Package ‘cumulocityr’

October 12, 2022

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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R topics documented:

get_devices .......................................................... 2
get_events ............................................................ 3
get_measurements .................................................... 4

Index 6
get_devices

**Description**

Get the devices or for a tenant.

**Usage**

```r
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**

```r
get_devices()
```
get_events

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.
num_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 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

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

---

Get the measurements for a device.

Description

Get the measurements for a device.

Usage

```r
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.
- `num_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
get_measurements

References

Cumulocity Measurements API

Examples

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

get_devices, 2
get_events, 3
get_measurements, 4