ATRAK

A COMPANY PROFILE

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ATRAK is an organisation with extensive experience in providing solutions for the Aviation Industry for over 30 years.

Working with Aviation partners, in particular with Air Navigations Service Providers and Airports, ATRAK has delivered the Air Traffic Management, Air Traffic Control, and Air Transport industry certified solutions and services, ranging from mission-critical to business management systems.

ATRAK headquarters is based in Prague, Czech Republic and comprise a team of dedicated technical industry experts and consultants, working in partnership and collaboration with their customers to ensure their needs are fully met.

We obtained the ISO 9001 and ISO 27001 certificates. Our systems are developed according to ISO 12207, (ES) 482/2008 and (EU) 2018/1139. Our ISO and CAA certification enables us to supply products and services to the aviation Industry.

ATRAK have been developing and implementing ATRAK Systems for all areas of ANSPs and Airports. ATRAK's focus is now centered on its flagship systems:

› **ATRAK – AB**   (Aeronautical Billing)
› **ATRAK – BPM** (Aeronautical Business Planning and Modelling)
› **ATRAK – AS**   (Aeronautical Statistics)
› **ATRAK – AIM**   (Aeronautical Information Management)

ATRAK-AB, ATRAK-BPM and ATRAK-AS systems deliver tangible business benefits immediately, have been designed to target focused business functions and requirements, and allow ANSPs and Airports to target their core business using CDM and SWIM concepts, maximizing the return on their capital investment.

ATRAK-AIM is the next generation AIM system, developed in line with ICAO's roadmap for transition from AIS to AIM, enabling safe and efficient global aeronautical information management that supports digital, real-time, CAA-accredited and secure data management.

All of ATRAK's solutions are fully flexible, scalable, modular, and secure.

AERONAUTICAL BILLING

Aeronautical Billing provides the only proven fully integrated solution for Air Navigation Service Providers and Airports, delivering a cost effective and powerful billing and revenue management solution.

The ATRAK-AB system is the culmination of many years of development and collaboration with Air Navigation Service Providers, working within the aviation industry, and fully understanding the technical and financial constraints.
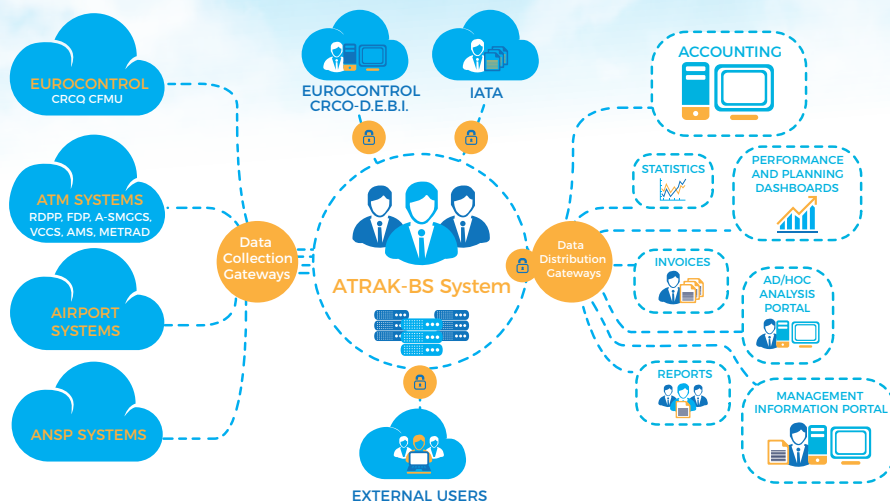
The result is a system that is cost-effective, highly scalable, which increases efficiency and productivity by significantly improving cash-flow through the automated generation of highly accurate invoicing of flights and services. ATRAK-AB is fully compliant with Eurocontrol Central Route Charges Office (CRCO) and IATA collection service.

Billing

Designed by flight charging financial experts. ATRAK–AB is a fully automated billing system for ANSPs, Airports and Airlines, that collects and processes data from surveillance, airports, and flight data processing systems to name just a few data sources. The calculation of the amounts to be actually invoiced is performed by a flexible rule engine. The engine enables the handling of customer specific conditions such as rebates or surcharges.

