

# Package: opendatarte (via r-universe)

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**Encoding** UTF-8

**Title** opendatarte

**Version** 0.0.0.9000

**Description** This package is R Client to RTE API of data.rte-france.com. It contains tools and functions to authenticate to the API and retrieves the data.

**Depends** R (>= 3.3.0)

**License** GPL-3

**LazyData** true

**RoxygenNote** 6.1.1

**Imports** assertthat, httr (>= 1.4.0), purrr, jsonlite

**Suggests** testthat

**Roxygen** list(markdown = TRUE)

**URL** <https://github.com/cderv/opendatarte>

**BugReports** <https://github.com/cderv/opendatarte/issues>

**Config/pak/sysreqs** libssl-dev

**Repository** <https://cderv.r-universe.dev>

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call_api	<i>Generic function to call RTE Data API</i>
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**Description**

This function is the base one used in each of the different API functions. It is resource generic and could be adapted to call the available resource on the data RTE portal.

**Usage**

```
call_api(resource_path, refresh = TRUE, verbose = FALSE)
```

**Arguments**

resource_path	string. Endpoint of the resource as describe in data rte API documentation available on data.rte-france.com (part of the url after /open_api/)
refresh	logical. force to FALSE to prevent refresh
verbose	logical.

**Value**

an rte\_api object as a list with

1. content: the parsed json resulting from the API call
2. path: the resource called by the API request
3. response: the raw response from the API call.

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datarte_auth	<i>Obtain credentials for RTE Data API</i>
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**Description**

It is the main fonction to use for accessing RTE Data API. It will request an access token for the current session if none currently exists and be valid.

**Usage**

```
datarte_auth(token = NULL, client_id = NULL, client_secret = NULL,  
cache = FALSE)
```

**Arguments**

token	optional argument. it exists to supply manually a token. <ul style="list-style-type: none"> <li>• if NULL (the default), the current token for the active session will be used.</li> <li>• if a character, it assumes to be the path to a <i>rds</i> file containing a valid Token2.0 object from httr</li> <li>• a Token2.0 object directly</li> </ul>
client_id	character. the client id for the app. default NULL - will use the RTE_API_CLIENT environment variable.
client_secret	character. the client secret for the app. default NULL <ul style="list-style-type: none"> <li>• will use the RTE_API_SECRET environment variable.</li> </ul>
cache	logical or a string. TRUE to cache the access token into a file. A string means use the specified file. See <code>httr::oauth2.0_token()</code> for details.

**Details**

You can configure your R session to use always some client and secret by setting `RTE_API_CLIENT` and `RTE_API_SECRET` environment variable with `base::Sys.setenv()`

**Value**

invisibly the Token which is saved for the current session, and will be used when needed.

**References**

This function is inspired by `googlesheet` package and its Oauth2 system.

**Examples**

```
## Not run:
client_id <- "cliend_id"
client_secret <- "client_secret"
datarte_auth(client_id = client_id, client_secret = client_secret, cache = F)

## End(Not run)
```

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datarte_token	<i>Produces token for data.rte-france.com</i>
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**Description**

If token is not already available in the current session, this function will stop execution. An active token for the current session must be requested before any other task.

**Usage**

```
datarte_token(verbose = FALSE)
```

**Arguments**

verbose            Set to TRUE to print information.

**Details**

Use `get_current_token()` to check for valid token.

**Value**

a request object (an S3 class provided by `httr`). It is the token prepared for use with `httr` configuration system. see `httr::config()`.

**Examples**

```
## Not run:
# use in httr fonction like GET for authentication as config for httr
datarte_auth(client_id, client_secret)
httr::GET("https://httpbin.org/get", datarte_token())

## End(Not run)
```

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get\_current\_token            *Get current active token*

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**Description**

Get current active token

**Usage**

```
get_current_token(only_access_token = F)
```

**Arguments**

only\_access\_token  
                    logical. Default to FALSE

**Value**

If TRUE, just the token string is returned not the whole token object. If no token is available, for the current session, it returns NULL

**Examples**

```
get_current_token() # Returns NULL or token object credentials
get_current_token(TRUE) # Returns NULL or access token string only.
```

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RegistreAPI	<i>Retrieve data from the capacity market public registry</i>
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**Description**

Retrieve data from the capacity market public registry

**Usage**

```
RegistreAPI(ressource = NULL, sandbox = T, refresh = T)
```

**Arguments**

ressource	name of the ressource to call in the API. Choices are describe in API documentation on the website <a href="http://www.data.rte-france.com">http://www.data.rte-france.com</a>
sandbox	logical. TRUE to call the sandbox URL for testing
refresh	logical. TRUE to allow refresh.

**See Also**

Other API-calls: [unavailabilityAPI](#)

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unavailabilityAPI	<i>Retrieve data from the production API</i>
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**Description**

Retrieve data from the production API

**Usage**

```
unavailabilityAPI(ressource = NULL, sandbox = TRUE, refresh = TRUE)
```

**Arguments**

ressource	name of the ressource to call in the API. Choices are describe in API documentation on the website <a href="http://www.data.rte-france.com">http://www.data.rte-france.com</a>
sandbox	logical. TRUE to call the sandbox URL for testing
refresh	logical. TRUE to allow refresh.

**See Also**

Other API-calls: [RegistreAPI](#)

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