

# Sopra Steria picks the MÄK RTI to power the interoperability of the Shared Virtual Sky

*Collaborative innovation creates a virtual solution for aviation simulation and modeling*

*The volume of air traffic is escalating rapidly worldwide. Policymakers in Europe are looking at ways to balance this growth with the needs of air safety, environmental concerns, security needs, and economic competitiveness.*

In response to this need, the European Commission set up the Single European Sky (SES) initiative to meet future airspace capacity and safety needs. The SESAR (Single European Sky Air Traffic Management Research) program is the technological and operational arm, tasked with building the future European air traffic management system.

SESAR seeks to predict, model and manage aviation challenges. However, the bespoke simulation equipment required to achieve a high level of accuracy is both complicated and expensive. Therefore, Europe's aviation industry sought a more cost effective and collaborative way to approach this.

## **The Shared Virtual Sky solution**

Sopra Steria, a leader in IT integration, has been providing intelligent transport systems for more than 40 years. In collaboration with a number of aviation industry partners, Sopra Steria took charge of architecture and operations behind an innovative research and development project aimed at responding to this industry-wide need.

The project successfully delivered the first European airspace simulation platform. This is now a commercial service that is being used by a number of organizations. Named Shared Virtual Sky, it enables the interconnection of aviation company systems, particularly airborne (cockpit) and ground navigation (air traffic control) systems. Participants connect their simulators to a high-fidelity real-time environment that

supports specific flight simulations in rapidly changing conditions.

Engineers, test pilots and air traffic controllers can work together, regardless of location, via a standard and holistic interoperability solution. This avoids the disruption and expense of moving into a new external facility and allows research facilities, airports and others to connect to the platform.

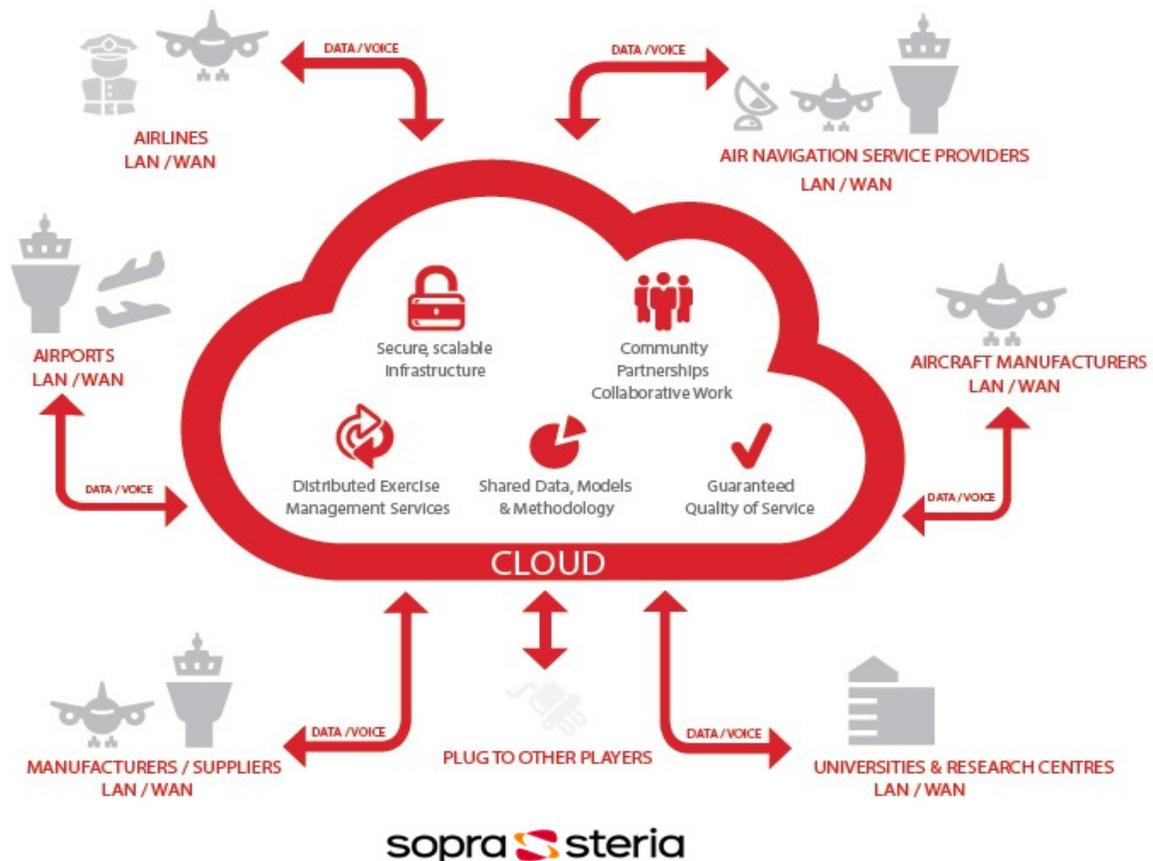
## **Sopra Steria chooses the MÄK RTI**

Sopra Steria chose the MÄK RTI as the linking software because of its stability, its ability to work in a Wide Area Network (WAN) environment, and its adherence to the HLA IEEE 1516 specifications. The MÄK RTI enabled Sopra Steria to speed up the development of the middleware layer (the "interoperability layer") of this multi-partner Air Traffic Management simulation.

"Performance, quality, and stability are just three reasons that made us choose the MÄK RTI. The support of Antycip Simulation, MÄK's reseller and partner in Europe, was another asset during implementation and deployment, providing specific customer updates when needed in our native language," stated Jean Lingueglia, Shared Virtual Sky project leader at Sopra Steria, Spain.

Antycip Simulation is an expert provider of simulation, modeling, and display solutions, and related services. Antycip's experience was crucial in the development process and integration of MÄK products.

# CUSTOMER SUCCESS



"We are very proud to work with Sopra Steria to develop the Virtual Sky as an open and interoperable ATM simulation solution. Our teams were efficient and benefitted from MÄK's flexibility to help Steria deploy the MÄK RTI," said Johan Besnainou, Director France and Spain for Antycip Simulation. "Antycip Simulation and MÄK have been involved in simulation development for many years, and our focus is, and has always been, to help our clients easily and efficiently use our COTS products."

Aircraft Manufacturers and ATC authorities in Italy, Germany, France and Sweden are now using Shared Virtual Sky to derive a number of business and operational benefits. These include: improved ability to predict the position of an aircraft's trajectory for better traffic management, enhanced security of aircraft traffic due to better demand and capacity balancing, and more realistic and relevant training for airport staff and aircraft operators. The ability to collaborate in a virtual environment accelerates innovation by enabling simulations using new air space management techniques and provides cost-effective validation and verification of planned and potential air traffic flow.

To learn more about how we can help you, reach out today at [info@mak.com](mailto:info@mak.com)!