SAFETY NETS IN REAL TIME SIMULATION

Real Time Simulations can be used to better understand and improve the use of Safety Nets

EUROCONTROL

Contact: philippe.debels@eurocontrol.int

Challenge

Solution

Implementation

Combining
multinational & multicultural ATC Systems

Various safety nets and controller tools have been simulated in different operational systems including:

- ✈ FABEC Central WEST RTS - Maastricht UAC, LVNL (Amsterdam) DFS (Langen, Bremen, Karlsruhe) and the German (including DFS Maastricht) and the Netherlands Air Forces.

- ✈ DANUBE FAB RTS – ROMATSA, BULATSA and the two national Air Forces.

- ✈ FABEC FRA RTS - DSNA (Reims, Paris and Marseilles) and SKYGUIDE (Geneva and Zurich)

Integrating
safety nets with advanced ATC tools

Generic HMIs integrating safety nets together with advanced ATC tools including: MTCD, CPDLC, ASAS, ADS-B, RA Downlink, etc.

Connecting
different simulators

The ESCAPE simulator can be connected with a TWR simulator, and was used for all SESAR Airport Safety Nets projects including:

- ✈ Conflicting ATC Clearances (CTAC)

- ✈ Conformance Monitoring Alerts for Controllers (CMAC)

- ✈ Runway Monitoring and Conflict Alerting (RMCA)