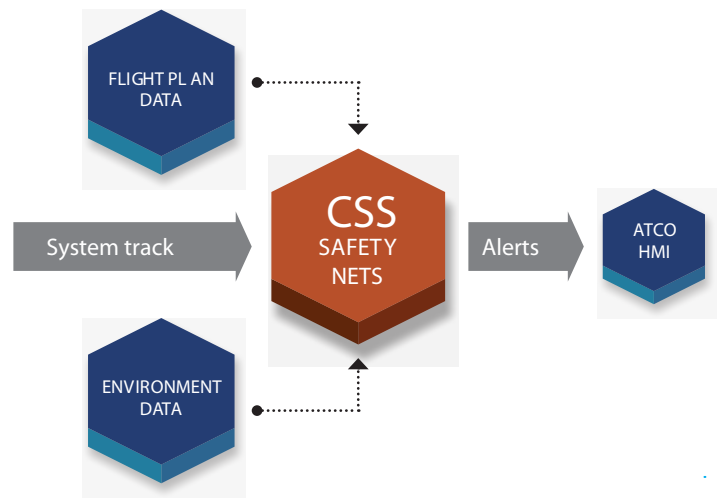# CSS SAFETY NETS

## System module provides warning of safety hazards in air traffic

CS SOFT ground based Safety Nets provides air traffic controllers with a prior warning about a possible disruption in air traffic safety.

Sophisticated algorithms of evaluation protect ATCOs against false warnings and do not increase their workload.

The system, due to its standardized interface, can be seamlessly integrated in any ATC system.

FLIGHT PL AN DATA

System track

CSS SAFETY NETS

Alerts

ATCO HMI

ENVIRONMENT DATA

## MAIN FEATURES

**Flexible parametrisation of airspace**

CSS Safety Nets may be parameterization for different parts of airspace. Thus it will ensure the optimal operation of Safety Nets even in complex environment with different characteristics and operation modes.

**Seamless integration through standardized interfaces**

Standardized interface of input and output information facilitates quick and smooth integration in any air traffic control system. In case of special integration requirements, CSS Safety Nets system features a concept of modular interfaces which allow connecting more systems according to the proprietary client's needs.

**Off-line support of Try & Decide parameterization**

The system operators can immediately verify its behaviour within different parameterizations. This way simplifies and accelerates otherwise complicated system of parametrization and reduces level of uncertainty during changes in the system settings.

**Eurocontrol specification compliance**

The processes of parameterization for Safety Nets regions and the system configuration fully compy with Eurocontrol recommendations.

## TECHNICAL DETAILS

- Comprehensive Ground Based Safety Nets solution covering STCA, MSAW (incl. APM/AFDA) and APW according to the issued Eurocontrol recommendations.

- Proved in operation Ground Based Safety Nets features CLAM, WTSA, RAMLD/RAMHD implementation developed by CS SOFT a.s.

- The system is able to recognize hazard situations based not only on surveillance information, but for even better results it can use flight plan information, meteorological data or input data from the air traffic controller (if available).

- Standardized interface for input and output information (ASTERIX CAT 062/065, 011, 004, METAR/SPECI).

- Support of independent parameterizations for parts of airspace with different operation modes.

- Graphic user interface for system configuration and parameterization.

- Automatic activation/deactivation of the sectors with the user adjustable planner.

- System functions control through the communication interface.

- Storing of the issued and internal warnings for the purpose of subsequent analysis and system parameterization.

- Concept of modular interface for easy integration into non-standard ATM environments.

- Remote supervision based on SNMP protocol.

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