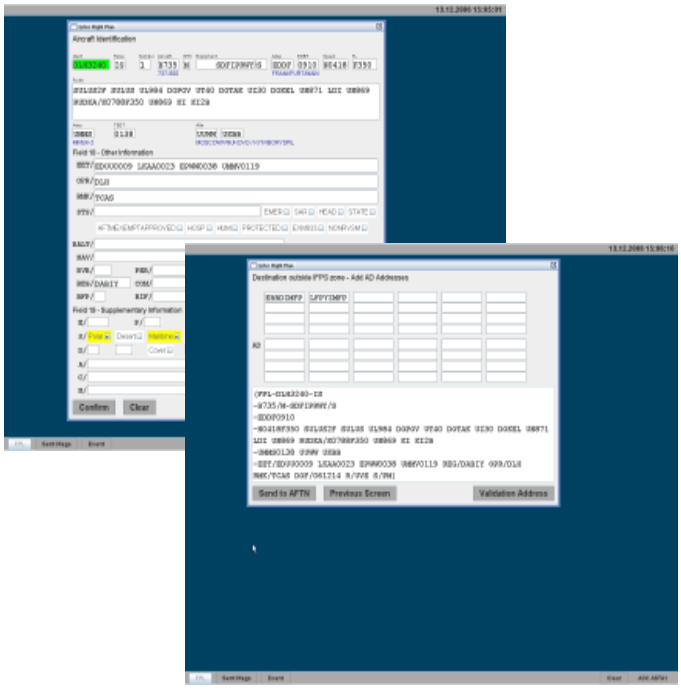
ICC

Specification Sheet

ATRAK-FLT-BRIEF – ATC Flight Briefing System



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-FLT/BRIEF®** system is a comprehensive flight plan information system that consists of 2 main parts: -

- Preparation of Flight Plans and communication with Central Flow Management Unit (CFMU) and Integrated Initial Flight Plan Processing System (IFPS), Eurocontrol.
- Flight Information System for Briefings Department and other Users

The first part is primarily for the sending of Flight Plans and other messages to CFMU. The second part is to provide information on flights, including slot information, to Aircraft Operators, Pilots etc.

ATRAK-FLT/BRIEF is a standalone system but can also be integrated and operated from within ATRAK-IMS. ATRAK-FLT/BRIEF comprises two core elements for operation:-

- Server
- Workstation

The ATRAK-FLT/BRIEF server provides the integration of core Flight Data Processing system (FDP) data that is processed in the background and is then delivered to the corresponding ATRAK-FLT/BRIEF workstation. The data is processed across multiple power processors in a high availability configuration and supported by disk storage arrays in raid sets to maintain maximum availability. The ATRAK-FLT/BRIEF server also supports the database software delivering the data to the ATRAK-FLT/BRIEF workstation.

The ATRAK-FLT/BRIEF workstation comprises of a dual processor system supporting the ATRAK digital video interface and ATRAK digital ATC displays. These are configured according to the specific requirements of the ATC workstation. 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.

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-FLT/BRIEF system provides the following functionality:-

Communicating with CFMU, Eurocontrol

- Various message types such as FPL (Flight Plan), DLA (Delay), CNL (Cancel Flight), DEP (Departure) and ARR (Arrival) can be entered into the system.
- The system will add AFTN Addresses automatically based on the departure and destination airports, checks the entered data, creates an AFTN message and then sends it to CFMU.
- The System also receives Slot messages from CFMU, and can send certain types of Slot messages to CFMU.

Flight Plan Entry

- Flight Plans are uniquely identified by the Date, Name, Departure Airport and Destination Airport. A Flight Plan is entered and validated.

AFTN Addresses

- After a message has been sent to CFMU, an Operational Reply Message (ORM) is sent back, there are 3 possibilities:
  - **ACK (Acknowledge/Accepted)**
  - **REJ (Rejection)**
  - **MAN (Manual)**

Other Messages

- Other message types can be entered - DLA (Delay), CHG (Change), CNL (Cancel Flight), DEP (Departure) and ARR (Arrival)

Viewing status of sent Messages

- The status of the last 20 or so sent (number to be specified) messages may be viewed.

Flight Information

- The ANSP provides information on flights, including slot information, to Aircraft Operators, Pilots etc. The flights can be from one or both of the following sources:
- Flights that had messages sent to CFMU from this system - Flight Plans
- Flights in the FDP database. These have come from Eurocontrol.

Flight Display

- ATRAK-FLT/BRIEF has a function to view flights. On selection of an individual flight, it will be possible to view its details, slot history, latest eobt etc.
- In addition, messages between this system and CFMU will be shown.

System Specification

Server

ATRAK-FLT/BRIEF Enterprise server comprising: -

- AIX Operating System
- Multi (4/8) Processors
- Dual Ethernet Adapters, Dual Power supply units
- Rack mounted console, keyboard and mouse
- ATRAK Raid array subsystem with ULTRA3 SCSI disk drives

The ATRAK-FLT/BRIEF database server can be integrated within the existing ATRAK power cluster or configured as a separate system dependant on processing power and memory requirements.

Workstation

ATRAK-FLT/BRIEF 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-FLT/BRIEF ATC display including: -

- 28.3" LCD Display - 2560 x 2048 resolution
- Software-Controllable Brightness And Contrast
- MOX-Compatible, Multi-Layered Display 30-inch display

ATRAK-FLT/BRIEF Digital Video interface including: -

- On-board Memory 64 MB
- Colour Lookup Tables
- PCI Interface 33/66 MHz 32/64-bit, Revision 2.2
- Video Interface DVI

ATRAK-FLT/BRIEF Desktender 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

- LINUX (RedHat)

Application software

- ATRAK-FLT/BRIEF application software

Database software

- Oracle, MS-SQL

Options

- ATRAK-FLT/BRIEF can be run from within ATRAK-IMS

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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