

Tecnoteca srl

Tecnoteca OpenCms GoogleMap Module

Version: 1.0.5

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1 Abstract

This document describes the installation, configuration and usage of the Tecnoteca OpenCms GoogleMap module.

With the googlemap module it is possible to create interactive map objects with macro-categories, categories, markers, temporary markers, panoramio photos, paths (polylines) and areas (polygons).

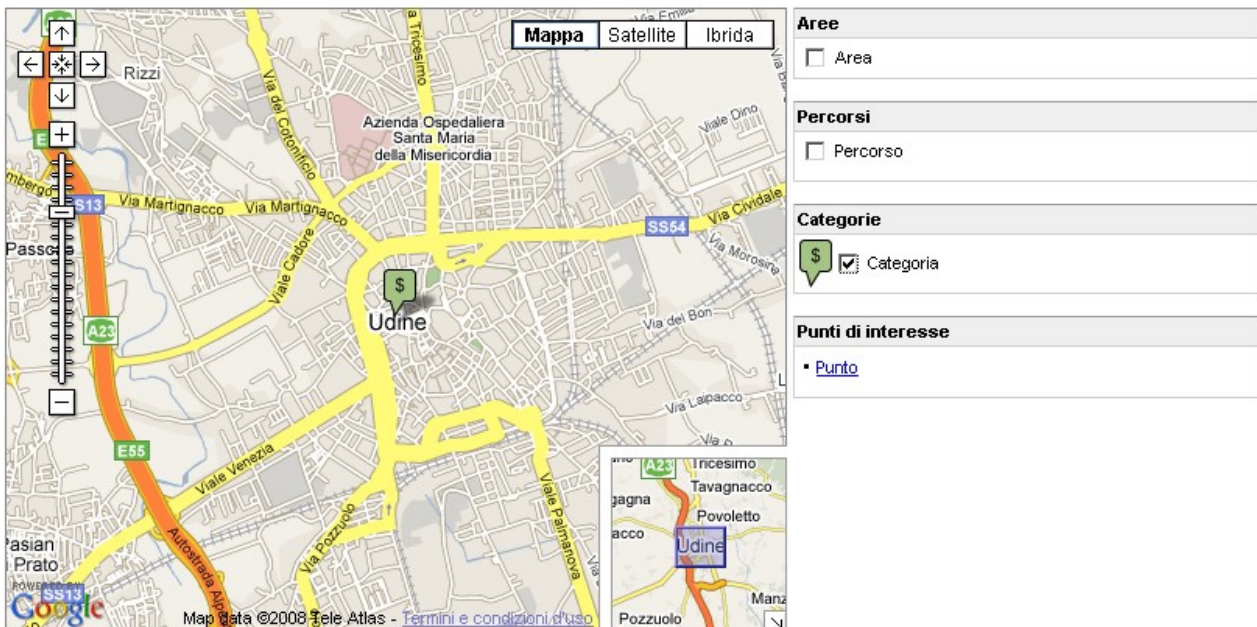
The provided object can easily customized to fit in a user-defined template.

2 General purpose of the Tecnoteca GoogleMap module

The module extends a basic OpenCms installation with the capability to display different maps based on markers, paths or areas.

It provides the following features:

- Complete map definition (center, zoom, size, advanced controls)
- Custom categories with unlimited markers per category
- Temporary (date related) markers
- Marker direct link generation, for external reference
- Custom paths
- Custom areas
- Panoramio photos
- Adobe spry based interface
- Italian and English localizations (both workplace and interface)



Map view

3 General purpose of the Tecnoteca GoogleMap module

Note: To use the Tecnoteca GoogleMap module, you need at least OpenCms version 7.0.3.
The module is not compatible with older OpenCms versions.

