



AI Accelerates and Enhances Quality of Test Case Generation with Jama Connect Advisor™

Complex products or projects require comprehensive testing to ensure that what's under development will meet quality and safety standards and customer requirements. Currently, test management often involves manual processes that are prone to human errors and are time-consuming. Making changes to requirements often leaves gaps in testing coverage, which can lead to quality, performance, or compliance issues that delay delivery and increase costs.

This is where AI comes in. [Jama Connect Advisor](#), an add-on to the leading requirements management and traceability platform Jama Connect®, assists in authoring and reviewing requirements statements using natural language processing (NLP) analysis to provide scores and recommendations based on industry-accepted INCOSE rules and EARS notation. AI-powered Test Case Generation intelligently and automatically generates test case sets based on your specific requirements and parameters.

How It Works

Simply open any written requirement within a Jama Connect project, click the “Generate test cases” button, and watch as AI analyzes your needs, including test context, type, and industry vertical. Within seconds, the system generates detailed, relevant test cases for you to review and customize as needed.

For example, consider the development of an Okta integration for adding single sign-on (SSO) to a new application. Select “API” as your test context, “Security” as the test type, and “Software” as your industry vertical. With another click, tailor-made test cases are automatically generated complete with names, descriptions, and detailed step-by-step actions. You remain in control, with full freedom to edit, reorder, or add additional test steps to suit your unique processes.

KEY BENEFITS:

Save Time

Reduce the time and effort needed to create test cases based on your requirements by letting AI do the work, allowing your team to focus on higher-value tasks.

Improve Test Quality

Eliminate human error and boost traceability with AI-generated test cases tailored to your test context, test type, and industry.

Incorporate AI into Development

Elevate your development by integrating AI directly into your test case management.

With Test Case Generation, traceability is assured. Each test case is automatically linked to the original requirement within Jama Connect for complete clarity and accountability at every step. From functional tests to performance benchmarks, this AI-powered feature transforms repetitive, time-consuming tasks into streamlined processes, empowering your team to focus on quality assurance and innovation.

Jama Connect Advisor™ Test Case Generation

Test cases 10 available Regenerate test cases

- ☒ **Verify that the airbag inflates using nitrogen gas**
This test case verifies that the airbag system uses nitrogen gas as the inflation medium as required by the ISO 26262 compliance standard.
- ☐ **Verify nitrogen gas purity in the inflation process**
This test case ensures that the nitrogen gas used for inflating the airbag meets the required purity standards.
- ☐ **Verify consistent inflation pressure with nitrogen gas**
This test case checks that the airbag inflates to the correct pressure when using nitrogen gas.
- ☐ **Verify no contamination in the nitrogen gas supply**
This test case ensures that the nitrogen gas supply for the airbag system is free from contaminants.
- ☐ **Verify airbag deployment time with nitrogen gas**
This test case verifies that the airbag deploys within the specified time frame when inflated with nitrogen gas.

Editor

NAME*
Verify that the airbag inflates using nitrogen gas

DESCRIPTION*
This test case verifies that the airbag system uses nitrogen gas as the inflation medium as required by the ISO 26262

LOCATION*
Validation Test Cases [Edit](#)

STEPS

<input type="checkbox"/>	#	Action	Expected Result
<input type="checkbox"/>	1	Prepare the test environment	The test environment is set up with the necessary equipment and safety measures in place.
<input type="checkbox"/>	2	Ensure the airbag system is powered on	The airbag system is powered on and ready for testing.
<input type="checkbox"/>	3	Initiate the airbag deployment sequence	The airbag deployment sequence is started, and the system begins the inflation process.

✦ Create selected test case Cancel

Take the first step toward optimizing your testing process with Test Case Generation in Jama Connect Advisor. With automation at your fingertips, you will transform the way your team collaborates on testing and development.

For additional AI initiatives under consideration, go to <https://labs.jamasoftware.com>

To learn more:

If you are a Jama Connect customer, please complete [this form](#) to request a free trial of Jama Connect Advisor or contact Jama Software to schedule a personalized demo of Jama Connect Advisor (currently available for Cloud customers only).

If you are not yet a customer, sign up for your free trial at: www.jamasoftware.com/trial



Jama Software® is focused on maximizing innovation success in multidisciplinary engineering organizations. Numerous firsts for humanity in fields such as fuel cells, electrification, space, software-defined vehicles, surgical robotics, and more all rely on Jama Connect® requirements management software to minimize the risk of defects, rework, cost overruns, and recalls. Using Jama Connect, engineering organizations can now intelligently manage the development process by leveraging Live Traceability™ across best-of-breed tools to measurably improve outcomes. Our rapidly growing customer base spans the automotive, medical device, life sciences, semiconductor, aerospace & defense, industrial manufacturing, consumer electronics, financial services, and insurance industries. To learn more, visit us at: jamasoftware.com.