

Oskari for Admins and Purchasers



Oskari administrative functions

- Managing map layers
- User management
- User roles and rights on different roles
- Default view
- Monitor the availability of map layers
- Administering embedded maps
- Announcements



Maintenance of map layers

Alternatives:

1. Import the layers via an API (admin)
2. Import the layers from files (a logged in user)
3. Create own features (a logged in user)

The maintenance of map layers:

- Add or edit the information of map layers (see right)
- Visualisation
- Filtering of attribute table
- JSON
- Rights

User rights

- view / publish
- roles / user account

The 'Map Layers' interface displays a list of map layers. Each layer has a name, a count in a black circle, and icons for help, delete, and edit. The layers are categorized into groups like 'Energy resources', 'Environmental monitoring facilities', 'Geographical grid systems', 'Geographical names', 'Geology', 'Guide maps', 'Habitats and biotopes', 'Human health and safety', 'Hydrography', 'Land cover', 'Land use', 'My Map Layers', and 'Natural risk zones'. The 'Natural risk zones' group is expanded, showing a list of flood hazard zones with their respective catchment basins and counts.

Layer Name	Count	Actions
> Energy resources	2	Help, Delete, Edit
> Environmental monitoring facilities	21	Help, Delete, Edit
> Geographical grid systems	3	Help, Delete, Edit
> Geographical names	20	Help, Delete, Edit
> Geology	40	Help, Delete, Edit
> Guide maps	25	Delete, Edit
> Habitats and biotopes	24	Help, Delete, Edit
> Human health and safety	79	Help, Delete, Edit
> Hydrography	45	Help, Delete, Edit
> Land cover	426	Help, Delete, Edit
> Land use	242	Help, Delete, Edit
> My Map Layers	6	
> Natural risk zones	22	Help, Delete, Edit
Natural risk zones details:		
Flood hazard zones Catchment basin 1/2a	1	Help, Edit
Flood hazard zones Catchment basin 1/5a	1	Help, Edit
Flood hazard zones Catchment basin 1/10a	1	Help, Edit
Flood hazard zones Catchment basin 1/20a	1	Help, Edit
Flood hazard zones Catchment basin 1/50a	1	Help, Edit
Flood hazard zones Catchment basin 1/100a	1	Help, Edit
Flood hazard zones Catchment basin 1/250a	1	Help, Edit

The 'Layer administration' interface shows configuration options for a map layer. It includes tabs for 'General', 'Visualization', 'Additional', 'JSON', and 'Permissions'. The 'General' tab is active, showing the 'Interface URL (WMS)' as 'https://paikkatiedot.ymparisto.fi/geoserver/syke_pintavesienekol', the 'Interface version' as '1.3.0', and the 'Supported SRS' as 'EPSG:3067'. The 'Unique name' is 'jarvet_ekologinen_tila_2010' and the 'Name in Finnish' is 'Järvien ekologinen tila 2010'. The 'Description in Finnish' is empty. The 'Dataprovider' is 'Finnish Environment institute' and the 'Maplayer groups' are 'Select groups'. The interface also includes a 'Username and password' section and a 'Forced SRS' dropdown.

Layer administration

General Visualization Additional JSON Permissions

Interface URL (WMS)

https:// paikkatiedot.ymparisto.fi/geoserver/syke_pintavesienekol

> Username and password

Interface version

1.1.1 1.3.0

Supported SRS Missing SRS

EPSG:3067 EPSG:3857

Forced SRS

Unique name

jarvet_ekologinen_tila_2010

Name in Finnish

Järvien ekologinen tila 2010

Description in Finnish

> Other languages

Dataprovider

Finnish Environment institute

Maplayer groups

> Select groups

Save Delete Add a new layer from same service Close

Visualization

The maintenance of map layers:

- Add or edit the information of map layers (see right)
- Visualisation
- Filtering of attribute table
- JSON
- Rights

User rights

- view / publish
- roles / user account

Layer administration

General

Visualization

Additional

JSON

Permissions

Opacity

100

%

Show map layer coverage on the map

Point distance in cluster

Collection type

Big objects

Lots of small objects

Add by using editor

Add JSON

No saved styles

Feature highlighting and tooltip

Save

Delete

Add a new layer from same service

Close

Scale

1:1

13

10

5

0

No restriction

1:1500000



Additional

The maintenance of map layers:

- Add or edit the information of map layers (see right)
- Visualisation
- **Filtering of attribute table**
- JSON
- Rights

User rights

- view / publish
- roles / user account

Layer administration ✕

General Visualization **Additional** JSON Permissions ☆

Layers unique identifier3808

This layer was created on1/25/2023 12:20:40 PM

This layer was last edited on12/19/2023 01:11:15 PM

Capabilities update rate ?