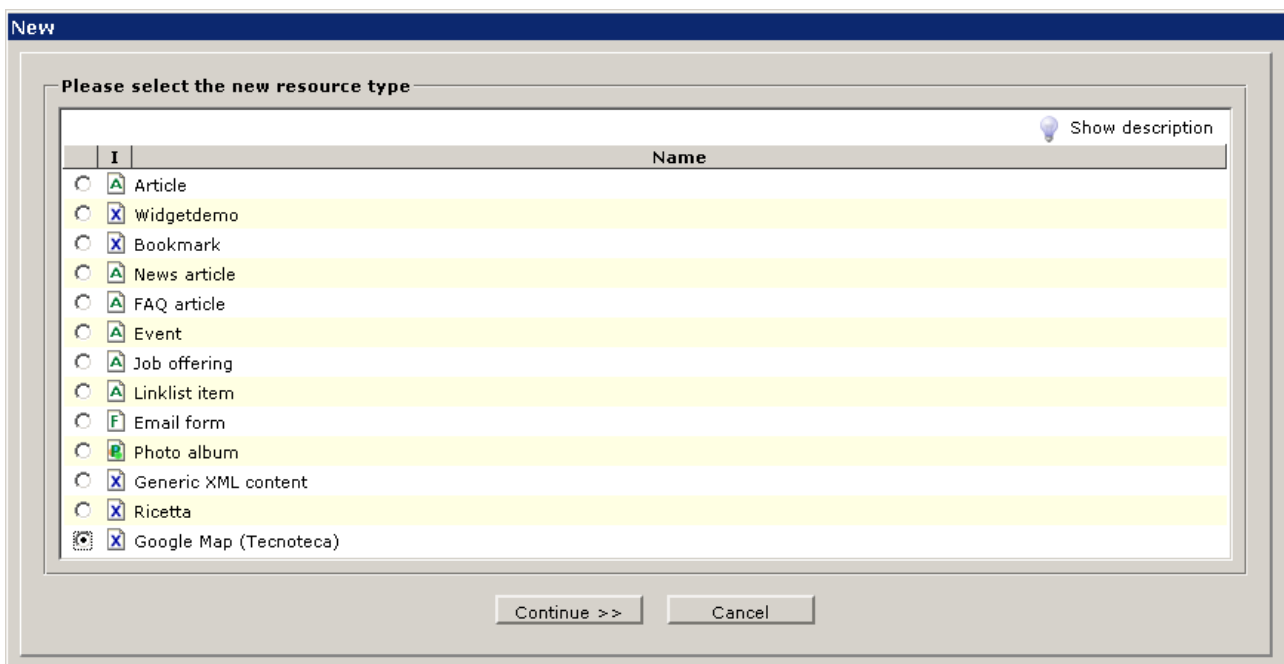
Step by step installation procedure:

1. Go to the OpenCms **Administration** view
2. Click "**Module Management**" and select either "Import Module from Server" if the module was placed in the *WEB-INF/packages/modules/* folder of your OpenCms installation, or select "Import Module with HTTP" to upload the module from your local file system
3. Select the Tecnoteca GoogleMap module zip file to import and proceed
4. Edit the **opencms-vfs.xml** file located in *<OPENCMS>/WEB-INF/config/*, find *<widgets>* section and add entry:
`<widget class="it.tecnoteca.widgets.CmsIdGeneratorWidget" alias="IdGeneratorWidget"/>`
5. **Restart** your servlet container afterwards

