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# OpenAPI definition v0 OAS3

[/api-docs](#)

## Servers

<http://localhost:8080> - Generated server url

## controller

**GET**[/api/users](#) Get all users.

### Parameters

[Try it out](#)

No parameters

### Responses

**Code****Description****Links**

200

Got all users.

No links

Media type

Controls Accept header.

**Example Value** Schema

```
[
  {
    "id": 0,
    "name": "string",
```

Code	Description	Links
	<pre>"email": "string", "birthdate": "2022-01-25T11:02:03.888Z", "registerDate": "2022-01-25T11:02:03.888Z" } ]</pre>	

**POST** /api/users Add a user.



### Parameters

Try it out

No parameters

**Request body** required

application/json

**Example Value** Schema

```
{
  "id": 0,
  "name": "string",
  "email": "string",
  "birthdate": "2022-01-25T11:02:03.900Z",
  "registerDate": "2022-01-25T11:02:03.900Z"
}
```

### Responses

Code	Description	Links
200	User added.	No links

Media type

\*/\*

Controls Accept header.

**Example Value** Schema

```
{
  "id": 0,
  "name": "string",
  "email": "string",
  "birthdate": "2022-01-25T11:02:03.900Z",
}
```

Code	Description	Links
	<pre>"registerDate": "2022-01-25T11:02:03.900Z" }</pre>	

**GET** /api/software **Get all software.**



#### Parameters

Try it out

No parameters

#### Responses

Code	Description	Links
200	<p>Got all software.</p> <p>Media type</p> <div><code>/*</code></div> <p>Controls Accept header.</p> <p><b>Example Value</b> Schema</p> <pre>[   {     "id": 0,     "name": "string",     "type": "string"   } ]</pre>	No links

**POST** /api/software **Add a software.**



#### Parameters

Try it out

No parameters

**Request body** **required**

application/json

**Example Value** Schema

```
{
  "id": 0,
  "name": "string",
  "type": "string"
}
```

**Responses**

Code	Description	Links
200	Software added.	No links

Media type

Controls Accept header.

**Example Value** Schema

```
{
  "id": 0,
  "name": "string",
  "type": "string"
}
```

**GET** /api/machines Get all machines.**Parameters**[Try it out](#)

No parameters

**Responses**

Code	Description	Links
200	Got all machines.	No links

Code	Description	Links
------	-------------	-------

Media type

`*/*`

Controls Accept header.

Example Value Schema

```
[
  {
    "id": 0,
    "cpu": "string",
    "gpu": "string",
    "ram": "string",
    "disk": "string",
    "os": "string",
    "name": "string",
    "location": {
      "id": 0,
      "temperature": 0,
      "humidity": 0
    },
    "getXCoord": 0,
    "getYCoord": 0,
    "currentUser": {
      "id": 0,
      "name": "string",
      "email": "string",
      "birthdate": "2022-01-25T11:02:03.906Z",
      "registerDate": "2022-01-25T11:02:03.906Z"
    },
    "softwares": [
      {
        "id": 0,
        "name": "string",

```

**POST** /api/machines Add a machine.



Parameters

Try it out

No parameters

Request body **required**

application/json

Example Value Schema

```
{
  "id": 0,
  "cpu": "string",
  "gpu": "string",
  "ram": "string",
  "disk": "string",
  "os": "string",

```

```
"name": "string",
"location": {
  "id": 0,
  "temperature": 0,
  "humidity": 0
},
"getxCoord": 0,
"getyCoord": 0,
"currentUser": {
  "id": 0,
  "name": "string",
  "email": "string",
  "birthdate": "2022-01-25T11:02:03.911Z",
  "registerDate": "2022-01-25T11:02:03.911Z"
},
"softwares": [
  {
    "id": 0,
    "name": "string",
    "type": "string"
  }
]
```

## Responses

Code	Description	Links
200	Machine added.	No links

Media type

\*/\*

Controls Accept header.

Example Value Schema

```
{
  "id": 0,
  "cpu": "string",
  "gpu": "string",
  "ram": "string",
  "disk": "string",
  "os": "string",
  "name": "string",
  "location": {
    "id": 0,
    "temperature": 0,
    "humidity": 0
  },
  "getxCoord": 0,
  "getyCoord": 0,
  "currentUser": {
    "id": 0,
    "name": "string",
    "email": "string",
    "birthdate": "2022-01-25T11:02:03.913Z",
    "registerDate": "2022-01-25T11:02:03.913Z"
  }
}
```

Code	Description	Links
	<pre>}, "softwares": [   {     "id": 0,     "name": "string",     "type": "string"   } ]</pre>	

**GET** /api/locations Get all locations.



### Parameters

Try it out

No parameters

### Responses

Code	Description	Links
200	Got all locations.  Media type <input type="text" value="*/"/> Controls Accept header.  Example Value Schema <pre>[   {     "id": 0,     "temperature": 0,     "humidity": 0   } ]</pre>	No links

**POST** /api/locations Add a location.



### Parameters

Try it out

No parameters

Request body **required**

application/json

Example Value Schema

```
{
  "id": 0,
  "temperature": 0,
  "humidity": 0
}
```

## Responses

Code	Description	Links
200	Location added.	No links

Media type

Controls Accept header.