[Show GetCapabilities response](#) ↗

Metadata file identifier ?

File identifier defined in the service: not available

Replaced file identifier ↗

Geometry type ?

Unknown

▼

Using properties of features

Feature filter

Presentation ?

Select properties

Labeling

Formatting

Use feature property as identifier ?

Save

Delete

Add a new layer from same service

Close

JSON

The maintenance of map layers:

- Add or edit the information of map layers (see right)
- Visualisation
- Filtering of attribute table
- **JSON**
- Rights

User rights

- view / publish
- roles / user account

Layer administration

General

Visualization

Additional

JSON

Permissions

These tools enable advanced configuration, use with caution.

> Attributes

< Capabilities parsed for layer

```
"gpkg",
"json",
"text/csv",
"text/xml; subtype=gml/2.1.2",
"text/xml; subtype=gml/3.1.1",
"text/xml; subtype=gml/3.2"
],
"srs": [
  "EPSG:3067"
],
"bbox": {
  "wkt": "POLYGON ((15.053785270822841
58.6074565294299, 15.053785270822841 70.26415662234614,
33.993537468175056 70.26415662234614,
33.993537468175056 58.6074565294299, 15.053785270822841
58.6074565294299))"
```

> Options

> Params

Save

Delete

Add a new layer from same service

Close



Layer rights

The maintenance of map layers:

- Add or edit the information of map layers (see right)
- Visualisation
- Filtering of attribute table
- JSON
- **Rights**

User rights

- view / publish
- roles / user account

Layer administration

General

Visualization

Additional

JSON

Permissions

Role	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Administrator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Guest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Karttakäyttäjät	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Karttajulkaisija_Demo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Karttajulkaisija_Espoo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Karttajulkaisija_GTK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Save

