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

URL https://softwareag.github.io/cumulocityr/,

https://github.com/SoftwareAG/cumulocityr

BugReports https://github.com/SoftwareAG/cumulocityr/issues

Encoding UTF-8

LazyData true

VignetteBuilder knitr

RoxygenNote 6.1.1

NeedsCompilation no

Author Dmitriy Bolotov [aut, cre],
Software AG [cph]

Maintainer Dmitriy Bolotov <dmitriy.bolotov@softwareag.com>

Repository CRAN

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R topics documented:

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get_devices   *Get the devices or for a tenant.*

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.
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](#)

Examples

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

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get_measurements   *Get the measurements for a device.*

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.
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

References

Cumulocity Measurements API

Examples

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

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