

AVIATION · MAINTENANCE AND ENGINEERING

An airline reliability programme product, built by a partner on Wexa

Smaller airlines cannot afford reliability engineers, and their data is spread across maintenance, tech-log, delay and stores systems. A partner is building a reliability service on Wexa that runs the full loop from defect to costed action, installed in each airline's own cloud account.

8

agents from ingest to monthly report

1 per airline

Wexa installation in the airline's own account

36

release tickets and 30 acceptance criteria

Dec 2026

release-1 target

CLIENT

Aviation-software partner building a reliability service for airlines

REGION

Australia / global

WHEN

2026

ENGAGEMENT

Solution design

WEXA COMPONENTS

Wexa per airline · 8 agents · context graph · knowledge base · marketplace delivery

The challenge

- Reliability reviewed one source at a time
- Programmes stop at compliance reporting
- Findings rarely become costed actions

What Wexa built

- ✓ Pipeline: ingest → tech-log coding to ATA chapters → deterministic metrics → alerts and trends → correlation → review → human decision → effectiveness check → report
- ✓ Rules: models classify and draft, they never calculate; agents recommend, people decide
- ✓ Graph: aircraft, parts, serials, stations, ATA chapters, defects, removals, delays, findings, actions
- ✓ Per-agent switches and daily spend caps; every call logged with tokens, cost and trace id

How it runs on Wexa

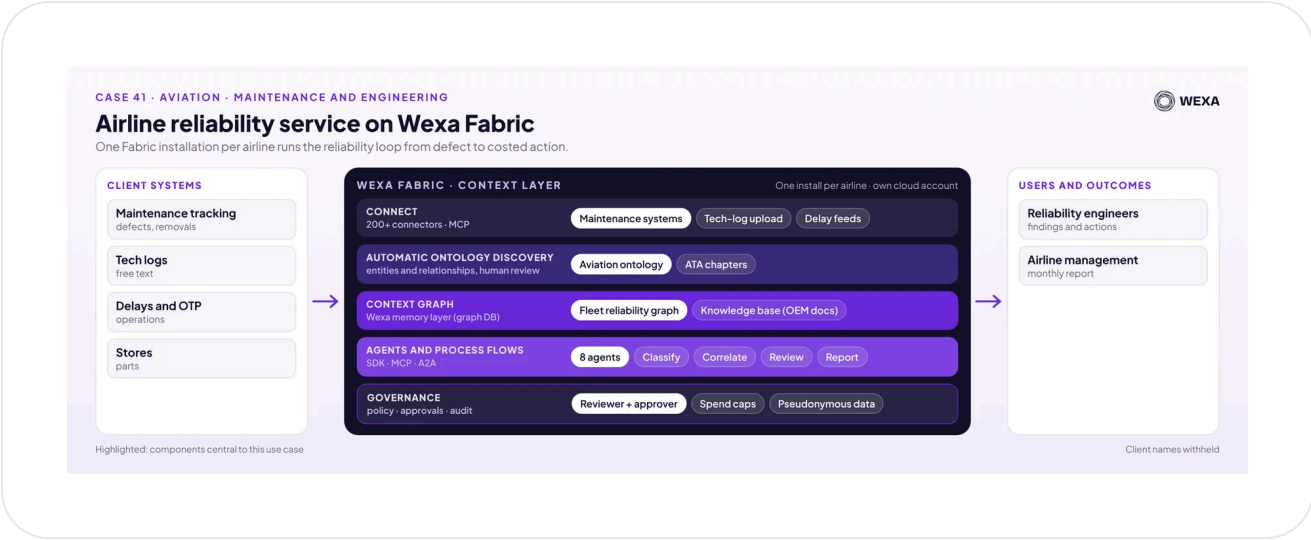


FIGURE How this use case runs on Wexa: client systems connected, ontology discovered, context graph in the Wexa memory layer, agents and process flows, and governance. Highlighted components are central to this use case.

Results

MEASURE	BEFORE / WITHOUT WEXA	WITH WEXA
Reliability engineers per airline	4 engineers	1.5 engineers
Annual cost of the process	\$440K	\$165K
Time to implement the AI solution	6 months	10 weeks
AI build cost (one-time)	\$480K	\$74K
AI operating cost per year (models, infrastructure, upkeep, platform)	\$312K	\$166K

MEASURE	BEFORE / WITHOUT WEXA	WITH WEXA
Total AI cost in year 1	\$792K	\$240K

WITH WEXA

\$109K

net annual value to the client after Wexa's
own operating cost

3x

faster to implement

47%

lower AI operating cost

\$552K

less AI spend in year 1