GAFmap® - GIS Technology in 2D, 3D and Virtual Reality (VR)

GAFmap® is an all-in-one desktop GIS for visualising and analysing data in 2D, 3D and VR as well as creating and editing geodata, maps and animations. The core product can be accompanied by fully integrated extensions.

Highly performant 3D Viewer Extension*

Fully integrated Print & Map Layout Module

2D Map Viewer with Multiple Map Viewer

Fully integrated Geology Extension*

Multiuser Mode and Virtual Reality for 3D

* Further expert extensions are available on demand. For further information please contact us directly.

GAFmap® - A clever combination of standard GIS and state-of-the-art functionality

Online Services:
- Add public or internal web services (WMS,WFS)
- Use geocoding services
- Access open data and download e.g. OpenStreetMap

Animations & Multimedia:
- Create timeline animations for vector data and raster data with video generation
- Add multimedia hyperlinks, text elements, vector & raster graphics including geotagged photos

Advanced Raster Data Tools:
- Work with tools dedicated for digital elevation models, ortho images and thematic layers
- Perform complex mathematical operations
- Classify rasters with pixel-based image segmentation (region growing)
- Clip and edit your rasters based on vectors

Advanced Vector Data Tools:
- Perform complex vector data editing
- Use predefinable attributes & picklists
- Check and ensure your data's quality
- Use statistics & scatter plots
- Interpolate vectors and create raster surfaces
**GAFmap® for on-site missions**

GAFmap® perfectly combines office and fieldwork and provides the tools required to prepare, conduct and review field surveys.

Online or offline, GAFmap® offers GIS integrated tools for on-site data capture, navigation and tracking – wherever you are. Also see our GAFmap® Mobile App for Android and iOS.

**GAFmap® 3D Viewer Extension**

Use GAFmap® to seamlessly visualise, analyse and present 3D data and create flight animations, 3D PDFs or 3D models. Switching between 2D and 3D view has never been easier.

Combine 3D models, vector data and digital elevation models to create your 3D or VR world and use facade texturing with satellite images to make it even more realistic.

And what about Multi-User Virtual Reality and GIS? Just immerse yourself or a whole group of physically separated people in your GIS world.

**GAFmap® Geology Extension**

GAFmap® provides an entire workflow featuring expert tools that optimise the geological mapping process – thereby perfectly harmonising office activities and fieldwork.

Facilitate your field mapping campaigns using a standardised digital field book and an effective procedure for synchronising data between team members.

Analyse your data using stereograms, rose plots and cross section profiles – optionally in combination with GAFmap®’s 3D Viewer to visualise seismic and borelog data.

**GAFmap® Maintenance & Support**

Maintenance & support is included in the first year and available for all products and licenses. For further information please contact us directly.

**Customisation**

With GAFmap®, we also offer a fully customisable product.

The modular architecture and design allows to adapt or extend the software to meet your specific requirements.

Use GAFmap® as a base platform and create tools, modules or workflows together with our geo-information experts and software development team.

**Technical Details**

GAFmap® supports:

- numerous data formats by using GDAL/OGR:
  - common raster, vector and alphanumeric data formats
- vector & raster graphics and 3D models
- OGC conform data access: web services and databases
- GPS via NMEA protocol and Windows Location Provider
- XML based management of settings, projects and symbology

GAFmap® is a powerful and stable software that:

- is optimised for Windows 7/8/10 (x32 and x64)
- is based on Microsoft .NET Framework
- is a true 64bit application
- is compatible with NVIDIA 3D Vision
- supports high-quality virtual reality headsets like Oculus Rift S and HTC Vive.
- uses DirectX hardware accelerated 3D-rendering with intelligent data-caching
- supports touch screen gesture controls

GAF headquarters is compliant with international standards (OGC, ISO, INSPIRE) and quality control procedures (ISO 9001:2015) are a key element of our software development process.

**You are welcome to order a free trial version of GAFmap® to evaluate our product! Please contact gafmap-info@gaf.de**

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