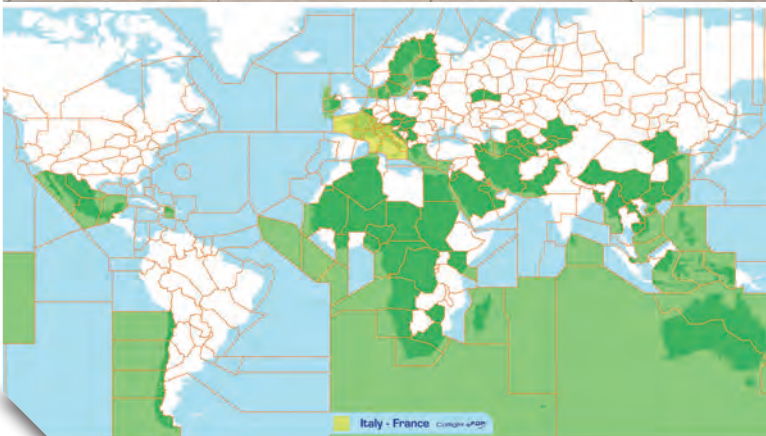




EUROCAT

Thales Automation System

The worldwide standard

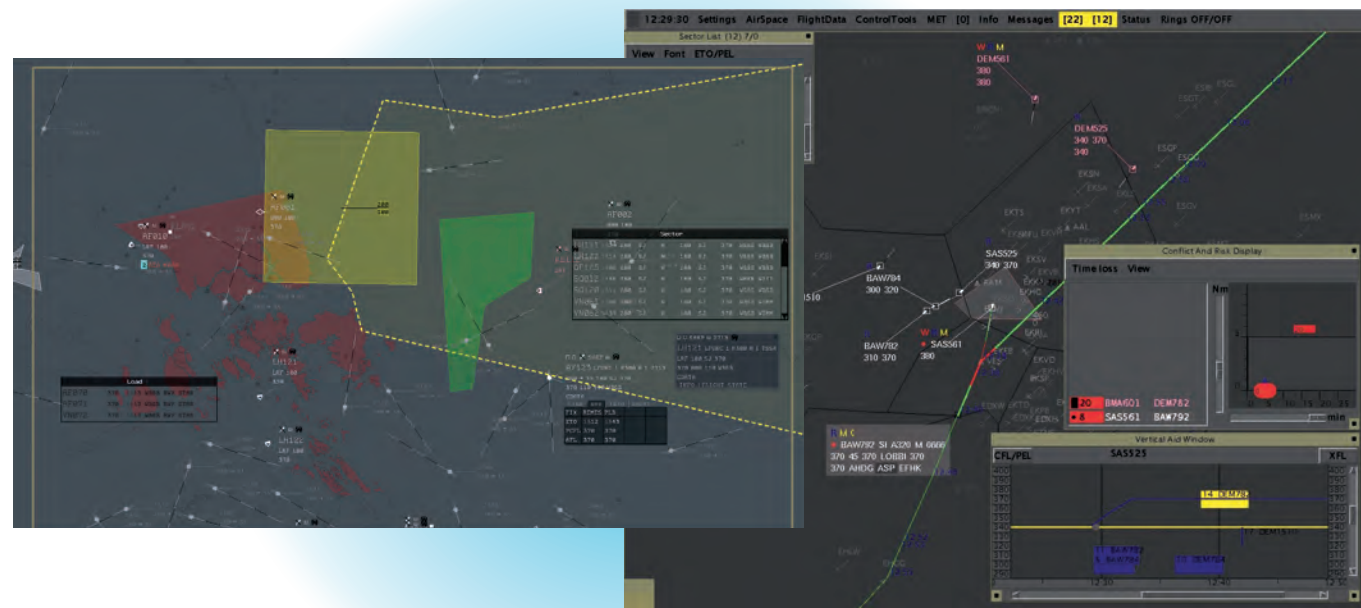


FIRs controlled by Thales automated control systems

- ▶ A mature and future proof ATC system operational worldwide
- ▶ Covering more than 100 FIRs that is over 40% of world surface
- ▶ Designed by controllers for controllers
- ▶ Suited for applications ranging from approach to en route control
- ▶ Designed to operate in a variety of geographic environments including oceanic airspaces and high density traffic areas
- ▶ Close and trusted relationships with our customers
- ▶ Fully compliant with the latest international and European standards

Securing your future

EUROCAT



Thales is a world leader in providing the most advanced integrated solutions

EFFICIENT CONTROL OF AIRSPACE

- A unified air situation display providing intuitive access to flight information and controller tools.
- The realistic calculation of the 4D trajectories of aircraft including all flight evolutions and controller clearances is at the heart of system efficiency.

MEDIUM TERM CONFLICT DETECTION TOOLS CONTROLLERS CAN RELY ON

- Remarkable results in terms of detection and false alert rates achieved thanks to a Total Energy Model derived trajectory.
- A "what if" capability to check the validity of proposed clearances.

IMPROVED INTEROPERABILITY

- Silent coordination is supported between FIRs through data exchange in accordance with latest standards.
- Full integration of remote Approach and Tower units.

ADVANCED ALERTS AND WARNINGS

- Improved safety through the integration of the latest surveillance capabilities.
- Eased perception of conflicts via an intuitive graphical display.
- New innovative tools such as holding adherence monitoring.

