

Provider

- Create Provider through this command: `curl -v -H "Accept: application/json" -H "Content-type: application/json" -X POST -d '{"provider":{"name": "surrey", "description": "University of Surrey testbed resources", "urn_prefix": "iot.surrey.uk", "user_id": 1}}' http://129.194.70.52:8000/providers`
- List of providers `http://129.194.70.52:8000/providers/index.json`
[#Experiments](#)
- Create Experiment `curl -v -H "Accept: application/json" -H "Content-type: application/json" -X POST -d '{"experiment":{"title":"Students Location Pattern","description":"Please join us to this experiment. We are trying to map location pattern of students location during the second semester of the year.", "start_datetime":"23-02-2015", "end_datetime":"28-02-2015", "participation":"null", "voters":"0", "ranking":"0", "interaction":"","status":"null", "location":"Luleå", "radius":"6", "minimum_age":"18", "maximum_age":"25", "gender":"Any", "employment_sector":"Education", "employment_status":"Student", "camera":"","accelerometer":"","magnetometer":"","location_sensor":"true"}}' 129.194.70.52:8000/experiments`
- Get list of Experiments `http://129.194.70.52:8000/experiments/index.json`
[#API for nodes](#)
- Get List of all nodes
`curl -v -X GET http://129.194.70.52:8000/nodes/index.json`
[List of nodes by provider](#)
- Get List of all nodes by location(latitude,longitude)
[Node with latitude=46.176388 and longitude=6.139959](#)
- Create a node: `curl -v -h "accept: application/json" -h "content-type: application/json" -x post -d '{"node":{"name":"telosb mote", "phone_flag":"false", "urn":"unige.a", "latitude":"46.176388", "longitude":"6.139959"}}' 129.194.70.52:8000/nodes`
- Set up API for resources
[Get list of resources by type](#)
- Get List of all nodes
`curl -v -X GET http://129.194.70.52:8000/nodes/index.json`
- Create a node:
`curl -v -H "Accept: application/json" -H "Content-type: application/json" -X POST -d '{"resource":{"ipso_index": 0,`

- `“function_set_id”: 9, “node_id”: 1, “resource_type_id”: 49, “name”: “test resource”}}` `http://129.194.70.52:8000/resources`
- Set up USER API
- List of all users: `http://129.194.70.52:8000/users/index.json`
- Create a user through the following command: `curl -v -H “Accept: application/json” -H “Content-type: application/json” -X POST -d ‘{“user”:{“name”: “Jean-Michel”, “surname”: “LeChaire”, “address”: “Rue de ssdds”, “hometown”: “LeLocle”, “country”: “Suisse”, “gender”: “m”, “education”: “PhD”, “birthdate”: “03/03/1930”, “employment_sector”: “Education”, “employment_status”: “Retired”, “username”: “jeanmichel”, “password_hash”: “”, “email”: “jml@iot.ch”, “email_confirmed”: “jml@iot.ch”, “security_stamp”: “”, “phone_number”: “0041787991232”, “phone_number_confirmed”: “0041787991232”, “two_factor_confirmed”: “false”}}’ 129.194.70.52:8000/users`
- Get details of a user for a given ID `curl -v -X GET http://129.194.70.52:8000/users/1.json`
#Reservation API
- Get List of all nodes
`curl -v -X GET http://129.194.70.52:8000/reservations/index.json`
- Create reservation
`curl -v -H “Accept: application/json” -H “Content-type: application/json” -X POST -d ‘{“reservation”:{“start_datetime”:“23-02-2015 14:30:00”, “end_datetime”:“23-02-2015 14:50:00”, “reservation_key”:“uMysLOdoTwSF8vllOaBtJqyo8OSm8Mcd2A_pk65qjqbrMwx6St80AA”, “user_id”:1}}’ http://129.194.70.52:8000/reservations` #Resource_Reservation API
- Insert Resource_Reservation
`curl -v -H “Accept: application/json” -H “Content-type: application/json” -X POST -d ‘{“resource_reservation”:{“resource_id”:1, “reservation_id”:1}}’ localhost:3000/resource_reservations`
- Get list of all Resource_Reservations
`curl -v -X GET http://localhost:3000/reservations/index.json`