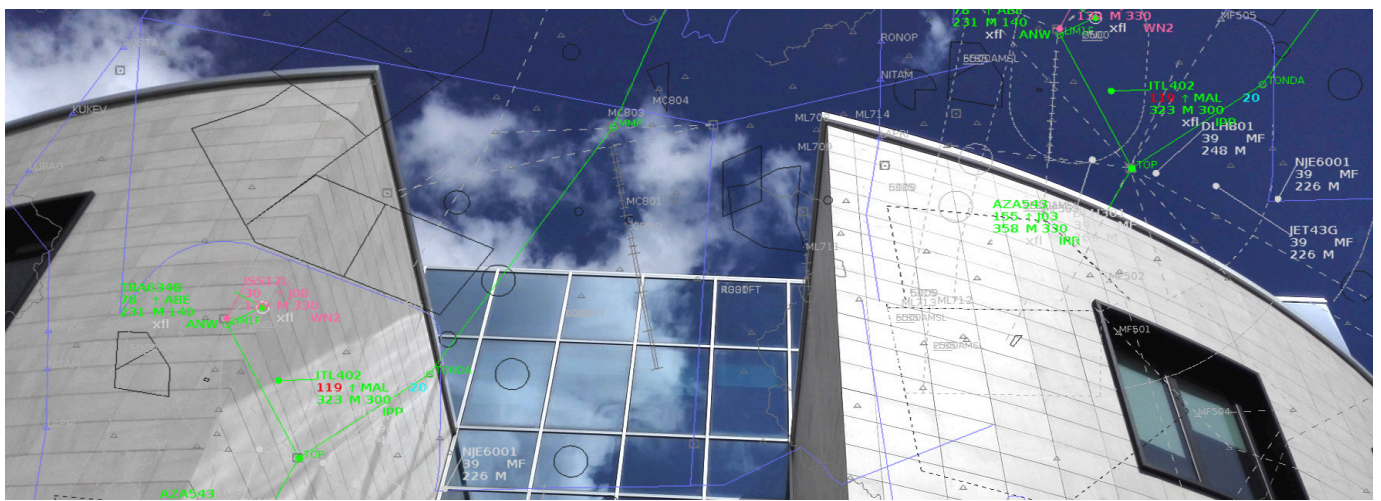


ACC e-CWP - ACC Enav Controller Working Position

A Multi Role and Multi Profile Suite to support controllers' operational needs

» Mission:

ACC e-CWP is the HMI designed for the Air Traffic Controller dedicated to Route Traffic Management. Its flexibility allows the integration of multiple data sources, and changes of configuration based on the destination environment, and based on the interaction needed with the FDP systems.



Operational Scenario:

ACC e-CWP is built according to a strict and continuous collaboration with the Italian Air Navigation Service Provider (ENAV). Radar labels are enriched with flight data information and are designed considering main operational needs and required FDPS interactions.

- FDPS command immediately accessible through minimum mouse clicks
- Graphical commands input directly on Radar Picture
- Layered ATM Maps in different formats
- Integration with a wide set of ATC Orders
- Different roles and functions profiling
- Integration with EFPS

Key Benefits:

- High Portability thanks to java language
- High Scalability and flexibility thanks to modular approach
- High configurability of screen layout
- High configurability of Radar Labels layout, size and colours
- High configurability of Flight Lists
- Integration with FDPS and fallback Systems
- Integrated with training suites

Main technical features and overview:

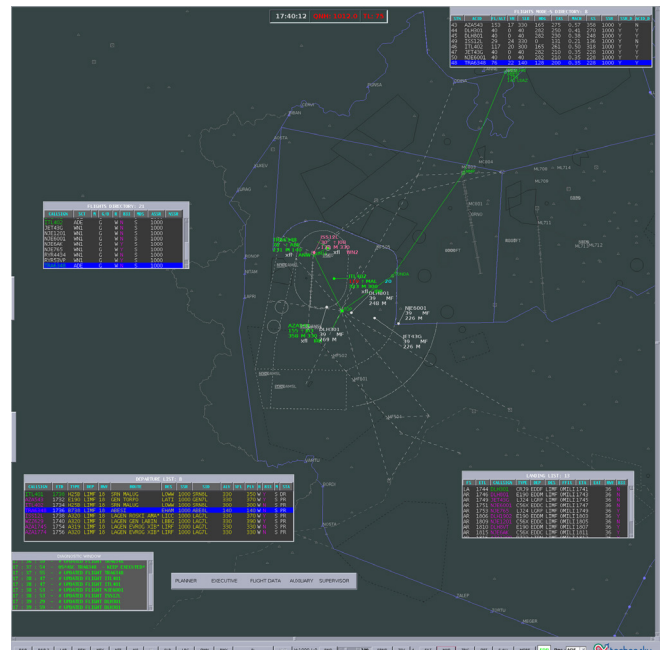
- Significant Flight Data received from FDPS (e.g. ARCID, ADEP, ADES, Wake turbulence) and represented on Radar Labels.
- High Configurability of screen layout, to provide different data views
- High Configurability of Radar Labels layout, size and colours
- Flights List can be added to enrich the air traffic situation on radar display
- Radar Labels commands immediately accessible to the ATCO through mouse clicking
- Customizable Shortcuts, from radar labels to ATC specific orders
- Radar Labels/Flight List integrated hooking
- Selection of different layers of maps to be shown
- Integration with a wide set of ATC Orders
- Dynamic Role (e.g.: Planner/Executive or Supervisor ATC) configurability

ACC e-CWP applications

- ACC Control: ACC e-CWP is suitable for the integration with any FDP system and is compatible with standard surveillance data formats. It also provides a useful tool for the ACC control
- Prototyping: considering the configurability of the ACC e-CWP, it can be successfully used for studying different solutions for data distribution on the screen and different ways of interaction and integration
- Training: ACC e-CWP is integrated in the e-ATOMS suite for operational personnel training. Anyway, it can be integrated with different simulation platforms for training
- Testing: considering the high configurability and ease of use, the ACC e-CWP can be useful to build fast test beds for testing of different platforms

Interfaces:

- ASTERIX Surveillance data CAT010, CAT021, CAT034, CAT048, CAT062, CAT063, CAT065
- e-AWOS System for meteorological information
- SVG (Scalable Vector Graphics) multi-layer maps



Technical Specification:

- Developed in Java Language
- Windows OS and Linux OS workstations

Regulations and certifications:

- Developed according to ENAV Safety Management System and Security Policy
- CMMI Compliant Development Cycle
- Developed according to the Software Assurance Level (SWAL) identified during the safety assessment process
- EATMN Constituents certified by DSU (Reg. (EU) 2018/1139)

Support:

- Easy to develop a e-CWP prototyping to meet customer's requirements
- Operational Personnel Training Purposes through the integration with e-ATOMS SUITE