

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 oceanographic data in raw, text, image, audio, video or any other format available. Provides a class that wraps web service calls and business logic so that users can download 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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Author Dany Cabrera [aut],
Allan Rempel [ctb],
Ryan Ross [ctb],
Bennit Mueller [ctb, cre]

Maintainer Bennit Mueller <data@oceannetworks.ca>

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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, o
 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 device 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 = TRUE)` 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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