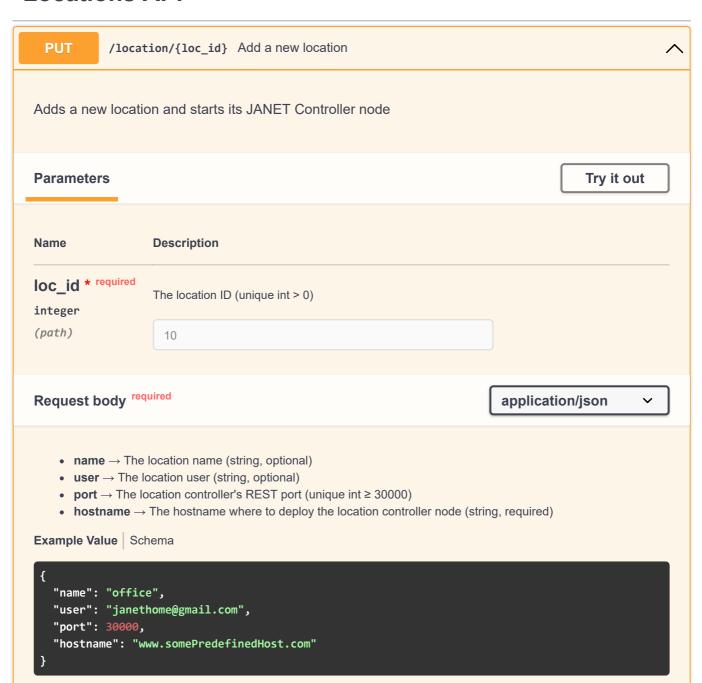# JANET Simulator REST API 1.0.0 OAS3

REST API for interfacing with the JANET Simulator in the JANET Home Simulation System

Servers

http://studente3:45678 - Unipi Container ⌄

Locations API ⌃

| PUT | /location/{loc_id} Add a new location | ⌃ |

Adds a new location and starts its JANET Controller node

Parameters

Try it out

Name	Description
loc_id * required integer (path)	The location ID (unique int > 0) `10`

Request body required

application/json ⌄

- **name** → The location name (string, optional)
- **user** → The location user (string, optional)
- **port** → The location controller's REST port (unique int ≥ 30000)
- **hostname** → The hostname where to deploy the location controller node (string, required)

Example Value | Schema

```
{
  "name": "office",
  "user": "janethome@gmail.com",
  "port": 30000,
  "hostname": "www.somePredefinedHost.com"
}
```

Responses

Code	Description	Links
201	CREATED (location successfully added)	*No links*

400   BAD REQUEST   *No links*

- Parameter **loc_id** is not an integer
- Parameter **loc_id** is < 1
- Parameter **port** is missing
- Parameter **port** is not an integer
- Parameter **port** is < 30000

Media type

```
text/plain                    ⌄
```

Example Value | Schema

```
<ERROR> Required parameter "port" is missing
```

405   METHOD NOT ALLOWED (unsupported HTTP method)   *No links*

Media type

```
text/plain                    ⌄
```

Example Value | Schema

```
<ERROR> Method "GET" is not allowed in the specified path
```

406   NOT ACCEPTABLE (The **hostname** does not belong to the list of allowed hosts)   *No links*

Media type

```
text/plain                    ⌄
```

Example Value | Schema

```
<ERROR> The specified "hostname" (pippo.com) does not belong to the
 list of allowed hosts where JANET nodes can be deployed in
```

Code	Description	Links
409	CONFLICT (location **loc_id** already exists)	*No links*

Media type

```
text/plain                                    ⌄
```

Example Value | Schema

```
<ERROR> A location with such "loc_id" (35) already exists
```

412	PRECONDITION FAILED (The specified **port** is not available)	*No links*

- The **port** is assigned to another location controller
- The **port** is currently not available in the host OS

Media type

```
text/plain                                    ⌄
```

Example Value | Schema

```
<ERROR> The specified "port" (30000) is already assigned to another
 location controller
```