OPERATIONAL CNS/ATM

- New sensors already operational with EUROCAT: latest generation of conventional radars, ADS-B, Wide Area Multilateration.
- Multi-sensor data fusion is available.
- Data-link communications in use worldwide (DCL, CPDLC).
- Integration of third party voice communication systems.

EXTENSIVE AIRSPACE MANAGEMENT

- Military flight management.
- Flexible Use of Airspace - FUA.
- Arrival/Departure Manager.

A solid industrial expertise for today and tomorrow

PROVEN CAPABILITIES

- First class expertise of Thales staff acquired thanks to years of successful EUROCAT deployment on 5 continents.
- Efficient programme management with close collaboration with customers to guarantee on time and on budget delivery.

OPTIMISED LIFE CYCLE COST

- Use of COTS (e.g. PC Linux).
- Open architecture for the introduction of future evolutions.
- Long-term services offer.

A COMMITMENT TO THE FUTURE

- Thales is resolutely engaged in major international R&D initiatives, including SESAR and NEXTGEN, defining future ATM concepts such as time or trajectory based operations.
- EUROCAT is developed in line with SESAR and will be part of the SESAR validation platforms.
- Through significant and continuous investment, Thales guarantees both long-term support and evolution roadmaps to accompany customers in achieving their paradigm shift to new modes of operation.
- Thales is committed to a permanent process of improvement (technologies, methodologies, ...) for more secure and efficient products.



Enhanced safety and continuity of service

EXCELLENT LEVELS OF QUALITY & SAFETY

- A dedicated safety organisation associated to programmes.
- Implementation of safety standards (ESARR).
- Engineering and software development processes fully compliant with global standards including ISO and CMMI.

HIGH RELIABILITY FOR CONTINUITY OF SERVICE

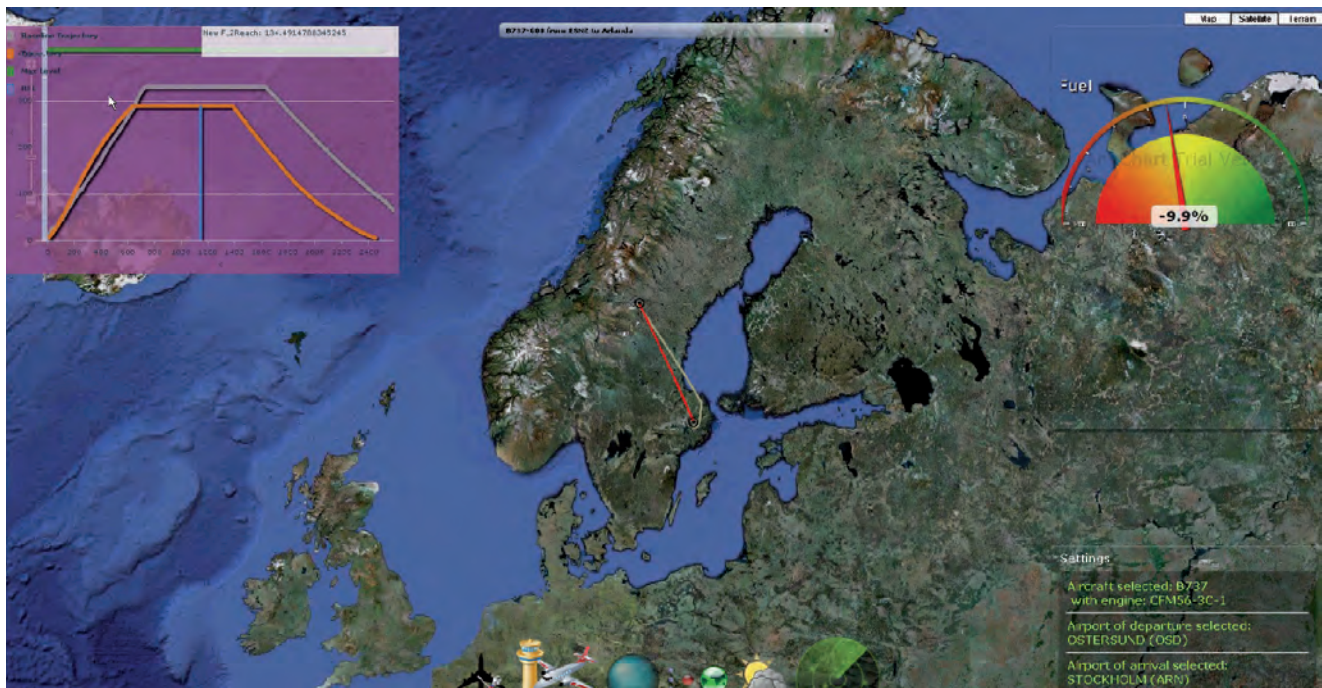
- A redundant hardware architecture (computers, network, ...).
- A transparent switch-over for redundant components.
- Fall back capability for critical sub-systems.
- Fail-safe mode through reduced capabilities and by-pass.
- Test and simulation environment able to act as ATC backup or contingency system.



EUROCAT

Looking for a sustainable future

- Thales is committed to applying rules and practices for sustainable development and environment with concrete objectives to reduce our carbon footprint and for energy saving.
- Thales is also contributing to international environmental initiatives such as Clean Sky.
- EUROCAT is a key component for green ATM, ensuring better flight efficiency through the implementation of new concepts such as flow management, continuous descent approach and flexible airspace structure.



Impact of proposed clearances on fuel consumption

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