

Case study:

Virgin Australia Load Control Migration (SOA OPSB Decommissioning)

Sida4

The Opportunity

Virgin's legacy integration platform was out of vendor support, prone to outages, costly to maintain, and made releasing new products or features extremely difficult.

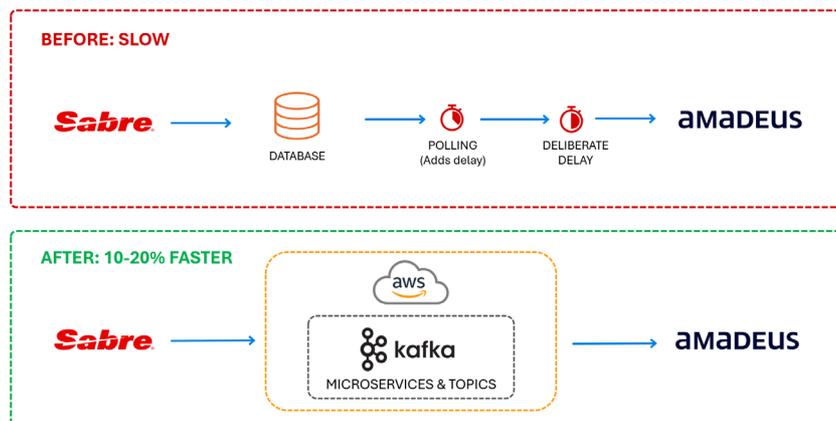
In particular, fragile passenger and load data flows between Sabre and Amadeus caused boarding and departure delays and limited partnerships such as VA's alliance with Qatar Airways.

The opportunity was to replace this with a modern event-streaming platform based on Confluent Kafka.

Our Approach

Our approach began two years before (this project officially commenced) with detailed analysis of existing SOA information flows and the design of a complete microservices replacement. We implemented the solution while coordinating closely with third-party vendors and Virgin stakeholders and SMEs.

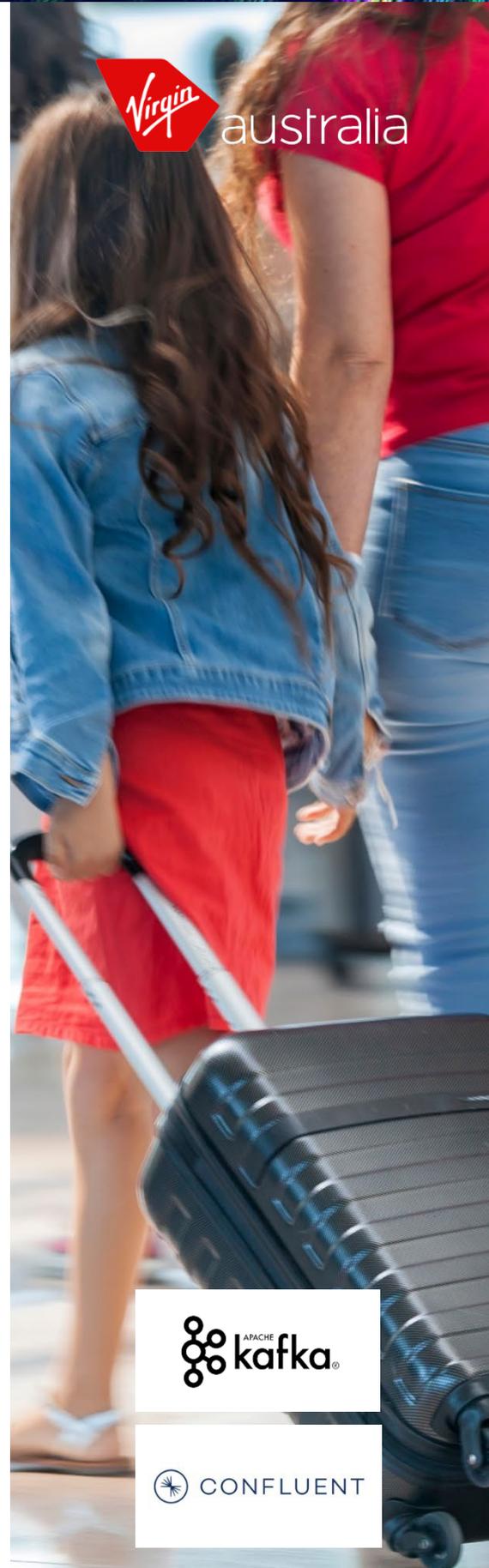
Services were tested end-to-end on the Kafka platform and deployed using parallel runs to validate accuracy. A tested deployment run sheet, support handover, and two weeks of hyper-care ensured a stable cutover.



Key Toolkit

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

NOTE: This project was originally delivered under the 4impact brand and is now represented by their *data enablement and integration* focused sister brand, Sida4.



APACHE
kafka®

CONFLUENT

Case study:

Virgin Australia Load Control Migration (SOA OPSB Decommissioning)



Key Outcomes and deliverables:

A stable, fully supported replacement platform utilising Confluent Kafka to deliver 10–20% faster information flows than the legacy SOA environment.

Enhanced monitoring, logging, and alerting capabilities were implemented, alongside the resolution of multiple longstanding SOA defects.

- Confluent Kafka running on Java is the replacement technology stack.
- Information flows are 10% - 20% faster compared to legacy SOA.

Key project statistics and success insights.



DELIVERED EARLY

FULLY DELIVERED AND
OPERATIONAL AHEAD OF
PROJECT SCHEDULE



FASTER DATA FLOW

MARKED REDUCTION IN
TIME FOR INFORMATION
AVAILABILITY



OPERATIONAL UPLIFT

EFFICIENCIES GAINED
ACROSS MULTIPLE SYSTEMS



INCREASED RELIABILITY

SIMPLER, CLEARER,
SMARTER SOLUTION



Sida4 and 4impact

NOTE: This project was originally delivered under the 4impact brand and is now represented by their *data enablement and integration* focused sister brand, Sida4.

Sida4 Head Office
Brisbane QLD 4000 Australia

P: 1300 112 100 Int: +617 3177 1400
connect@sida4.io



Sida4.io

