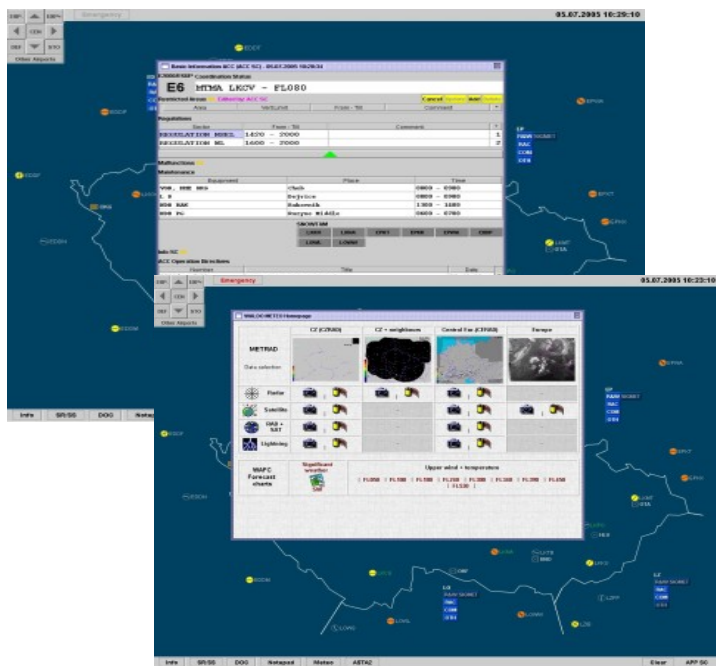




ATRAK-IMS – Information Management System



The ATRAK-IMS workstation comprises of a dual processor system supporting the ATRAK digital video interface and ATRAK digital ATC displays. ATRAK-IMS uses an ATRAK web and database server to supply airport and FIR information (Meteo, NOTAMs etc.), emergency procedures etc. The location of the web server can be configured as required.

The display keyboard and mouse is extended to operate remotely from the workstation via the ATRAK DeskTender ensuring total security and system integrity of the workstations and servers that are housed in dedicated server racks away from the control rooms.

Designed with in-built flexibility ATRAK allows the user to add additional information and functionality. ATRAK works in union with the other systems, such as Thales' Eurocat 2000, as well as the other ATRAK modes of operation such as Executive, Radar Bypass & Planning Control.

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.

The **ATRAK-IMS**® System is a key repository of data that simultaneously provides the ATC Planning Controller with dynamic status information in air traffic control, and static data such as contacts, emergency procedures and more. Through a user defined graphical display HMI (Human Machine Interface) ATRAK meets the user needs of the Air Traffic and Planning Controller.

The system is able to deliver valuable information to the ATC Planning Controller with industry standard interfaces that take multiple feeds of information into the system such as Airport (ACC), Approach (APP) or Tower (TWR) feeds. The ATRAK-IMS system comprises two core elements for operation:-

- **Workstation**
- **Web and Database Server**



ATRAK

ICC's information display processing suite of ATC/ATM applications - delivering quality solutions as an integral part of air traffic control and management.

Technical Specification

Main Functionality

The ATRAK-IMS solution comprises a number of key components:-

The key features of the information system include:-

- Map overview showing airports, locations and Radio Navigation Equipment Sites
- Static and dynamic information such as Notams/ Snowtams
- Multi-view Meteorological Information from Radar/Satellite sources
- SunRise/SunSet timings
- Emergency Procedures
- Search and Rescue facility on aircraft type, locations and operators from ICAO/AIP documents.
- Flight data information showing Arrivals/Departures/Airborne status
- Detailed Event Logging facility

Dedicated Information Screen showing detailed and summary information specifically for: -

- Senior ATC Controller
- Watch Supervisor
- ATC Controller
- Military sites

The system can provide information on all airports within the designated country and bordering regions.



System Specification

Web & Database Server

The ATRAK-IMS database and webserver can be integrated within existing ATRAK power cluster servers or configured as separate systems dependant on processing power and memory availability for the considerable database and URL searches.

Workstation

ATRAK-EC/PC High Performance X-Display workstation comprising: -

- AIX Operating System
- Dual Processors
- Dual Ethernet Adapters, Dual Power supply units
- Rack mounted console, keyboard and mouse

ATRAK-IMS ATC display including: -

- 30-inch display (29.7-inch viewable)
- 2560 x 1600 optimal resolution
- 16.7 million colours
- DVI Display Connector

ATRAK-IMS Digital Video interface including: -

- 2560 x 1600 Resolution
- 8/16/24/32-Bits per pixel
- 64 MB Frame Buffer
- 32 Independent Overlays
- 2560 Dynamic Colours
- Single Slot PCI Card
- Transparency & Translucency
- 8+24 Bit Mode/8+8 Bit Mode

ATRAK-IMS Deskender digital extender including: -

- DVI (dual-link) supported to VESA standards
- Supports PS/2 or USB keyboard & mouse
- Extends up to 1000 meters over fibre

Software

Operating System software

- AIX UNIX

Application software

- ATRAK-IMS application software

Middleware & Database software

- Ice Browser software, ODS Toolbox
- Oracle, MS-SQL

Options

ATRAK-LITE

- Linux (RedHat) based platform
- Same functionality as ATRAK-IMS
- Utilises MS-SQL database software
- Designed for lower numbers of air traffic movements
- Cost effective alternative monitor options

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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