

# Package ‘cumulocityr’

October 20, 2019

**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

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**Repository** CRAN

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## R topics documented:

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

<b>Index</b>	<b>6</b>
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`get_devices`*Get the devices or for a tenant.*

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**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()
```

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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")
```

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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

*get\_measurements*

5

## **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](#)