ICZ LETVIS® - FDP
Flight Data Processing

FLIGHT DATA PROCESSING SYSTEM

THE ICZ LETVIS® FDP (FLIGHT DATA PROCESSING) PRODUCT IS A SYSTEM FOR PROCESSING FLIGHT DATA. IT PROCESSES AND DISTRIBUTES TO CLIENTS FLIGHT PLANS AND OTHER MESSAGES NECESSARY FOR AIR TRAFFIC MANAGEMENT.

The ICZ LETVIS® FDP product receives and distributes messages from AFTN/AMHS flight communication systems or via the FMTP communication protocol. It enables the automatic processing of messages and subsequent work with them. Using plans and the real airspace situation, it performs correlation and MTCD prediction. ICZ LETVIS® FDP enables the use of multiple roles (GND, TWR, APP, ACC) with support for sectorisation and possible coordination using OLDI messages. Together with the ICZ LETVIS® SIM system, it enables of air traffic control training and simulation.
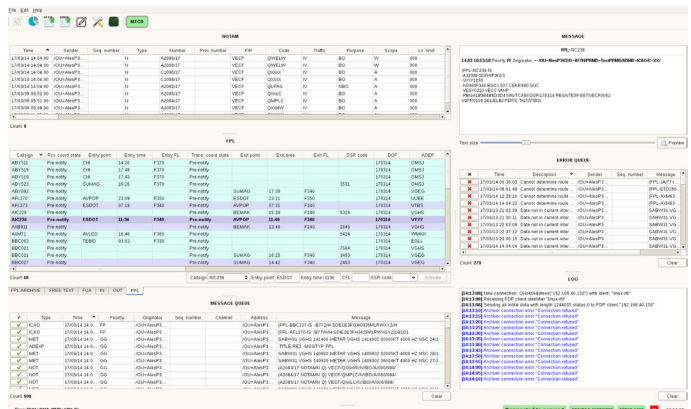
[BASIC FUNCTIONS]

ICZ LETVIS® FDP provides main and support functions.

Main functions:

▹ Receiving, inputting, processing, and disseminating General Air Traffic (GAT) data

▹ Receiving, inputting, processing, and disseminating Airspace Management (ASM) data

▹ Receiving, inputting, processing, and disseminating METEO data

▹ Processing data from AFTN, AMHS, and FMTP

▹ Processing ICAO, ADXP, and OLDI messages

▹ Processing flight plan data based on FPL and OLDI messages, and surveillance information

▹ Support for sectorisation and coordination

▹ Management of SSR codes

▹ Calculation of time points

Support functions:

▹ Main/Backup systems

▹ Control client

▹ Simulation support

▹ Monitoring current activity

▹ Data archiving

▹ Logging

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■ APPLICATION SW AND OPERATING SYSTEM

OPERATING SYSTEM	LINUX SLED/SLES 12 AND HIGHER
Application SW (minimum option)	The ICZ LETVIS® FDP SW product includes: ▸ FDPser process ▸ ArchDrec process
Application SW (full option)	The ICZ LETVIS® FDP SW product includes: ▸ FDP process ▸ FDPccl control client ▸ Application for work with the DB Admin database ▸ ArchDrec process

■ HARDWARE AND TECHNICAL PARAMETERS

Basic HW	HP/DELL/COTS – INTEL platform
LAN	Ethernet, TCP/TCP, UDP/IP
Supported aviation communications systems	AFTN -TCP/IP AFTN -RS232 AMHS - X.400/P3, (API : Isode's X.400)
Supported aviation transport protocols	FMTP
Input/output data protocol	ALES-XML- message format ALAS 6 (ASTERIX 62/65 s ALES SDI) Asterix 62/65- EUROCONTROL standard ICAO message format ADEXP message format
Basic message categories	Flight plan messages (L4444) - FPL, CHG, DLA, CNL, DEP, ARR, Coordination messages (OLDI) - ABI, ACT, REV, PAC, MAC, LAM, METAR NOTAM
Maximum FPL	1 000
Supported conflicts	MTCD
Backup support	Yes