It is the only proven integrated system that is able to receive flight plan data from any ATM / ATC provider. Through stringent processing and powerful reporting tools business decisions can be accelerated. This automation leads to improved staff productivity and efficiency, accurate invoicing and a significant reduction in the billing cycle and invoice queries.

ACCOUNTING

EUROCONTROL
CRCQ CFMU

EUROCONTROL
CRCO-D.E.B.I.

IATA

STATISTICS

PERFORMANCE
AND PLANNING
DASHBOARDS

ATM SYSTEMS
RDPP, FDP, A-SMGCS,
VCCS, AMS, METRAD

Data
Collection
Gateways

Data
Distribution
Gateways

INVOICES

AIRPORT
SYSTEMS

ATRAK-BS System

AD/HOC
ANALYSIS
PORTAL

REPORTS

ANSP SYSTEMS

MANAGEMENT
INFORMATION PORTAL

EXTERNAL USERS

Improved cash flow through expedient charging & collection of fees by:

› Automated data collection process results in higher invoice accuracy and timely collection of revenue
› Multilevel data validation and security flexible charging policies
› Full multicurrency support
› Certified data exchange protocols and format with external agencies such as Eurocontrol, IATA.

ATRAK–AB solution enables ANSPs and airports to achieve improved cash flow through expedient charging & collection of fees by:

› Automated data collection process from any ATC / ATM provider results in higher invoice accuracy and timely collection of revenue
› Multilevel data validation
› Flexible charging policies
› Interface to transfer of invoices to a financial accounting system

Rapid creation of invoices by:

› Automated import of flight and associated data results in higher invoice validation and accuracy
› Invoice more frequently and more accurately; realise your revenues earlier and reduce clearing efforts
› Real time access to flight data

AERONAUTICAL BUSINESS PLANNING AND MODELLING

Business Planning and Modelling is an innovative product that enables organisations across the aviation industry to make the best business decisions driven by operational and financial data.

Business Planning and Modelling enables organisations and executives from the whole aviation industry, particularly ANSPs, Airports, and Airlines to make the best business decisions driven by operational data real data. Our solutions support a full range of analytic functionality, from business dashboards to sophisticated statistical analysis.

The key areas which affect the business of ANSPs, Airports and Airlines:

Quality of Service
› Encourage the growth of a closer business control over revenues and expenses
› Responsive Quicker decisions and more responsive actions, (and good governance), thereby increasing efficiency and improving the quality of services

Productivity
› Management of operational and financial benchmarking
› Measuring performance and productivity, service level agreements
› Economic pricing, collection of charges and management of ancillary activities

Cost Effectiveness
› Forecast aviation and air navigation business activities
› Management of expenditure and/or air navigation services charges
› Changing institutional arrangements
› Changes in costs (salaries, operating expenses)
› Income; and operating result (as measured by the difference between forecast revenues and costs)
› Risk and safety management

Benefits of ATRAK-BPM Solution

› **Improve** transparency of a performance management process
› **Provide** insight into opportunities for improvements in the performance (learning opportunities, setting performance targets) of individual ANSPs, Airports and Airlines
› **Highlight** best practices for delivering improvements in performance through the identification of highly efficient or high-quality service facilities and/or processes
› **Support** more effective regional coordination and planning, thereby rationalising and avoiding duplication of efforts
› **Support** constructive dialogue with users and other interested parties
› **Provide** global reach to expand the knowledge base
› **Allows** ANSPs, Airports and Airlines to contribute successfully to research and discussions currently held by industry bodies such as ICAO, CANSO with data related to performance measurement, benchmarking, and key performance indicators, which will allow future global performance-based targets to be accurately set.

