

GCS (Ground control Station MultiUAV) (2.3.1)

Download OpenAPI specification: [Download](#)

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Descripcion de API de Alto nivel para comunicacion de Ros con UAV. some usefull link:

- [Repositorio](#)

[Find more about the project](#)

Devices

Management of UAV-devices

Fetch a list of Devices

Return the list of devices

HEADER PARAMETERS

→ token

string
Token de autenticacion

Responses

✓ **200** (ok) list of devices

RESPONSE SCHEMA: application/json

Array [

→ id integer

→ name string

→ status string

→ lastUpdate string <date-time>

in ISO 8601 format. eg. 1963-11-22T18:30:00Z

→ category string

]

— **400** No permission

GET /devices



Response samples

200

Content type

application/json

Copy Expand all Collapse all

```
[
  - {
    "id": 0,
    "name": "string",
    "status": "string",
    "lastUpdate": "2019-08-24T14:15:22Z",
    "category": "string"
  }
]
```

Create a Device

HEADER PARAMETERS

→ token

string

Token de autenticacion

REQUEST BODY SCHEMA: application/json

uav_id	string
uav_type	string

Responses

✓ 200 OK

RESPONSE SCHEMA: application/json

uav_id	string
uav_type	string

POST /devices



Request samples

Payload

Content type

application/json

Copy

```
{
  "uav_id": "string",
  "uav_type": "string"
}
```

Response samples**200****Content type**

application/json

Copy

```
{
  "uav_id": "string",
  "uav_type": "string"
}
```

Delete a Device

PATH PARAMETERS

→ id
required

integer

Responses

— 204 No Content

DELETE /devices/{id}



Positions

Obtains raw data from the UAV

Fetches a list of Positions

We strongly recommend using Websocket instead of periodically polling positions endpoint. Without any params, it returns a list of last known positions for all the user's Devices. *from* and *to* fields are not required with *id*.

Responses

✓ 200 OK

RESPONSE SCHEMA: application/json

Array [

└─ deviceId	integer
└─ deviceTime	string <date-time> in ISO 8601 format. eg. <code>1963-11-22T18:30:00Z</code>
└─ latitude	number
└─ longitude	number
└─ altitude	number
└─ speed	number in knots
└─ course	number
└─ attributes ▾	object

└─ protocol	string
└─ mission_state	string

wp_reached	integer
uav_state	string
landed_state	string
alarm	string

]

GET /positions



Response samples

200

Content type

application/json

Copy Expand all Collapse all


```
[
  - {
    "deviceId": 0,
    "deviceTime": "2019-08-24T14:15:22Z",
    "latitude": 0,
    "longitude": 0,
    "altitude": 0,
    "speed": 0,
    "course": 0,
    - "attributes": {
      "protocol": "string",
      "mission_state": "string",
      "wp_reached": 0,
      "uav_state": "string",
      "landed_state": "string",
      "alarm": "string"
    }
  }
]
```

Missions

Management the mission

Load mission to devices

without any parameter,load the mission all UAV's

PATH PARAMETERS

→ id integer

Responses

— 204 No Content

PUT /loadmission/{id}



Command to exec mission

without any parameter,load the mission all UAV's

PATH PARAMETERS

[← id](#)integer

Responses

— 204 No Content

PUT /commandmission/{id}



Commands

Send command the UAV

Send command to devices

Send command to devices

REQUEST BODY SCHEMA: application/json

deviceId	integer
attributes	object

Responses

✓ **200** Command sent

RESPONSE SCHEMA: application/json

deviceId	integer
attributes	object

— **400** Command no match

POST /comands/send



Request samples

Payload

Content type

application/json

Copy Expand all Collapse all

```
{
  "deviceId": 0,
  "attributes": { }
}
```

Response samples

200

Content type

application/json

Copy Expand all Collapse all

```
{
  "deviceId": 0,
  "attributes": { }
}
```