Example Value Schema

```
{
  "id": 0,
  "temperature": 0,
  "humidity": 0
}
```

**GET** /api/alarms Get alarms matching the filters.

Parameters

Try it out

Name	Description
machine	Machine ID filter

integer(\$int64)  
(query)



Name	Description
------	-------------

ts-start	
----------	--

<code>integer(\$int64)</code> <i>(query)</i>	Start timestamp filter
---	------------------------

ts-end	
--------	--

<code>integer(\$int64)</code> <i>(query)</i>	End timestamp filter
---	----------------------

seen	
------	--

<code>boolean</code> <i>(query)</i>	
--	--

Seen filter	
-------------	--

page	
------	--

<code>integer(\$int32)</code> <i>(query)</i>	Pagination: page number
---	-------------------------

*Default value : 0*

size	
------	--

<code>integer(\$int32)</code> <i>(query)</i>	Pagination: page size
---	-----------------------

*Default value : 10*

## Responses

Code	Description	Links
------	-------------	-------

200		
-----	--	--

Alarms found.	
---------------	--

*No links*

Media type

Controls Accept header.

## Code

## Description

## Links

## Example Value Schema

```
{
  "totalElements": 0,
  "totalPages": 0,
  "sort": {
    "sorted": true,
    "unsorted": true,
    "empty": true
  },
  "first": true,
  "last": true,
  "numberOfElements": 0,
  "pageable": {
    "sort": {
      "sorted": true,
      "unsorted": true,
      "empty": true
    },
    "pageNumber": 0,
    "pageSize": 0,
    "paged": true,
    "unpaged": true,
    "offset": 0
  },
  "size": 0,
  "content": [
    {
      "id": "string",
```

## POST

/api/alarms Update the seen status of an alarm.



## Parameters

Try it out

No parameters

Request body **required**

application/json

## Example Value Schema

```
{
  "id": "string",
  "seen": true
}
```

## Responses

Code	Description	Links
200	<p>Alarm status updated.</p> <p>Media type</p> <div><input type="text" value="*/"/></div> <p>Controls Accept header.</p> <p><b>Example Value</b> Schema</p> <pre>{   "id": "string",   "machineId": 0,   "userId": 0,   "message": "string",   "seen": true,   "type": "string",   "timestamp": 0 }</pre>	No links
404	<p>No alarm with specified ID found.</p> <p>Media type</p> <div><input type="text" value="*/"/></div> <p><b>Example Value</b> Schema</p> <pre>{   "id": "string",   "machineId": 0,   "userId": 0,   "message": "string",   "seen": true,   "type": "string",   "timestamp": 0 }</pre>	No links

<b>GET</b>	/api/users/{id} Get a user by ID.	⌵
<b>Parameters</b>		<div>Try it out</div>
<b>Name</b>	<b>Description</b>	

Name	Description
------	-------------

**id** \* required

integer(\$int64) ID of the user to be searched.

(path)

## Responses

Code	Description	Links
------	-------------	-------

200

User found.

No links

Media type

Controls Accept header.

Example Value Schema

```
{
  "id": 0,
  "name": "string",
  "email": "string",
  "birthdate": "2022-01-25T11:02:03.940Z",
  "registerDate": "2022-01-25T11:02:03.940Z"
}
```

404

User not found.

No links

Media type

Example Value Schema

```
{
  "id": 0,
  "name": "string",
  "email": "string",
  "birthdate": "2022-01-25T11:02:03.941Z",
  "registerDate": "2022-01-25T11:02:03.941Z"
}
```

GET

/api/usages Get machine usages matching the filters.



## Parameters

Try it out

Name

Description

machine

integer(\$int64) Machine ID filter  
(query)

machine

ts-start

integer(\$int64) Start timestamp filter  
(query)

ts-start

ts-end

integer(\$int64) End timestamp filter  
(query)

ts-end

round

integer(\$int32) Timestamp round-merge parameter  
(query)

round

## Responses

Code

Description

Links

200

Machine usages found.

No links

Media type

\*/\*

Controls Accept header.