4 Module usage

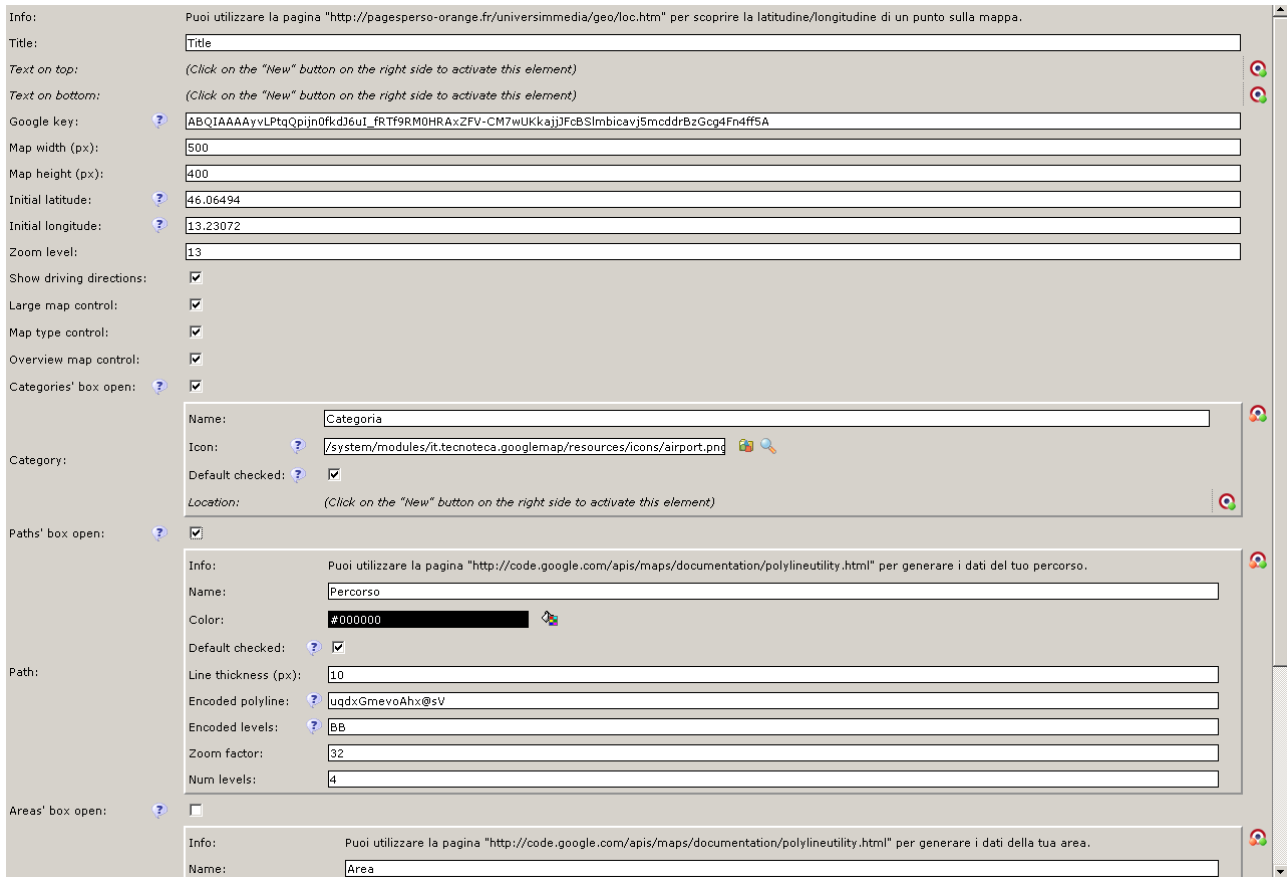
The module is shipped with a resource type.

The map object can be created by using the "New" dialog wizard of OpenCms and by selecting the entry "Structured content" and then "Google Map" on the dialog page.



Wizard

Left-clicking on the new object and choosing “Edit” you’ll be prompted to the edit page of the map; here you can define all the parameters for your map.



Map edit

All parameters should be quite intuitive and self-explanatory. Here are some notes:

- **Latitude / longitude**

Latitude and longitude values could be generated in different ways; surfing the web you could find a lot of google-related websites giving you the possibility to generate this values. Anyway, we suggest using this page (simple and intuitive):

<http://pagesperso-orange.fr/universimedia/geo/loc.htm>

- **Icons**

The module includes an image gallery with some ready-to-go icons for your categories; the image gallery is called “Tecnoteca – googlemap icons” and is shipped within the module. We suggest adding your custom icons to this gallery.

- **Polylines**

Encoded polylines are used to define paths and areas.

The encoded data could be generated using the “Interactive Polyline Encoder Utility” by Google:

<http://code.google.com/apis/maps/documentation/polylineutility.html>

- **Areas**

Areas highlight are created by defining the perimeter; the perimeter is defined in the same way you would define a path (using the polyline encoder utility); it is not necessary to create a closed path (start point=end point).

Marker direct link

When viewing the map as an authenticated user, the marker's pop-up shows a direct link to the location selected.

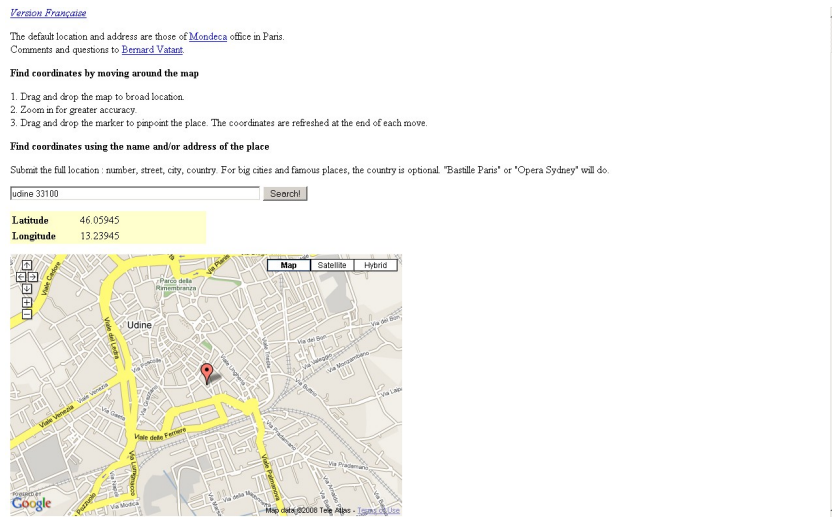
This is useful to create the typical "show on map" link on a page, jsp, what else.

