



ATRAK SUITE – Functional Overview

Ifield Computer Consultancy Limited (ICC), a LAIC group company have been system developers and service providers to the Air Traffic Control industry for over 20 years with technical specialists based in the UK and Europe.

ICC has developed a number of key ATC solutions, front end systems for Executive, Planning Control, Information Management, and Radar Fallback and back-office solutions for accounts, human resources and billing and statistics.

ICC's primary product is the **ATRAK**® suite of ATC solutions and is an integral part of the air traffic and planning controllers' role in air traffic management. ATRAK can be configured to run in a number of different modes including:-

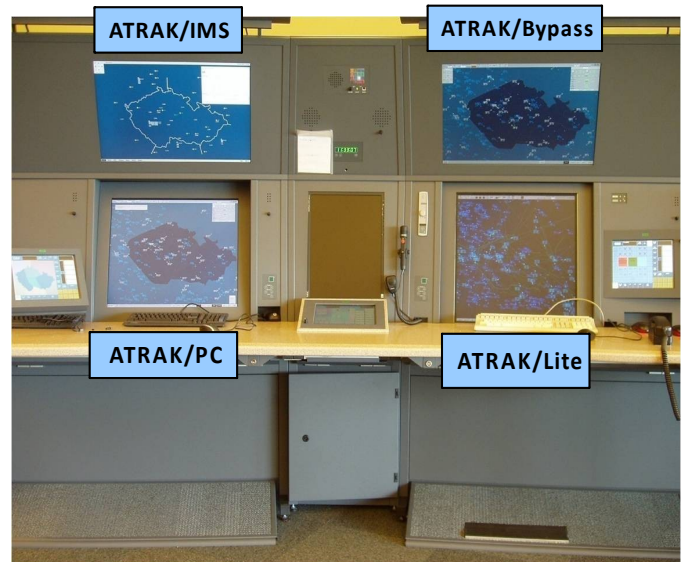
- Executive Control & Planning Control
- Radar Fallback
- Information Management
- Flight Briefing
- Billing & Statistics
- Simulation
- ATC Data Recording

The ATRAK suite presents a user defined graphical display Human Machine Interface (HMI) and textual information to the air traffic and planning controllers work position.

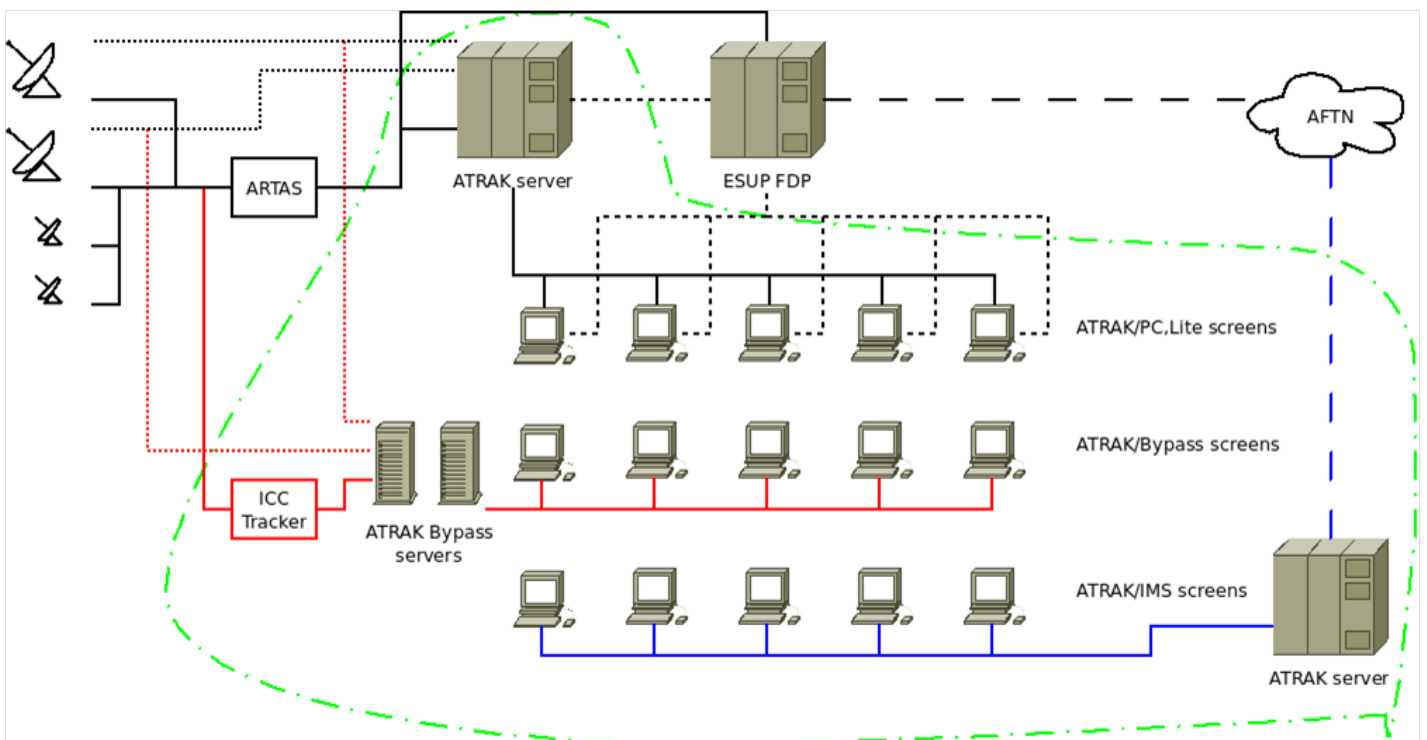
ICC can provide ATRAK as a complete turnkey solution encompassing all the key components for operation including, Application software, Server hardware, Controller Work Position (Workstation and Display), configuration, installation and ongoing support.

