



WAFS-WEBGIS

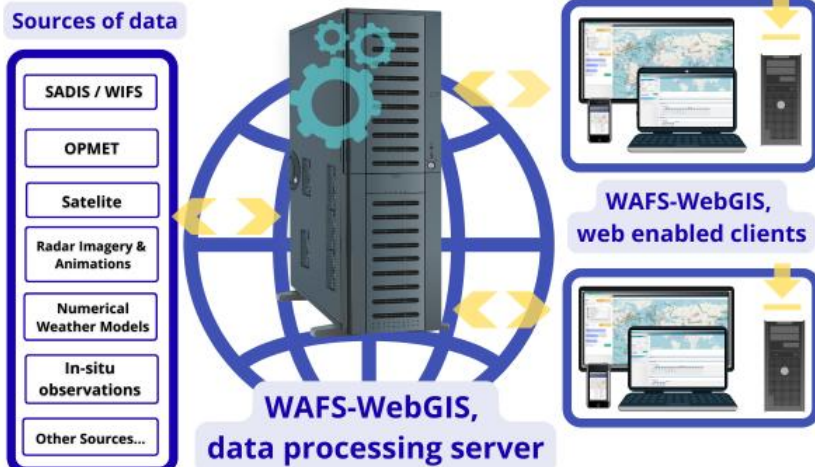


Flight Planning System for Weather Enroute

Info-Electronics Systems Inc. (IES) developed the WebGIS package to be a generic viewer and handler of geographical information-based data for Environmental applications. The package supports multiple data sources and is customizable to a variety of customer applications by integrating a wide range of functionalities for data handling, processing, rendering and display.

WAFS-WebGIS is based on the WebGIS package. It has the capability to be set up as a Decision Support System for weather aviation assistance. WAFS-WebGIS has been assessed by the UK-Met SADIS authority, which has certified its passing and full compliance to the criteria set forth in the SADIS FTP workstation software evaluation.

Service based: Example of generic configuration



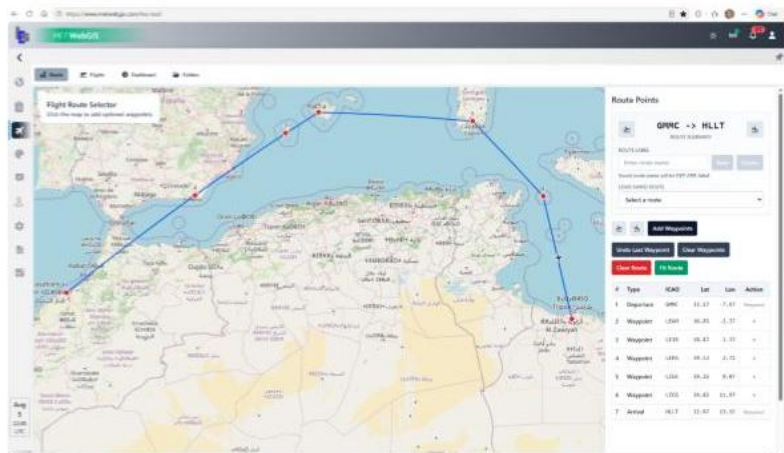
FEATURES

- Interfaces with SADIS of UKMet Office and WIFS of NOAA's National Weather Service.
- Supports GIS layer for map background customization.
- Simultaneous reception, display, and print capability
- Handles Bulletins, PNG Charts, BUFR, GRIB.
- Aviation charts; SIGWX, Wind-temp, etc.
- Queries in TAC and ICAO' IWXXM format from METAR and SPECI, TAF, SIGMET, and AIRMET.
- Selective reception of user-defined products Alert Message for user-specified products.
- Display vertical Cross Section along a route.
- Product Archival.
- Meteogram.
- Distribution of Web-enabled products.
- System Monitoring.
- We have added Enhanced user Management.

FLIGHT PLAN MODULE

Designed specifically for pilot flight weather briefing. It provides easy access to critical aviation weather products, including up-to-date weather conditions for flight take-off and forecast for enroute conditions. Pilots can plan, store, and manage multiple flight routes with ease, all in one centralized location. Equipped with integrated mapping tools, automated flight folder generation, and easy sharing options, it is the pilot's all-in-one briefing tool for safe and efficient flight operations.

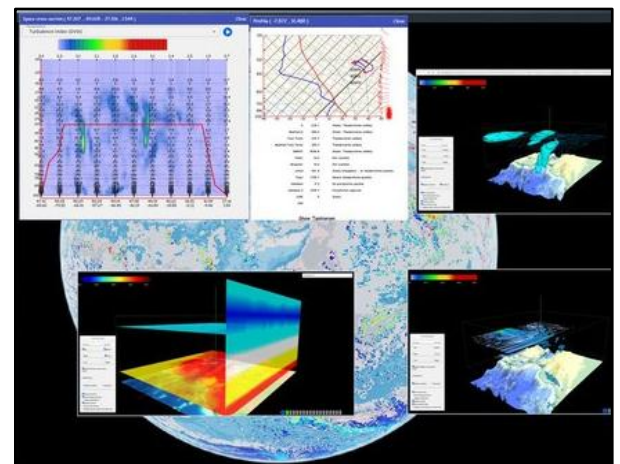
The WAFS-WebGIS Flight Folder module offers advanced functions for creation, databases, scheduling and management of the flight folder.