Delete

Add a new layer from same service

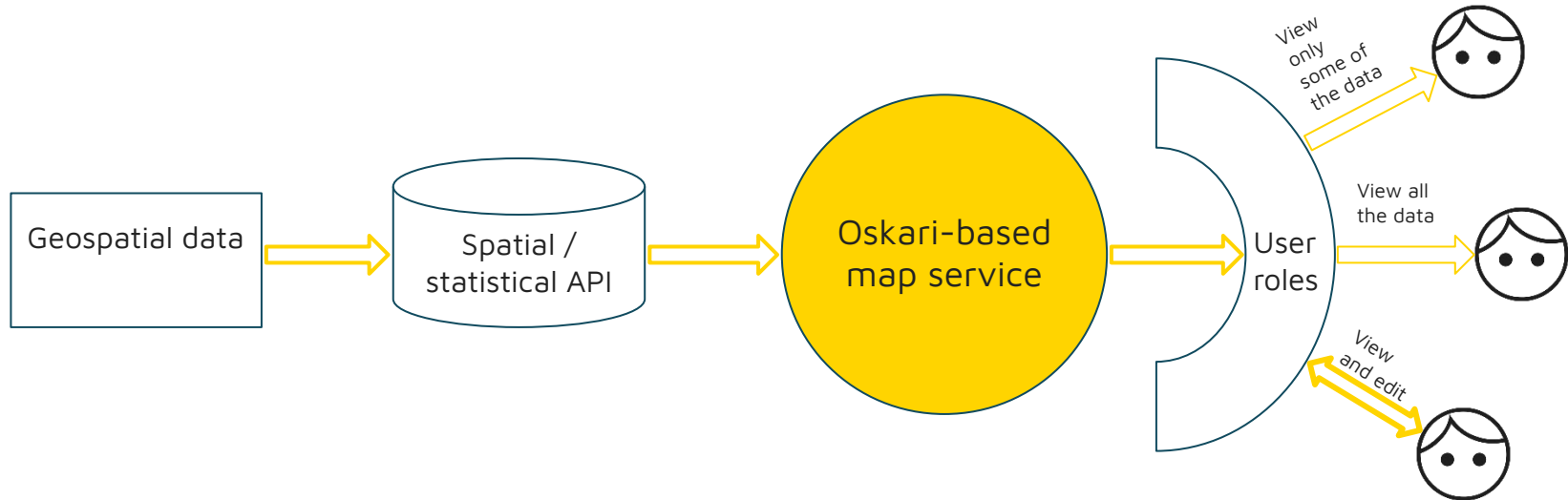
Close

Embedded maps administration

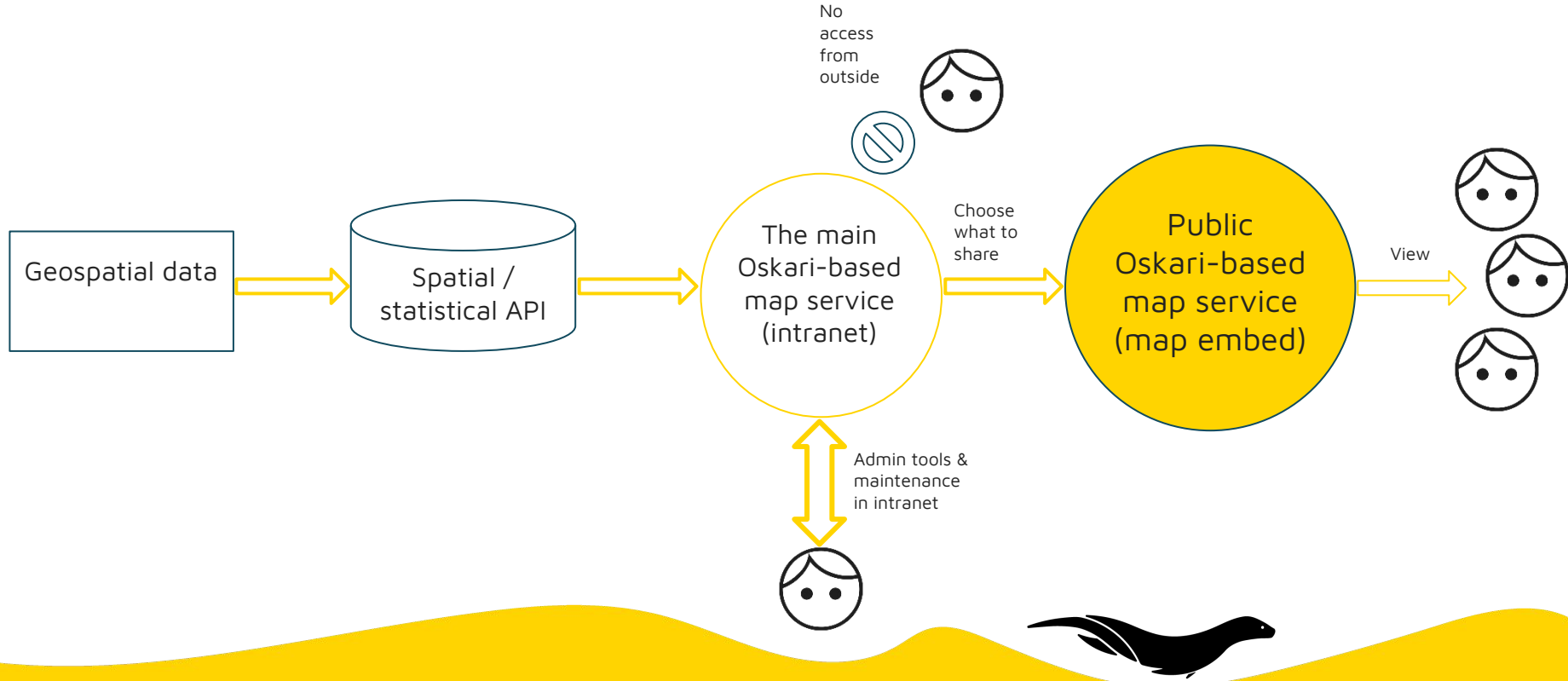
- User access limited to published maps
- Access restrictions by domain address if needed
- Access restricted by user name if needed
- Embedded maps may be extended by RPC Application