Example Value Schema

[

Code	Description	Links
	<pre>{   "id": "string",   "machineId": 0,   "userId": 0,   "timestamp": 0,   "cpuUsage": 0,   "gpuUsage": 0,   "networkUpUsage": 0,   "networkDownUsage": 0,   "powerUsage": 0,   "diskUsage": 0,   "ramUsage": 0,   "uptime": 0,   "softwareUsage": [     0   ],   "cpuTemp": 0,   "gpuTemp": 0 }</pre>	

**GET** /api/software/{id} Get a software by ID.



#### Parameters

Try it out

Name	Description
------	-------------

**id** \* required  
integer(\$int64) ID of the software to be searched.  
(path)

#### Responses

Code	Description	Links
200	Software found.	No links
Media type		
*/*		
Controls Accept header.		

Code	Description	Links
	<div>Example Value Schema</div> <pre>{  "id": 0,  "name": "string",  "type": "string"}</pre>	
404	<p>Software not found.</p> <p>Media type</p> <div>*/*</div> <div>Example Value Schema</div> <pre>{  "id": 0,  "name": "string",  "type": "string"}</pre>	No links

GET

/api/sessions

Get sessions matching the filters.

^

Parameters

Try it out

Name	Description
machine	
<code>integer(\$int64)</code>	Machine ID filter
<code>(query)</code>	
	<div>machine</div>
user	
<code>integer(\$int64)</code>	User ID filter
<code>(query)</code>	
	<div>user</div>

Responses

Code	Description	Links
200	Sessions found.  Media type <div><code>*/*</code></div> Controls Accept header.  Example Value   Schema <pre>[   {     "id": "string",     "machineId": 0,     "userId": 0,     "timestampStart": 0,     "timestampEnd": 0,     "updateCount": 0,     "avgCpuUsage": 0,     "avgGpuUsage": 0,     "avgNetDownUsage": 0,     "avgNetUpUsage": 0,     "avgPowerUsage": 0,     "avgDiskUsage": 0,     "avgRamUsage": 0,     "softwareUsed": [       0     ]   } ]</pre>	No links

**GET**   `/api/machines/{id}`   Get a machine by ID.



## Parameters

Try it out

Name	Description
------	-------------

<b>id</b> * required <code>integer(\$int64)</code> <i>(path)</i>	ID of the machine to be searched.
--	-----------------------------------

id

## Responses



Code	Description	Links
200	<p>Machine found.</p> <p>Media type</p> <div><code>*/*</code></div> <p>Controls Accept header.</p> <p><b>Example Value</b> Schema</p> <pre>{   "id": 0,   "cpu": "string",   "gpu": "string",   "ram": "string",   "disk": "string",   "os": "string",   "name": "string",   "location": {     "id": 0,     "temperature": 0,     "humidity": 0   },   "getxCoord": 0,   "getyCoord": 0,   "currentUser": {     "id": 0,     "name": "string",     "email": "string",     "birthdate": "2022-01-25T11:02:03.954Z",     "registerDate": "2022-01-25T11:02:03.954Z"   },   "softwares": [     {       "id": 0,       "name": "string",       "type": "string"     }   ] }</pre>	No links
404	<p>Machine not found.</p> <p>Media type</p> <div><code>*/*</code></div> <p><b>Example Value</b> Schema</p> <pre>{   "id": 0,   "cpu": "string",   "gpu": "string",   "ram": "string",   "disk": "string",   "os": "string",   "name": "string",   "location": {     "id": 0,</pre>	No links

## Code

## Description

## Links

```
"temperature": 0,
"humidity": 0
},
"getxCoord": 0,
"getyCoord": 0,
"currentUser": {
  "id": 0,
  "name": "string",
  "email": "string",
  "birthdate": "2022-01-25T11:02:03.957Z",
  "registerDate": "2022-01-25T11:02:03.957Z"
},
"softwares": [
  {
    "id": 0,
    "name": "string",
```

## GET

</api/locations/{id}> Get a location by ID.

## Parameters

[Try it out](#)

## Name

## Description

**id** \* required

`integer($int64)` ID of the location to be searched.  
(path)

## Responses

## Code

## Description

## Links

200

Location found.

No links

Media type

Controls Accept header.

Example Value Schema

```
{
  "id": 0,
```

Code	Description	Links
404	<pre>"temperature": 0, "humidity": 0 }</pre> <p>Location not found.</p> <p>Media type</p> <div><input type="text" value="*/"/></div> <p><b>Example Value</b> <a href="#">Schema</a></p> <pre>{   "id": 0,   "temperature": 0,   "humidity": 0 }</pre>	No links

GET

/api/locations/{id}/machines

Get the machines of a location through its ID.

