

AIR TRAFFIC

# AVITECH - WEB-BASED AERONAUTICAL INFORMATION SERVICES

Flight planning made easier



- Supports the planning, creation and filing of flight plans anywhere
- Ensures ICAO compliant flight plans, NOTAMs and pre-flight briefings
- Reduces the workload of pilots and the Aerodrome Reporting and NOTAM Offices
- User-friendly template management for regularly operated flights, aircraft and routes
- Seamless MHS addressing and distribution of flight plans
- Paperless NOTAM proposals validated with static data
- Allows the graphical GIS visualization of relevant NOTAM information related to the flight

## Introduction

Designed for pilots and flight plan dispatchers, Avitech Web-Based Aeronautical Information Services (WEB AIS) makes it easier than ever to swiftly create flight plans. Seamless generation of Pre-Flight Information Bulletins (PIBs) featuring weather forecasts, charts, current NOTAMs and much more – all in a beautifully designed desktop experience accessible through your web browser.

Explore the visual creation of flight plans enhanced with geospatial data like waypoints, airways, aerodromes and other relevant data.

## Features

- Flight Planning
- Template Management for flights, aircrafts and routes
- Flight Message Approval Workflow
- NOTAM Proposal Submission
- Pre-Flight Information Bulletin
- Graphical GIS Visualization of NOTAM and Flight Plan routes

## Detailed Product Description

### Flight Planning

Avitech WEB AIS supports the creation and submission of flight plans (FPLs) based on an ICAO compliant model. All fields are enabled for auto-completion, validation and, where needed, support from the underlying Avitech Central Aeronautical Database. Routes can be created and modified visually by overlaying a GIS system that visualizes static data directly from the aeronautical database; routes can also be entered in the traditional textual form and can be graphically visualized at any point. Flight Plan Templates can be created and stored on a user basis for subsequent reuse. Previously submitted flight plans can be checked for status and if necessary, edited and re-submitted to avoid subsequent rejection.

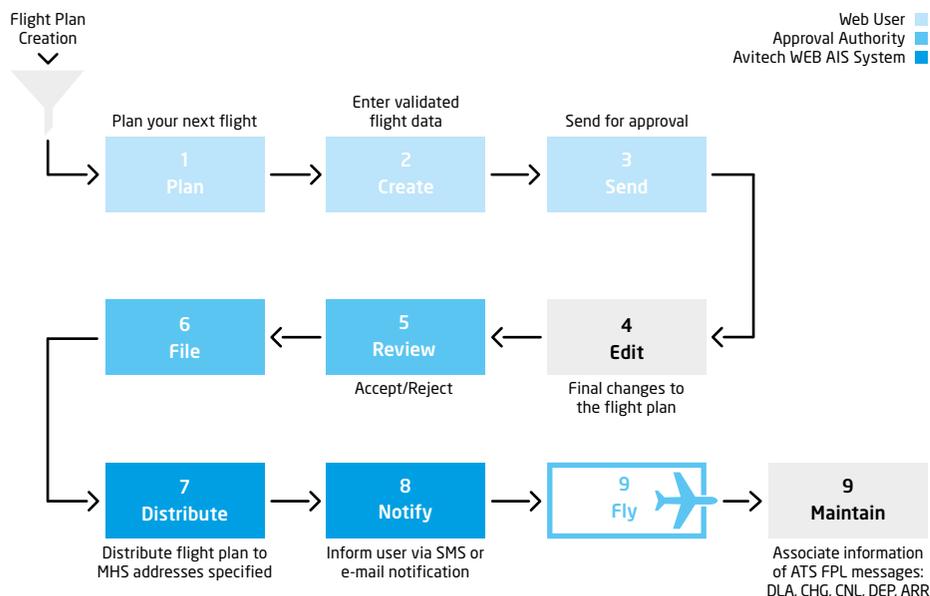


Registered Avitech WEB AIS users stay informed about changes made to their flight plans, such as Air Traffic Services (ATS) message approval, either via SMS Text-Message to the mobile phone world-wide or by e-mail to a registered e-mail account. Such notification selections are made available to the users during creation of their flight plans.

### Template Management for flights, aircraft and routes

The capability to create and edit aircraft profiles including codes and assistance for flight plan creation serves to relieve the user from unnecessary time consuming tasks. For all pilots and flight plan dispatchers dealing with recurring flight plans, the Avitech WEB AIS provides the ability to store and reuse FPLs, reducing to a minimum the workload required to create/file a flight plan. Profiles are automatically synchronized with mobile devices such as smart phones and tablets.