Data flow in Oskari (simplified)



Alternative data flow in Oskari (embedded map)



Purchasing Oskari



Purchasing Oskari

- What should one take into account when purchasing Oskari?
 - Before main points
- Main points of purchasing Oskari:
 - Consider what is the basic need: who and how the Oskari service will be used?
 - Recognise where you need expertise from elsewhere and what you can do internally
 - Is the basic Oskari package sufficient as is or does it need to be changed?
 - Are you buying a new instance or upgrading an old one: the things to consider are different
 - Plan who will maintain the service once the purchase is made: ensure continuity
 - Network and learn from others: Oskari users in your own or other organizations, end user



Requirements for Oskari

Necessary:

- A server where Oskari is located
- Geospatial data that is available via an API

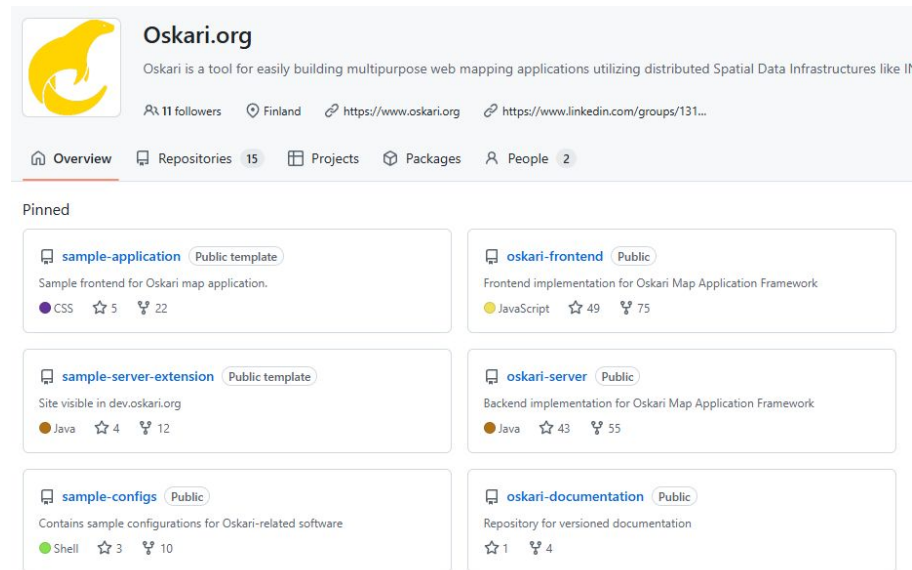
And if needed:

- A software (GeoServer, for example) that allows organisation to publish its own data via an API
- A database (PostgreSQL + PostGIS extensions, for example) if the organisation wants to allow user the end-users to import their own datasets to the map service



Oskari development and continuity

- Oskari is developed together, NLS FI coordinates
- Developing follows the open source principles
 - Anyone can take part in developing
 - It is possible to do joint development between organizations
- The continuity of Oskari is secured by the continuity standards of NLS FI and the whole Oskari Joint Development Forum



Oskari.org
Oskari is a tool for easily building multipurpose web mapping applications utilizing distributed Spatial Data Infrastructures like II

11 followers • Finland • <https://www.oskari.org> • <https://www.linkedin.com/groups/131...>

Overview Repositories 15 Projects Packages People 2

Pinned

- sample-application** (Public template)
Sample frontend for Oskari map application.
CSS 5 22
- oskari-frontend** (Public)
Frontend implementation for Oskari Map Application Framework
JavaScript 49 75
- sample-server-extension** (Public template)
Site visible in dev.oskari.org
Java 4 12
- oskari-server** (Public)
Backend implementation for Oskari Map Application Framework
Java 43 55
- sample-configs** (Public)
Contains sample configurations for Oskari-related software.
Shell 3 10
- oskari-documentation** (Public)
Repository for versioned documentation
1 4



