

Package: otndata (via r-universe)

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Title Access Acoustic Telemetry Data on Plone Content Management Systems

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Description An R API to interface with the Plone REST API of Ocean Tracking Network (OTN)-affiliated data portals.

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.otn_server_url	<i>Set the OTN Plone instance with which you wish to interact.</i>
-----------------	--

Description

Set the OTN Plone instance with which you wish to interact.

Usage

```
.otn_server_url(  
  network = c("otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat",  
             "otn_devel", "etn", "fact", "glatos", "path", "raft"),  
  set = TRUE  
)
```

Arguments

network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.
set	Set the network in the current session?

otn_download	<i>Download file(s) from an OTN-style Plone server.</i>
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Description

Either `files` or `urls` must be provided. If `files` is provided, files in the `data.frame` are downloaded in parallel.

Usage

```
otn_download(files = NULL, urls = NULL, outdir = ".")
```

Arguments

<code>files</code>	a <code>data.frame</code> returned by <code>otn_project_files</code> or <code>otn_extract_files</code> . Can have been filtered or edited, but must have columns of "url" and "network".
<code>urls</code>	The URL of the file as returned by <code>otn_project_files</code> or <code>otn_extract_files</code>
<code>outdir</code>	The output directory (where you want the file to be saved). Defaults to the current working directory.

Value

Silently returns a vector of file locations.

#' @seealso

- Plone REST API documentation:
 - [Serialization](#)

otn_extract_files	<i>List OTN extract files.</i>
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Description

This function recursively lists files in the *Detection Extracts* section of your project.

Usage

```
otn_extract_files(
  project,
  text = NULL,
  since = NULL,
  batch_size = 25,
  network = NULL
)
```

Arguments

project	Character. The project code.
text	Character. Text to search for in the file name/title. See Details for more information.
since	Character. Filter for files modified since this date (YYYY-MM-DD format).
batch_size	Numeric. The number of results to return. Defaults to 25.
network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.

See Also

[.otn_files](#)

otn_list_contacts	<i>Retrieve OTN contact list.</i>
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Description

Retrieve OTN contact list.

Usage

```
otn_list_contacts(network = NULL)
```

Arguments

network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.
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otn_list_countries	<i>Retrieve OTN country list.</i>
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Description

Retrieve OTN country list.

Usage

```
otn_list_countries(network = NULL)
```

Arguments

network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.
---------	--

otn_list_institutions *Retrieve OTN institution list.*

Description

Retrieve OTN institution list.

Usage

```
otn_list_institutions(network = NULL)
```

Arguments

network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.
---------	--

otn_list_projects *Retrieve OTN project list.*

Description

Retrieve OTN project list.

Usage

```
otn_list_projects(what = c("all", "mine"), network = NULL)
```

Arguments

what	Which projects do you wish to see: all or mine? all can be viewed without logging in, but you must log in before viewing yours (well, mine).
network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.

otn_list_species	<i>Retrieve OTN species list.</i>
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Description

Retrieve OTN species list.

Usage

```
otn_list_species(network = NULL)
```

Arguments

network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.
---------	--

otn_list_stats	<i>Retrieve OTN network statistics.</i>
----------------	---

Description

Retrieve OTN network statistics.

Usage

```
otn_list_stats(network = NULL)
```

Arguments

network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.
---------	--

`otn_login`*Authenticate to an Ocean Tracking Network server.*

Description

This function prompts you for the username and password associated with your OTN account. This is necessary so that you may interface with any project-specific files.

Usage

```
otn_login(network = NULL)
```

Arguments

<code>network</code>	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.
----------------------	--

Details

A pop up will appear asking for your username and password. If everything works out, a token is written to the "SESSION_TOKEN" variable in the `otn_global` environment. Your username/password will not be saved – this was done intentionally so that you don't accidentally save credentials in a public script.

See Also

- [otn_set_credentials](#)
- Plone REST API documentation:
 - [Authentication](#)

`otn_project_files`*List OTN project files.*

Description

This function lists the file names, types, upload date, and URLs of OTN project files – basically everything you see in the *Data and Metadata* section of your project page. You will be prompted to log in if it is not a public project.

Usage

```
otn_project_files(
  project,
  text = NULL,
  since = NULL,
  batch_size = 25,
  network = NULL
)
```

Arguments

project	Character. The project code.
text	Character. Text to search for in the file name/title. See Details for more information.
since	Character. Filter for files modified since this date (YYYY-MM-DD format).
batch_size	Numeric. The number of results to return. Defaults to 25.
network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.

See Also

[.otn_files](#)

otn_receiver_summary	<i>Create summary reports of receiver project data from the OTN data push.</i>
----------------------	--

Description

Create summary reports of receiver project data from the OTN data push.

