

# Package ‘estatapi’

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**Type** Package

**Title** R Interface to e-Stat API

**Version** 0.4.0

**Description** Provides an interface to e-Stat API, the one-stop service for official statistics of the Japanese government.

**URL** <https://yutannahilation.github.io/estatapi/>

**BugReports** <https://github.com/yutannahilation/estatapi/issues>

**License** MIT + file LICENSE

**LazyData** TRUE

**Depends** R (>= 3.3)

**Imports** httr, purrr (>= 0.2), readr (>= 0.2), dplyr (>= 0.5.0),  
tibble, rlang

**RoxygenNote** 7.1.0

**Suggests** testthat, keyring

**Encoding** UTF-8

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estatapi	<i>R Interface to e-Stat API</i>
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**Description**

Provides an interface to e-Stat API, the one-stop service for official statistics of the Japanese government.

**Author(s)**

**Maintainer:** Hiroaki Yutani <yutani.ini@gmail.com> ([ORCID](#))

**See Also**

<http://www.e-stat.go.jp/SG1/estat/eStatTopPortalE.do>

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estat_api	<i>e-Stat API</i>
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**Description**

Get Statistical Something From e-Stat API

**Usage**

```
estat_api(path, appId, ...)
```

**Arguments**

path	API endpoint.
appId	Application ID.
...	Other parameters.

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ESTAT_API_URL	<i>Util</i>
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**Description**

Util

**Usage**

ESTAT\_API\_URL

**Format**

An object of class character of length 1.

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estat_getDataCatalog	<i>getDataCatalog API</i>
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**Description**

Get information about the statistical dataset files and databases via e-Stat API.

**Usage**

```
estat_getDataCatalog(  
  appId,  
  lang = c("J", "E"),  
  .use_label = TRUE,  
  surveyYears = NULL,  
  openYears = NULL,  
  statsField = NULL,  
  statsCode = NULL,  
  searchWord = NULL,  
  dataType = NULL,  
  catalogId = NULL,  
  resourceId = NULL,  
  startPosition = NULL,  
  limit = NULL,  
  updatedDate = NULL,  
  ...  
)
```

**Arguments**

appId	Application ID.
lang	Language of the data. "J"(Japanese) or "E"(English).
.use_label	Whether to take the human-readable label value or the code value when flattening a field containing both (default: TRUE).
surveyYears	Year and month when the survey was conducted. The format is either "YYYY", "YYYYMM", or "YYYYMM-YYYYMM".
openYears	Year and month when the survey result was opened. The format is the same as surveyYears.
statsField	Field of statistics. The format is either two digits(large classification) or four digits (small classification). For the detail of the classification, see <a href="http://www.soumu.go.jp/toukei_toukatsu/index/seido/sangyo/26index.htm">http://www.soumu.go.jp/toukei_toukatsu/index/seido/sangyo/26index.htm</a> .
statsCode	Code assigned for each statistical agency and statistics. The format can be five digits (agency), and eight digits (statistics). For the detail, see <a href="http://www.stat.go.jp/info/guide/public/code/code.htm">http://www.stat.go.jp/info/guide/public/code/code.htm</a> .
searchWord	Keyword for searching. You can use OR and AND to combine conditions (e.g.: "apple AND orange").
dataType	Type of data. XLS: Excel file, CSV: CSV file, PDF: PDF file, DB: Database.
catalogId	Catalog ID.
resourceId	Catalog resource ID.
startPosition	Index of the first record to get.
limit	Max number of records to get.
updatedAt	Last updated date. The format is either "YYYY", "YYYYMM", or "YYYYMM-YYYYMM".
...	Other parameters.

**See Also**

[http://www.e-stat.go.jp/api/e-stat-manual3-0/#api\\_2\\_6](http://www.e-stat.go.jp/api/e-stat-manual3-0/#api_2_6) [http://www.e-stat.go.jp/api/e-stat-manual3-0/#api\\_3\\_7](http://www.e-stat.go.jp/api/e-stat-manual3-0/#api_3_7)

**Examples**

```
## Not run:
estat_getDataCatalog(
  appId = "XXXX",
  searchWord = "CD",
  dataType = "XLS",
  limit = 3
)
## End(Not run)
```

---

estat\_getMetaInfo      *getMetaInfo API*

---

### Description

Get meta-information about the statistical dataset via e-Stat API.

### Usage

```
estat_getMetaInfo(appId, statsDataId, lang = c("J", "E"), ...)
```

### Arguments

appId	Application ID.
statsDataId	ID of the statistical dataset.
lang	Language of data. "J"(Japanese) or "E"(English).
...	Other parameters.

### See Also

[http://www.e-stat.go.jp/api/e-stat-manual3-0/#api\\_2\\_2](http://www.e-stat.go.jp/api/e-stat-manual3-0/#api_2_2) [http://www.e-stat.go.jp/api/e-stat-manual3-0/#api\\_3\\_3](http://www.e-stat.go.jp/api/e-stat-manual3-0/#api_3_3)

### Examples

```
## Not run:  
estat_getMetaInfo(appId = "XXXX", statsDataId = "0003065345")  
  
## End(Not run)
```

---

estat\_getStatsData      *getStatsData API*

---

### Description

Get some statistical data via e-Stat API.

