

# PLANETA

## AIRSPACE MANAGEMENT AND FLIGHT DATA PROCESSING SYSTEM

PLANETA FDPS is an up-to-date system, which enables generation of single information space, and provides automation of airspace management for long-term, current and preliminary airspace use planning in ATC centers, aerodrome and airport systems.

### FUNCTIONALITIES

The system is designed for national airspace management centers, area and regional ATC centers, terminal and airport information systems, and provides the following functions:

- generation, receipt, transmission and storage of FPL data
- interaction with AFTN, AMHS networks, format-logical control of incoming messages
- automatic (according to incoming messages) and manual correction of flight plans
- automatic generation of messages (about flight plans amendments, and others)
- receipt of users applications for airspace use
- calculation of 4D trajectories based on flight plan data
- airspace structure and trajectories graphic display
- FPL information delivery to ATC system
- flight plan data amendments according to surveillance data delivered by ATC system
- analysis and alerts of predicted conflicts related to airspace restrictions
- analysis and alerts of capacity excess (for sector, route, point, aerodrome)
- medium-term conflicts detection and alert
- decision making support for air traffic flow management
- automatic interaction with adjacent centers and systems for flight plan and air navigation data
- statistic gathering for airspace use, generation of reports and output forms
- automatic generation of reports on actually executed flights
- storage of flight plans archives, incoming and outgoing messages for a specified period of time
- receipt of reference information of airports, airlines, aircraft

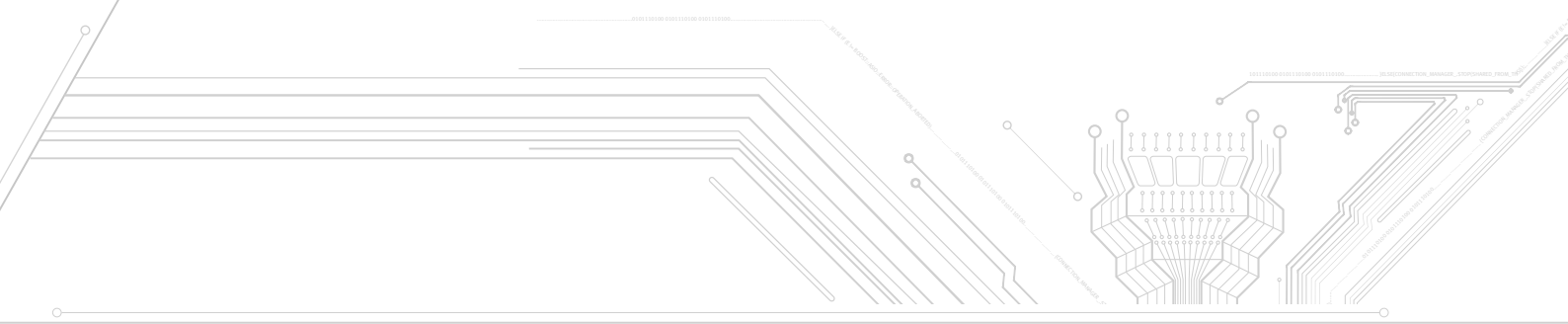
### STRUCTURE

Servers

LAN equipment

Automated workstations including:

- airspace management workstation
- AFTN, AMHS operator workstations
- settlement workstation



The system is able to process at least 10,000 flight plans a day. The system integration with the airport information/reference systems according to A-CDM concept enables increase of situation awareness of ATC units, airport operators, ground services providers, and airlines, provides fast and reliable information delivery to personnel of all airport services and passengers, and ensures identical information on display panels.

