

ISES Cloud API access

This document describes means and methods to access ISES cloud based services through API.

About API

ISES API adheres to the principles of REST (Representation State Transfer) programming. It uses HTTP method POST to execute different operations.

- API URL: <http://vel.ises.eu-project.info/api/>
- Accepted method: POST
- Currently implemented actions:
 - new
 - upload_simulation_data
 - start_passive_simulation
 - get_passive_simulation_results

Usage instructions

In order to access and use API, the security token is requested. The token is provided on request and is needed in each call to the API.

The list of actions together with method specific input requirements and expected results is presented in table below.

Actions should be performed sequentially:

1. Action **new** should be called in order to create project and get back **project ID**. From this point on, **project_id** parameter is the identifier of the project, regardless project name.
2. Simulation data has to be uploaded in order for simulations to run in the next step. Simulations data are assigned to the project through **project_id** received in previous step. The zip file uploaded has to follow some rules. Example file will be provided.
3. Once simulations data are uploaded, passive simulations can be run.
4. In the end, when simulations are over, zip file with results can be downloaded. If simulations are not yet finished, json message will be returned instead of binary zip file.

All actions should be triggered through POST!

action	requested input fields (field name: value)	result
new	<ul style="list-style-type: none"> • action: "new" • token: "your_token" • project_name: "project name" 	<pre>json: { "action": "new", "status": "OK", "project_id": value }</pre>
upload_simulation_data	<ul style="list-style-type: none"> • action: "upload_simulation_data" • token: "your_token" • project_id: "project id" • file: zip file with simulation data 	<pre>json: { "action": "upload_simulation_data", "status": "OK", "project_id": value }</pre>
start_passive_simulation	<ul style="list-style-type: none"> • action: "new" • token: "your_token" • project_id: "project id" 	<pre>json: { "action": "start_passive_simulation", "status": "1 job(s) submitted to cluster 2745.", "project_id": value }</pre>
get_passive_simulation_results	<ul style="list-style-type: none"> • action: "new" • token: "your_token" • project_id: "project id" 	zip file