SmartGIS allows quality assured aeronautical information to be utilised across various stakeholders – information management experts, internal ATM staff such as air traffic controllers and procedure designers and external stakeholders including airspace users, data originators and the general public.

One common GIS component for all environments

smartGIS is the common GIS visualisation and editing component that can be used to add a visual dimension to all Frequentis / Frequentis Comsoft modules:

- AIXM 5.x data management in CADAS and smartDM
- ADQ and workflow management: smartWFM
- Briefing and Digital Briefing: smartIBS / CADAS IMS
- Electronic Terrain and Obstacle Database: smartETOD

Using a common component for all visualisation tasks ensures that information is rendered consistently throughout the digital data chain – from originators to pilots.

Key features

- Connection to aeronautical data sources
- Browser-based HMI (User Interface)
- Visualisation and editing of aeronautical information
- Options for cloud-based server back-end
- Easy to use – does not require GIS expertise
- Geometry editing directly on the map
- Layering of information to allow information fusion from different sources
- System provides an API that enables interoperability with other applications.
Benefits

**Visualisation and editing**

An industry standard browser is all that is required for accessing and editing your aeronautical information with smartGIS. Zoom out to see the big picture of your airspace structure in 3D. Zoom in to verify your obstacle database is in line with reality by verifying it against satellite imagery. Authorised users can also edit aeronautical information visually. Changes you make in AIM forms are immediately visualised on the integrated map. Changes you make on the map, are directly reflected in the form fields. smartGIS gives you the flexibility to support your work in whichever fashion suits you best.

**Technology**

Based on a Service Oriented Architecture (SOA) and adhering to geospatial standards defined by ISO and OGC, smartGIS connects to AIXM 5.x data sources as well as to information sources providing GeoJSON, shape files and other sources of geo information.

The application is capable of handling vector and raster data on a 2D and 3D display. It also allows users to combine information from various sources of geo-information using standards like WMS and WFS or by just using drag and drop in the browser.

### Technical specifications

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<td><strong>Map types</strong></td>
<td>2D, 3D via embedded WebMap/WebGIS viewer</td>
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<td><strong>Application compatibility</strong></td>
<td>Open Geospatial Consortium (OGC) applications, WMS, WFS, WFS-TE, Tile Mapping Services (TMS)</td>
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<td><strong>WebMap supported content</strong></td>
<td>Terrain, contour lines, data groups and ICAO Areas and Surfaces</td>
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<td><strong>Interoperability with other Frequentis products</strong></td>
<td>– AIXM 5.1 databases – CADAS, smartDM – smartETOD – smartWFM NOTAM / Briefing systems: CADAS IMS, smartIBS, Digital Briefing</td>
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