415	UNSUPPORTED MEDIA TYPE (request body could not be interpreted as JSON)	*No links*

Media type

```
text/plain                                    ⌄
```

Example Value | Schema

```
<ERROR> Request body could not be interpreted in JSON format
```

500	INTERNAL SERVER ERROR	*No links*

- The location was added, but an internal error occured in starting its controller node
- Unknown JSONE parameter mapping
- Unhandled server error

Media type

```
text/plain                                    ⌄
```

Example Value | Schema

```
<SERVER ERROR> The location was added, but an internal error occured
in starting its controller node: {errorReason}
```

POST /location/{loc_id} Update a location's name

Updates the name of an existing location in the JANET Simulator node

Parameters

Try it out

Name	Description
loc_id * required integer (path)	The location ID (unique int > 0) 10

Request body required

application/json

- **name** → The updated location name (string)

Example Value | Schema

```
{
  "name": "office"
}
```

Responses

Code	Description	Links
204	NO CONTENT (location name successfully updated)	*No links*

Code	Description	Links
400	**BAD REQUEST** - Parameter **loc_id** is not an integer - Parameter **loc_id** is < 1 - Parameter **name** is missing	*No links*

Media type

```
text/plain                    ⌄
```

Example Value | Schema

```
<ERROR> Required parameter "name" is missing
```

Code	Description	Links
404	NOT FOUND (location **loc_id** was not found in the JANET Simulator)	*No links*

Media type

```
text/plain                    ⌄
```

Example Value | Schema

```
<ERROR> A location with such "loc_id" (9521) does not exist
```

Code	Description	Links
405	METHOD NOT ALLOWED (unsupported HTTP method)	*No links*

Media type

```
text/plain                    ⌄
```

Example Value | Schema

```
<ERROR> Method "GET" is not allowed in the specified path
```

Code	Description	Links
415	UNSUPPORTED MEDIA TYPE (request body could not be interpreted as JSON)	*No links*

Media type

```
text/plain                    ⌄
```

Example Value | Schema

```
<ERROR> Request body could not be interpreted in JSON format
```

Code	Description	Links
500	INTERNAL SERVER ERROR • Unknown JSONE parameter mapping • Unhandled server error	No links

Media type

```
text/plain          ▾
```

Example Value | Schema

```
<UNKNOWN SERVER ERROR> Unknown error: {errorReason}
```

DELETE `/location/{loc_id}` Delete a location ⌃

Deletes an existing location from the JANET Home simulation environment, along with all its sublocation and devices

Parameters   [Try it out]

Name	Description
loc_id * required **integer** *(path)*	The location ID (unique int > 0) [10]

Responses

Code	Description	Links
204	NO CONTENT (location successfully deleted)	No links

Code	Description	Links
400	**BAD REQUEST**	*No links*

- Parameter **loc_id** is not an integer
- Parameter **loc_id** is < 1

Media type

    text/plain   ⌄

Example Value | Schema

```
<ERROR> Parameter "loc_id" is not an integer ("ciao")
```

Code	Description	Links
404	**NOT FOUND** (location **loc_id** was not found in the JANET Simulator)	*No links*

Media type

    text/plain   ⌄

Example Value | Schema

```
<ERROR> A location with such "loc_id" (9521) does not exist
```

Code	Description	Links
405	**METHOD NOT ALLOWED** (unsupported HTTP method)	*No links*

Media type

    text/plain   ⌄

Example Value | Schema

```
<ERROR> Method "GET" is not allowed in the specified path
```

Code	Description	Links
500	**INTERNAL SERVER ERROR**	*No links*

- The location along with all its sublocations and devices were deleted from the database, but an internal error occured in stopping their associated nodes
- Unhandled server error

Media type

    text/plain   ⌄

Example Value | Schema

```
<SERVER ERROR> The location along with all its sublocations and de-
vices were deleted from the database, but an internal error occured
in stopping their associated nodes: {errorReason}
```

Sublocations API ⌃

POST /location/{loc_id}/sublocation/{subloc_id} Update a sublocation's name ⌃

Updates the name of an existing sublocation in the JANET Simulator node

Parameters

Try it out

Name	Description
loc_id * required integer *(path)*	The location ID (unique int > 0) `10`
subloc_id * required integer *(path)*	The sublocation ID within the location (int > 0, because the name of default sublocations {Loc_id,0} cannot be changed) `4`