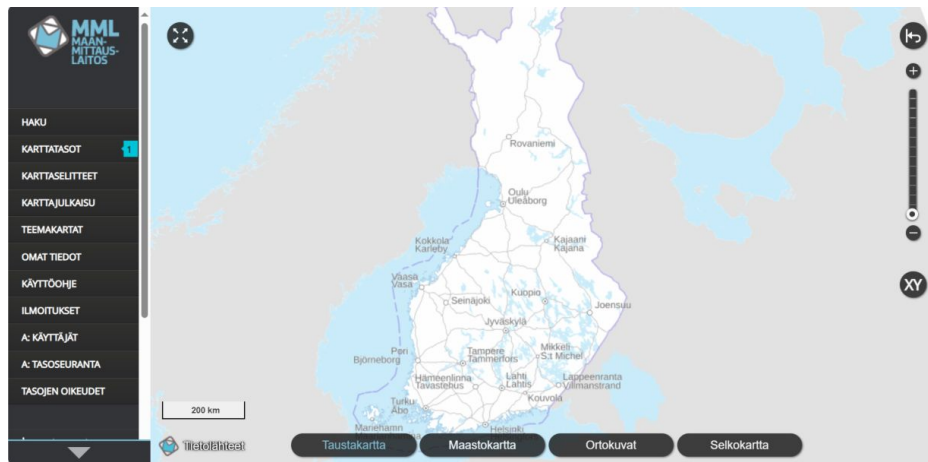
The Oskari community

1. Oskari community is coordinated by **National Land Survey of Finland**
 - Product owner, technical coordinator
 - Communications coordinator as a consultant service
2. **Joint development forum**
 - 7 organisations (10/2025): NLS FI, Väylä, DVV, HSY, City of Tampere, City of Joensuu, Ubiqu Ltd.
 - Meetings on a monthly basis: use cases, needs, co-operation possibilities, what's new
3. **Project steering committee** is responsible for the code
4. Development, consultation, training, support, maintenance
 - Different companies, no vendor lock-in
5. Oskari community
 - Organisations using Oskari: Lounaistieto, Museovirasto, Ruokavirasto...
 - About 50 people, from both public and private sectors



Use case: Suomi.fi maps

- A part of Finnish e-services for public sector organisations
- Municipalities and other public sector organisations can create and publish embedded maps
- Over 1000 map layers
- Organisations have **roles**, which have been granted **permissions** to different map layers
- Organisations ask their own non-public layers to be added to the service
- In numbers:
 - 300+ user accounts
 - approx. 1500 map embeds made
 - 41 mil. map layer views in 2023



Use case: Karttapaikka (NLS FI)

- Made using map embed from Suomi.fi maps karttajulkaisusta and implementing RPC
- 6 mil. visitors annually



Maanmittauslaitos - Karttapaikka

FI / SV / EN

Osta karttoja

Osta Maanmittauslaitoksen perus- ja maastokarttoja tai tilaa oma karttatuloste valitsemaltasi alueelta.

Lataa paikkatietoaineistoja

Maanmittauslaitoksen kartta- ja paikkatietoaineistot käyttösi tiedostoina.

Hoida kiinteistöasioita

Kirjaudu Maanmittauslaitoksen asiointipalveluun.

Jaa karttalinkki

Tee kartalle merkintä ja jaa linkki siihen sähköpostilla, sosiaalisessa mediassa tai www-sivullasi.

Anna palautetta

Ilmoita virheestä tai puutteesta kartta-aineistoissa tai anna palautetta Karttapaikasta.

Tietoa palvelusta



Use case: City of Tampere

- The map service for City of Tampere
- Configurations include logging in via intranet
- An Oskari-based feedback tool has also been made: a split screen view where other half has a survey, the other has map embed that allows adding features to the map



Thank you!

- **Website:** <https://oskari.org/>
- **GitHub:** <https://github.com/oskariorg/>
- **LinkedIn:** [Oskari - Open Source](#)
- **Email:** info@oskari.org & juho@gispo.fi