ATRAK is a scalable solutions to suit a wide range of operations, from major control centres to airports with lower volume of air traffic flow.

TYPICAL ATRAK WORKSTATION LAYOUT



SAMPLE SYSTEM ARCHITECTURE



Technical Specification

Functional Overview

ATRAK- EC/PC and ATRAK-BYPASS - Executive, Planning and Radar Fallback Systems are certified to route air traffic by the Czech Civil Aviation Authority and consists of: -

Executive, Radar Fallback display:

The ATRAK system can be used as a fully functional ATC executive system or as a fall-back system alongside 3rd party executive systems.

Planning controller display:

- Radar track data from ARTAS/ EuroCat 2000/ MSSR
- Flight plan data from FDP systems
- Radar weather information such as VAISALA/MIDAS 600
- "EFDM" Electronic Flight Data Management full electronic "paperless strips" functional block environment encompassing:
 - electronic label
 - tabular flight display
 - Aircraft position and movement display functions in case of main system failure

ATRAK-FLT/BRIEF – flight briefing system provides the following functionality:-

- Communicating with CFMU, Eurocontrol
- Flight Plan Entry
- AFTN Addresses
- Other Messages
- Viewing status of sent Messages
- Flight Information
- Flight Display

ATRAK Billing and Statistics system generates billing and statistical output for ANSP's. A number of reports that can be viewed on screen or printed, such as: -

- Selected Flight Report
- Detailed Flights Report
- Invoicing

Graphs output produced can be in multiple formats such as: -

- Simple Bar
- Pie
- Clustered Bar
- Stacked Bar
- Multiline
- 3D Bar

ATRAK-SIMU simulation system components include:-

- **Exercise Control Server** - sets exercise scenarios
- **Radar server** – simulate operational radar
- **Auxiliary Data Feeder** – distribution of data

The Exercise Server provides virtual time and separation of positions into groups.

The Radar server runs as one instance for each group.

The Auxiliary Data Feeder - handles distribution of three data types:-

- **AWOS** (Airport Weather Observation System)
- **CLOUDS** (Significant clouds data)
- **IMS** data

ATRAK-IMS Information Management System - provides key information in aspects of Air Traffic Operation and propagates the core areas of: -

APPROACH (APP) & TOWER (TWR)

Providing information such as: -

- Arrival / Departure Rules/Standard Information Departure
- Terminal area information on Aerodrome
- Local Traffic and movement area
- Notams / Snowtams
- Weather conditions/ APP Emergency information

AREA CONTROL CENTRE (ACC)

- Notams/ Snowtams
- Meteo Information - Radar/Satellite/Multi-view
- FIR information
- Emergency Procedures.

ATRAK-Xrecorder ATC Data Recording System – provides a complete recording and replay system for ATC controller working positions. Main features include: -

- Arbitrary start/stop of recording
- Ability to record to disk or tape
- Ability to generate files with recorded snapshots
- Replay at different speeds and from several session points
- Pause/Resume capability during replay
- Graphical user interface (GUI) for replay modes

ICC have been delivering safe, reliable, mission critical ATC solutions and services for over 20 years. For more information please contact us.



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