CYIENT | Nothing Less



Accelerate test readiness with AI-generated test cases

Cyient's iSMART: An AI-based automated test case generation

In aerospace, a single requirement change can ripple across specifications, verification, traceability, and test evidence, often spanning multiple programs, suppliers, and tools. Translating that complexity into complete, consistent test scenarios takes time your release and certification timelines can't afford.

That's exactly why we built iSMART - to turn your requirements into test-ready scenarios, fast and consistently, so your teams stay focused on what matters.

From manual test design to intelligent, insight-led test case generation

Cyient's iSMART is an AI-driven accelerator that converts requirements and business rules into consistent, test-ready scenarios, leveraging LLMs and historical project data to automate what used to be manual, repetitive work.

The result: your quality, verification, and engineering teams spend their time on coverage confidence, defect containment, and corrective actions, not on manually authoring and reworking test cases just to keep up.

What improves with AI-led automation?

Test design effort

Significant reduction by automating manual test case creation

Test coverage & quality

Improved through systematic generation of positive, negative, and boundary scenarios

Faster readiness & release

Accelerating test readiness and release cycles across overall PDLC timelines

Standardized test cases

Consistent and standardized, reducing dependency on individual tester expertise

For dossier generation & validation

> 60%
Reduced dossier generation time

> 80%
Reduced dossier validation time

What changes for QA and delivery teams

Faster test case creation

- Automates test case generation from requirements and business rules
- Accelerates test readiness for releases

More complete and consistent coverage

- Generates positive, negative, and boundary scenarios systematically
- Standardizes test cases to reduce variability and defect leakage risk

Knowledge reuse across programs

- Leverages historical requirements and existing test cases as a knowledge base
- Supports scalable, repeatable test design practices across teams

User-friendly adoption

- Intuitive user interface for generating and reviewing test cases

Why choose Cyient?

Aerospace-grade confidence, built-in

Three decades of A&D discipline so your verification approach is audit-ready and program-ready.

Faster path to release and certification readiness

Reduce the lag between requirement updates and test-ready coverage, especially when programs are moving fast.

Coverage confidence at scale

Consistent test intent across teams and suppliers, so quality doesn't vary by who wrote the test.

Reuse what you already know across programs

Bring forward proven patterns and past learning to avoid starting from scratch on every release.

Standardization that stands up to scrutiny

A repeatable approach that supports traceability and evidence-driven verification, without adding process overhead.

Accelerators you can operationalize quickly

Designed for real-world adoption, so teams see value early and build momentum, without disrupting delivery.

Ready to accelerate test case design and improve coverage across releases?

Get in touch with us to see how iSMART can fit into your QA and delivery workflows.

Cyient is a global lifecycle engineering services company powering mission-critical industries from design to aftermarket across products, plants, and networks. With 300+ customers and 15,000+ associates across 30+ countries, we combine human expertise, deep domain knowledge, and AI to deliver intelligent engineering for every lifecycle across Aerospace and Rail, Automotive and Mobility, Connectivity, Energy, Healthcare, Mining, Utilities, and beyond.

To learn how we deliver exemplary outcomes, nothing less, visit www.cyient.com.

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