

Case study:

Virgin Australia Passenger Manifest Migration (SOA OPSB Decommissioning)



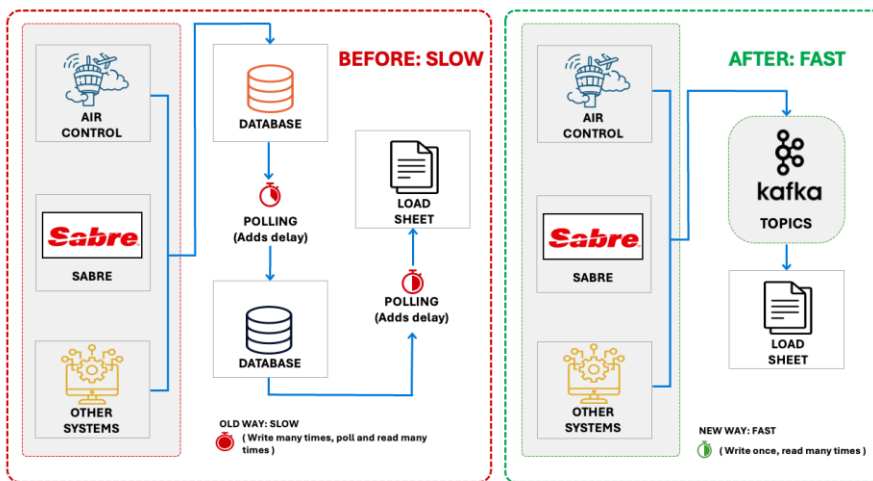
The Opportunity

Traditional solutions do not recognise the streaming nature of events and data that flow through the business. As a result, legacy solutions are built on a series of database queries and polling loops, each of which introduces delay and lag into the flow of information.

Confluent Kafka is the leading data streaming platform that enables businesses to treat event streams as data streams and to build solutions based on data streaming.

4impact's Approach

In Virgin's case, the focus of MD2 was "Passenger Manifest". The Confluent Kafka solution directly affected the time it takes to get a final passenger manifest for a flight to the flight crew, required for departure. The solution reduced this time by an average of 40 seconds, which has a material effect on how long it takes to get a flight in the air.



Key Toolkit

- Kafka
- Java
- DevOps
- Security
- Functional and nonfunctional testing
- Performance testing



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Key Outcomes and deliverables:

The new solution is easier to understand and maintain than the old SOA system, with less complex data flows and a clearer separation of responsibilities among the microservices that make up the Kafka solution.

Applications work smoothly and rapidly under real time load using kafka data streaming.

- Quicker delivery of final manifest load sheets, enabling flights to depart faster.
- Virgin is preparing a quantification of savings due to faster load sheet delivery.

Key project statistics and success insights.



DELIVERED EARLY

FULLY DELIVERED
AHEAD OF PROJECT
SCHEDULE



FASTER ACCESS

SIGNIFICANT REDUCTION
IN TIME FOR LOADSHEET
AVAILABILITY



UPLIFT

OPERATIONAL
EFFICIENCIES GAINED
ACROSS MULTIPLE
SYSTEMS



RELIABLE

SIMPLER, CLEARER,
SMARTER SOLUTION



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The 4impact Advantage.

4impact is a consulting and technology services business with a primary focus on the delivery and implementation of complex technology projects. We value relationships - with our consultants, with our clients, and with our suppliers and partners.

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