**Usage**

```

estat_getStatsData(
  appId,
  statsDataId,
  startPosition = NULL,
  limit = NULL,
  lang = c("J", "E"),
  .fetch_all = TRUE,
  ...
)

```

**Arguments**

appId	Application ID.
statsDataId	ID of the statistical dataset.
startPosition	Index of the first record to get.
limit	Max number of records to get.
lang	Language of the data. "J"(Japanese) or "E"(English).
.fetch_all	Whether to fetch all records when the number of records is larger than 100,000.
...	Other parameters. <ul style="list-style-type: none"> <li>lvTab: Level of the meta-information. The format can be X or X-Y, -X and X-.</li> <li>cdTab: Code(s) of the meta-information items to select. The format can be a character vector (c("001", "002")) or a character of values and commas ("001,002").</li> <li>cdTabFrom: The code of the first meta-information item to select.</li> <li>cdTabTo: The code of the last meta-information item to select.</li> <li>lvTime: Level of the time to select. The format is the same as lvTab</li> <li>cdTime Time(s) to select. The format is the same way like cdTab</li> <li>cdTimeFrom: The first time to select. The format is the same way like cdTabFrom</li> <li>cdTimeTo: The last time to select. The format is the same way like cdTabTo</li> <li>lvArea: Level of the area to select. The format is the same as lvTab</li> <li>cdArea Code(s) of the Area to select. The format is the same way like cdTab</li> <li>cdAreaFrom: The code of the first area to select. The format is the same way like cdTabFrom</li> <li>cdAreaTo: The code of the last area to select. The format is the same way like cdTabTo</li> <li>lvCat01, cdCat01, cdCat01From, cdCat01To, ...: The same way like above.</li> </ul>

**See Also**

[http://www.e-stat.go.jp/api/e-stat-manual3-0/#api\\_2\\_3](http://www.e-stat.go.jp/api/e-stat-manual3-0/#api_2_3) [http://www.e-stat.go.jp/api/e-stat-manual3-0/#api\\_3\\_4](http://www.e-stat.go.jp/api/e-stat-manual3-0/#api_3_4)

## Examples

```
## Not run:
# fetch all data, which may take time
estat_getStatsData(
  appId = "XXXX",
  statsDataId = "0003065345"
)

# fetch data up to 10 records
estat_getStatsData(
  appId = "XXXX",
  statsDataId = "0003065345",
  limit = 10
)

# fetch data up to 100,000 records (max number of records available at once)
estat_getStatsData(
  appId = "XXXX",
  statsDataId = "0003065345",
  .fetch_all = FALSE
)

# fetch all data in the specified category
estat_getStatsData(
  appId = "XXXX",
  statsDataId = "0003065345",
  cdCat01 = c("008", "009", "010")
)

## End(Not run)
```

---

estat\_getStatsList      *getStatsList API*

---

## Description

Search for statistical datasets via e-Stat API.

## Usage

```
estat_getStatsList(
  appId,
  searchWord,
  lang = c("J", "E"),
  .use_label = TRUE,
  surveyYears = NULL,
  openYears = NULL,
  statsField = NULL,
```

```

statsCode = NULL,
searchKind = NULL,
collectArea = NULL,
startPosition = NULL,
limit = NULL,
updatedAt = NULL,
...
)

```

### Arguments

appId	Application ID.
searchWord	Keyword for searching. You can use OR and AND to combine conditions (e.g.: "apple AND orange").
lang	Language of the data. "J"(Japanese) or "E"(English).
.use_label	Whether to take the human-readable label value or the code value when flattening a field containing both (default: TRUE).
surveyYears	Year and month when the survey was conducted. The format is either "YYYY", "YYYYMM", or "YYYYMM-YYYYMM".
openYears	Year and month when the survey result was opened. The format is the same as surveyYears.
statsField	Field of statistics. The format is either two digits(large classification) or four digits (small classification). For the detail of the classification, see <a href="http://www.soumu.go.jp/toukei_toukatsu/index/seido/sangyo/26index.htm">http://www.soumu.go.jp/toukei_toukatsu/index/seido/sangyo/26index.htm</a> .
statsCode	Code assigned for each statistical agency and statistics. The format can be five digits (agency), and eight digits (statistics). For the detail, see <a href="http://www.stat.go.jp/info/guide/public/code/code.htm">http://www.stat.go.jp/info/guide/public/code/code.htm</a> .
searchKind	Type of statistics. <ul style="list-style-type: none"> <li>• 1: summary</li> <li>• 2: regional mesh</li> </ul>
collectArea	Area of statistics. <ul style="list-style-type: none"> <li>• 1: country</li> <li>• 2: prefecture</li> <li>• 3: municipality</li> </ul>
startPosition	Index of the first record to get.
limit	Max number of records to get.
updatedAt	Last updated date. The format is either "YYYY", "YYYYMM", or "YYYYMM-YYYYMM".
...	Other parameters.

### See Also

[http://www.e-stat.go.jp/api/e-stat-manual3-0/#api\\_2\\_1](http://www.e-stat.go.jp/api/e-stat-manual3-0/#api_2_1) [http://www.e-stat.go.jp/api/e-stat-manual3-0/#api\\_3\\_2](http://www.e-stat.go.jp/api/e-stat-manual3-0/#api_3_2)



**Examples**

```
## Not run:  
estat_getStatsList(  
  appId = "XXXX",  
  searchWord = "CD",  
  limit = 3  
)  
  
## End(Not run)
```

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