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openSenseMap

The openSenseMap (OSeM) is a webplatform which provides upload, visualisation and analysis of location-specific sensordata.

Stations may be registered on the platform, which host one or more *Sensors* on a specific location. Data up- & download is done via the restful API.

Features

- timeseries visualization for each phenomenon
- filtering by various parameters
- spatial interpolation
- data download with bounding box

All sensor data is available for download under the Public Domain Dedication and License 1.0.

openSenseMap and it's API is open source software. Sourcecode and issuetracker are located here:

- openSenseMap
- openSenseMap API
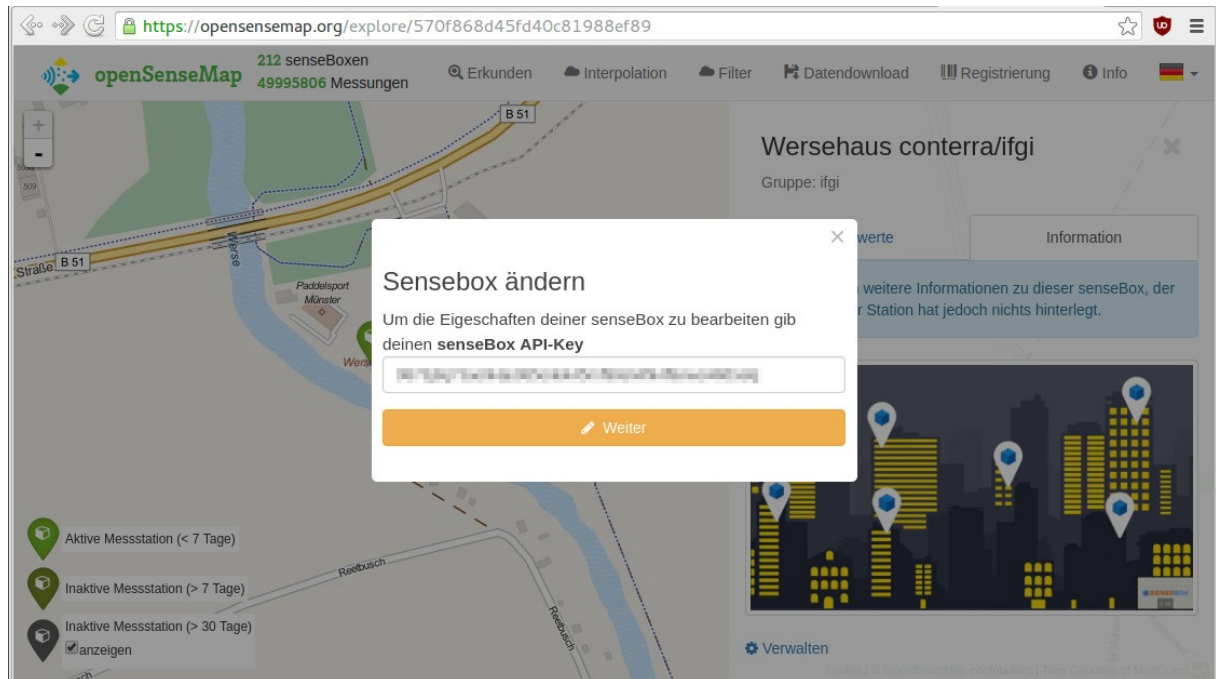
Registration on the OSeM

Registration on the OSeM

Modifying a station

All properties of a station may be changed after the registration.

To do this, authorization with the **API-key** is required, which was sent to you in the registration e-mail!

1. Select your station on the map by clicking on the marker on the map.

2. Select the tab "Info" in the sidebar and click "Manage".

3. Enter your API-key in the dialog.

4. Make your desired changes in the appearing form. You may edit metadata, geolocation, photo, as well as the stations sensor configuration.

> *Hint: If you have added a new sensor and want to download the updated arduino-sketch, a page-reload after saving is required.*

5. Click "save" or "cancel" in the top of the dialog to apply or discard your changes.

Deleting a station

Follow the steps under "Modifying a station", then type `DELETE` in the textfield "Delete senseBox" and confirm.

> *warning: All associated sensor data will be permanently deleted!*

Data download

Data analysis

Filter

Interpolation

OpenSenseMap API

Reading and writing sensor- & station-data is done via a REST-API located at https://api.opensensemap.org/.

Docs

The API documentation can be found in the [repositories' wiki](#).