Request body ^{required}

application/json ⌄

- **name** → The updated sublocation name (string)

Example Value | Schema

```
{
  "name": "kitchen"
}
```

Responses

Code	Description	Links

Code	Description	Links
204	NO CONTENT (sublocation name successfully updated)	*No links*
400	BAD REQUEST	*No links*

- Parameter **loc_id** is not an integer
- Parameter **loc_id** is < 1
- Parameter **subloc_id** is not an integer
- Parameter **subloc_id** is < 1
- Parameter **name** is missing

Media type

    text/plain   ⌄

Example Value | Schema

```
<ERROR> Required parameter "name" is missing
```

Code	Description	Links
404	NOT FOUND (sublocation **{loc_id,subloc_id}** was not found in the JANET Simulator)	*No links*

Media type

    text/plain   ⌄

Example Value | Schema

```
<ERROR> A sublocation with such "sub_id" = {932,74} does not exist
```

Code	Description	Links
405	METHOD NOT ALLOWED (unsupported HTTP method)	*No links*

Media type

    text/plain   ⌄

Example Value | Schema

```
<ERROR> Method "GET" is not allowed in the specified path
```

Code	Description	Links
415	UNSUPPORTED MEDIA TYPE (request body could not be interpreted as JSON)	No links

Media type

┌─────────────────────────────┐
│ text/plain   ⌄   │
└─────────────────────────────┘

Example Value | Schema

```
<ERROR> Request body could not be interpreted in JSON format
```

| 500 | INTERNAL SERVER ERROR | No links |

- Unknown JSONE parameter mapping
- Unhandled server error

Media type

┌─────────────────────────────┐
│ text/plain   ⌄   │
└─────────────────────────────┘

Example Value | Schema

Devices   ⌃

```
<UNKNOWN SERVER ERROR> Unknown error: {errorReason}
```

┌──────────┬──┐
│ **POST** │ **/device/{dev_id}** Update a device's name   ⌃ │
└──────────┴──┘

Updates the name of an existing device in the JANET Simulator node

Parameters   ┌─────────────┐
                                                           │ Try it out │
                                                           └─────────────┘

Name	Description
dev_id * required `integer` *(path)*	The device ID (unique int > 0) ┌────────────────────────────────────┐ │ 5 │ └────────────────────────────────────┘

Request body required   ┌──────────────────────────┐
                                             │ application/json   ⌄ │
                                             └──────────────────────────┘

- **name** → The updated device name (string)

Example Value | Schema

```
{
   "name": "Pinguino Cool&Quiet"
```

```
}
```

Responses

Code	Description	Links
204	NO CONTENT (device name successfully updated)	*No links*
400	BAD REQUEST	*No links*

- Parameter **dev_id** is not an integer
- Parameter **dev_id** is < 1
- Parameter **name** is missing

Media type

text/plain ⌄

Example Value | Schema

```
<ERROR> Required parameter "name" is missing
```

Code	Description	Links
404	NOT FOUND (device **dev_id** was not found in the JANET Simulator)	*No links*

Media type

text/plain ⌄

Example Value | Schema

```
<ERROR> A device with such "dev_id" (1538) does not exist
```

Code	Description	Links
405	METHOD NOT ALLOWED (unsupported HTTP method)	*No links*

Media type

text/plain ⌄

Example Value | Schema

```
<ERROR> Method "GET" is not allowed in the specified path
```

Code	Description	Links
415	UNSUPPORTED MEDIA TYPE (request body could not be interpreted as JSON)	*No links*

Media type

text/plain ⌄

Example Value | Schema

```
<ERROR> Request body could not be interpreted in JSON format
```

Code	Description	Links
500	INTERNAL SERVER ERROR	*No links*

- Unknown JSONE parameter mapping
- Unhandled server error

Media type

text/plain ⌄

Example Value | Schema

```
<UNKNOWN SERVER ERROR> Unknown error: {errorReason}
```