

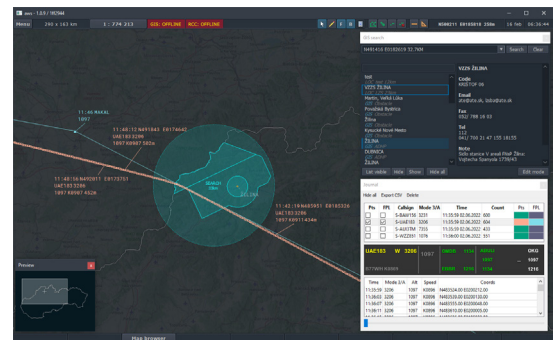
ICZ LETVIS[®] - AWS Aircraft Watching System

ICZ LETVIS AWS is a powerful tool designed to cater to the needs of Search and Rescue (SAR) center personnel. AWS stands for Aircraft Watching System for SAR, providing users with the capability to visualize and analyze a comprehensive log of flight data, including historical flight paths along with pertinent attributes such as altitude, squawk code, and more.

For SAR operation analysis and coordination, AWS offers an extensive array of features. Users can leverage a map interface and a Geographic Information System (GIS) database encompassing various objects, locations, landmarks, rescue assets, aviation clubs, and more. This robust platform empowers SAR professionals with the tools they need to conduct thorough analyses, make informed decisions, and efficiently coordinate search and rescue operations.

Basic configuration of AWS system consists of ICZ LETVIS AWS position in conjunction with this ICZ LETVIS CWS position, which, through connection to the rest of the ICZ LETVIS system, receives surveillance, planning and complementary information. The system is customized in compliance with the local SAR requirements and procedures.

ICZ LETVIS AWS



[FLIGHT LOGS]

The ICZ LETVIS AWS is a powerful workstation designed for search and rescue (SAR) operations, offering advanced capabilities for flight log visualization and analysis. Its primary function is to display flight logs, providing historical flight positions with associated attributes at specific times. Users can analyze these logs by visualizing points on a map overlay in the main application window or in tabular form. Each point can display detailed information such as altitude, speed, squawk code, and other available attributes at the given time.

[DATA SOURCE]

The application receives flight logs from the ICZ LETVIS CWS workstation, either from current or archived data. Users can also save or load these logs from a file for further analysis.

[MAP OPTIONS]

For analysis, users have access to vector, raster, or tiled maps. Additionally, a local and global GIS database containing maps,

waypoints, rescue points, aviation clubs, and more is available. Users can search this database and display results in the main window.

[ANALYTICAL TOOLS]

The ICZ LETVIS AWS provides various tools for measurement, including distance, perimeter, and polygon area measurement. Users can calculate the estimated search area based on a specified trajectory and utilize the integrated map editor to mark significant points, areas, or other elements.

[REPORTING]

From this analysis, users can generate reports in the form of images, print outputs, or CSV files. These reports can then be sent to relevant units involved in search and rescue operations via an email client.

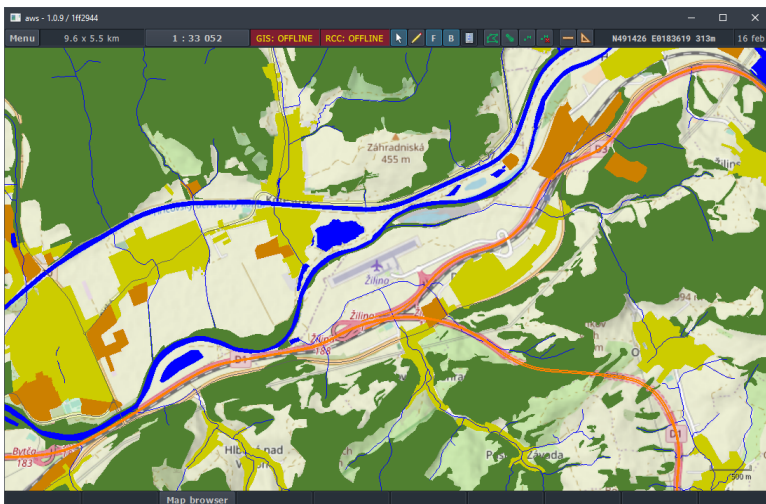
[ICZ LETVIS® - AWS]

[GIS CAPABILITIES]

- Vector maps in proprietary AGM or Shapefile format, with possibility to define custom styles
- Raster maps as TIFF images, with on the fly transformation to a target projection
- Tile maps, either as local files in MBTILES format or as a remote service accessible through HTTP
- Global (remote) GIS database, accessible through HTTP. Users can search this database by keywords or a geographic area
- Local GIS database, which can be modified directly in the application. Users can search this database by keywords, geographic area or by proximity to an arbitrary point

[SYSTEM CONFIGURATION]

- ICZ LETVIS AWS – as the primary tool of a SAR operator to conduct the analysis
- ICZ LETVIS CWS – as a position connected to the ICZ LETVIS system which receives surveillance, planning and complementary data in real time
- ICZ LETVIS METEO – processing and fusion of meteorological data into images
- AFTN - standalone or integrated AFTN terminal
- ICZ LETVIS ARCH – synchronized voice, data and screen recording of ICZ LETVIS workstations (depending on the site configuration)
- Optional equipment: Consoles for operators



[REFERENCES]

ICZ LETVIS SAR has been operating in the Czech Integrated Air Navigation Services centre, located in Prague, since 1999, in the Slovak Rescue coordination centre, located in Bratislava, since 2001 and in the Slovak Air Force.

The Slovak Rescue Coordination Center, based in Bratislava, was modernized in 2012. In 2023, ALES updated the original application, changed its name to AWS, and improved its functionality and user interface. ICZ LETVIS AWS was successfully deployed at the Air Navigation Services of the Slovak Republic in Bratislava.

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