

Transforming Data into added Value

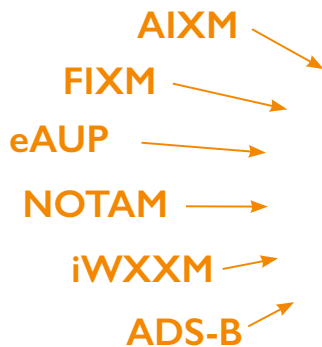


Real-time Aviation Data

cloud4.aero

cloud4.aero is an Aeronautical Data Information Platform to provide real-time data streams for all aviation clients, in particular for mobile devices and web applications. The cloud4.aero platform makes it easy to access and share aviation data to improve operational performance.

SWIM Data Sources



JSON API

Specialized Services

- Flight Info
- Airport Info
- NOTAM
- Flight Environment
- Flight Restrictions

Traffic Prediction



SWIM Data Sources

cloud4.aero imports data from different SWIM data sources. Using the SWIM compatible interface layer, static and dynamic data is loaded and stored in the Aeronautical Data Repository, the powerful database for aeronautical, weather and flight information management using modern aviation data formats (AIXM, D-NOTAM, FIXM, iWXXM). It supports spatial and temporal queries and filters provided through an OGC compliant and SWIM compatible WFS 2.0 interface with WFS Temporality Extension (WFS-TE).

Routes, airspace, airport and flight plan data from Network Manager (NM) is imported through the AMQP messaging B2B interface in AIXM and NM Formats. Also the Airspace Use Plans and Flight Restrictions are loaded. Additional Data sources for NOTAMs, METAR, Weather and Airport Information are used to complete the operational view.



Light weight JSON API

To provide convenient data streams for real-time aeronautical applications, the cloud4.aero platform comes with a light weight JSON API which provides access to various types of always up-to-date aeronautical datasets and supports synchronous requests and publish/subscribe messaging. It uses open web standards to be language-independent as well as platform-agnostic, and embraces simplicity to be accessible with minimal technical and administrative effort.

Specialized services

Specialized services are available to fit exactly the clients needs. Such services can easily be configured to go operational very fast. As an example, the static data service can be configured with selected features as parameter. It returns operational data of interest like airspaces, routes, waypoints, airports or flight restrictions. And on top of this, all included information is resolved, precalculated and prepared to be used with no additional effort.

- ▶ **Live aeronautical data using SWIM and NextGen**
- ▶ **FIXM, AIXM and iWXXM import**
- ▶ **Flight plans, route network, airspace usage**
- ▶ **Flight restrictions and NOTAMs**
- ▶ **Advanced airport information**
- ▶ **Up-to-date aviation weather services**
- ▶ **GeoJSON API for mobile devices and EFB**



GUIDOR App
skyconseil

m-click.aero GmbH is a Berlin based SME, specialized in data management and business to business integration in the aviation domain. m-click.aero is an ISO 9001:2015 certificated business and a member of OGC and EUROCAE.