



#INSURANCE

AI-Powered Test Automation & Data Engineering

The client is a global insurance leader, operating across life, health, and general insurance segments with a presence in over 30 countries. Their business depends on the accuracy and reliability of policy management, claims, and billing systems, built on a complex API-driven architecture.



Revolutionising Test Automation

The Challenge

The client's QA organization faced mounting challenges:

- Manual regression testing for API interfaces across multiple lines of business was slow and inconsistent.
- Test data creation for policy, claims, and premium modules required days of setup, often duplicated across environments.
- Regulatory compliance demanded strict data privacy adherence (GDPR, HIPAA, PoPIA), yet realistic test data was still needed for performance and integration testing.
- Frequent policy and claims changes created contract drift between backend APIs and UI workflows, leading to production defects and rework.

Our Approach



Stage 1 Intelligent API Test Generation

- Parsed OpenAPI specifications to auto-generate executable test suites.
- Generated positive, negative, and boundary-value tests with JSON payloads.



Stage 2 AI driven test data generation

- Built domain-aware data templates using synthetic personas (policyholders, claimants, brokers, providers).
- Implemented constraint-based generation to simulate real-world data conditions.



Stage 3 DevOps & Integration

- Integrated with Azure Pipelines for daily API runs and dashboards.
- Embedded quality gates and visual analytics to track coverage, stability, and contract drift.



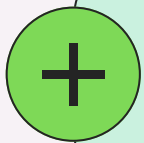
Qeagle is a leading provider of comprehensive test automation solutions, specializing in enhancing software quality and accelerating release cycles.



Revolutionising Test Automation

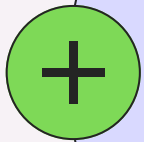
Results Achieved

Through Qeagle's strategic approach, the client achieved significant improvements in their release processes within 6 months duration and improved overall product quality.



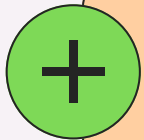
45%

Regression Cycle Time Reduction



95%

API Coverage



10%

Post-Release API Issues



20%

Reduction in Manual Testing Workforce



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