## Workflow Flight Message Approval



Note: The system is also configurable to allow organisations the direct filing of the flight plan

### Flight Message Approval Workflow

The aim of Air Navigation Service Providers (ANSPs) and their flight data processing systems is to provide optimised and efficient air navigation services in order to guarantee the safe transport of passengers and cargo throughout their airspaces. Avitech WEB AIS solution works in conjunction with Avitech Central Aeronautical Database, in order to provide all the needed tools to map this use case.

Regulations demand that all ATS messages created by WEB AIS users must be reviewed and either approved or rejected by the approval authority (e.g. ARO) before they are distributed via an Aeronautical Telecommunication Network. Avitech WEB AIS users are constantly notified about the status of their filed ATS messages, reducing the expenses and time required to create/file and distribute electronic flight plans.

## Detailed Product Description

### NOTAM

A notice to airmen (NOTAM), per definition, is a notification distributed by means of telecommunication which contains information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to personnel and systems concerned with flight operations.

NOTAMs are issued by national authorities for a number of reasons to alert aircraft pilots of potential hazards along a flight route or at a location that could affect the safety of the flight.

In our modern, digital world, national authorities still make extensive use of paper forms to release new NOTAMs, increasing the manual effort and the number of error sources, thus making the process unnecessarily expensive.



Avitech's WEB AIS solution provides authorized users with the capability to create NOTAM proposals and transmit them digitally to the national authorities for approval without the need of printed paper forms. NOTAM proposal originators can use their User ID to check their NOTAM for correctness and approval. Using a web-based NOTAM proposal form increases the quality of the NOTAM, automatically validating it against static and basic data, decreasing the effort for national NOTAM offices while increasing safety.

### Pre-Flight Information Bulletin

A Pre-Flight Information Bulletin (PIB) represents all up-to-date information of operational significance prior to the flight, like NOTAM, METAR/TAF and Charts. A PIB is made available either online as HTML or offline as PDF document for posterior reading and printing.



The Avitech WEB AIS solution produces several different types of PIBs:

- **Aerodrome Briefing**  
Contains information on facilities, services and procedures related to aerodromes and their vicinity.
- **Normal Route Briefing**  
In addition to an Aerodrome Briefing, information related to Flight Information Regions (FIRs) is also included.
- **Narrow Route Briefing**  
Contains information only pertaining to a narrow path defined by route description, flight level, width of the path and radius around aerodromes.
- **Special Area Briefing**  
Contains information related to Flight Information Regions and aerodromes situated in selected FIRs. A Special Area Briefing can be restricted to a special area defined by a combination of restricted airspaces, circles with centre point and radius, and polygons within the FIRs selected.

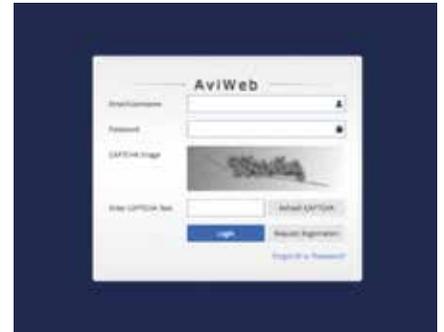


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### Authentication/Authorization

Authentication is the mechanism used to verify the identity of the web application users. The Avitech WEB AIS solution typically assigns a user name and password to a user or allows visitors to anonymously access public content of the web application (e.g. news, documentation). It is possible to set up an approval workflow for the user registration (easily carried out by the user himself by simply providing required data such as e-mail address, name and pilot license number). New user accounts need to be approved by an administrator prior to use.

Besides utilizing means of authentication to confirm the identity of a user, the Avitech WEB AIS additionally uses customisable authorization to control user access to the different areas and features of the web application. User access control privileges are either based on individual permissions (e.g. to create a flight plan), or based on roles defined by an administrator in order to ease the configuration of users and access rights.



## Conformance Statement

All features provided strictly adhere to the ICAO rules of Air Navigation Services outlined in the following ICAO Documents: Doc 4444, Amendment 1, Annex 15 (Aeronautical Information Services) and Doc 8126.

## Compliance

The Avitech WEB AIS solution is fully aligned with ICAO Aviation System Block Upgrades (ASBUs): Compliance with Block 0 & Block 1 and paving the way to Blocks 2 & 3.



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