CSS FDPS

System module for Flight Data Processing (FDP) and Aeronautical Information System (AIS)

System provides all of the functionality expected from a modern FDP system in one package. It also provides HMI applications needed for communication with the users, such as flight data operator, watch supervisor ACC (Area Control center), APP (Approach Control Unit), TWR (Aerodrome Control Tower), RGA (regional airports) and FIC (Flight Information Center) controllers.
**TECHNICAL FEATURES**

**Quick reference:**
- AFTN (aeronautical fixed telecommunication network), OLDI (on-line data interchange)/FDE (flight data exchange) (both X.25 and TCP), ETFMS (enhanced tactical flow management system) and AMA (arrival management message) connectivity.
- Processing of messages in both ICAO and ADEXP syntax.
- Processing of TACT (tactical)/CASA (computer assisted slot allocation) messages.
- SSR codes management.
- Mode S ELS (elementary surveillance) and EHS (enhanced surveillance) management.
- RDP (Radar Data Processing) integration - correlation output to RDP and flight data updating from radar track.
- Statistical functions.
- Output for billing system.

**Built on COTS (common-of-the-shelf) technologies, no specific proprietary HW or SW is needed**

The product is based on COTS technologies, such as Unix/Linux operating systems. This makes the product much cheaper compared to other products offering similar functionality, but built on proprietary hardware and/or middleware. This also makes it easier to train technical staff because staff can take advantage from experience with other products based on similar technologies.

**Industry standards compliant**

The product complies with standards commonly used in the ATM (Air Traffic Management) industry, fully supporting most ICAO and Eurocontrol standards applicable to FDP systems.

**Support for various user outputs**

The system supports various types of user output, such as paper strips and electronic strips, including interfaces to third-party systems.

**Easy integration with third-party products**

FDPS incorporates customizable interfaces to third party products, such as RDP, radar displays, electronic strips, coooperating systems, etc. In the most elementary case, FDP HMI applications can be displayed on screens of existing systems using the X-Windows protocol.

**HIGHLIGHTS**

- Datalink server interface
- HMI for FPL data and messages and e-strips operation
- HMI for AIS
- FPL and AIS messages and operations archiving feature
- AIS - METEO messages support (NOTAM, SNOWTAM, ASHTAM etc.)
- Sector management and strips distribution
- FPL and AIS messages composition and distribution
- Server duality / redundancy for high availability

**BENEFITS**

**Seamless integration into your environment**

High level of modularity, flexibility and customizability makes CSS FDPS easy to integrate into your ATC system.

**Easy setting of interoperability**

Interoperability is defined in custom “data set”, thus can be quickly adapted to local coordination adjusting and transfer conditions.

**Sophisticated two-way AFTN module**

The AFTN Daemon does not only process AFTN messages, but enables you to compile and distribute almost all AFTN messages as well.

**OLDI complying with Eurocontrol standards**

Adjustable to your local needs.

**Progressive 4D Trajectory Prediction**

FDPS module features cutting edge flight prediction functionalities. The results are based on complex computing using instant aircraft performance as one of the parameters.

**FPL track for procedural control**

System generates FPL track with position predicted from the flight plan and corrected by last reported position. This enables procedural control in areas without radar coverage.