Package 'onc.api'

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Title Oceans 2.0 API Client Library

Description Allows users to discover and retrieve Ocean Networks Canada's oceano-
graphic data in raw, text, image, audio, video or any other format available. Pro-
vides a class that wraps web service calls and business logic so that users can down-
load data with a single line of code.

Version 2.0.1.0

URL https://wiki.oceannetworks.ca/display/O2A/Oceans+2.0+API+Home

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Imports anytime, httr, methods, humanize, lubridate, stringi, tictoc,
crayon, utils, testthat

Encoding UTF-8

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R topics documented:

Onc-class   *Onc Class*

Description

Provides convenient & easy access to Ocean Networks Canada's data. For detailed information and usage examples, visit our official Documentation.

Arguments

token	User token
production	whether the ONC Production server URL is used for service requests
showInfo	Whether verbose debug messages are displayed
outPath	Output path for downloaded files
timeout	Number of seconds before a request to the API is canceled

Fields

token character. User token

showInfo logical. Print verbose debug comments

timeout numeric. Number of seconds before a request to the API is canceled

baseUrl character. Base URL for API requests

outPath character. Output path for downloaded files
    Class initializer

Methods

downloadDataProduct(runId = 0, maxRetries = 0, downloadResultsOnly = FALSE, includeMetadataFile = TRUE, c
    Manually download a data product after it was requested and run

formatUtc(dateString = "now") Formats the provided date string to meet ISO8601

getDataProducts(filters = list()) Returns a filtered list of data products

getDeployments(filters = list()) Returns a filtered list of deployments

getDeviceCategories(filters = list()) Returns a filtered list of device categories

getDevices(filters = list()) Returns a filtered list of devices

getDirectByDevice(filters = list(), allPages = FALSE) Obtain scalar data readings from a device

getDirectByLocation(filters = list(), allPages = FALSE) Obtain scalar data readings from a device category in a location

getDirectFiles(filters = list(), overwrite = FALSE, allPages = FALSE) Download a list of archived files that match the filters provided

getDirectRawByDevice(filters = list(), allPages = FALSE) Obtain raw data readings from a device

`getDirectRawByLocation(filters = list(), allPages = FALSE)` Obtain raw data readings from
a device category in a location

`getFile(filename = "", overwrite = FALSE)` Download a file with the given filename

`getListByDevice(filters = list(), allPages = FALSE)` Get a list of archived files for a device

`getListByLocation(filters = list(), allPages = FALSE)` Get a list of archived files for a de-
vice category in a location

`getLocationHierarchy(filters = list())` Returns a filtered locations tree

`getLocations(filters = list())` Returns a filtered list of locations

`getProperties(filters = list())` Returns a filtered list of properties

`orderDataProduct( filters = list(), maxRetries = 0, downloadResultsOnly = FALSE, includeMetadataFile = TR`
Request, run and download a data product

`print(data, filename = "")` Prints a named list in a format easier to read

`requestDataProduct(filters = list())` Manually Request a data product

`runDataProduct(dpRequestId = 0, waitComplete = FALSE)` Manually run a data product request

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