Flight Folder functions for Route definition and management

3D RENDERING

As a separate module, WAFS-WebGIS also features an add-in 3D volumetric cube and globe for visual analysis and could also integrate other sources of data, such as satellite and radar imagery, lightning data, etc. for your application.

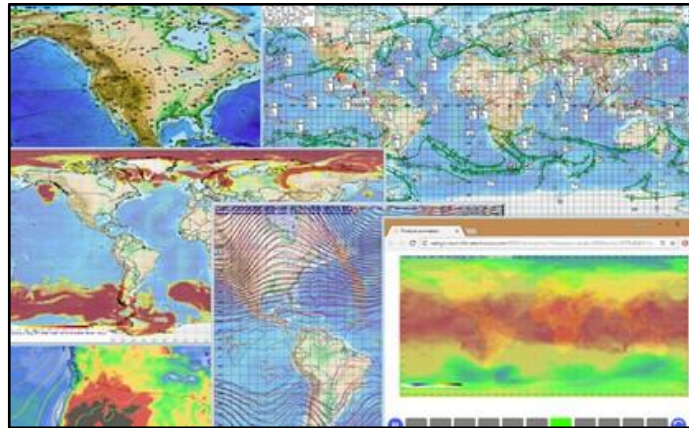


OPMET DATA RETRIEVAL

Report types, TAF, METAR, and SIGMET are retrieved, decoded, and displayed in tabular and graphical formats. Decoded data can be compared against a specified condition to extract only the reports meeting that specified condition (e.g. visibility less than five miles). In addition, decoders for UA, and FT type reports can be provided. Pattern matching can also be defined and applied to the database to generate warnings

BUFR DATA

The BUFR data are received and decoded to reproduce the T4 equivalent files of significant weather charts. These products are meant to replace the T4 charts and to allow the user to focus their charts on the exact area of interest. All required projections, zooms and weather symbols are supported.

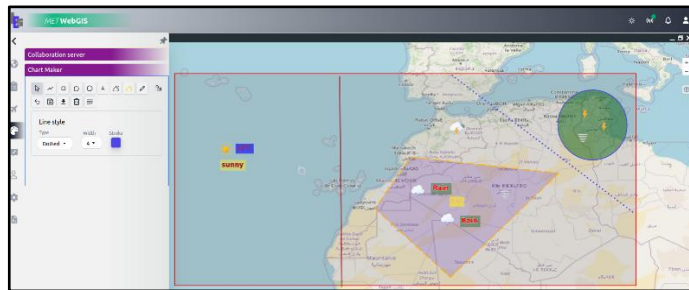


GRIB2 DATA

Fields decoded from GRIB data may be displayed on a map background as raw data, contours, wind barbs, or arrows in various colors and line styles. vertical cross-section display and plotting from GRIB data are also generated.

CHARTS VIEWER

The PNG charts viewer allows the user to display the WAFS T4 charts and perform the basic functions such as zoom, rotate, crop, annotate and print.



UPPERAIR PLOTTING

The Skew-T and Hodograph applications are available for UPPERAIR data display and printing.

DECODED DATA ON MAP

The decoded data may be displayed on a map background as values or as station models using international symbols. Analysis of randomly spaced data is also available

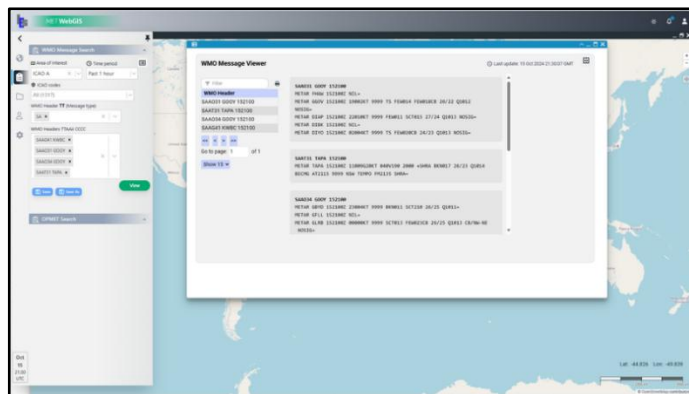


SYSTEM MONITORING

Designed to give you complete visibility into the performance, monitor certain metrics, detect anomalies, and receive real time alerts to address potential problems before they impact your operations

IWXXM MODEL

Supports new format of IWXXM introduced by ICAO and made available on the SADIS and WIFS dissemination service. Our system handles seamlessly the decoding, ingest and display of the new format alongside the TAC (Tradition Alphanumeric Code) form of data.



INFRASTRUCTURE

Clients have two options to choose from regarding their system configuration:

Local: The customer hosts the server and manages the data locally on the premises.

SaaS: Subscribes to a monthly service hosted in the cloud

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