Panoramio

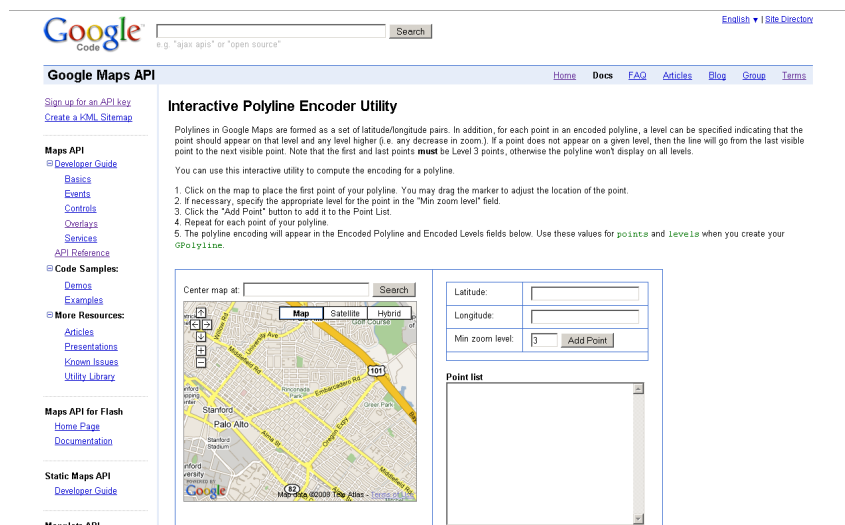
It's possible to activate [Panoramio](#) photos on a map object.

This will display all the photos found on Panoramio for the current viewport.

Automatic photos update on map change is performed.



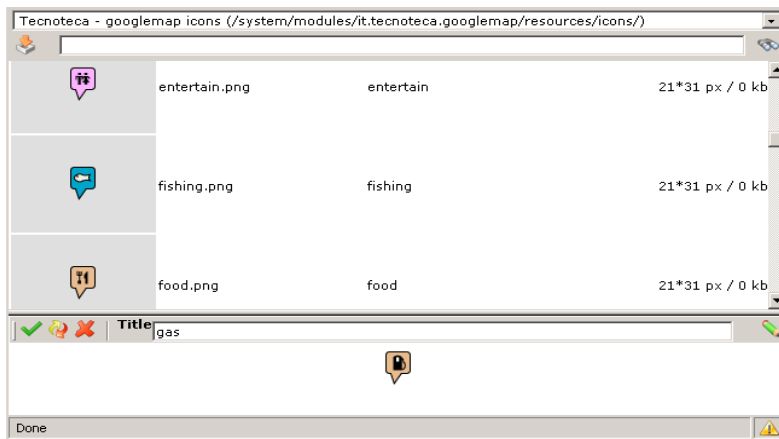
External lat/long generator



Google - interactive polyline utility



Marker direct link



Icon image gallery



Panoramio

5 Template integration

The resource type tries to include the template "head" and "foot" parts of the JSP template specified in the template property of the file.

If no template is specified the map will still be rendered with a default, empty, template (useful for popup like map integration).

For a more in-depth customization you could edit the file:
`/system/modules/it.tecnoteca.googlemap/pages/googleMap.jsp`

6 Further improvements

Further improvements may include:

- Code refactoring
- Take advantage of more Google APIs
- Interface improvements with spry framework
- Include inside module utilities to:
 - create latitude/longitude values
 - create encoded polylines (for paths and areas definition)

7 Bugs

Email us with your bugs, we'll try to help you out: tecnoteca@tecnoteca.com
If the email traffic will get high we will consider using a tracking system.

8 Developer notes

Any suggestion, help and feedback is really appreciated.
Enjoy the module.