

# Aeronautical Billing (ATRAK-AB)

## The Smart Solution for Automated Aeronautical Billing

### Introduction

In today's fast-paced aviation environment, efficient and accurate billing is critical for the smooth operation of airports, air navigation service providers (ANSPs), and airlines. The ATRAK-AB system is designed to streamline and automate the aeronautical billing process, addressing the key challenges faced by industry stakeholders in managing complex billing workflows.

### Background

#### Inefficiencies in Billing:

Many airports, ANSPs, and airlines still rely on manual billing, which leads to errors, delays, and increased operational costs—ultimately affecting revenue and customer satisfaction.

#### Compliance Challenges:

Ensuring adherence to international regulations, such as those from ICAO and EUROCONTROL, is difficult without automation. Manual processes delay accurate charge application and reporting, increasing the risk of non-compliance.

#### Operational Strain:

As air traffic grows, managing billing manually becomes unsustainable. This causes delays in invoicing, poor cash flow, and potential disputes—highlighting the need for a fully automated system.

### Solution

The ATRAK-AB system automates the entire aeronautical billing process for airports, ANSPs, and airlines. It features an intuitive, web-based interface that simplifies complex workflows, automatically calculates and applies charges based on real-time data, and ensures accuracy across all billing transactions.

In addition to streamlined invoicing, ATRAK ensures compliance with international standards (e.g., ICAO, EUROCONTROL) by automatically applying regulatory fees. It integrates seamlessly with operational systems, providing clear visibility on charges, payments, and service usage.

The system supports real-time reporting and audit trails, generating detailed invoices and transmitting them automatically to relevant institutions, enhancing efficiency and reducing the risk of billing errors or disputes.

### Benefits

#### › Increased Billing Efficiency:

Automation significantly reduces manual effort and errors, streamlining operations.

#### › Faster Payment Cycles:

Real-time integration and automated invoicing accelerate revenue collection and cash flow.

#### › Reduced Administrative Workload:

Staff can focus on higher-value tasks while the system handles routine billing processes.

#### › Proactive Dispute Resolution:

Real-time reporting and audit logs enable quick resolution of discrepancies, reducing delays.

#### › Scenario Modeling:

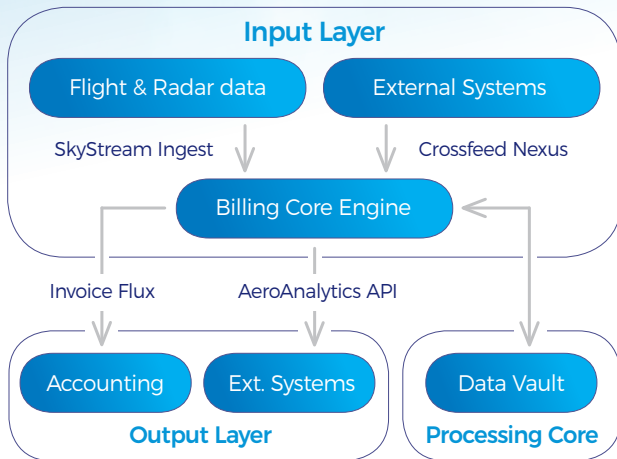
Built-in modeling tools allow users to analyze the impact of new or changing charge policies.

### Results

- › Up to +25% revenue growth through improved billing accuracy and operational efficiency.
- › Accelerated invoicing and better-managed cash flow.
- › Fewer discrepancies, improving transparency and trust with stakeholders.

## HOW DOES IT WORK?

### Solution Components: ATRAK BI System Environment



#### ATRAK-AB Architecture

- › Deployed on-premises with two redundant servers to ensure high availability.
- › Can also be virtualized, cloud-hosted, or offered as a SaaS solution.

### System Modules

#### Input Gateways

- › **SkyStream Ingest:** Integrates radar and flight plan data.
- › **CRCO Harmonizer:** Interfaces with EUROCONTROL.
- › **Crossfeed Nexus:** Connects with external sources.

#### Billing Core

- › Central server processing module.
- › Manages charge logic, scenario modeling, and invoice generation.

#### Output Gateways

- › **Invoice Flux:** Generates final invoices.
- › **Ledger Sync:** Exports accounting entries.
- › **AeroAnalytics API:** Offers statistical reports and dashboards.
- › **Interop Bridge:** Connects with external financial or ERP systems.

#### Automated Invoicing

- › Generates accurate invoices automatically.
- › Handles surcharges, rebates, and exemptions (e.g., state flights, training flights).
- › Identifies all flights subject to billing, including those typically exempt.

#### User Interface (UI)

- › Modern, **web-based interface** designed for ease of use.
- › Requires minimal training for operators.

#### Message Transmission to Partner Institutions

- › Sends structured data to EUROCONTROL, IATA, or others, in compliance with pre-defined formats and timelines.

#### Revenue Generation

- › Enhances financial performance by optimizing cash flow and reducing administrative overhead.

### Case Study: Georgia

Before implementing ATRAK-AB, the Georgian Air Navigation Service Provider relied on an aging, partially manual billing solution that created frequent delays and disputes. The legacy system was no longer maintainable or modifiable, leading to high staff workloads and missed invoicing opportunities.

#### By deploying ATRAK-AB:

- › The system now **processes up to 3,000 flights per day**, fully aligned with the regional traffic volume.
- › All flights subject to invoicing are now automatically detected and invoiced on time.
- › Discounts and surcharges, including customer-specific conditions, are automatically applied.
- › Manual extraction and transformation of flight data have been **eliminated** thanks to automated inputs from surveillance and planning sources.
- › Data transmission to **EUROCONTROL CRCO** is fully automated, compliant, and streamlined.
- › Administrative workload has dropped significantly, enabling better focus on quality control and strategic planning.

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