

The id, a code, for the dataset can be searched with the [get\\_iloostat\\_toc](#) or from the [bulk download facility](<https://iloostat.ilo.org/data/bulk/>).

## Author(s)

David Bescond <bescond@ilo.org>

## References

See citation("Rilostat") iloostat bulk download facility user guidelines <https://iloostat.ilo.org/data/bulk/>

## See Also

[get\\_iloostat\\_toc](#), [label\\_iloostat](#)

## Examples

```
## Not run:
##### get simple dataset
dat <- get_iloostat("UNE_2UNE_SEX_AGE_NB_A")
head(dat)
dat <- get_iloostat("NZL_Q", segment = "ref_area")
head(dat)

dir.create(file.path(tempdir(), "r_cache"))
dat <- get_iloostat("UNE_2UNE_SEX_AGE_NB_A",
                  cache_dir = file.path(tempdir(), "r_cache"))
head(dat)

clean_iloostat_cache(cache_dir = file.path(tempdir(), "r_cache"))

options(iloostat_update = TRUE)
dat <- get_iloostat("UNE_2UNE_SEX_AGE_NB_A")
head(dat)
options(iloostat_update = FALSE)
options(iloostat_cache_dir = file.path(tempdir(), "r_cache"))
dat <- get_iloostat("UNE_2UNE_SEX_AGE_NB_A")

clean_iloostat_cache()
```

```
##### get multiple datasets
dat <- get_ilstat(c("CPI_ACPI_COI_RT_M", 'CPI_ACPI_COI_RT_Q'), cache = FALSE)
head(dat)
toc <- get_ilstat_toc(search = 'CPI_')
head(toc)
dat <- get_ilstat(toc, cache = FALSE) #id as a tibble

##### get datasets with filters
dat <- get_ilstat(id = c("UNE_2UNE_SEX_AGE_NB_A", 'EMP_2EMP_SEX_AGE_NB_A'),
  filters = list( ref_area = "FRA",
    classif1 = "AGE_YTHADULT_YGE15",
    time = "2016",
    sex = c("T", 'SEX_F')), quiet = TRUE)
head(dat)
clean_ilstat_cache()

##### store in other format
dir.create(file.path(tempdir(), "ilstat"))

dat <- get_ilstat("UNE_2UNE_SEX_AGE_NB_A",
  cache_dir = file.path(tempdir(), "r_cache"), cache_format = 'csv')
dat <- get_ilstat("UNE_2UNE_SEX_AGE_NB_A",
  cache_dir = file.path(tempdir(), "r_cache"), cache_format = 'dta')

##### advanced manipulation

dat <- get_ilstat("UNE_2UNE_SEX_AGE_NB_A", cmd = "dat %>% count(ref_area)", quiet = TRUE)
label_ilstat(dat, code = 'ref_area')

clean_ilstat_cache()

## End(Not run)
```

---

get\_ilstat\_dic

*Read Ilost Dictionary*


---

## Description

Downloads one ilostat dictionary from ilostat <https://ilostat.ilo.org> via bulk download facility <https://ilostat.ilo.org/data/bulk/>.

## Usage

```
get_ilstat_dic(dic, lang = getOption("ilstat_lang", "en"))
```

## Arguments

|      |  |
|------|--|
| dic  | A character, dictionary for the variable to be downloaded,   |
| lang | a character, code for language. Available are "en" (default), "fr" and "es". Can be set also with options(ilstat_lang = 'fr'), |

## Details

For a given coded variable from ilostat <https://ilstat.ilo.org/>. The dictionaries link codes with human-readable labels. To translate codes to labels, use [label\\_ilstat](#).

## Value

tibble with two columns: code names and full names.

## Author(s)

David Bescond <bescond@ilo.org>

## References

See citation("Rilostat") ilostat bulk download facility user guidelines [https://www.ilo.org/ilstat-files/WEB\\_bulk\\_download/ILOSTAT\\_BulkDownload\\_Guidelines.pdf](https://www.ilo.org/ilstat-files/WEB_bulk_download/ILOSTAT_BulkDownload_Guidelines.pdf) ilostat bulk download facility main page <https://ilstat.ilo.org/data/bulk/>

## See Also

[label\\_ilstat](#), [get\\_ilstat](#).

