

Faster Releases with Test Lifter using Claude

Success Story



Customer Overview

Client Name: A global audit and consulting firm with presence in over 130 countries

Key Client Sponsor: Will be provided upon request

Designation/Role: CIO

Email Address: Will be provided upon request

Customer Industry: Global Audit and Consulting

Problem Statement

The customer wanted to improve test coverage and shorten test cycles so it could release new features and products faster. Test coverage and automation were both insufficient.



Use Case

Indium used Test Lifter to accelerate and strengthen the following quality-engineering activities for a global application that serves more than 100 countries.

- Automating requirement extraction from business specification documents.
- Generating structured user stories suitable for Agile delivery.
- Creating comprehensive test cases and executable test scripts automatically.
- Supporting script execution, results capture, and reporting.
- Improving testing efficiency, accuracy, and coverage across business-critical workflows.
- Providing decision support for testers while preserving human judgment and review.
- Operating in a human-in-the-loop model to maintain oversight, quality, and accountability.

Claude Product Used

Model APIs - Sonnet 4.6, Opus; Claude Code

One Line Summary of Joint Outcome

Test Lifter helped the customer gain greater assurance in its production systems and release changes faster, with a significant reduction in failure rates.

Results Achieved

Test Lifter helped the customer achieve a 30 to 40% improvement in end-to-end testing cycle times, 2x faster time-to-market (driven by shorter test cycles and fewer defects), a 20 to 30% reduction in testing costs, and a significant improvement in business resilience.

About The Lifter

The Lifter platform brings together four solution pathways (Legacy Lifter, Data Lifter, Test Lifter, and AMS Lifter) on a common foundation. Together, they help organizations understand legacy systems, modernize data estates, strengthen software quality, and improve application management through persistent operational knowledge and faster incident resolution. Claude Code was used extensively in platform development, and Claude models are recommended for inference-led intelligence within client environments.

Legacy Lifter: Deep Code Intelligence

Legacy Lifter delivers a comprehensive understanding of legacy applications by extracting business logic, application intent, and interdependencies embedded within complex, polyglot codebases. It supports a wide range of technologies, including COBOL, 4GL, Informix, PHP, .NET, and Java-based frameworks, enabling organizations to decode undocumented systems and build a reliable foundation for modernization.

Data Lifter: Intelligent Data Migration

Data Lifter accelerates migration from legacy data platforms to modern data estates by applying Agentic AI to schema mapping, data-type conversion analysis, profiling, anomaly detection, relationship discovery, and extraction of business rules embedded in ETL pipelines and stored procedures. Indium is also extending the platform into an AI-assisted Data SDLC harness for greenfield and brownfield programs, supporting ETL generation from natural language requirements, data-quality validation, and governance workflows.

Test Lifter: AI-Driven Quality Engineering

Test Lifter transforms quality engineering through intelligent, risk-based testing. It maps logical coverage to identify gaps in business-critical paths, generates test cases aligned to business risk, and converts them into executable automation scripts. The platform detects flaky tests, provides root-cause diagnostics, and introduces self-healing capabilities that adapt to UI and API changes. It also delivers actionable insights into business logic coverage, ensuring systems are validated against what truly matters, not just code execution.

AMS Lifter: Agentic Application Management

AMS Lifter builds a living record of enterprise applications, technical dependencies, and incident history to preserve operational knowledge. It correlates incidents with system changes and previous fixes to support root-cause diagnosis and recommend resolution options. AI capabilities are validated against historical incidents before live access, with human oversight governing autonomous actions. This enables faster diagnosis and resolution while ensuring critical findings reach the next engineer during escalations.

The Lifter Outcomes

Initial deployments of The Lifter platform and its components have delivered measurable improvements across discovery, analysis, and modernization readiness, based on observed implementation outcomes.

- **Discovery & Analysis Time:** Reduced system-understanding timelines by an estimated 60-70% in assessed modernization scenarios.
- **Engineering Effort:** Reduced legacy assessment effort by 40-50% through AI-assisted automation.
- **System Visibility:** Improved extraction and mapping of business logic and dependencies, approaching complete coverage within the analyzed scope.
- **Cost Efficiency:** Significantly lowered assessment overhead and reduced upfront modernization costs.
- **Consistency:** Established a standardized, platform-driven approach repeatable across applications.
- **Polyglot & Multi-Database Scale:** Successfully processed diverse technology stacks and databases (COBOL, 4GL, Informix, PHP, .NET, Java; Oracle, MSSQL, MySQL, PostgreSQL, Snowflake, MongoDB, SQLite, BigQuery) within a unified platform.
- **Accelerated Adoption & Reusability:** Created a scalable modernization blueprint enabling portfolio-wide replication and faster enterprise adoption.



About Indium

We are an AI services company specializing in Agentic AI, Data & Analytics, Application Engineering, and Quality Engineering.

By combining autonomous AI systems, modern engineering, and data intelligence, we build innovative AI solutions that drive measurable business outcomes and long-term value.

With 5000+ associates worldwide, Indium partners with Fortune 500 companies, in the following industries - Financial Services, Healthcare, Manufacturing, Retail, and Technology. Our teams operate in North America, India, the UK, Singapore, Australia, and Japan, helping businesses stay ahead in an AI-first world.

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