

Package: rzentra (via r-universe)

October 13, 2024

Title Client for the 'ZENTRA Cloud' API

Version 0.1.0

Description Provides functionality to read settings, statuses and readings of weather stations from the 'ZENTRA Cloud' API
<<https://zentracloud.com/api/v1/guide#APIGuidelines>>.

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Suggests testthat, spelling

Imports httr, jsonlite, magrittr, dplyr, lubridate, purrr, methods, data.table

Language en-US

NeedsCompilation no

Author Eduard Szöcs [aut, cre], BASF SE [cph]

Maintainer Eduard Szöcs <eduard.szoecs@basf.com>

Repository CRAN

Date/Publication 2020-12-21 10:20:02 UTC

Contents

parse_port	2
parse_timepoint	2
parse_timeseries	2
zc_settings	3
zc_timeseries	4
zc_token	4

Index	6
--------------	----------

parse_port *parse a port*

Description

parse a port

Usage

parse_port(port)

Arguments

port port object as in zc_readings object

parse_timepoint *parse a timepoint*

Description

parse a timepoint

Usage

parse_timepoint(timepoint)

Arguments

timepoint timepoint object as in zc_readings object

parse_timeseries *parse a time series*

Description

parse a time series

Usage

parse_timeseries(timeseries)

Arguments

timeseries time series object

zc_settings	<i>retrieve settings of a device</i>
-------------	--------------------------------------

Description

retrieve settings of a device
 retrieve statuses of a device
 retrieve readings of a device

Usage

```
zc_settings(token = NULL, sn = NULL, start_time = NULL, end_time = NULL)

zc_statuses(token = NULL, sn = NULL, start_time = NULL, end_time = NULL)

zc_readings(token = NULL, sn = NULL, start_time = NULL, start_mrid = NULL)
```

Arguments

token	(required) authorization token as returned by zc_token
sn	(required) the serial number for the device
start_time	Return data with timestamps greater or equal start_time. Specify start_time in UTC seconds, e.g. 1579474800)
end_time	Return data with timestamps smaller or equal end_time. Specify end_time in UTC seconds, , e.g. 1579474800))
start_mrid	Return data with mrids greater or equal start_mrid. This can be user to query data that has not been received yet, see guidelines .

Examples

```
## Not run:
zc_settings(token = "yourtoken",
  sn = "z6-00033",
  start_time = as.numeric(as.POSIXct(Sys.Date(), origin = "1970-01-01")))

## End(Not run)
## Not run:
zc_statuses("yourtoken", sn = "z6-00033",
  start_time = as.numeric(as.POSIXct(Sys.Date(), origin = "1970-01-01")))

## End(Not run)
## Not run:
zc_readings("yourtoken", sn = "z6-00033",
  start_time = as.numeric(as.POSIXct(Sys.Date(), origin = "1970-01-01")))

## End(Not run)
```

zc_timeseries	<i>parse readings into a long data.frame</i>
---------------	--

Description

parse readings into a long data.frame

Usage

```
zc_timeseries(readings)
```

Arguments

readings object of class zc_readings as returned by [zc_readings\(\)](#)

Examples

```
## Not run:
readings <- zc_readings("yourtoken",
  sn = "z6-00033",
  start_time = as.numeric(as.POSIXct(Sys.Date(),origin = "1970-01-01")))
zc_timeseries(readings)

## End(Not run)
```

zc_token	<i>retrieve authentication token from zentracloud</i>
----------	---

Description

retrieve authentication token from zentracloud

Usage

```
zc_token(
  username = Sys.getenv("ZC_USERNAME"),
  password = Sys.getenv("ZC_PASSWORD")
)
```

Arguments

username username. Read by default from environment variable ZC_USERNAME
password password. Read by default from environment variable ZC_PASSWORD

Value

api token

Examples

```
## Not run:  
token <- zc_token("xxxx", "yyyyy")  
  
## End(Not run)
```

Index

`parse_port`, 2
`parse_timepoint`, 2
`parse_timeseries`, 2

`zc_readings (zc_settings)`, 3
`zc_readings()`, 4
`zc_settings`, 3
`zc_statuses (zc_settings)`, 3
`zc_timeseries`, 4
`zc_token`, 3, 4