## Examples

```
## Not run:
tmp <- get_ilstat_dic("indicator")
head(tmp)
tmp <- get_ilstat_dic("classif1", lang = "fr")
head(tmp)

## End(Not run)
```

---

get\_ilstat\_toc

*Read Ilostat Table of Contents*

---

## Description

Download one table of contents from ilostat <https://ilstat.ilo.org> via bulk download facility <https://ilstat.ilo.org/data/bulk/>.

## Usage

```
get_ilstat_toc(
  segment = getOption("ilstat_segment", "indicator"),
  lang = getOption("ilstat_lang", "en"),
  search = getOption("ilstat_search", "none"),
  filters = getOption("ilstat_filter", "none"),
  fixed = getOption("ilstat_fixed", TRUE)
)
```

### Arguments

|         |   |
|---------|---|
| segment | A character, way to get datasets by: "indicator" (default) or "ref_area", Can be set also with options(iloostat_segment = 'ref_area'),  |
| lang    | a character, code for language. Available are "en" (default), "fr" and "es". Can be set also with options(iloostat_lang = 'fr'),  |
| search  | a character vector, "none" (default), datasets with this pattern in the description will be returned, characters vector will be use as AND, Character with 'l' as OR, see example, options(iloostat_time_format = 'date'),            |
| filters | a list; "none" (default) to get a whole toc or a named list of filters to get just part of the table. Names of list objects are iloostat toc variable codes and values are vectors of observation codes. filters detect on variables. |
| fixed   | a logical, if TRUE (default), pattern is a string to be matched as is, Change to FALSE if more complex regex matching is needed.  |

### Details

The TOC in English by indicator is downloaded from [https://www.ilo.org/iloostat-files/WEB\\_bulk\\_download/indicator/table\\_of\\_contents\\_en.csv](https://www.ilo.org/iloostat-files/WEB_bulk_download/indicator/table_of_contents_en.csv). The values in column 'id' should be used to download a selected dataset.

The TOC in English by ref\_area is downloaded from [https://www.ilo.org/iloostat-files/WEB\\_bulk\\_download/ref\\_area/table\\_of\\_contents\\_en.csv](https://www.ilo.org/iloostat-files/WEB_bulk_download/ref_area/table_of_contents_en.csv). The values in column 'id' should be used to download a selected dataset.

### Value

A tibble with ten columns depending of the segment: indicator or ref\_area

- id : The codename of dataset of theme, will be used by the get\_iloostat and get\_iloostat\_raw functions,
- indicator or ref\_area : The indicator or ref\_area code of dataset,
- indicator.label or ref\_area.label : The indicator or ref\_area name of dataset,
- freq : The frequency code of dataset,
- freq.label : Is freq name of dataset,
- size : Size of the csv.gz files,
- data.start : First time period of the dataset,
- data.end : Last time period of the dataset,
- last.update : Last update of the dataset,
- ... : Others relevant information

### Author(s)

David Bescond <bescond@ilo.org>



## References

See citation("Rilostat") ilostat bulk download facility user guidelines [https://www.ilo.org/ilostat-files/WEB\\_bulk\\_download/ILOSTAT\\_BulkDownload\\_Guidelines.pdf](https://www.ilo.org/ilostat-files/WEB_bulk_download/ILOSTAT_BulkDownload_Guidelines.pdf)

## See Also

[get\\_ilstat](#).

## Examples

```
## Not run:
## default segment by indicator, default lang English
toc <- get_ilstat_toc()
head(toc)
toc <- get_ilstat_toc(segment = 'ref_area', lang = 'fr')
head(toc)
##
## search on toc
toc <- get_ilstat_toc(search = 'education')
head(toc)
toc <- get_ilstat_toc(lang = 'fr', search = 'Ã©ducation')
head(toc)
toc <- get_ilstat_toc(segment = 'ref_area', lang = 'fr', search = 'Albanie')
toc
toc <- get_ilstat_toc(segment = 'ref_area', lang = 'es', search = 'Trimestral')
head(toc)
##
## search multi on toc
toc <- get_ilstat_toc(segment = 'ref_area', lang = 'fr',
  search = 'Albanie|France', fixed = FALSE)
head(toc)
toc <- get_ilstat_toc(search = 'youth|adult', fixed = FALSE)
head(toc)
toc <- get_ilstat_toc(search = c('youth','adult'), fixed = FALSE)
head(toc)
##

## End(Not run)
```

---

label\_ilstat

*Switch Ilostat codes and labels*

---

## Description

Gets definitions/labels for ilostat codes from ilostat dictionaries.

