

Package ‘cumulocityr’

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Type Package

Title Client for the 'Cumulocity' API

Version 0.1.0

Imports http, 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

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Repository CRAN

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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

<code>num_rows</code>	The number of records to return.
<code>parse_json</code>	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	<i>Get the events for a device.</i>
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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_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](#)

Examples

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

get_measurements	<i>Get the measurements for a device.</i>
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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_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 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

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References

[Cumulocity Measurements API](#)

Examples

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

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