




Distributed Network Traffic Generator - 5G Networks project - server side documentation







[[REST API](#)] [[WebSocket](#)]

REST API

Header in every request (except [/auth](#) & [/auth/login](#)) must contain:

```
headers: {  
  "Authorization": `Bearer ${token}`,  
},
```

Endpoint	Description	Request body
/auth	<p>Used for creating account.</p> <p>Password should be 8 characters and contain at least: 1 uppercase letter, 1 special sign, 1 number.</p> <div> HTTP METHOD: [POST]</div> <div> 400 - Bad request - user already exists or password is too weak.</div> <div> 201 - Created</div>	<p>Request body:</p> <pre>{ "login": "string", "password": "S@molocik12345" }</pre> <p>Response body:</p> <pre>{ "id": "long" "login": "string", "role": "string", "token": "string" }</pre>

<p><i>/auth/login</i></p>	<p>Used for logging in to account.</p> <div data-bbox="391 186 769 245">  HTTP METHOD: [POST] </div> <div data-bbox="391 268 769 348">  400 - Bad request - login not found or validation error </div> <div data-bbox="391 371 769 430">  200 - Created </div>	<p>Request body:</p> <div data-bbox="833 186 1443 430"> <pre>{ "login": "string", "password": "string", }</pre> </div> <p>Response body:</p> <div data-bbox="833 497 1443 812"> <pre>{ "id": "long" "login": "string", "role": "string", "token": "string" }</pre> </div>
<p><i>/auth/device/login</i></p>	<p>Used for logging in with device.</p> <p>Sending login, password and name creates new device.</p> <p>Sending login, password and uuid logs device to the system.</p> <div data-bbox="391 1045 769 1104">  HTTP METHOD: [POST] </div> <div data-bbox="391 1127 769 1234">  400 - Bad request - username not found, validation error or not linked device </div> <div data-bbox="391 1257 769 1316">  200 - Ok </div>	<p>Request body:</p> <div data-bbox="833 905 1443 1220"> <pre>{ "login": "string", "password": "string", "uuid": "string", "name": "string" }</pre> </div> <p>Response body:</p> <div data-bbox="833 1287 1443 1530"> <pre>{ "token": "string", "uuid": "string" }</pre> </div>

`/device`

Returns list of devices fulfilling specified search criteria.

You can search by:

- uuid,
- device type:
 - "IOS", "LINUX", "ANDROID"
 - you can search by more than one device type at once,
- device status:
 - "ACTIVE", "WORKING", "INACTIVE",
 - you can search by more than one device status at once,
- device name,


or sort by:

- uuid descending - "UUID_DESC",
- uuid ascending - "UUID_ASC",
- name descending - "NAME_DESC",
- name ascending - "NAME_ASC"

Example request:

```
/device?
deviceTypes=IOS&deviceTypes=LINUX&deviceStatuses=WORKING
```

 HTTP METHOD: [GET]





 200 - Ok

Params:

"uuid", "deviceTypes", "deviceStatuses", "name", "sortBy"

Response body:


```
[
  {
    "uuid": "string",
    "deviceType": "string",
    "deviceModel": "string",
    "lastConnection": "string",
    "status": "string"
  },
  ...
]
```


<p><i>/device/active</i></p>	<p>Notifies server that device is active.</p> <p>This request must be sent once every 10 minutes. Otherwise, the device will be considered inactive.</p> <div>  HTTP METHOD: [POST] </div> <div>  400 - Bad request </div> <div>  200 - Ok </div>	<p>Request header:</p> <pre> headers: { "Content-Type": "json /application", "Authorization": `Bearer \${token}`, "device-uuid": uuid, }, </pre> <p>Response body:</p> <pre> { "uuid": "string", "deviceType": "string", "deviceModel": "string", "lastConnection": "string", "status": "string" }, </pre>
<p><i>/device/disconnect</i></p>	<p>Notifies server that device is inactive</p> <div>  HTTP METHOD: [POST] </div> <div>  400 - Bad request </div> <div>  200 - Ok </div>	<p>Request header:</p> <pre> headers: { "Content-Type": "json /application", "Authorization": `Bearer \${token}`, "device-uuid": uuid, }, </pre> <p>Response body:</p> <pre> { "uuid": "string", "deviceType": "string", "deviceModel": "string", "lastConnection": "string", "status": "string" }, </pre>

/device/tasks

Returns list of tasks for device specified by uuid.