AERONAUTICAL STATISTICS

Operational analytics and planning are key in the current European airspace, since the Single European Sky scheme requires the tracking and reporting of several KPIs from Aeronautical Navigation Service Providers (ANSP) to Eurocontrol (EU commission 390/2013). Furthermore with a 2.8% increase in European flights in 2019 resulting in ever more crowded airspace, managing the traffic efficiently require new tools to enhance the operations of ANSP, to perform them: safely, ecologically and efficiently.

The ANSPs generate and receive a substantial amount of data every day. For example, ATRAK is processing circa 20 million records per day in the Czech Republic FIR alone.

By exploring operational data, ANSP can:

› Get a concise picture from the vast amount of operational data and
  to benchmark decisions
› Enhance operational insights drawn from the data by merging it with other sources
› Investigate what occurs in the network and which areas can be improved
› Assess the effects of future decisions and forecast evolutions of the operations

Our operational statistics integrate System Wide Information Management (SWIM) concept for strengthened business operations.

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Operations ─┐
Finance ────┤
AIS/AIM ────┼──→  Analytics
Additionnal ┘
  sources
```

› Exetucive
› ATCO
› Financial department
› Operational planning
› Marketing
› Stakeholders

Benefits

› Accessible locally and globally
› Secured access
› Integrated into ATCO systems
› Customizable solution
› Data forecasting
› GDPR compliant
› Language support
› For all platforms (desktop or mobile)

AERONAUTICAL INFORMATION MANAGEMENT

Aeronautical Information Management (AIM) is designed in line with ICAO's roadmap for transition from AIS to AIM. Today primarily represents evolving from the classical AIS organisational model to a SWIM compliant AIM performance-driven model in terms of organisation, workflow, data structures, electronic data provision and data exchange by using standard and commonly used data formats.

The key features of the system are:

› Digital – ICAO compliant message templates for message creation. Information is provided in an adequate digital format thereby facilitating the manipulation, management, dissemination and graphical rendering of the information.
› Integratable – information is based upon open standards that provide global definitions for information domains, information models, information exchange.
› Graphical – Geographical visualisation of NOTAMS, FPLs and PIBs. Information is readily and graphically displayable which helps to increase the operational usability and potentially the ability to more readily spot quality issues.
