



IntelliAssure – QET Accelerators

Augmenting the testing life cycle through IntelliAssure



What is IntelliAssure?

IntelliAssure is a comprehensive platform designed to streamline and enhance the Software Testing Life Cycle (STLC) with its suite of plug-and-play solutions



It offers a range of tools and features that accelerate testing activities, improve efficiency, and ensure high-quality software delivery. These tools compliment the market leading testing tools

IntelliAssure is a bouquet of tools and solutions cutting across the various phases of STLC including data and performance.

There are domain based solutions catering to Telco, Manufacturing, Retail, Banking, Insurance and Healthcare



Benefits

By integrating seamlessly with existing workflows, IntelliAssure empowers teams to optimize their testing processes and achieve faster time-to-market

- 30-40% improvement in time to market thereby ensuring faster release cycles
- Improves test coverage and accuracy

IntelliAssure – Intelligent Automation using AI powered tools

Tool Name	Problem Statement	Tool Description	Benefits	Tech Stack
Test Asset Optimiser (TAO)	Regression suite size and maintenance effort keep increasing.	NLP-based tool identifies and consolidates duplicate test cases without losing coverage.	Up to 30% smaller suite, 60–80% less effort, lower costs.	Next JS, NodeJS, Java
Automation Failure Analysis (AFA)	High effort needed to analyze frequent automation script failures.	Predicts failure categories using historical log data; supports multiple formats.	50% less analysis effort, 80–95% accuracy, easy integration.	Next JS, Python
Self-Heal	UI test scripts often break due to interface changes, causing maintenance overhead.	Automatically adapts and fixes test scripts for UI changes using rule-based and LLM methods.	Reduces maintenance, improves stability, accelerates releases.	JavaScript, Selenium, Playwright
PDF Validator	Manual PDF validation is tedious and error-prone.	Automates PDF content validation using pixel/text comparison using LLM	95% effort savings, detects subtle changes, customizable rules.	Next JS, NodeJS, Java, GPT 4O
Enterprise Dashboard	Fragmented data and inconsistent reporting hinder visibility and decisions.	Aggregates metrics from multiple sources, offering real-time insights and dashboards.	Eliminates manual collation, enhances collaboration, templates.	Microsoft Azure Database for PostgreSQL with TimescaleDB, Power BI
API Test Accelerator	Manual API test script creation is slow and error-prone.	Auto-generates API test scripts from Swagger/Postman; supports GenAI for maintenance.	60% faster automation, fewer errors, up-to-date coverage.	Java, NodeJS, Python, Postman, GPT 4O
Business Assurance	Limited visibility into end-to-end transactions in integrated environments.	Monitors and analyzes business transactions with centralized dashboards and root cause analysis.	Faster issue identification, improved monitoring.	Next JS, NodeJS, influx db, Microsoft Azure Monitor,
Test data Management	Managing test data for automation is challenging and unreliable.	Manages and reserves unique test data for scripts; generates synthetic data as needed.	Improved reliability, supports parallel execution, easy maintenance.	Next JS, NodeJS,
Smart Data Validator	Data mismatches and lack of traceability after migration/ETL cause integrity issues.	Validates data across sources at scale, auto-generates queries, integrates with CI/CD.	Faster, complete validation, privacy compliance, no coding needed.	MongoDB Atlas, Java, Spring Boot
Test Environment Manager	Manual environment setup and tracking cause delays and errors.	Automates environment provisioning, configuration, and monitoring.	Reduces setup time, improves reliability, centralized control.	Ansible, Docker, Kubernetes

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Observability as Code Accelerator	Limited operational visibility and delayed issue detection in complex environments.	Embeds observability (logs, metrics, traces, alerts) into code for proactive monitoring.	30% faster issue detection, greater agility, scalable DevOps.	Terraform, Microsoft Azure Monitor
AI-Powered Chaos Engineering Accelerator	Traditional chaos testing lacks intelligence to pinpoint failure scenarios and optimize recovery in Kubernetes.	AI simulates failures in Kubernetes apps to find issues and improve recovery.	30% better resilience, 25% faster recovery, less downtime.	Chaos Toolkit, GPT 4O
Agentic AI-Powered Load Testing Accelerator	Manual load testing setup and scaling is inefficient, causing delays and inaccurate capacity insights.	Autonomous load testing with AI-driven scaling and auto teardown.	80% faster cycles, 60% cost savings, 2× higher accuracy.	Terraform, Docker, Locust, Ollama, Llama3



Thank you