 HTTP METHOD: [GET]

 400 - Bad request - invalid device type







 200 - Ok







Request header:

```
headers: {  
  "Content-Type": "json  
/application",  
  "Authorization": `Bearer  
${token}`,  
  "device-uuid": uuid,  
},
```

Response body:

```
[  
  {  
    "id": "long",  
    "taskType": "string",  
    "status": "string",  
    "fileUrl": "string",  
    "orderStart": "string",  
    "orderEnd": "string",  
    "device": {  
      "uuid": "string",  
      "deviceType": "string",  
      "deviceModel": "string",  
    }  
  },  
  ...  
]
```

<div>device/tasks/{taskId} /upload</div>	<p>Uploads file.</p> <div>  HTTP METHOD: [POST] </div> <div>  400 - Bad request </div> <div>  200 - Ok </div>	<p>Request header:</p> <pre>headers: { "Content-Type": "multipart /form-data", "Authorization": `Bearer \${token}`, "device-uuid": uuid, },</pre> <p>Path variable:</p> <p>“taskId” must be passed as path variable.</p> <p>Request body:</p> <pre>{ "file": file, }</pre>
<div>/tasks</div>	<p>Used for creating tasks.</p> <p>Task types:</p> <ul style="list-style-type: none"> • “STREAMING”, • “SFTP”, • “HTTP” <div>  HTTP METHOD: [POST] </div> <div>  400 - Bad request </div> <div>  200 - Ok </div>	<p>Request body:</p> <pre>{ "uuid": "string", "type": "string", }</pre> <p>Response body:</p> <pre>{ "id": "long", "taskType": "string", "status": "string", "fileUrl": "string", "orderStart": "string", "orderEnd": "string", "deviceGetDto": { "uuid": "string", "deviceType": "string", "deviceModel": "string", } }</pre>

<p>/tasks</p>	<p>Returns list of devices fullfiling speified search criteria.</p> <p>You can search by:</p> <ul style="list-style-type: none"> Task types: <ul style="list-style-type: none"> "STREAMING", "SFTP", "HTTP", you can search by more than one task type at once, device uuid,, device type: <ul style="list-style-type: none"> "IOS", "LINUX", "ANDROID", you can search by more than one device status at once, task status: <ul style="list-style-type: none"> "NEW", "IN_PROGRESS", "FINISHED", you can search by more than one task status at once, device name, <p>Example request:</p> <pre> /tasks? deviceTypes=I OS&deviceType s=LINUX&taskS tatuses=FINIS HED </pre> <div>  HTTP METHOD: [GET] </div> <div>  400 - Bad request </div> <div>  200 - Ok </div>	<p>Params:</p> <p>"taskTypes", "deviceUuid", "deviceName", "taskStatuses", "deviceTypes"</p> <p>Response body:</p> <pre> [{ "id": "long", "taskType": "string", "status": "string", "fileUrl": "string", "orderStart": "string", "orderEnd": "string", "device": { "uuid": "string", "deviceType": "string", "deviceModel": "string", } }, ...] </pre>
<p>/tasks/{taskId} /download</p>	<p>Downloads file.</p> <div>  HTTP METHOD: [GET] </div> <div>  400 - Bad request </div> <div>  200 - Ok </div>	<p>Path variable:</p> <p>"taskId" must be passed as path variable.</p> <p>Response body:</p> <p>You receive file.</p>

WebSocket

Connection

User WS connection address:

ws://localhost:8010/userws

User WS connection task address:

ws://localhost:8010/devicews

Device WS connection address:

ws://localhost:8010/devicews

To connect you also need pass authorization token in the header:

```
headers: {
  "Authorization": `Bearer ${token}`,
},
```

Subscription:

You can subscribe to the following topics (For devices):

- /topic/device_\${uuid}
 - uuid - device uuid
 - from this topic you receive information about task you need to execute:

```
• {
  "taskId": "long",
  "taskType": "string",
}
```

- /topic/user_\${user_id}
 - user_id - userId
 - from this topic you receive:

```
• {
  "taskId": "long",
  "taskType": "string",
  "status": FINISHED
}
```

- /topic/global
 - from this topic you receive device status message:

```
• {
  "uuid": "string",
  "deviceModel": "string",
  "deviceType": "string",
  "status": "string"
}
```

Example of connection and subscription

with JavaScript library [@stomp/stompjs](#)


```
var client = Stomp.client("ws://localhost:8010/userws");
client.connect(
    {
        Authorization:
            `Bearer ${token}`,
    },
    function () {
        client.subscribe(
            `/topic/user_${id}`,
            function (message) {
                console.log(message.body);
            },
        );
    }
);
```