› Seamless – On-demand generation of Narrow Route, Standard Route, Aerodrome, and FIR Pre-flight Information Bulletins (PIBs). Supports System Wide Information Management thereby barriers between different systems are removed through common interfaces.
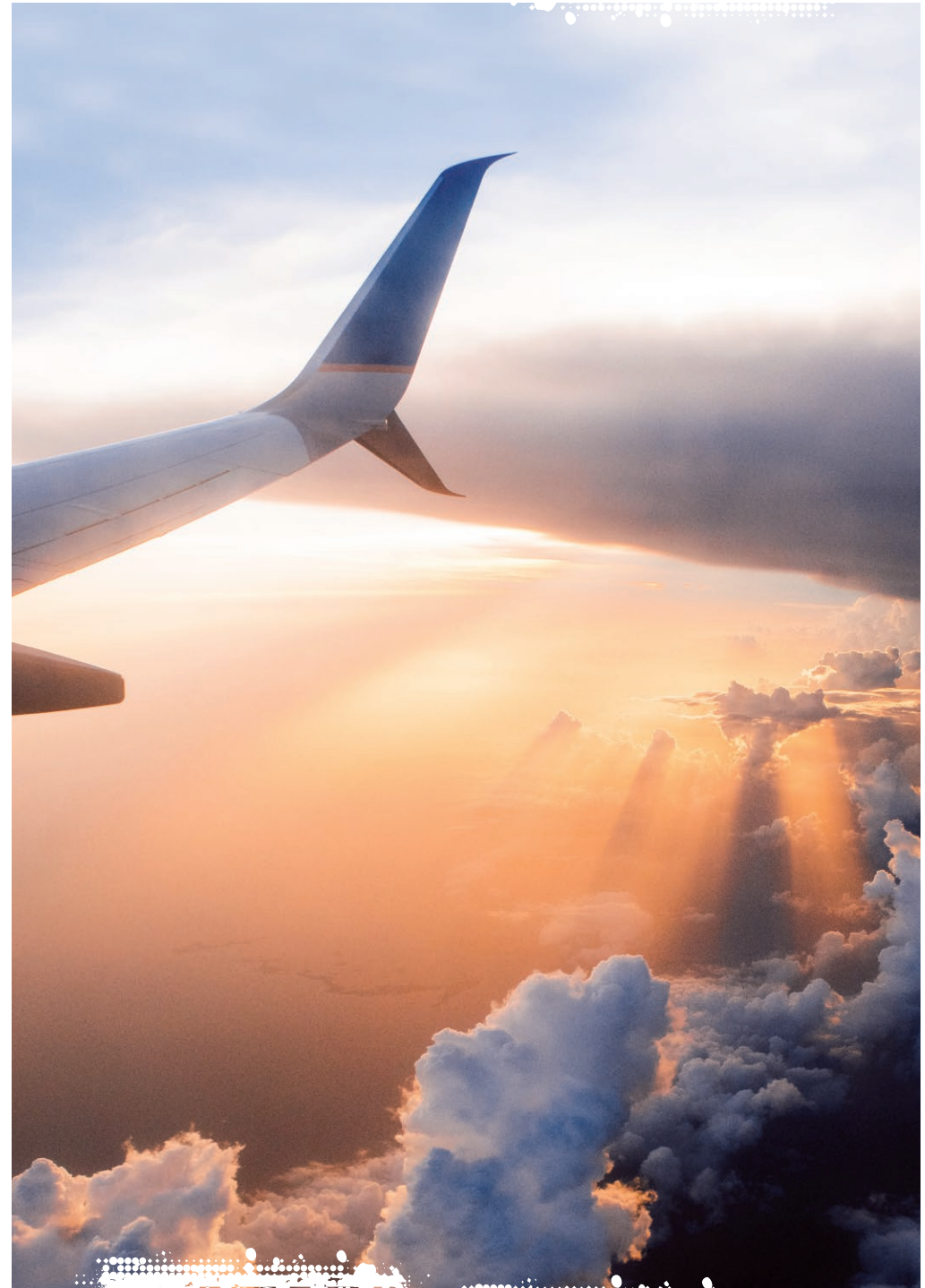
› Discoverable – Powerful message search and reporting capabilities. Information can be searched and filtered using geographic information for location-based filtering, and semantic filter for keyword-based filtering, and thereby help identify its relevance to a current or projected (i.e., in the future) operational situation
› Accessible – Information is made available to all authenticated end users through standard compliant syntactic and semantic message checks, and distribute information to accommodate each end user's needs.
› Traceable – origin of every piece of information can be determined thereby permitting an assessment of, for example, the quality and reliability of information and whether it is from an accredited data source.
› Support for the FPL 2012 format with an easy-to-use web interface.
› Fully Redundant and Highly available infrastructure

Benefits

› A modular set of applications ensure a customised and future-proofed solution based on international standards
› The solution is built to fit in to the Air Traffic Management environment
› Reduced life cycle cost and less maintenance cost due to longer life time support and less different vendors
› Reduction of potential operational difficulties and issues when migrating from AIS to AIM with expert support
› High scalability - remote clients, national AIM solutions and regional AIM hubs
› Full support over the whole project phase including implementation, training and data migration
› Aeronautical data and information complies with international standards and exchange formats
› Increase in trust in the information user community
› Measurement and analysis of ATC controller's time spent at Controller Working Position
› Ensures legitimacy and reliability of the information by being traceable to the data originators
› Improved safety, increased efficiency and greater cost-effectiveness overall to the air navigation services providers

ΛTRΛK

CZECH REPUBLIC OFFICE

Aviaticka 6/1039
160 08 Praha 6
Czech Republic
Tel: +42 (0)220 372 371
Fax: +42(0)220 372 319
Email: info@atrak.cz

tayllorcox
ISO 9001
Quality Management

tayllorcox
ISO 27001
Information Security
Management

ÚŘAD PRO CIVILNÍ LETECTVÍ

člen
member of | **CSG**
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