Usage

```
otn_receiver_summary(
  project = NULL,
  qualified = NULL,
  unqualified = NULL,
  deployment = NULL,
  network = NULL,
  ...
)
```

Arguments

project	Character. The project code.
qualified, unqualified	Default is NULL: OTN qualified or unqualified detections in parquet format will be downloaded from the data server. This argument also accepts a character vector of file paths of your qualified/unqualified detections if you do not wish to download your files or your node does not use an OTN-style Plone CMS.
deployment	File path of user-supplied master OTN receiver deployment metadata.
network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.
...	Arguments passed to <code>otndo::make_receiver_push_summary</code>

No files provided

If you only provide your project code and leave all of the arguments as their defaults, this function will ask you to log in then proceed to download all of the necessary files. You can speed up this process substantially by providing already-downloaded files.

Output

This function creates an HTML report that can be viewed in your web browser.

Examples

```
## Not run:
# Using only the project code:
otn_receiver_summary("tailwinds")

# Providing a local file:
otn_receiver_summary("tailwinds", deployment = "my_master_deployment_metadata.xlsx")

# Get a summary fo what has changed since a particular date:
otn_receiver_summary("tailwinds", since = "2022-05-01")

## End(Not run)
```

otn_search_code	<i>Search OTN database by project code.</i>
-----------------	---

Description

Search OTN database by project code.

Usage

```
otn_search_code(code, network = NULL)
```

Arguments

code	Character. Project code for which to search. Supports partial matching.
network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.

otn_search_contact *Search OTN database by project contact.*

Description

Search OTN database by project contact.

Usage

```
otn_search_contact(contact, network = NULL)
```

Arguments

contact	Character. Project contact for which to search. DOES NOT support partial matching.
network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.

otn_search_country *Search OTN database by project country.*

Description

Search OTN database by project country.

Usage

```
otn_search_country(country, network = NULL)
```

Arguments

country	Character. Project country for which to search. DOES NOT support partial matching.
network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.

`otn_search_institution`*Search OTN database by institution.*

Description

Search OTN database by institution.

Usage

```
otn_search_institution(institution, network = NULL)
```

Arguments

<code>institution</code>	Character. Institution for which to search. DOES NOT support partial matching.
<code>network</code>	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.

`otn_search_node`*Search OTN database by local node.*

Description

Search OTN database by local node.

Usage

```
otn_search_node(node, network = NULL)
```

Arguments

<code>node</code>	Character. OTN node for which to search. DOES NOT support partial matching.
<code>network</code>	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.

otn_search_species	<i>Search OTN database by project species</i>
--------------------	---

Description

Search OTN database by project species

Usage

```
otn_search_species(species, network = NULL)
```

Arguments

species	Character. Project species for which to search. DOES NOT support partial matching and only recognizes scientific names of the form "Genus species" (note capitalization).
network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.

otn_set_credentials	<i>Installs your OTN username and password in your .Renviron file for repeated use.</i>
---------------------	---

Description

This code was adapted from `tidycensus::census_api_key`. Note that this saves your credentials in your .Renviron, meaning that anyone who is using your computer can theoretically access your username and password. So... use this carefully!

Usage

```
otn_set_credentials(network, temporary = FALSE, overwrite = FALSE)
```

Arguments

network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.
temporary	Logical. Scrub credentials after the current session?
overwrite	Logical. Overwrite previously-stored credentials?

Examples

```
## Not run:
otn_set_credentials("act")

## End(Not run)
# Yup, that's it!
```

otn_tag_summary	<i>Create summary reports of receiver project data from the OTN data push.</i>
-----------------	--

Description

Create summary reports of receiver project data from the OTN data push.

Usage

```
otn_tag_summary(project = NULL, matched = NULL, network = NULL, ...)
```

Arguments

project	Project name that you wish to have summarized
matched	Default is NULL: OTN matched detections in parquet format will be downloaded from the data server. If you do not wish to download your files or your node does not use an OTN-style Plone CMS, this argument also accepts a character vector of file paths of your matched detections. These can be parquet, CSVs, or zipped folders.
network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.
...	Arguments passed to <code>otndo::make_tag_push_summary</code>

Examples

```
## Not run:
# You can just use your project name
otn_tag_summary("mdwea")

# Or provide an optional date to summarize "What's New".
otn_tag_summary("mdwea", since = "2025-11-01")

## End(Not run)
```

otn_upload

Upload a file to the Plone CMS

Description

Upload a file to the Plone CMS

Usage

```
otn_upload(file_path, project, network = NULL)
```

Arguments

file_path	Character. Location of the file to be uploaded.
project	Character. The project code.
network	Character. Lowercase code of the desired telemetry network. One of "otn", "act", "atap", "itag", "migramar", "nep", "npact", "pirat", or "otn_devel" (the OTN development server). Note that "etn", "fact", "glatos", "path" and "raft" are accepted, but only to produce an error and redirect you.

Value

Silently returns a vector of file locations.

See Also

- Plone REST API documentation:
 - [Content manipulation](#)
 - [Deserialization](#)

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