

# Opis Rest API

## Devices

### CREATE DEVICE

**POST** /api/device/

**Request header:**

Authorization token

**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** /api/devices/

**Request header:**

Authorization token

**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** /api/device/{id}/

**Request header:**

Authorization token

**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** /api/device/{id}/

**Request header:**

Authorization token

**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** /api/device/{id}/

**Request header:**

Authorization token

**Path parameters:**

id: id of existing device required

**204** No content

## CREATE DEVICE VARIABLE

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

**Request header:**

Authorization token

**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** /api/variables/

**Request header:**

Authorization token

**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** /api/varibales/{id}/

**Request header:**

Authorization token

**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** /api/variables/{id}/

**Request header:**

Authorization token

**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

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

**Request header:**

Authorization token

**Path parameters:**

id: id of existing device, required

Response:

**204** No content

## CREATE VARIABLE VALUE

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

**Request header:**

Authorization token

**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** /api/variables/{id}/values/

**Request header:**

Authorization token

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

**Request header:**

Authorization token

**Path parameters:**

id: id of existing variable, required

start: start timestamp, required

end: end timestamp, required

Response:

**204** No content

## REGISTER USER

**DEL** /api/users/register

**Path parameters:**

username: user name string, unique, required

userpassword: start timestamp, required

email: user email, required

Response:

**204** No content

## LOGIN USER

**POST** /api/users/login

**Path parameters:**

username: user name string, unique, required

userpassword: start timestamp, required

Response:

**201** OK

token: generated token

## CURRENT USER

**GET** /api/users/current

**Request header:**

Authorization token

Response:

**200** OK

id: generated token

lastLogin: last login date

email: user's email

username: user name

## NEW TOKEN

**GET** /api/users/token

**Request header:**

Authorization token

Response:

**201** OK

token: generated token