**Usage**

```
label_iloostat(
  x,
  dic = NULL,
  code = NULL,
  lang = getOption("iloostat_lang", "en")
)
```

**Arguments**

|                   |  |
|-------------------|--|
| <code>x</code>    | A character or a factor vector or a <code>data_frame</code> to labelled.   |
| <code>dic</code>  | A string (vector) naming iloostat dictionary or dictionaries. If NULL (default) dictionary names are taken from column names of the <code>data_frame</code> . A character or a factor vector or a <code>data_frame</code> to labelled, |
| <code>code</code> | a vector of names of the column for which code columns should be retained. Set to "all", keep all the code.  |
| <code>lang</code> | a character, code for language. Available are "en" (default), "fr" and "es". Can be set also with <code>options(iloostat_lang = 'fr')</code> ,   |

**Details**

A character or a factor vector of codes returns a corresponding vector of definitions. `label_iloostat` labels also `data_frames` from `get_iloostat`. For vectors a dictionary "time" and "values" columns are returned as they were, so you can supply `data_frame` from `get_iloostat` and get `data_frame` with definitions instead of codes.

**Value**

a vector or a `data_frame`. The suffix ".label" is added to code column names.

**Author(s)**

David Bescond <bescond@ilo.org>

**References**

See citation("Rilostat") iloostat bulk download facility user guidelines [https://www.ilo.org/iloostat-files/Documents/ILOSTAT\\_BulkDownload\\_Guidelines.pdf](https://www.ilo.org/iloostat-files/Documents/ILOSTAT_BulkDownload_Guidelines.pdf)

**Examples**

```
## Not run:
dat <- get_iloostat("UNE_2UNE_SEX_AGE_NB_A", cache = FALSE)
dat_lab <- label_iloostat(dat)
head(dat_lab)
clean_iloostat_cache()

## End(Not run)
```

---

Rilostat

*Get more Support*

---

## Description

On regular basis new tutorial and examples are building and available through this function.

## Details

brief description of the package

|           |                                       |
|-----------|---------------------------------------|
| Package:  | Rilostat                              |
| Type:     | Package                               |
| Version:  | See sessionInfo() or DESCRIPTION file |
| Date:     | 2020-2025                             |
| License:  | BSD_2_clause + LICENSE                |
| LazyLoad: | yes                                   |

R Tools for ilostat Open Data

## Author(s)

David Bescond <bescond@ilo.org>

## References

See citation("Rilostat")

ilostat bulk download facility user guidelines [https://www.ilo.org/ilostat-files/Documents/ILOSTAT\\_BulkDownload\\_Guidelines.pdf](https://www.ilo.org/ilostat-files/Documents/ILOSTAT_BulkDownload_Guidelines.pdf)

## Examples

```
## Not run:  
  
# check which documentation have been recently added:  
  
# help(Rilostat)  
  
# https://ilostat.github.io/Rilostat/  
  
## End(Not run)
```

---

`runExplorer`*Play with ilostat explorer*

---

**Description**

open ilostat explorer app on your computer.

**Usage**

```
runExplorer(  
  port = getOption("shiny.port", 3838),  
  launch.browser = getOption("shiny.launch.browser", interactive()),  
  host = getOption("shiny.host", "127.0.0.1"),  
  display.mode = "normal"  
)
```

**Arguments**

|                             |  |
|-----------------------------|--|
| <code>port</code>           | The TCP port that the application should listen on. If the ‘port’ is not specified, and the ‘shiny.port’ option is set (with ‘options(shiny.port = XX)’), then that port will be used. Otherwise, use the 3838 port.   |
| <code>launch.browser</code> | If true, the system’s default web browser will be launched automatically after the app is started. Defaults to true in interactive sessions only. This value of this parameter can also be a function to call with the application’s URL.  |
| <code>host</code>           | The IPv4 address that the application should listen on. Defaults to the ‘shiny.host’ option, if set, or “127.0.0.1” if not. See Details.   |
| <code>display.mode</code>   | The mode in which to display the application. If set to the value "showcase", shows application code and metadata from a DESCRIPTION file in the application directory alongside the application. If set to "normal", displays the application normally. Defaults to "auto", which displays the application in the mode given in its DESCRIPTION file, if any. |