⌵

Parameters

Try it out

Name	Description
<b>id</b> * required	
integer(\$int64)	ID of the location whose machines are to be found.
(path)	
<div>id</div>	

Responses

Code	Description	Links
200	Got all machines of the specified location.	No links
<div>Media type</div> <div>*/*</div> <div>Controls Accept header.</div>		

## Code

## Description

## Links

## Example Value Schema

```
[
  {
    "id": 0,
    "cpu": "string",
    "gpu": "string",
    "ram": "string",
    "disk": "string",
    "os": "string",
    "name": "string",
    "location": {
      "id": 0,
      "temperature": 0,
      "humidity": 0
    },
    "getXCoord": 0,
    "getYCoord": 0,
    "currentUser": {
      "id": 0,
      "name": "string",
      "email": "string",
      "birthdate": "2022-01-25T11:02:03.964Z",

```

## Schemas

```
User {
  id integer($int64)
    Identifier

  name string
    Real name

  email string
    Email address

  birthdate string($date-time)
    Birthdate

  registerDate string($date-time)
    Registration date
}
```

```
"ram": "string",
"disk": "string",
"os": "string",
"name": "string",
"location": {
  "id": 0,
  "temperature": 0,
  "humidity": 0
},
"getXCoord": 0,
"getYCoord": 0,
"currentUser": {
  "id": 0,
  "name": "string",
  "email": "string",

```

**Software** {

```
  id                integer($int64)
                   Identifier

  name              string
                   Name

  type              string
                   Type
}
```

**Location** {

```
  description:      Location (cafe)

  id                integer($int64)
                   Identifier

  temperature        number($double)
                   Current location temperature (°C)

  humidity           number($double)
                   Current location humidity (0 to 1)
}
```

```
Machine {
  id integer($int64)
  Identifier

  cpu string
  CPU name

  gpu string
  GPU name

  ram string
  RAM name

  disk string
  Disk name

  os string
  Operating system name

  name string
  Machine name

  location Location {...}
  getxCoord number($double)
  Horizontal map coordinate

  getyCoord number($double)
  Vertical map coordinate

  currentUser User {...}
  softwares [...]
  timestamp integer($int64)
  Usage: timestamp

  cpuUsage number($double)
  Usage: CPU usage

  gpuUsage number($double)
  Usage: GPU usage

  diskUsage number($double)
  Usage: Disk usage

  ramUsage number($double)
  Usage: RAM usage

  networkDownUsage number($double)
  Usage: network download usage

  networkUpUsage number($double)
  Usage: network upload usage

  powerUsage number($double)
  Usage: power usage
```

```
    uptime                integer($int32)
                           Usage: uptime (seconds)

    status                 integer($int32)
                           Machine status (0 - off, 1 - on, 2 - unavailable)
  }
```

```
AlarmSeen {
  id          string
              Alarm ID

  seen        boolean
              Desired seen status
}
```

```
Alarm {
  id          string
              Identifier

  machineId   integer($int64)
              Machine ID

  userId      integer($int64)
              User ID

  message     string
              Message content

  seen        boolean
              Seen status

  type        string
              Alert type (INFO / WARNING / EMERGENCY)

  timestamp   integer($int64)
              Timestamp
}
```

```
MachineUsage {
  id string
  Identifier

  machineId integer($int64)
  Machine ID

  userId integer($int64)
  User ID

  timestamp integer($int64)
  Timestamp

  cpuUsage number($double)
  CPU usage

  gpuUsage number($double)
  GPU usage

  networkUpUsage number($double)
  Network upload usage

  networkDownUsage number($double)
  Network download usage

  powerUsage number($double)
  Power usage

  diskUsage number($double)
  Disk usage

  ramUsage number($double)
  RAM usage

  uptime integer($int32)
  Uptime

  softwareUsage [...]
  cpuTemp number($double)
  CPU temperature

  gpuTemp number($double)
  GPU temperature
}
```



```
Session {
  id string
  Identifier

  machineId integer($int64)
  Machine ID

  userId integer($int64)
  User ID

  timestampStart integer($int64)
  Session beginning timestamp

  timestampEnd integer($int64)
  Session end timestamp

  updateCount integer($int32)
  Number of times updated with usages

  avgCpuUsage number($double)
  Average CPU usage

  avgGpuUsage number($double)
  Average GPU usage

  avgNetDownUsage number($double)
  Average network download usage

  avgNetUpUsage number($double)
  Average network upload usage

  avgPowerUsage number($double)
  Average power usage

  avgDiskUsage number($double)
  Average disk usage

  avgRamUsage number($double)
  Average RAM usage

  softwareUsed [...]
}
```

```
PageAlarm {
  totalElements      integer($int64)
  totalPages         integer($int32)
  sort               Sort      {...}
  first              boolean
  last               boolean
  numberOfElements   integer($int32)
  pageable            PageableObject {...}
  size               integer($int32)
  content             [...]
  number              integer($int32)
  empty              boolean
}
```

```
PageableObject {
  sort               Sort      {...}
  pageNumber          integer($int32)
  pageSize             integer($int32)
  paged               boolean
  unpaged             boolean
  offset              integer($int64)
}
```

```
Sort {
  sorted              boolean
  unsorted            boolean
  empty               boolean
}
```