

# Opis Rest API

## Devices

### CREATE DEVICE

**POST** /device/

**Query parameters:**

device\_name: 0 < String < 200, required  
description: string < 200  
enabled: default = true  
tags: array of strings

Response:

**201** created

id: string = 32 chars  
device\_name: 0 < String < 200, required  
description: string < 200  
enabled: default = true  
tags: array of strings  
owner: string  
url: string (ex. Localhost:8080/device/{id})  
variables\_url: (ex. Localhost:8080/device/{id}/variables)  
number\_of\_variables: integer  
created\_at: date  
last\_activity: date

### LIST DEVICES

**GET** /devices/

**Query parameters:**

ordering: name or created\_at  
page: integer  
page\_size: integer

Response:

**200** OK

count: integer, total number of items available  
next: next page in paginated sequence  
previous: previous page in paginated sequence  
result: array of devices

## READ DEVICE

**GET** /device/{id}/

**Path parameter:**

id: id of existing device, required

Response:

**200** ok

```
id: string = 32 chars
device_name: 0 < String < 200, required
description: string < 200
enabled: default = true
tags: array of strings
owner: string
url: string (ex. Localhost:8080/device/{id})
variables_url: (ex. Localhost:8080/device/{id}/variables)
number_of_variables: integer
created_at: date
last_activity: date
```

## UPDATE DEVICE

**PUT** /device/{id}/

**Path parameters:**

id: id of existing device, required

**Query parameters:**

```
device_name: 0 < String < 200, required
description: string < 200
enabled: default = true
tags: array of strings
```

Response:

**200** OK

```
id: string = 32 chars
device_name: 0 < String < 200, required
description: string < 200
enabled: default = true
tags: array of strings
owner: string
url: string (ex. Localhost:8080/device/{id})
variables_url: (ex. Localhost:8080/device/{id}/variables)
number_of_variables: integer
created_at: date
last_activity: date
```

## DELETE DEVICE

**DEL** /device/{id}/

**Path parameters:**

id: id of existing device required

**204** No content

## CREATE DEVICE VARIABLE

**POST** /device/{id}/variables/

**Path parameters:**

id: id of existing device, required

**Query parameters:**

name: name of variable, 0 < String <= 200, required

unit: string <= 50 char

description: string < 200

tags: array of strings

Response:

**201** CREATED

id: generated id of variable

name: name of variable, 0 < String <= 200, required

unit: string <= 50 char

description: string <= 200

tags: array of strings

datasource: { parent datasource

id:

name:

url:

}

url: e.g. localhost/variables/{id}/

created\_at: date

values\_url: url (eg localhost/variables/{id}/values

last\_value: number, last value

last\_activity: date

## LIST VARIABLES

**GET** /variables/

**Query parameters:**

page: integer, page number

page\_size: integer items per page

Response:

**200** OK

count: integer, total number of items available

next: next page in paginated sequence

previous: previous page in paginated sequence

result: array of variables

## READ VARIABLE

**GET** /varibales/{id}/

**Path parameter:**

id: id of existing variable, required

Response:

**200** ok

```
id: id of variable
name: name of variable, 0 < String <= 200
unit: string <= 50 char
description: string <= 200
tags: array of strings
datasource: { parent datasource
              id:
              name:
              url:
            }
url: e.g. localhost/variables/{id}/
created_at: date
values_url: url (eg localhost/variables/{id}/values
last_value: string number, last value
last_activity: date
```

## UPDATE VARIABLE

**PUT** /variables/{id}/

**Path parameters:**

id: id of existing variable, required

**Query parameters:**

name: name of variable, 0 < String <= 200, required

unit: string <= 50 char

description: string < 200

tags: array of strings

Response:

**200** OK

```
id: id of variable
name: name of variable, 0 < String <= 200, required
unit: string <= 50 char
description: string <= 200
tags: array of strings
datasource: { parent datasource
              id:
              name:
              url:
            }
url: e.g. localhost/variables/{id}/
created_at: date
values_url: url (eg localhost/variables/{id}/values
last_value: number, last value
last_activity: date
```

## DELETE VARIABLE

**DEL** /variable/{id}/

**Path parameters:**

id: id of existing device, required

Response:

**204** No content

## CREATE VARIABLE VALUE

**POST** /variables/{id}/values/

**Path parameters:**

id: id of existing variable, required

**Query parameters:**

value: number, required

timestamp: timestamp (if not given, current)

Response:

**201** Created

url: url (e.g. localhost/variables/{id}/values/{timestamp})

value: number (value)

timestamp: timestamp

created\_at: date

## LIST VARIABLES VALUES

**GET** /variables/{id}/values/

**Path parameters:**

id: id of existing variable, required

**Query parameters:**

page: integer, page number

page\_size: integer, items per page

start: start timestamp

end: end timestamp

Response:

**200** Created

count: total number of items available

next: next page in paginated sequence

previous: previous page in paginated sequence

result:Array

{

url: e.g. localhost/variables/{id}/values/{timestamp}

value: value, number

timestamp:

created\_at:

}

## DELETE VARIABLES VALUES

**DEL** /variables/{id}/values/{start}/{end}/

**Path parameters:**

id: id of existing variable, required

start: start timestamp, required

end: end timestamp, required

Response:

**204** No content