**Author(s)**

David Bescond <bescond@ilo.org>

**References**

See citation("Rilostat")

**Examples**

```
## Not run:  
  
  runExplorer()  
  
## End(Not run)
```

---

|             |   |
|-------------|---|
| sdmx_ilstat | <i>Read Ilostat Data, Metadata via ILO SDMX api</i> |
|-------------|---|

---

**Description**

query codelist, data and metadata via ilo sdmx api

**Usage**

```
sdmx_ilstat(
  dsd,
  sdmx_resource = getOption("ilstat_sdmx_resource", "codelist"),
  sdmx_format = "csv",
  lang = getOption("ilstat_lang", "en"),
  count = getOption("ilstat_sdmx_count", FALSE),
  quiet = getOption("ilstat_quiet", FALSE)
)
```

**Arguments**

|               |  |
|---------------|--|
| dsd           | A datastructure definition, see examples section,  |
| sdmx_resource | : a character, type of info to be returned from the sdmx api: 'codelist' (default), 'data', 'dataflow', 'conceptref',          |
| sdmx_format   | : for data only, a character, format of info to be returned from the sdmx api: 'csv' (default) others no longer available.     |
| lang          | a character for language. Available are "en" (default), "fr" and "es". Can be set also with options(ilstat_lang = 'fr'),       |
| count         | a logical, count data records only if resource = 'data', FALSE (default),  |
| quiet         | a logical, if TRUE , don't return message from processing, FALSE (default). Can be set also with options(ilstat_quiet = TRUE). |

**Author(s)**

David Bescond <bescond@ilo.org>

**References**

See citation("Rilostat")

ilstat sdmx user guidelines: "[https://www.ilo.org/ilstat-files/Documents/SDMX\\_User\\_Guide.pdf](https://www.ilo.org/ilstat-files/Documents/SDMX_User_Guide.pdf)"

## Examples

```
## Not run:
##### get codelist
# fetch indicator define on ILOSTAT
dic <- sdmx_iloostat(dsd = "CL_INDICATOR", lang ="en")
head(dic)

# fetch country available on ILOSTAT
dic <- sdmx_iloostat(dsd = "CL_AREA", lang ="es")
head(dic)

# fetch classif ECO version available on ILOSTAT
dic <- sdmx_iloostat(dsd = "CL_ECO", lang ="en")
head(dic)

# fetch note type available on ILOSTAT
dic <- sdmx_iloostat(dsd = "CL_NOTE_TYPE", lang ="en")
head(dic)

# fetch note "Repository" available on ILOSTAT
dic <- sdmx_iloostat(dsd = "CL_NOTE_R1", lang ="en")
head(dic)

##### get data

### with attribute
dat <- sdmx_iloostat(dsd = 'STI_ALB_EMP_TEMP_SEX_AGE_NB',
                    sdmx_resource = 'data')
head(dat)

# without attribute
dat <- sdmx_iloostat(dsd = "STI_DEU_EMP_TEMP_SEX_AGE_NB?detail=dataonly",
                    sdmx_resource = 'data')
head(dat)

##### with multi country and advanced filters

# to get the order of the filter first get the conceptref of the DSD

filter_position <- sdmx_iloostat(dsd = 'STI_ALL_EMP_TEMP_SEX_AGE_NB',
                                sdmx_resource = 'conceptref')
filter_position

# COUNTRY and FREQ are in second and third position of the filters

dat <- sdmx_iloostat(dsd = "STI_ALL_EMP_TEMP_SEX_AGE_NB/.FRA+DEU.Q...",
                    sdmx_resource = 'data')
head(dat)

##### dataflow available

flow <- sdmx_iloostat("STI_TTO_MULTI", sdmx_resource = 'dataflow')
```

```
flow <- sdmx_ilstat("KI_ALL_EMP_MULTI", sdmx_resource = 'dataflow')
flow <- sdmx_ilstat("YI_FRA_UNE_MULTI", sdmx_resource = 'dataflow')
##### count data available
sdmx_ilstat("STI_FRA_UNE_TUNE_SEX_AGE_NB/STI.FRA....",
            sdmx_resource = 'data', count = TRUE)

## End(Not run)
```

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