

# Lufthansa Systems Depend on Actian to Ensure Flights go Smoothly for Passengers



## Lufthansa Systems

### BUSINESS

Lufthansa Systems is a leading provider of IT services for the airline and transportation markets.

### CHALLENGE

Lufthansa Systems needed a robust and stable database platform to underpin its airline planning and routing software that it sells to hundreds of airlines globally to ensure every flight is a safe one.

### SOLUTION

Ingres database and OpenROAD platform were chosen to support the company's Lido/FlightPlanning application that is used by airlines to operate thousands of flights for millions of passengers.

### OUTCOMES

- Real-time availability of data
- High levels of uptime
- Reliability and stability
- Cost-effective licensing
- Backed up by vendor support

*"The reasons why we originally chose Ingres and continue to rely on the database are numerous. It offers good functionality, high levels of reliability and stability, a cost-effective licensing model, and is backed up with excellent support. When we compare Ingres to other database technologies on the market, the Ingres database continues to be one of the best choices to power Lido/FlightPlanning."*

*- Rudi Koffer, senior database software architect,  
Lufthansa Systems Airlines Operations Solutions*

Full-service IT provider Lufthansa Systems relies on Ingres and OpenROAD to power its Lido/FlightPlanning solution, which is used by hundreds of airlines to ensure correct flight planning and flight safety.

### Introduction

When we take a flight, most of us are oblivious to the amount of planning and checks that take place in the background by the airlines to ensure that we have a safe and pleasant journey. While we are busy making ourselves comfortable in the cabin, behind the scenes, the airlines are hard at work to understand how they must fly from our place of origin to our destination. Among many other things, airline dispatchers and pilots need to understand a plethora of information, including what speeds they must fly and at what heights, what take-off weights are permissible, what routes need to be considered, what fees are due if they fly certain pathways and how much fuel they need to get from A to B. One example of a solution to help airlines do this is the market-leading system, Lido/FlightPlanning, offered and maintained by Lufthansa Systems.

As one of the world's leading full service IT providers and industry specialists for the airline and aviation sector, Lufthansa Systems offers Lido/FlightPlanning as well as other airline solutions to over 300 national and international airlines. It offers a modular range of products and services to manage all aspects of airline planning as well as an on-the-ground team of navigation experts who collate information from multiple sources. Take weather reports and air traffic information for example. Pilots that are flying en route, and ground operations will have access to real-time insights and information to help them in their jobs and make the most informed decisions.

### Flight and route planning software powered by Ingres and OpenROAD

At Lufthansa Systems, global aviation data and support are distributed quickly and accurately, using Actian database technology. As a customer of Actian for 25 years, the flight and route planning software, Lido/FlightPlanning, is built on Ingres database technology.

## ABOUT LUFTHANSA SYSTEMS

As one of the world's leading full-service IT providers and industry specialists to the airline and aviation sector, Lufthansa Systems offers Lido/FlightPlanning as well as other airline solutions to some 300 national and international commercial airlines across the world. Lufthansa Systems is an expert in this field, offering a modular range of products and services to manage all aspects of airline operations and planning.

"We have been using Ingres for some time in our business," explains Rudi Koffer, senior database software architect at the Lufthansa Systems Airlines Operations Solutions division in Frankfurt-Raunheim, Germany. "The combination of performance, speed, stability, and price of Ingres, as well as the great support from Actian, continues to make the database platform a great piece of technology to build our flight and route planning software on."

A central Ingres database serves as the repository of information that powers Lido/FlightPlanning. The data is available to the application in real-time, it is easy to use, secure, and available 24 x 7. The company sells the application to airlines and transportation companies across the world and continues to run it; Lufthansa Systems installs the solution, maintains and updates it in real-time to ensure that the airlines have the latest information at their fingertips when they need it. Every time there is a new piece of data or information about a new flight path, a new flight restriction, an airport closure, or severe turbulence on the horizon, Lufthansa Systems feeds this via Lido/FlightPlanning to its customers, helping to ensure that airlines and pilots en route can get their passengers and their cargo safely to their destination. By calculating cost-optimal flight routes, Lido/FlightPlanning guarantees to generate millions of dollars in extra revenue for its customers annually.

The airline industry is rebounding in the backdrop of an ongoing pandemic. What does not waver is its focus on passenger flight safety, and operations that must run as smoothly and cost-efficiently as possible. This is made possible thanks to the underlying Ingres database that powers Lido/FlightPlanning.

"Ingres is the underlying database that powers Lido/FlightPlanning," says Rudi Koffer. "The reasons why we originally chose Ingres and continue to rely on the database are numerous. It offers good functionality, high levels of reliability and stability, a cost-effective licensing model, and is backed up with excellent support. When we compare Ingres to other database technologies on the market, the Ingres database continues to be one of the best choices to power Lido/FlightPlanning. It's reassuring to know that our solutions, that keep airlines safe, are backed up by a database software solution that has for so many years been playing in the 'premier league'."



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