Package ‘cumulocityr’

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Type Package
Title Client for the 'Cumulocity' API
Version 0.1.0
Imports httr, jsonlite
Suggests testthat, knitr, rmarkdown, covr
Description Access the 'Cumulocity' API and retrieve data on devices, measurements, and events. Documentation for the API can be found at <https://www.cumulocity.com/guides/reference/rest-implementation/>.
License GPL-3
BugReports https://github.com/SoftwareAG/cumulocityr/issues
Encoding UTF-8
LazyData true
VignetteBuilder knitr
RoxygenNote 6.1.1
NeedsCompilation no
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 DESCRIPTION

Get the devices or for a tenant.

USAGE

get_devices(num_rows = NULL, parse_json = TRUE)

ARGUMENTS

num_rows The number of records to return.
parse_json If TRUE, parse the JSON object into a data frame.

DETAILS

Get the devices for a tenant.
If num_rows = NULL (default), all devices are returned.
If parse_json is TRUE, the JSON object is parsed using jsonlite::fromJSON before being returned. The data is converted to a single flattened data frame.
If parse_json is FALSE, the JSON object is returned as a JSON string.

VALUE

A data.frame if parse_json = TRUE, and a character string otherwise.

AUTHOR(S)

Dmitriy Bolotov

REFERENCES

Cumulocity Inventory API

EXAMPLES

get_devices()
get_events

Get the events for a device.

Description
Get the events for a device.

Usage
get_events(device_id, date_from, date_to = NULL, num_rows = NULL,
parse_json = TRUE)

Arguments
device_id     The device id.
date_from     The starting datetime.
date_to       The ending datetime.
um_rows       The number of records to return.
parse_json    If TRUE, parse the JSON object into a data frame.

Details
The datetime fields date_from and date_to are expected to be strings in the format "YYYY-MM-DDTHH:MM:SSZ".
If date_to is null, it is set to the current time.
If num_rows and both dates are specified, the lesser of the two ranges is returned.
If parse_json is TRUE, the JSON object is parsed using jsonlite::fromJSON before being returned. The data is converted to a single flattened data frame. If a page does not contain any events, it does not get added to the data frame.
If parse_json is FALSE, the JSON object is returned as a JSON string. For queries with multiple pages, a list of such objects is returned. Each element in this list contains up to 2000 records.
Get the events for a device for a time period.

Value
A data.frame if parse_json = TRUE, and a character string otherwise.

Author(s)
Dmitriy Bolotov

References
Cumulocity Events API
get_measurements

Examples

get_events(device_id, date_from = "2019-09-30T20:00:00Z")

Description

Get the measurements for a device.

Usage

get_measurements(device_id, date_from, date_to = NULL, num_rows = NULL, parse_json = TRUE)

Arguments

device_id  The device id.
date_from  The starting datetime.
date_to    The ending datetime.
um_rows    The number of records to return.
parse_json If TRUE, parse the JSON object into a data frame.

Details

The datetime fields date_from and date_from are expected to be strings in the format "YYYY-MM-DDTHH:MM:SSZ".
If date_to is null, it is set to the current time.
If num_rows and both dates are specified, the lesser of the two ranges is returned.
If parse_json is TRUE, the JSON object is parsed using jsonlite::fromJSON before being returned. The data is converted to a single flattened data frame. If a page does not contain any measurements, it does not get added to the data frame.
If parse_json is FALSE, the JSON object is returned as a JSON string. For queries with multiple pages, a list of such objects is returned. Each element in this list contains up to 2000 records.
Get the measurements for a device for a time period.

Value

A data.frame if parse_json = TRUE, and a character string otherwise.

Author(s)

Dmitriy Bolotov
References

Cumulocity Measurements API

Examples

get_measurements(device_id, date_from = "2019-09-30T20:00:00Z")
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